CITY OF CARSON
HOUSING AUTHORITY/
SUCCESSOR AGENCY/
PUBLIC FINANCING AUTHORITY/
CITY COUNCIL AGENDA

Tuesday, March 17, 2026
701 East Carson Street
City Hall

5:00 PM

Lula Davis-Holmes, Mayor

Dr. Jawane Hilton, District 1 Councilmember

Cedric L. Hicks, Sr., Mayor Pro Tem and District 3 Councilmember

Jim Dear, District 2 Councilmember

Arleen Bocatija Rojas, District 4 Councilmember

Dr. Khaleah Bradshaw, City Clerk

Monica Cooper, City Treasurer

"In accordance with the Americans with Disabilities Act of 1990, if you require a disability related modification or accommodation to attend or participate in this meeting, including auxiliary aids or services, please call the City Clerk's office at 310-952-1720 at least 48 hours prior to the meeting." (Government Code Section 54954.2)

PUBLIC INFORMATION

The public may address the members of the City Council on any matters within the jurisdiction of the City Council or on any items on the agenda of the City Council during the designated public comment periods. There will be two Oral Communication sessions: one for Agendized Items (comment about items ON the agenda) and the other for non-Agendized items (comment about items NOT on the Agenda). The Oral Communications portion of the agenda is limited to a duration of one hour unless otherwise approved by the City Council. Comment time is normally 3 minutes depending on the number of speakers.

PUBLIC VIEWING AVAILABLE BY:

- **Livestream on the City's website: The meeting will be streamed live over the internet via: www.carsonca.gov**
- **Youtube : www.youtube.com/@CityofCarsonCalifornia**
- **Cable TV: Spectrum (Channel 35) and ATT (Channel 99)**

IF YOU ARE NOT ABLE TO ATTEND THE MEETING IN-PERSON, PUBLIC COMMENTS CAN BE SUBMITTED BEFORE THE MEETING AT/VIA:

- **Email: Public comments can be emailed to cityclerk@carsonca.gov. The cut-off time to submit any email communications is 3:00 p.m. on the day of the meeting.**
- **Written: Written comments can be dropped off at the City Clerk's Office at City Hall. The cut-off time to submit any written communications is 3:00 p.m. on the day of the meeting. Written comments dropp**

CALL TO ORDER: CITY COUNCIL/SUCCESSOR AGENCY/HOUSING AUTHORITY (5:00 pm)

ROLL CALL (CITY CLERK)

FLAG SALUTE

INVOCATION (Item 1)

1. PASTOR PAUL STARKS OF GREATER LOVE REFORMED BAPTIST CHURCH

CLOSED SESSION (Items 2-4)

REPORT ON ANY PUBLIC COMMENTS ON CLOSED SESSION ITEMS (CITY CLERK)

ANNOUNCEMENT OF CLOSED SESSION ITEMS (CITY ATTORNEY)

RECESS INTO CLOSED SESSION UNTIL 6:00 P.M. OR UNTIL THE END OF CLOSED SESSION, WHICHEVER OCCURS FIRST

2. CONFERENCE WITH LEGAL COUNSEL – ANTICIPATED LITIGATION (CITY COUNCIL)
   — A closed session will be held, pursuant to Government Code Section 54956.9(d)(2) or (d)(3) and (e)(1), because there is a significant exposure to litigation in 1 case(s).

3. CONFERENCE WITH LABOR NEGOTIATOR (CITY COUNCIL)
   — A closed session will be held, pursuant to Government Code 54957.6, with City Manager, Assistant City Manager, and Human Resources Officer, its negotiators(s), regarding labor negotiations with American Federation of State, County and Municipal Employees (AFSCME Local 809) Part-time.

4. CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION (CITY COUNCIL)
   — A closed session will be held, pursuant to Government Code Section 54956.9(d)(1), to confer with legal counsel regarding pending litigation to which the City of Carson is a party. The title of such litigation is as follows: Justin Battle v. City of Carson; Case No. 24STCV17820.

RULES OF DECORUM:

1. No person attending a Public Meeting shall engage in disorderly or boisterous conduct, including but not limited to applause, whistling, stamping of feet, booing, or making any loud, threatening, profane, abusive, personal, impertinent, or slanderous utterance-that disturbs, disrupts, or otherwise impedes the orderly conduct of the meeting.
2. All remarks by members of the public shall be addressed to the Mayor or the Chair and not to any other member of the public or to any single Council, Board or Commission Member unless in response to a question from that Member.
3. Signs, placards, banners, or other similar items shall not be permitted in the audience during a Public Meeting if the presence of such item disturbs, disrupts or otherwise impedes the orderly conduct of the meeting.
4. All persons attending a Public Meeting shall remain seated in the seats provided, unless addressing the body at the podium or entering or leaving the meeting.
5. All persons attending a Public Meeting shall obey any lawful order of the Presiding Officer to enforce the Rules of Decorum.

- Treat everyone courteously
- Listen to others respectfully
- Exercise self-control
- Give open-minded consideration to all viewpoints
- Focus on the issues and avoid personalizing debate
- Embrace respectful disagreement and dissent as democratic rights that are inherent components of an inclusive public process and tools for forging sound decisions

RECONVENE TO OPEN SESSION AT 6:00 P.M. OR AT THE END OF CLOSED SESSION, WHICHEVER OCCURS FIRST

REPORT ON CLOSED SESSION ACTIONS (CITY ATTORNEY)

INTRODUCTIONS (MAYOR) (Item 5)

5. REPORT FROM CAPTAIN NORMAN OF CARSON SHERIFF'S STATION

PRESENTATIONS (Items 6-8)

6. CERTIFICATE OF RECOGNITION TO UCHENNA NWOSU FOR HIS PERFORMANCE AND VICTORY IN SUPERBOWL LX

7. WOMEN'S ISSUES COMMISSION QUARTERLY REPORT

8. RECOGNITION FOR LOS ANGELES COUNTY SHERIFF'S DEPUTIES FOR THEIR RECENT SUCCESSFUL RESCUE OPERATION

ORAL COMMUNICATIONS FOR MATTERS LISTED ON THE AGENDA (MEMBERS OF THE PUBLIC) (LIMITED TO ONE HOUR)

The public may address the members of the City Council/Housing Authority/Successor Agency on any matters within the jurisdiction of the City Council/Housing Authority/Successor Agency or on any items on the agenda of the City Council/Housing Authority/Successor Agency, other than closed session matters, prior to any action taken on the agenda. Speakers are limited to no morethan three minutes, speaking once. Oral communications will be limited to one (1) hour unless extended by order of the Mayor with approval of the City Council.

APPROVAL OF MINUTES (Item 9)

9. APPROVAL OF THE FOLLOWING CARSON CITY COUNCIL/SUCCESSOR AGENCY/HOUSING AUTHORITY MEETING MINUTES - MARCH 3, 2026 (REGULAR)
   RECOMMENDED ACTION
   — 1. APPROVE the minutes as listed.

CONSENT (Items 10-24)

ANY ITEM OR ITEMS MAY BE REMOVED FOR DISCUSSION

These items are considered to be routine items of business and have, therefore, been placed on the CONSENT CALENDAR. For items remaining on the CONSENT CALENDAR, a single motion to ADOPT the recommended action is in order.

10. CONSIDER A REPORT OF ALL CITY CONTRACTS APPROVED UNDER THE AUTHORITY OF DEPARTMENT DIRECTORS FOR THE PERIOD FEBRUARY 1, 2026 THROUGH FEBRUARY 28, 2026 PURSUANT TO CMC SECTION 2604 (CITY COUNCIL)
    RECOMMENDED ACTION
    — 1. RECEIVE and FILE this report.

11. CONSIDER A REPORT OF ALL CITY CONTRACTS APPROVED UNDER CITY MANAGER AUTHORITY FOR THE PERIOD FEBRUARY 1, 2026 THROUGH FEBRUARY 28, 2026 PURSUANT TO CMC SECTION 2604 (CITY COUNCIL)

RECOMMENDED ACTION

— 1. RECEIVE and FILE this report.

12. CONSIDER A REPORT ON ALL INTRADEPARTMENTAL BUDGET TRANSFERS APPROVED UNDER THE CITY MANAGER OR DESIGNEE AUTHORITY FOR THE MONTH OF FEBRUARY 2026 PER ORDINANCE 24-2401 (CITY COUNCIL)

RECOMMENDED ACTION

— 1. RECEIVE and FILE the report (Exhibit No. 1).

13. CONSIDER ADOPTING RESOLUTION NO. 26-027, A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CARSON RATIFYING CLAIMS AND DEMANDS IN THE AMOUNT OF $1,300,360.93, DEMAND CHECK NUMBERS 183818 THROUGH 183922 FOR GENERAL DEMAND (CITY COUNCIL)

RECOMMENDED ACTION

— 1. WAIVE further reading and ADOPT Resolution No. 26-027, "A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CARSON RATIFYING CLAIMS AND DEMANDS IN THE AMOUNT OF $1,300,360.93, DEMAND CHECK NUMBERS 183818 THROUGH 183922 FOR GENERAL DEMAND."

14. CONSIDER ADOPTING RESOLUTION NO. 26-04-CHA, A RESOLUTION OF THE CARSON HOUSING AUTHORITY RATIFYING CLAIMS AND DEMANDS IN THE AMOUNT OF $22,990.58, DEMAND CHECK NUMBERS HA-002104 THROUGH HA-002109 (HOUSING AUTHORITY)

RECOMMENDED ACTION

— 1. WAIVE further reading and ADOPT Resolution No. 26-04-CHA, "A RESOLUTION OF THE CARSON HOUSING AUTHORITY RATIFYING CLAIMS AND DEMANDS IN THE AMOUNT OF $22,990.58, DEMAND CHECK NUMBERS HA-002104 THROUGH HA-002109".

15. CONSIDER ADOPTING RESOLUTION NO. 26-04-CSA, A RESOLUTION OF THE CARSON SUCCESSOR AGENCY CLAIMS AND DEMANDS IN THE AMOUNT OF $407.20, DEMAND CHECK NUMBERS SA-001986 THROUGH SA-001987 (SUCCESSOR AGENCY)

RECOMMENDED ACTION

— 1. WAIVE further reading and ADOPT Resolution NO. 26-04-CSA, "A RESOLUTION OF THE CARSON SUCCESSOR AGENCY CLAIMS AND DEMANDS IN THE AMOUNT OF $407.20, DEMAND CHECK NUMBERS SA-001986 THROUGH SA-001987".

16. CONSIDER TAKING A POSITION OF OPPOSITION TO ASSEMBLY BILL 1768 (BRYAN) AND THE RELATED LOS ANGELES COUNTY SALES TAX MEASURE PROPOSED FOR THE JUNE 2026 BALLOT (CITY COUNCIL)

RECOMMENDED ACTION

— 1. TAKE a position of OPPOSITION and DIRECT staff to submit the proposed letters.

17. CONSIDER APPROVAL OF CONTRACT AMENDMENT NO. 1 FOR AMERICAN SIGN LANGUAGE INTERPRETATION SERVICES (CITY COUNCIL)

RECOMMENDED ACTION

— 1. APPROVE Amendment No.1 to contract with Language Network. for American Sign Language Interpretation Services, for an increased amount not to exceed $95,000, increasing the total contract sum to $155,000; and

— 2. AUTHORIZE the Mayor to execute the amendment after approval as to form by the City Attorney.

18. CONSIDER APPROVAL TO AMENDMENT NO. 2 FOR CONTRACT SERVICES WITH MDG ASSOCIATES FOR RESIDENTIAL AND COMMERCIAL FACADE INSPECTIONS AND PROJECT COORDINATION SERVICES (CITY COUNCIL)

RECOMMENDED ACTION

— 1. APPROVE the proposed Amendment No. 2 to the Contract Services Agreement with MDG Associates to continue to provide professional services to the City's Housing Division and Community Development Department, increasing the contract amount by by $768,249.99, for a new total not-to-exceed amount of $1,536,499.99, and extend the contract term through June 20, 2029.

— 2. AUTHORIZE the Mayor to execute the proposed Amendment No. 2, subject to approval as to form by the City Attorney.

19. CONSIDER APPROVAL OF A CONTRACT SERVICES AGREEMENT WITH SAMI’S REFEREES, LLC TO PROVIDE ON-CALL YOUTH SPORTS OFFICIATING SERVICES FOR THE CITY’S RECREATION PROGRAMS (CITY COUNCIL)

RECOMMENDED ACTION

— 1. WAIVE any minor irregularities or informalities in the proposal, in accordance with Carson Municipal Code (CMC) Section 2611(l)(2);

— 2. AWARD a contract for youth sports officiating services only and APPROVE the proposed Contract Services Agreement with Sami’s Referees, LLC, for a total not-to-exceed contract amount of $1,120,000 over a five-year term, beginning April 21, 2026 (Exhibit No. 4; “Agreement”); and,

— 3. AUTHORIZE the Mayor to execute the Agreement with Sami’s Referees, LLC, subject to approval as to form by the City Attorney.

20. CONSIDER APPROVING MEMORANDUM OF UNDERSTANDING (MOU) WITH LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY (LACMTA) FOR THE CITY OF CARSON TO BECOME A MEMBER OF THE REGIONAL INTEGRATION OF INTELLIGENT TRANSPORTATION SYSTEMS (RIITS) (CITY COUNCIL)

RECOMMENDED ACTION

— 1. APPROVE Memorandum of Understanding between the City of Carson and LACMTA.

— 2. AUTHORIZE the Mayor to execute Memorandum of Understanding between the City of Carson and LACMTA, following approval as to form by the City Attorney

21. CONSIDER AUTHORIZING STAFF TO ADVERTISE FOR CONSTRUCTION BIDS FOR PROJECT NO. 1776 - CALAS PARK STORMWATER AND WATER QUALITY IMPROVEMENTS SUPPLEMENTAL ENVIRONMENTAL PROJECT, APPROVE REQUIRED CEQA ACTIONS, AND APPROVE A USE AND MAINTENANCE AGREEMENT WITH THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT (CITY COUNCIL)

RECOMMENDED ACTION

— 1. AUTHORIZE staff to advertise the project and invite construction bids for Project No. 1776 – Calas Park Stormwater and Water Quality Improvements Supplemental Environmental Project;

— 2. APPROVE the California Environmental Quality Act (CEQA) Initial Study and Mitigated Negative Declaration (MND) for the proposed project, which confirms that the project will not have significant environmental impacts when required mitigation measures are implemented;

— 3. AUTHORIZE staff to file and record a Notice of Determination for the project with the Los Angeles County Clerk and the State Clearinghouse at the Governor’s Office of Planning and Research, as required under CEQA following project approval;

— 4. APPROVE the Use and Maintenance Agreement with the Los Angeles County Flood Control District, which allows the project to connect to and utilize the County’s storm drain system and establishes the City’s responsibility for maintaining the related stormwater improvements; and,

— 5. AUTHORIZE the Mayor to execute the Use and Maintenance Agreement with the Los Angeles County Flood Control District, subject to approval as to form by the City Attorney.

22. CONSIDER ADOPTING THE FINAL 2025 PAVEMENT MANAGEMENT PROGRAM REPORT PREPARED BY APPLIED RESEARCH ASSOCIATES, INC. (ARA) (CITY COUNCIL)

RECOMMENDED ACTION

— 1. RECEIVE, FILE, and ADOPT the final 2025 Pavement Management Program Report prepared by Applied Research Associates, Inc.

23. CONSIDER APPROVAL OF AMENDMENT NO. 3 TO THE AGREEMENT WITH TOTUM CORP. FOR ON-CALL CONSTRUCTION MANAGEMENT AND INSPECTION SERVICES SUPPORTING PUBLIC WORKS PROJECTS (CITY COUNCIL)

RECOMMENDED ACTION

— 1. APPROVE the proposed Amendment No. 3 to the agreement with Totum Corp. for on-call Construction Management and Construction Inspection services, increasing the contract amount by $250,000, for a new total not-to-exceed contract amount of $1,482,635, and extending the contract term by six months, through December 30, 2026; and,

— 2. AUTHORIZE the Mayor to execute Amendment No. 3 to the agreement with Totum Corp., subject to approval as to form by the City Attorney.

24. CONSIDER APPROVAL OF AMENDMENT NO. 1 TO THE AGREEMENT WITH PCN3, INC. FOR PROJECT NO. 1726 – COMMUNITY CENTER COURTYARD AND EAST PARKING LOT IMPROVEMENTS, AND ADOPTION OF RESOLUTION NO. 26-024 AMENDING THE FISCAL YEAR 2025-2026 BUDGET IN THE GENERAL FUND, SPECIAL REVENUE FUNDS, ENTERPRISE FUNDS, AND CAPITAL IMPROVEMENT PROGRAM (CIP) FUND (CITY COUNCIL)

RECOMMENDED ACTION

— 1. APPROVE the proposed Amendment No. 1 to the Public Works Agreement with PCN3, Inc. in the amount of $461,614.28 to cover costs associated with design revisions, unforeseen construction conditions, and additional work performed during construction;

— 2. Adopt Resolution No. 26-024, titled “A RESOLUTION OF THE CITY OF CARSON CITY COUNCIL AMENDING THE FISCAL YEAR 2025-2026 BUDGET IN THE GENERAL FUND, SPECIAL REVENUE FUNDS, ENTERPRISE FUNDS, AND THE CAPITAL IMPROVEMENT PROGRAM (CIP) FUND,” to increase the budget authority for Project PW1725 by $461,614.28 (Exhibit No. 2);

— 3. AUTHORIZE the Mayor to execute the proposed Amendment No. 1 to the agreement with PCN3, Inc., subject to approval as to form by the City Attorney; and,

— 4. AMEND the Fiscal Year 2025-2026 Capital Improvement Program (CIP) Plan to reflect the updated project funding for this project (Exhibit No. 4).

25. CONSIDER APPROVAL OF AMENDMENT NO. 1 TO THE PROFESSIONAL SERVICES AGREEMENT WITH W.G. ZIMMERMAN ENGINEERING INC. TO PROVIDE ON-CALL PROJECT MANAGEMENT SERVICES TO THE PUBLIC WORKS DEPARTMENT (CITY COUNCIL)

RECOMMENDED ACTION

— 1. APPROVE Amendment No. 1 with W.G. Zimmerman Engineering Inc. for On-Call Project Management services increasing the contract sum by $355,000.00 for a total contract sum of $970,776.00 and extending the contract until June 30, 2027.

— 2. AUTHORIZE the Mayor to execute contract Amendment No. 1 with W.G. Zimmerman Engineering Inc. following approval as to form by the City Attorney.

SPECIAL ORDERS OF THE DAY (Item 26)

Public testimony is restricted to three minutes per speaker, speaking once (excepting applicants who are afforded a right of rebuttal, if desired), unless
extended by order of the Mayor with the approval of the City Council.

26. CONSIDER INTRODUCING FOR FIRST READING, BY TITLE ONLY, ORDINANCE NO. 26-2606, APPROVING AN AMENDED AND RESTATED DEVELOPMENT AGREEMENT NO. 23-19 BETWEEN THE CITY OF CARSON, IMPERIAL AVALON DE, LLC, AND LENNAR HOMES OF CALIFORNIA, LLC FOR A PROPOSED MIXED-USE PROJECT AT 21207 S. AVALON BLVD. (CITY COUNCIL)

RECOMMENDED ACTION

— 1. OPEN the public hearing, TAKE public comment, and CLOSE the public hearing; and

— 2. INTRODUCE for First Reading, by Title only, Ordinance No. 26-2606, "AN UNCODIFIED ORDINANCE OF THE CITY OF CARSON, CALIFORNIA APPROVING AMENDED AND RESTATED DEVELOPMENT AGREEMENT NO. 23-19 BETWEEN THE CITY OF CARSON, IMPERIAL AVALON DE, LLC, AND LENNAR HOMES OF CALIFORNIA, LLC FOR A PROPOSED MIXED-USE PROJECT AT 21207 S. AVALON BLVD."

DISCUSSION (Items 27-31)

27. CONSIDER ADOPTING RESOLUTION 26-026 DESIGNATING THE CITY OF CARSON'S EVENTS, PROGRAMS, AND COMMUNITY ACTIVITIES ASSOCIATED WITH THE 2028 OLYMPIC AND PARALYMPIC GAMES AS "THE CARSON EXPERIENCE" (CITY COUNCIL)

RECOMMENDED ACTION

— 1. WAIVE further reading and ADOPT Resolution No. 26-026, "A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CARSON, CALIFORNIA, OFFICIALLY DESIGNATING AND NAMING THE CITY OF CARSON'S EVENTS, PROGRAMS, AND COMMUNITY ACTIVITIES ASSOCIATED WITH THE 2028 OLYMPIC AND PARALYMPIC GAMES AS "THE CARSON EXPERIENCE"; and

— 2. AUTHORIZE the City Manager or designee to coordinate the development, promotion, and implementation of activities under the "Carson Experience" initiative.

28. CONSIDER INTRODUCTION AND FIRST READING BY TITLE ONLY OF ORDINANCE NO. 26-2605, AMENDING THE CARSON MUNICIPAL CODE RELATING TO SIDEWALK VENDING REGULATIONS, INCLUDING PROHIBITING SIDEWALK VENDING WITHIN 1,000 FEET OF A PLACE OF PUBLIC ASSEMBLAGE AROUND EVENT TIMES AND WITHIN 1,000 FEET OF A SCHOOL AROUND SCHOOL SESSION HOURS (CITY COUNCIL)

RECOMMENDED ACTION

— 1. INTRODUCE for first reading, by title only and with full reading waived, Ordinance No. 26-2605, "AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF CARSON, CALIFORNIA, AMENDING: (i) SECTION 1202 OF CHAPTER 2 (PENALTY PROVISIONS) OF ARTICLE I (GENERAL PROVISIONS), (ii) SECTIONS 31001 (DEFINITIONS) AND 31002 (SIDEWALK VENDING OPERATIONAL REQUIREMENTS) OF CHAPTER 10 (SIDEWALK VENDING) OF ARTICLE 3 (PUBLIC SAFETY); (iii) SECTIONS 4118 (STREET VENDORS NEAR SCHOOLS), 4118.1 (PEDDLING FROM VEHICLES IN PARKS), 4118.2 (SELLING ICE CREAM AND CERTAIN FOOD PRODUCTS FROM VEHICLES IN PUBLIC STREETS), AND 4118.4 (VENDING OF MERCHANDISE ON PUBLIC PROPERTY, STADIUMS, ATHLETIC FIELDS, COMMUNITY CENTERS OR ABANDONED PROPERTY – EXCLUSIONS) OF CHAPTER 1 (PROHIBITED CONDUCT – OFFENSES) OF ARTICLE IV (PUBLIC PEACE); AND (iv) SUBSECTION (E) OF SECTION 63142 (MOBILE FOOD VENDORS) OF CHAPTER 3 (BUSINESS, PROFESSIONS, AND TRADES) OF ARTICLE VI (TAXES AND LICENSES) OF THE CARSON MUNICIPAL CODE, TO PROHIBIT SIDEWALK VENDORS IN PUBLIC PLACES OF ASSEMBLAGE (AS DEFINED) DURING AND IMMEDIATELY BEFORE AND AFTER LARGE EVENTS, AND TO ELIMINATE INTERNAL INCONSISTENCY WITHIN THE CARSON MUNICIPAL CODE WITH RESPECT TO REGULATION OF SIDEWALK VENDORS."

29. CONSIDER A REPORT OF ALL NEW BUSINESS LICENSES ISSUED BY THE CITY OF CARSON FOR THE PERIOD FEBRUARY 1, 2026, THROUGH FEBRUARY 28, 2026 (CITY COUNCIL)

RECOMMENDED ACTION

— 1. DISCUSS the Report

30. CONSIDER CARSON'S 2025 ANNUAL HOUSING ELEMENT PROGRESS REPORT (CITY COUNCIL)

RECOMMENDED ACTION

— 1. REVIEW Carson's 2025 Annual Housing Element Progress Report;

— 2. DISCUSS the Report; and

— 3. AUTHORIZE the Director of Community and Economic Development to make any further corrections or adjustments as may be necessary to ensure full compliance and to submit the Report to HCD.

31. CONSIDERATION OF ONLY LOCAL UNCONTESTED APPOINTMENTS TO THE CITY'S COMMISSIONS, COMMITTEES, AND BOARDS, AND CITY AFFILIATED ORGANIZATIONS BY MAYOR AND CITY COUNCIL AND CONSIDER ALL (CONTESTED AND UNCONTESTED) APPOINTMENTS TO ALL COMMISSIONS (CITY COUNCIL)

RECOMMENDED ACTION

— 1. CONSIDER and only APPOINT uncontested members to the City Commissions, Committees, and Boards;

— 2. CONSIDER and APPOINT all (contested and uncontested) members to all commissions;

— 3. CONSIDER and APPOINT members to City Affiliated Organizations;

— 4. DIRECT the City Clerk to notify all affected appointments of this action in writing;

— 5. IF APPLICABLE, DIRECT the City Clerk to post and publish in accordance with the Maddy Act

ORDINANCE SECOND READING

ORAL COMMUNICATIONS FOR MATTERS NOT LISTED ON THE AGENDA (MEMBERS OF THE PUBLIC)

The public may at this time address the members of the City Council/Housing Authority/Successor Agency on any matters within the jurisdiction of the City Council/Housing Authority/Successor Agency. No action may be taken on non-agendized items except as authorized by law. Speakers are requested to limit their comments to no more than three minutes each, speaking once.

COUNCIL MEMBER REQUESTS TO ADD ITEMS TO FUTURE AGENDAS

ORAL COMMUNICATIONS (COUNCIL MEMBERS)

ANNOUNCEMENT OF UNFINISHED OR CONTINUED CLOSED SESSION ITEMS (AS NECESSARY)

RECESS TO CLOSED SESSION

RECONVENE TO OPEN SESSION

REPORT OF ACTIONS ON UNFINISHED OR CONTINUED CLOSED SESSION ITEMS

MEMORIAL ADJOURNMENTS

ADJOURNMENT

Date Posted: March 11, 2026

File #: **Version:**

Report to City Council, Successor Agency, and Housing Authority

Tuesday, March 17, 2026, 5:00 PM

APPROVAL OF MINUTES 9.

To: City Council, Successor Agency, and Housing Authority

From: Joy Simarago, Deputy City Clerk CCO Administration

Subject: APPROVAL OF THE FOLLOWING CARSON CITY COUNCIL/SUCCESSOR AGENCY/HOUSING AUTHORITY MEETING MINUTES - MARCH 3, 2026 (REGULAR)

I. SUMMARY

The City Clerk's Office is seeking approval of the following minutes:

- Tuesday, March 3, 2026 (Regular)

II. RECOMMENDATION

APPROVE the minutes as listed.

III. ALTERNATIVES

None.

IV. BACKGROUND

None.

V. FISCAL IMPACT

None.

VI. EXHIBITS

1. Minutes, March 3, 2026 (Regular)

Prepared by: Dr. Khaleah K. Bradshaw, City Clerk and Joy Simarago, Deputy City Clerk

Attachments

Minutes - CC Reg Mtg 03-03-26.pdf

CITY OF CARSON

MINUTES

CARSON CITY COUNCIL/
SUCCESSOR AGENCY/HOUSING AUTHORITY
REGULAR MEETING

Tuesday, March 3, 2026, 5:00 PM

CALL TO ORDER: CITY COUNCIL/SUCCESSOR AGENCY/HOUSING AUTHORITY (5:00 pm)

The meeting was called to order at 5:04 P.M. by Mayor/Agency Chairman/Authority Chairman Lula Davis-Holmes in the Helen Kawagoe Council Chambers, Carson City Hall, located at 701 E. Carson Street, Carson, California 90745.

ROLL CALL (CITY CLERK)

City Clerk/Agency Secretary/Authority Secretary, Dr. Khaleah K. Bradshaw noted the roll:

Council Members/Agency Members/Authority Board Members Present:

Mayor/Agency Chairman/Authority Chairman Lula Davis-Holmes

Mayor Pro Tempore/Agency Vice Chairman/Authority Vice Chairman Cedric Hicks, Sr.

Council Member/Agency Member/Authority Board Member Jim Dear

Council Member/Agency Member/Authority Board Member, Dr. Jawane Hilton

Council Member/Agency Member/Authority Board Member Arleen Rojas

Also Present:

Monica Cooper, City/Agency/Authority Treasurer; Sunny Soltani, City/Agency/Authority Attorney; David C. Roberts, Jr., City Manager; Dr. Robert Lennox, Assistant City Manager; John Raymond, Executive Director; Michael Whittiker, Jr., Director of Community Services; Dr. Arlington Rodgers, Jr., Director of Public Works; Nora Garcia, Director of Public Safety and Emergency Services;

William Jefferson, Director of Finance; Gary Carter, Director of Information Technology and Security; Joshua Boudreaux, Director of Human Resources; Thomas Toman, Deputy City Manager; Armine Chaparyan, Deputy City Manager; Nathan Freeman, Director of Community and Economic Development; Michael George, Government Affairs Officer; Reata Kulcsar, Energy and Sustainability Officer; and Kourtney Cullors, Chief Deputy City Clerk

FLAG SALUTE

Council Member/Agency Member/Authority Board Member Rojas led the Pledge of Allegiance.

INVOCATION (Item 1)

1. BISHOP BYRON SMITH FROM GETHSEMANE CHRISTIAN LOVE MBC

Bishop Byron Smith gave the invocation.

CLOSED SESSION (Item 2)

2. CONFERENCE WITH LEGAL COUNSEL - ANTICIPATED LITIGATION (CITY COUNCIL)

— A closed session will be held, pursuant to Government Code Section 54956.9(d)(2) or (d)(3) and (e)(1), because there is a significant exposure to litigation in two cases.

ACTION: No reportable action was taken.

REPORT ON ANY PUBLIC COMMENTS ON CLOSED SESSION ITEMS (CITY CLERK)

None.

ANNOUNCEMENT OF CLOSED SESSION ITEMS (CITY ATTORNEY)

City/Agency/Authority Attorney Soltani announced the Closed Session items.

RECESS INTO CLOSED SESSION UNTIL 6:00 P.M. OR UNTIL THE END OF CLOSED SESSION, WHICHEVER OCCURS FIRST

The meeting was recessed at 5:09 P.M. by Mayor/Agency Chairman/Authority Chairman Davis-Holmes to Closed Session.

2. CONFERENCE WITH LEGAL COUNSEL - ANTICIPATED LITIGATION (CITY COUNCIL)

RULES OF DECORUM:

A recording of the Rules of Decorum was presented at the beginning of the meeting.

RECONVENE TO OPEN SESSION AT 6:00 P.M. OR AT THE END OF CLOSED SESSION, WHICHEVER OCCURS FIRST

The meeting was reconvened at 6:14 P.M. by Mayor/Agency Chairman/Authority Chairman Davis-Holmes with all members previously not present.

REPORT ON CLOSED SESSION ACTIONS (CITY ATTORNEY)

City/Agency/Authority Attorney Soltani gave the Closed Session Report.

INTRODUCTIONS (MAYOR) (Items 3-4)

3. REPORT FROM CAPTAIN NORMAN OF CARSON SHERIFF'S STATION- 6:17 PM

Item No. 3 was heard after Item No. 4.

Captain Norman summarized the recent law enforcement activities and crime report.

Mayor Pro Tempore/Agency Vice Chairman/Authority Vice Chairman Hicks, Sr. thanked Captain Norman for addressing an issue he had.

Council Member/Agency Member/Authority Board Member, Dr. Hilton shared that there has been a series of car break-ins in the Victoria Park area and asked for increased patrols. Captain Norman responded in the affirmative.

Council Member/Agency Member/Authority Board Member Dear asked about the shifts of the two motorcyle officers. Captain Norman responded to his question.

4. REPORT FROM ASSISTANT CHIEF KANE OF LOS ANGELES COUNTY FIRE - 6:14 PM

Item No. 4 was heard after the Report on Closed Session.

Assistant Chief Brian Kane gave the Public Safety Report for the month of February.

PRESENTATIONS (Items 5-11)

5. CERTIFICATE OF RECOGNITION FOR TAQUERIA LAS 3 CHARRAS' GRAND OPENING

Item No. 5 was heard after Item No. 7.

Mayor Pro Tempore/Agency Vice Chairman/Authority Vice Chairman Hicks, Sr. presented a Certificate of Recognition to the representative of Taqueria Las 3 Charras who accepted with words of gratitude. She announced the Grand Opening/Ribbon Cutting, on March 3, 2026, at 10:00 A.M., located at 816 Carson Street, Unit 104, Carson, California.

6. INTRODUCTION AND UPDATE FROM GENERAL MANAGER ADAM DUVENDECK FROM ANSCHUTZ ENTERTAINMENT GROUP / DIGNITY HEALTH SPORTS PARK

Item No. 6 was heard after Item No. 3.

Mayor/Agency Chairman/Authority Chairman Davis-Holmes continued this item.

7. BUILDING AND SAFETY DIVISION UPDATE BY TRANSTECH ENGINEERS

Melissa Demirci, CEO of Transtech Engineers, gave a PowerPoint presentation of the Building and Safety Division Update showing the service numbers/data from 2025.

The Mayor and City Council thanked Melissa Demirci for the work of Transtech and all they do for the city and community.

8. PROCLAMATION RECOGNIZING WOMEN'S HISTORY MONTH

Item No. 8 was heard after Item No. 5.

Mayor/Agency Chairman/Authority Chairman Davis-Holmes introduced Dr. Rita Gallardo Good, Commissioner for the California Commission of the Status of Women and Girls in California. Council Member/Agency Member/Authority Board Member Rojas read and presented the proclamation to Dr. Good who accepted with words of gratitude.

Mayor/Agency Chairman/Authority Chairman Davis-Holmes introduced Dr. Regina Smith, President of the Los Angeles County Commission for Women, and presented her with the proclamation. Dr. Smith offered words of gratitude.

Mayor/Agency Chairman/Authority Chairman Davis-Holmes introduced the Honorable Kimberly Dotson of the Los Angeles County Superior Court and presented her the proclamation. Judge Kimberly Dotson offered words of gratitude.

Mayor/Agency Chairman/Authority Chairman Davis-Holmes introduced members of the Women's Issues Commission and presented them with a proclamation. Chair Carolyn Foster introduced members of the Women's Issues Commission Susan Odom Houze, Yolanda Fielder, Sheila Tresvant, Dr. Greta Price, Connie De La Cruz Manio, and Stephanie Clemente Finley who were in attendance at the meeting.

9. PROCLAMATION RECOGNIZING RED CROSS MONTH

Mayor Pro Tempore/Agency Vice Chairman/Authority Vice Chairman Hicks, Sr. introduced Nancy Perez, Senior ESG and Member of the Board of Directors for the American Red Cross Long Beach and South Bay Chapter. He read and presented the proclamation to her who offered words of gratitude.

10. PROCLAMATION RECOGNIZING READ ACROSS AMERICA

Council Member/Agency Member/Authority Board Member, Dr. Hilton introduced Phuong Nguyen, Teacher/Librarian at Carson High School. He read and presented the proclamation to her who offered words of gratitude.

11. PROCLAMATION RECOGNIZING CESAR CHAVEZ DAY

Council Member/Agency Member/Authority Board Member Rojas introduced Sarah Zapata Mijares and her daughter Tara Mijares. She read and presented the proclamation to them and Sarah Mijares offered comments and words of gratitude.

ORAL COMMUNICATIONS FOR MATTERS LISTED ON THE AGENDA (MEMBERS OF THE PUBLIC) (LIMITED TO ONE HOUR)

None.

APPROVAL OF MINUTES (Item 12)

12. APPROVAL OF THE FOLLOWING CARSON CITY COUNCIL/SUCCESSOR AGENCY/HOUSING AUTHORITY MEETING MINUTES - FEBRUARY 17, 2026 (REGULAR) and FEBRUARY 23, 2026 (SPECIAL)- 7:54 PM

RECOMMENDED ACTION

— 1. APPROVE the minutes as listed.

Motion To Approve submitted by Cedric L. Hicks Sr. seconded by Jim Dear resulting in 5-0-0-0-0

CONSENT (Items 13-16)

Motion To Approve submitted by Cedric L. Hicks Sr. seconded by Jim Dear resulting in 5-0-0-0-0

13. CONSIDER ADOPTING RESOLUTION NO. 26-023, A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CARSON RATIFYING CLAIMS AND DEMANDS IN THE AMOUNT OF $7,652,726.55, DEMAND CHECK NUMBERS 183458 THROUGH 183817 AND 291 FOR GENERAL DEMAND AND THE AMOUNT OF $38,977.40, CHECK NUMBER 1300 FOR CO-OP AGREEMENT DEMANDS (CITY COUNCIL)

RECOMMENDED ACTION

— 1. WAIVE further reading and ADOPT Resolution No. 26-023, "A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CARSON RATIFYING CLAIMS AND DEMANDS IN THE AMOUNT OF $7,652,726.55, DEMAND CHECK NUMBERS 183458 THROUGH 183817 AND 291 FOR

GENERAL DEMAND AND THE AMOUNT OF $38,977.40, CHECK NUMBER 1300 FOR CO-OP AGREEMENT DEMANDS. "

ACTION: Item No. 13 was approved on Consent.

14. CONSIDER AN UPDATE ON CITY COMMISSIONS (CITY COUNCIL)

RECOMMENDED ACTION

— 1. RECEIVE and FILE this report.

ACTION: Item No. 14 was approved on Consent.

15. CONSIDER RESOLUTION NO. 26-022, A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CARSON, CALIFORNIA, AUTHORIZING THE CITY MANAGER AND/OR DESIGNEE TO APPLY FOR A GRANT FROM THE STATE OF CALIFORNIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT HOME INVESTMENT PARTNERSHIPS (HOME) PROGRAM AMENDMENT #2 OF 2026 (CITY COUNCIL)

RECOMMENDED ACTION

— 1. WAIVE further reading and ADOPT Resolution No. 26-022, "A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CARSON, CALIFORNIA, AUTHORIZING THE CITY MANAGER AND/OR DESIGNEE TO APPLY FOR A GRANT FROM THE STATE OF CALIFORNIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT HOME INVESTMENT PARTNERSHIPS (HOME) PROGRAM AMENDMENT #2 OF 2026."

ACTION: Item No. 15 was approved on Consent.

16. CONSIDER APPROVING AN AMENDMENT TO STANDARD MANAGEMENT PROCEDURE (SMP) NO. 2.5, TITLED “DISPLAY AND CARE OF NATIONAL, INTERNATIONAL, AND CITY FLAGS,” WHICH UPDATES THE CITY’S GUIDELINES FOR THE PROPER DISPLAY, HANDLING, AND CARE OF OFFICIAL FLAGS AT ALL CITY-OWNED FACILITIES (CITY COUNCIL)

RECOMMENDED ACTION

— 1. APPROVE the proposed amended Standard Management Procedure (SMP) No. 2.5, titled “Display and Care of National, International, and City Flags,” which establishes updated guidelines for the proper display, handling, and care of official flags at all City-owned facilities

ACTION: Item No. 16 was approved on Consent.

SPECIAL ORDERS OF THE DAY (Item 17)

17. PUBLIC HEARING TO CONSIDER ADOPTION OF AN INTERIM URGENCY ORDINANCE NO. 26-2604U EXTENDING A TEMPORARY MORATORIUM ON THE ESTABLISHMENT OR EXPANSION OF

RESTAURANT DRIVE-THROUGH OPERATIONS WITHIN CITY LIMITS DURING THE PENDENCY OF THE CITY'S REVIEW AND ADOPTION OF PERMANENT ZONING REGULATIONS FOR SUCH USES FOR AN ADDITIONAL TEN MONTHS AND FIFTEEN DAYS (CITY COUNCIL)

RECOMMENDED ACTION

— 1. OPEN public hearing, TAKE public comments, and CLOSE the public hearing; and

— 2. WAIVE further reading and ADOPT Ordinance No. 26-2604U, "AN INTERIM URGENCY ORDINANCE OF THE CITY OF CARSON, CALIFORNIA, EXTENDING URGENCY ORDINANCE NO. 26- 2604U, WHICH INSTITUTED A 45-DAY TEMPORARY MORATORIUM ON THE ESTABLISHMENT OR EXPANSION OF DRIVE-THROUGH RESTAURANTS WITHIN CITY LIMITS DURING THE PENDENCY OF THE CITY'S REVIEW AND ADOPTION OF PERMANENT ZONING REGULATIONS FOR SUCH USES FOR AN ADDITIONAL TEN MONTHS AND FIFTEEN DAYS, AND DECLARING THE URGENCY THEREOF

City Clerk/Agency Secretary/Authority Secretary, Dr. Bradshaw gave the Public Hearing Report.

Mayor/Agency Chairman/Authority Chairman Davis-Holmes declared the Public Hearing open.

Public Comment

Brandi Lewin

Spoke in support of the moratorium and possible drive-through restaurants that should be considered

Council Member/Agency Member/Authority Board Member, Dr. Hilton agreed with Brandi Lewin's comments and asked City Council to consider options on a case-by-case basis.

During discussion of the motion, Council Member/Agency Member/Authority Board Member Dear asked the City Attorney how will it work if the City Council considers a drive-through restaurant during the moratorium and what is staff's plan. City Attorney Soltani and City Manager Roberts, Jr. responded to his questions.

Motion To Approve submitted by Dr. Jawane Hilton seconded by Cedric L. Hicks Sr. resulting in 5-0-0-0-0

DISCUSSION (Items 18-19)

18. CONSIDER AN UPDATE ON CITY PROJECTS (CITY COUNCIL)

RECOMMENDED ACTION

— 1. RECEIVE and FILE this report.

Director Freeman announced and shared copies of the City of Carson Opportunity Sites pamphlet.

Council Member/Agency Member/Authority Board Member Rojas requested a map of the Opportunity Sites. City Manager Roberts, Jr. responded in the affirmative. Director Freeman noted a QR Code on the pamphlet which will direct one to the map of the Opportunity Sites.

Council Member/Agency Member/Authority Board Member, Dr. Hilton asked if there were any updates for funding of the Avalon Boulevard/University Drive area. Director Freeman mentioned possible use of Facade Program Funds and Grant Funds for a shopping center.

Mayor Pro Tempore/Agency Vice Chairman/Authority Vice Chairman Hicks, Sr. requested a status report of having a market back and facade improvement of the Presidents Tract area in District 3. He asked if the area was listed as one of the Opportunity Sites on the pamphlet. Director Freeman responded he would confirm.

The Mayor and City Council thanked Director Freeman for his work.

ACTION: Mayor/Agency Chairman/Authority Chairman Davis-Holmes ordered this item Received and Filed with no objection heard.

19. CONSIDERATION OF ONLY LOCAL UNCONTESTED APPOINTMENTS TO THE CITY'S COMMISSIONS, COMMITTEES, AND BOARDS, AND CITY AFFILIATED ORGANIZATIONS BY MAYOR AND CITY COUNCIL AND CONSIDER ALL (CONTESTED AND UNCONTESTED) APPOINTMENTS TO ALL COMMISSIONS (CITY COUNCIL)- 8:21 PM

RECOMMENDED ACTION

— 1. CONSIDER and only APPOINT uncontested members to the City Commissions, Committees, and Boards;

— 2. CONSIDER and APPOINT all (contested and uncontested) members to all commissions;

— 3. CONSIDER and APPOINT members to City Affiliated Organizations;

— 4. DIRECT the City Clerk to notify all affected appointments of this action in writing;

— 5. IF APPLICABLE, DIRECT the City Clerk to post and publish in accordance with the Maddy Act

ACTION: The Mayor and City Council took the following action:

Public Relations Commission

Mayor Davis-Holmes appointed Shirley Smith as Alternate 2 to the Public Relations Commission.

Motion to ratify the Mayor's appointment of Shirley Smith as Alternate 2 to the Public Relations Commission submitted by Council Member Dear seconded by Mayor Pro Tempore

Hicks, Sr. resulting in 5-0-0-0-0

City Clerk, Dr. Bradshaw requested that commission applications be submitted to her office before any appointments are made by the Mayor and City Council to facilitate the appointment process and will work on updating the commission application.

Motion To Approve submitted by Jim Dear seconded by Cedric L. Hicks Sr. resulting in 5-0-0-0-0

ORDINANCE SECOND READING

None.

ORAL COMMUNICATIONS FOR MATTERS NOT LISTED ON THE AGENDA (MEMBERS OF THE PUBLIC)

This item was heard after Item No. 11.

BJ Douglas

Stated he is an actor, comedian, philanthropist, one of the original Power Rangers, and President of United Rangers of America; spoke about the Carson High School Reading Program

COUNCIL MEMBER REQUESTS TO ADD ITEMS TO FUTURE AGENDAS

None.

ORAL COMMUNICATIONS (COUNCIL MEMBERS)

Council Member/Agency Member/Authority Board Member, Dr. Hilton offered the following comments:

- Reminded everyone of the Town Hall Meeting for District 1, Thursday, March 12, 2026, at 6:30 P.M., Stevenson Park
- Attended a Town Hall Meeting the other night about the "wall" on Avalon Boulevard and requested better advertisement

Mayor/Agency Chairman/Authority Chairman Davis-Holmes offered the following comments:

- Noted the next Town Hall Meeting, Thursday, March 5, 2026, will be held at Anderson Park. She reminded everyone there is only 50 homes in the University area, therefore, would not have the same impact as other Town Hall Meetings. She asked how many homes are near the wall. Deputy City Manager Toman responded there are 24 homes that are close to the central wall in question and gave an update of the survey.

Mayor Pro Tempore/Agency Vice Chairman/Authority Vice Chairman Hicks, Sr. offered the following comments:

- Congratulated everyone who participated in the Black History Month program which was an outstanding event and was pleased to see Halls A, B, and C were full
- Noted a meeting will be held regarding the central wall, Thursday, March 5, 2026, at 6:00 P.M., Anderson Park. He encouraged everyone who live near the area to attend the meeting.

Council Member/Agency Member/Authority Board Member, Dr. Hilton and Mayor Pro Tempore/Agency Vice Chairman/Authority Vice Chairman Hicks, Sr. both addressed the "wall" issue for the residents along Avalon Boulevard who are impacted by the wall.

Council Member/Agency Member/Authority Board Member Rojas offered the following comments:

- Thanked Council Member Ray Jackson from Hermosa Beach, President of Independent Cities Association (ICA), for allowing her to be the Keynote Speaker at the ICA Conference on the Power of Social Media for elected officials
- Thanked Multimedia Manager Myeshia Horton and Multimedia Producer Ravynne Staine for preparing her curriculum and for the work they have done in the new Multimedia Department
- Thanked Council Aide Keichun Graves for her support

Mayor/Agency Chairman/Authority Chairman Davis-Holmes offered the following additional comments:

- Shared that the Black History Month program was outstanding
- Commended Council Member Rojas for her attendance at the ICA Conference
- Thanked the City Manager, staff, and the Multimedia Division for their work
- Stated that she and Council Member Rojas held a Town Hall Meeting at Foisia Park that was well attended
- Thanked her colleagues for hosting Town Hall Meetings

Council Member/Agency Member/Authority Board Member Dear offered the following comments:

- Pleased with the Multimedia Division's work
- Attended the African American History Month Celebration and complimented everyone who participated.

This item was heard again after the Memorial Adjournments portion of the meeting.

Mayor/Agency Chairman/Authority Chairman Davis-Holmes announced the State of the City Address will be held on March 19, 2026. She thanked everyone for their support.

ANNOUNCEMENT OF UNFINISHED OR CONTINUED CLOSED SESSION ITEMS (AS NECESSARY)

None.

RECESS TO CLOSED SESSION

None.

RECONVENE TO OPEN SESSION

None.

REPORT OF ACTIONS ON UNFINISHED OR CONTINUED CLOSED SESSION ITEMS

None.

MEMORIAL ADJOURNMENTS

City Clerk/Agency Secretary/Authority Secretary, Dr. Bradshaw presented the following Memorial Adjournment Requests:

Deputy Brian Sneed

Tyrone Dowdell

Isaiah Lorenzo Atuatasi

Lanora Wells-Castellano

Carstella Marks Miller

Serlo Alleyne

Loymon Batiste

Willie Clyde Bursey

Rodrigo "Rudy" Orca Pundamiera

DeWayne Singleton

Council Member/Agency Member/Authority Board Member, Dr. Hilton requested to add Vincent Miles to the Memorial Adjournment Requests.

Mayor/Agency Chairman/Authority Chairman Davis-Holmes requested to add Dean Hart to the Memorial Adjournment Requests.

Council Member/Agency Member/Authority Board Member, Dr. Hilton gave a prayer.

ADJOURNMENT

The meeting was adjourned at 8:40 P.M. by Mayor/Agency Chairman/Authority Chairman Davis-Holmes.

_____

Lula Davis-Holmes

Mayor/Agency Chairman/Authority Chairman

ATTEST:

_____

Dr. Khaleah K. Bradshaw

City Clerk/Agency Secretary/Authority Secretary

_____

Signature

Report to Honorable Mayor and City Council

Tuesday, March 17, 2026, 5:00 PM

CONSENT 10.

To: Honorable Mayor and City Council

From: William Jefferson, Director of Finance FIN Purchasing

Subject: CONSIDER A REPORT OF ALL CITY CONTRACTS APPROVED UNDER THE AUTHORITY OF DEPARTMENT DIRECTORS FOR THE PERIOD FEBRUARY 1, 2026 THROUGH FEBRUARY 28, 2026 PURSUANT TO CMC SECTION 2604 (CITY COUNCIL)

I. SUMMARY

The City Manager is presenting to the City Council a list of all new contracts and amendments procured under City Manager Designee authority as required by Section 2604 of the Carson Municipal Code for the period February 1, 2026 through February 28, 2026.

II. RECOMMENDATION

RECEIVE and FILE this report.

III. ALTERNATIVES

TAKE another action as deemed appropriate by the City Council, consistent with the requirements of the law.

IV. BACKGROUND

On January 9, 2024 (Item No. 27), Council approved Ordinance No. 23-2309 amending various sections of Chapter 6 (Purchasing System) of Article II (Administration) of the Carson Municipal Code. Ordinance No. 23-2309 increased the City Manager's authority to procure materials, supplies, equipment, services and professional services from $25,000 to $75,000. Section 2604 now requires the City Manager to, once per month, present to the City Council a list of all new contracts and amendments procured under City Manager or designee's authority. The City Manager has appointed Directors the authority to approve purchases and sign City contracts of up to $25,000.

Attached as Exhibit 1 is the City Manager's Contract Report for contracts executed by approved designees within the period February 1, 2026 through February 28, 2026.

V. FISCAL IMPACT

None.

VI. EXHIBITS

1. Contract Report Directors - February 2026

Attachments

Contract Report DIR - Feb.pdf

Signatory Holder	Original/ Amendment	Contract Number	Vendor Name	Vendor Number	Category	Description of Service	Sum	Department	Effective Date (Attestation Date - pg 1)	Expiration Date	Notes
M WHITTIKER	Original	26-007	PUSHIN FORWARD	8749	EVENT SERVICE PROVIDE AGREEMENT	2026 SKATEBOARD WORKSHOP	$1,070.00	COMMUNITY SERVICES	2/22/2026		
M WHITTIKER	Original	26-008	STEPHEN MCDADE	8572	EVENT SERVICE PROVIDE AGREEMENT	2026 BLACK HISTORY MONTH	$1,225.00	COMMUNITY SERVICES	2/27/2026		
M WHITTIKER	Original	26-009	NEICE KNIGHT	7453	EVENT SERVICE PROVIDE AGREEMENT	2026 BLACK HISTORY MONTH	$1,250.00	COMMUNITY SERVICES	2/27/2026		
M WHITTIKER	Original	26-010	REQUEST LINE MUSIC	3304	EVENT SERVICE PROVIDE AGREEMENT	2026 AUTISM ACCEPTANCE	$700.00	COMMUNITY SERVICES	4/4/2026		
M WHITTIKER	Original	26-011	REVIVE THE LIVE LLC	8801	EVENT SERVICE PROVIDE AGREEMENT	2026 SAMOAN HERITAGE FESTIVAL	$20,000.00	COMMUNITY SERVICES	6/27/2026		50% EFT deposit
M WHITTIKER	Original	26-013	ALOFAIGA ALOFIPO KEY	8802	EVENT SERVICE PROVIDE AGREEMENT	2026 SAMOAN HERITAGE FESTIVAL	$4,000.00	COMMUNITY SERVICES	6/27/2026		50% EFT deposit
M WHITTIKER	Original	26-014	CALIFORNIA YOUTH AT RISK INTERVENTION PROGRAM	8776	EVENT SERVICE PROVIDE AGREEMENT	2026 BLACK HISTORY MONTH	$225.00	COMMUNITY SERVICES	2/27/2026		
G CARTER	Original	26-016	CLOUD DRIVEN SOLUTIONS, INC.	8584	CONSULTANT	SOFTWARE DATA MIGRATION	$10,000.00	IT	2/5/2026	2/4/2027	6 moths NTP
M WHITTIKER	Original	26-017	MARK A. PASKELL	8206	EVENT SERVICE PROVIDE AGREEMENT	2026 VOLUNTEER BANQUET	$3,000.00	COMMUNITY SERVICES	3/20/206		

Report to Honorable Mayor and City Council

Tuesday, March 17, 2026, 5:00 PM

CONSENT 11.

To: Honorable Mayor and City Council

From: William Jefferson, Director of Finance FIN Purchasing

Subject: CONSIDER A REPORT OF ALL CITY CONTRACTS APPROVED UNDER CITY MANAGER AUTHORITY FOR THE PERIOD FEBRUARY 1, 2026 THROUGH FEBRUARY 28, 2026 PURSUANT TO CMC SECTION 2604 (CITY COUNCIL)

I. SUMMARY

The City Manager is presenting to the City Council a list of all new contracts and amendments procured under City Manager authority as required by Section 2604 of the Carson Municipal Code for the period February 1, 2026 through February 28, 2026.

II. RECOMMENDATION

RECEIVE and FILE this report.

III. ALTERNATIVES

TAKE another action as deemed appropriate by the City Council, consistent with the requirements of the law.

IV. BACKGROUND

On January 9, 2024 (Item No. 27), Council approved Ordinance No. 23-2309 amending various sections of Chapter 6 (Purchasing System) of Article II (Administration) of the Carson Municipal Code. Ordinance No. 23-2309 increased the City Manager's authority to procure materials, supplies, equipment, services and professional services from $25,000 to $75,000. Section 2604 now requires the City Manager to, once per month, present to the City Council a list of all new contracts and amendments procured under City Manager or designee's authority.

Attached as Exhibit 1 is the City Manager's Contract Report for contracts executed within the period February 1, 2026 through February 28, 2026.

V. FISCAL IMPACT

None.

VI. EXHIBITS

1. Contract Report - February 2026 CM

Attachments

Contract Report CM - Feb.pdf

Signatory Holder	Original/ Amendment	Contract Number	Vendor Name	Vendor Number	Category	Description of Service	Sum	Department	Effective Date (Attestation Date - pg 1)	Expiration Date	Notes
D ROBERTS	Original	26-004	MILAGRO MEDIA STRATEGIES	8434	CONSULTANT	MEDIA SERVICES	$50,000.00	PIO	11/1/2025	6/30/2026	Rec'd 2/2/2026
D ROBERTS	Original	26-005	RENT FOR EVENT LA, LLC	8198	CONSULTANT	AV SERVICES	$54,001.69	PIO	3/19/2026	4/18/2026	
D ROBERTS	Original	26-006	STEARNS, CONRAD & SCHMIDT CONSULTING EN	121	CONSULTANT	WASTE MANAGEMENT REVIEW,	$23,500.00	PUBLIC WORKS	2/5/2026	2/4/2027	
D ROBERTS	Amendment No. 3	22-208	VERDANTAS INC.	2294	CONSULTANT	ENVIRONMENTAL SITE ASSESSMENT	$57,880.00	PUBLIC WORKS	2/5/2026	6/30/2026	
D ROBERTS	Original	26-012	THUNDER STUDIOS, INC.	8519	CONSULTANT	2026 STATE OF THE CITY	$52,690.50	PIO	2/9/2026	2/8/2027	

CITY OF CARSON

701 East Carson Street

Report to Honorable Mayor and City Council

Tuesday, March 17, 2026, 5:00 PM

CONSENT 12.

To: Honorable Mayor and City Council

From: William Jefferson, Director of Finance FIN Administration

Subject: CONSIDER A REPORT ON ALL INTRADEPARTMENTAL BUDGET TRANSFERS APPROVED UNDER THE CITY MANAGER OR DESIGNEE AUTHORITY FOR THE MONTH OF FEBRUARY 2026 PER ORDINANCE 24-2401 (CITY COUNCIL)

I. SUMMARY

On February 20, 2024 (Item No. 27), Council adopted Ordinance 24 -2401 amending Section 2955.1 (Budget Transfers) of Chapter 9.5 (Fiscal Administration) of Article II (Administration) of the Carson Municipal Code (CMC). CMC Section 2955.1 now requires that once per month during a regular City Council meeting, a list of all interdepartmental budget transfers approved under City Manager authority, including any Departmental Director-approved transfers, shall be presented to the City Council. Per CMC Section 2955.1, staff are presenting to Council a report of interdepartmental budget transfers authorized by the City Manager or designee for the period of February 2026 (Exhibit No. 1).

II. RECOMMENDATION

RECEIVE and FILE the report (Exhibit No. 1).

III. ALTERNATIVES

TAKE another action the City Council deems appropriate and consistent with the requirements of the law.

IV. BACKGROUND

The City's budget is a critical tool for allocating resources to various departments and initiatives, ensuring the efficient delivery of services to residents. Throughout the fiscal year, departments may encounter unforeseen circumstances or evolving priorities that necessitate adjustments to their budgets. These adjustments often involve transferring funds between line items to address emerging needs or to capitalize on new opportunities.

In compliance with CMC 2955.1, the City Manager may approve any budget transfer within the same City department, except for transfers involving personnel-related funds or expenditures, such as salaries or benefits. Department Directors may also approve interdepartmental budget transfers within their respective Departments on terms prescribed by the City Manager (subject to compliance with CMC 2955.1 and applicable law), except that: (i) Department Directors shall not be permitted to approve any interdepartmental budget transfers involving personnel-related funds or expenditures, such as salaries or benefits; and (ii) the City Manager shall have authority to restrict (including by removing) the interdepartmental budget transfer authority of one or more Department Directors as deemed necessary in the City Manager’s sole discretion.

These requests undergo careful review to assess the justification, necessity, and potential impact of the proposed transfers. The City Manager's office then presents these monthly reports to the City Council.

Attached as Exhibit 1 is the Interdepartmental Budget Transfers Report for City Manager or designee authority executed in February 2026.

V. FISCAL IMPACT

No fiscal impact, monthly report is submitted for informational purposes. No policy change or budget action is requested.

VI. EXHIBITS

1. Interdepartmental Budget Transfers -February 2026

Attachments

Interdepartmental Budget Transfers -February 2026

JOURNAL INQUIRY

YEAR	PER	JOURNAL	SRC	EFF DATE	ENT DATE	JNL DESC	CLERK	ENTITY	AUTO-REV	STATUS	BUD YEAR	JNL TYPE
2026	08	25	BUA	02/03/2026	02/04/2026	BUDGET	TXFawatts	1	N	Hist	2026	

LN	ORG	OBJECT	PROJ	REF1	REF2	REF3	LINE DESCRIPTION	DEBIT	CREDIT	OB
	ACCOUNT						ACCOUNT DESCRIPTION			
1	10555170	5004		AW		T	Resolution 26-006		53,000.00	
	101-55-552-133-5004-						Temporary/Part-Time			
2	10555170	6004		AW		T	Resolution 26-006	53,000.00		
	101-55-552-133-6004-						Professional Services			
							** JOURNAL TOTAL	0.00	0.00	

YEAR	PER	JOURNAL	SRC	EFF DATE	ENT DATE	JNL DESC	CLERK	ENTITY	AUTO-REV	STATUS	BUD YEAR	JNL TYPE
2026	08	124	BUA	02/11/2026	02/11/2026	BUDGET	TXFawatts	1	N	Hist	2026	

LN	ORG	OBJECT	PROJ	REF1	REF2	REF3	LINE DESCRIPTION	DEBIT	CREDIT	OB
	ACCOUNT						ACCOUNT DESCRIPTION			
1	10555100	6020		AW		T	Funds for Crossing Guard S		20,591.00	
	101-55-552-101-6020-						CPU Hardware and Software			
2	10555170	6004		AW		T	Funds for Crossing Guard S	20,591.00		
	101-55-552-133-6004-						Professional Services			
							** JOURNAL TOTAL	0.00	0.00	

YEAR	PER	JOURNAL	SRC	EFF DATE	ENT DATE	JNL DESC	CLERK	ENTITY	AUTO-REV	STATUS	BUD YEAR	JNL TYPE
2026	08	125	BUA	02/11/2026	02/11/2026	BUDGET	TXFawatts	1	N	Hist	2026	

LN	ORG	OBJECT	PROJ	REF1	REF2	REF3	LINE DESCRIPTION	DEBIT	CREDIT	OB
	ACCOUNT						ACCOUNT DESCRIPTION			
1	77707020	8009		AW		T	Funding for Audit Services		18,000.00	
	775-70-720-904-8009-						Infrastructure Roadways			
2	77707020	6004		AW		T	Funding for Audit Services	18,000.00		
	775-70-720-904-6004-						Professional Services			
							** JOURNAL TOTAL	0.00	0.00	

YEAR	PER	JOURNAL	SRC	EFF DATE	ENT DATE	JNL DESC	CLERK	ENTITY	AUTO-REV	STATUS	BUD YEAR	JNL TYPE
2026	08	126	BUA	02/11/2026	02/11/2026	BUDGET	TXFawatts	1	N	Hist	2026	

LN	ORG	OBJECT	PROJ	REF1	REF2	REF3	LINE DESCRIPTION	DEBIT	CREDIT	OB
	ACCOUNT						ACCOUNT DESCRIPTION			

JOURNAL INQUIRY

YEAR	PER	JOURNAL	SRC	EFF DATE	ENT DATE	JNL DESC	CLERK	ENTITY	AUTO-REV	STATUS	BUD YEAR	JNL TYPE
2026	08	126	BUA	02/11/2026	02/11/2026	BUDGET	TXFawatts	1	N	Hist	2026	

LN	ORG	OBJECT	PROJ	REF1	REF2	REF3	LINE DESCRIPTION	DEBIT	CREDIT	OB
	ACCOUNT						ACCOUNT DESCRIPTION			
1	10707030	6009		AW			Funds for Daily Breeze/Jou		10,000.00	
	101-70-701-101-6009-						Materials & Supplies			
2	10707030	6003		AW			Funds for Daily Breeze/Jou	10,000.00		
	101-70-701-101-6003-						Printing/Binding/Duplication			
							** JOURNAL TOTAL	0.00	0.00	

YEAR	PER	JOURNAL	SRC	EFF DATE	ENT DATE	JNL DESC	CLERK	ENTITY	AUTO-REV	STATUS	BUD YEAR	JNL TYPE
2026	08	154	BUA	02/12/2026	02/12/2026	BUDGET	TXFawatts	1	N	Hist	2026	

LN	ORG	OBJECT	PROJ	REF1	REF2	REF3	LINE DESCRIPTION	DEBIT	CREDIT	OB
	ACCOUNT						ACCOUNT DESCRIPTION			
1	10100680	6004		AW		T	funds need for WRT audit		25,000.00	
	101-80-840-108-6004-						PW Median Mnt Pro Svcs			
2	10100720	6500		AW		T	funds need for WRT audit	25,000.00		
	101-80-840-276-6500-						Waste Resources Technology			
							** JOURNAL TOTAL	0.00	0.00	

YEAR	PER	JOURNAL	SRC	EFF DATE	ENT DATE	JNL DESC	CLERK	ENTITY	AUTO-REV	STATUS	BUD YEAR	JNL TYPE
2026	08	200	BUA	02/19/2026	02/19/2026	BUDGET	TXFawatts	1	N	Hist	2026	

LN	ORG	OBJECT	PROJ	REF1	REF2	REF3	LINE DESCRIPTION	DEBIT	CREDIT	OB
	ACCOUNT						ACCOUNT DESCRIPTION			
1	10100670	6004		AW		T	Enterprise Lease Agreement		90,000.00	
	101-80-840-106-6004-						PW Tree Mnt Pro Svcs			
2	10808110	8003		AW		T	Enterprise Lease Agreement	90,000.00		
	101-80-850-275-8003-						PW Vehicles/Rolling Inventory			
							** JOURNAL TOTAL	0.00	0.00	

YEAR	PER	JOURNAL	SRC	EFF DATE	ENT DATE	JNL DESC	CLERK	ENTITY	AUTO-REV	STATUS	BUD YEAR	JNL TYPE
2026	08	201	BUA	02/19/2026	02/19/2026	BUDGET	TXFawatts	1	N	Hist	2026	

LN	ORG	OBJECT	PROJ	REF1	REF2	REF3	LINE DESCRIPTION	DEBIT	CREDIT	OB
	ACCOUNT						ACCOUNT DESCRIPTION			

JOURNAL INQUIRY

YEAR	PER	JOURNAL	SRC	EFF DATE	ENT DATE	JNL DESC	CLERK	ENTITY	AUTO-REV	STATUS	BUD YEAR	JNL TYPE
2026	08	201	BUA	02/19/2026	02/19/2026	BUDGET	TXFawatts	1	N	Hist	2026	

LN	ORG	OBJECT	PROJ	REF1	REF2	REF3	LINE DESCRIPTION	DEBIT	CREDIT	OB
	ACCOUNT						ACCOUNT DESCRIPTION			
1	10808070	6004		AW		T	funds needed for HVAC supp		50,000.00	
	101-80-850-102-6004-						Professional Services			
2	10808070	6009		AW		T	funds needed for HVAC supp	50,000.00		
	101-80-850-102-6009-						Materials & Supplies			
							** JOURNAL TOTAL	0.00	0.00	

YEAR	PER	JOURNAL	SRC	EFF DATE	ENT DATE	JNL DESC	CLERK	ENTITY	AUTO-REV	STATUS	BUD YEAR	JNL TYPE
2026	08	203	BUA	02/19/2026	02/19/2026	BUDGET	TXFawatts	1	N	Hist	2026	

LN	ORG	OBJECT	PROJ	REF1	REF2	REF3	LINE DESCRIPTION	DEBIT	CREDIT	OB
	ACCOUNT						ACCOUNT DESCRIPTION			
1	10505050	6014		AW		T	Funds for City Memberships		300.00	
	101-50-505-101-6014-						Conference and Travel			
2	10505050	6053		AW		T	Funds for City Memberships		1,500.00	
	101-50-505-101-6053-						Postage			
3	10505050	6006		AW		T	Funds for City Memberships	1,800.00		
	101-50-505-101-6006-						City Memberships			
							** JOURNAL TOTAL	0.00	0.00	

YEAR	PER	JOURNAL	SRC	EFF DATE	ENT DATE	JNL DESC	CLERK	ENTITY	AUTO-REV	STATUS	BUD YEAR	JNL TYPE
2026	08	205	BUA	02/19/2026	02/19/2026	BUDGET	TXFawatts	1	N	Hist	2026	

LN	ORG	OBJECT	PROJ	REF1	REF2	REF3	LINE DESCRIPTION	DEBIT	CREDIT	OB
	ACCOUNT						ACCOUNT DESCRIPTION			
1	10100070	6157		AW		T	To capture comm. exp. prop		9,000.00	
	101-50-501-144-6157-						Human Relations Comm Stipend			
2	10100070	6004		AW		T	To capture comm. exp. prop	5,500.00		
	101-50-501-144-6004-						Professional Services			
3	10100070	6009		AW		T	To capture comm. exp. prop	3,500.00		
	101-50-501-144-6009-						CM HR Comm Supplies			
							** JOURNAL TOTAL	0.00	0.00	

JOURNAL INQUIRY

YEAR	PER	JOURNAL	SRC	EFF DATE	ENT DATE	JNL DESC	CLERK	ENTITY	AUTO-REV	STATUS	BUD YEAR	JNL TYPE
2026	08	225	BUA	02/17/2026	02/19/2026	BUDGET	TXFawatts	1	N	Hist	2026	

LN	ORG	OBJECT	PROJ	REF1	REF2	REF3	LINE DESCRIPTION	DEBIT	CREDIT	OB
	ACCOUNT						ACCOUNT DESCRIPTION			
1	10505010	6004		AW		T	Reso 26-019	268,925.00		
	101-50-501-101-6004-						Professional Services			
2	10505010	6014		AW		T	Reso 26-019	10,000.00		
	101-50-501-101-6014-						Conference and Travel			
3	10505010	6056		AW		T	Reso 26-019	33,000.00		
	101-50-501-101-6056-						Training			
4	10505100	6004		AW		T	Reso 26-019	25,000.00		
	101-50-501-928-6004-						LA28 Professional Services			
5	10505060	6004		AW		T	Reso 26-019	80,000.00		
	101-50-504-101-6004-						Professional Services			
6	10505050	6009		AW		T	Reso 26-019	75,000.00		
	101-50-505-101-6009-						Materials & Supplies			
7	10505030	6004		AW		T	Reso 26-019	110,000.00		
	101-50-502-101-6004-						Professional Services			
8	10100040	6018		AW		T	Reso 26-019	200,000.00		
	101-30-100-176-6018-						Elections Election			
9	10101370	6014		AW		T	Reso 26-019	30,000.00		
	101-10-100-101-6014-						Conference and Travel			
10	10100320	6004		AW		T	Reso 26-019	77,300.00		
	101-60-640-101-6004-						Operations Pro Svcs			
11	10909100	6004		AW		T	Reso 26-019	50,000.00		
	101-90-950-709-6004-						Professional Services			
12	10555100	6004		AW		T	Reso 26-019	200,000.00		
	101-55-552-101-6004-						Professional Services			
13	24400000	6004		AW		T	Reso 26-019	100,000.00		
	244-90-950-709-6004-						CS Specl Evnt Pro Svcs			
14	22000000	8019		AW		T	Reso 26-019		897,000.00	
	220-80-820-904-8019-						Bus/Bike Lane & Related CIP			
15	28808170	8019		AW		T	Reso 26-019	897,000.00		
	285-80-820-904-8019-						Bus/Bike Lane & Related CIP			
16	21200000	6004		AW		T	Reso 26-019	200,000.00		
	212-80-840-281-6004-						PW Rdway Mnt Pro Svcs			
17	22808060	7001		AW		T	Reso 26-019	56,900.00		
	222-80-840-102-7001-						Maintenance & Repairs			
18	10101360	3910		AW					1,159,225.00	1
	101-99-999-999-3910-						Appropriation Control			
19	21200010	3910		AW					200,000.00	1
	212-99-999-999-3910-						Appropriation Control			
20	22000020	3910		AW				897,000.00		1
	220-99-999-999-3910-						Appropriation Control			
21	22200010	3910		AW					56,900.00	1
	222-99-999-999-3910-						Appropriation Control			

JOURNAL INQUIRY

YEAR	PER	JOURNAL	SRC	EFF DATE	ENT DATE	JNL DESC	CLERK	ENTITY	AUTO-REV	STATUS	BUD YEAR	JNL TYPE
2026	08	225	BUA	02/17/2026	02/19/2026	BUDGET TX	Fawatts	1	N	Hist	2026	

LN	ORG / ACCOUNT	OBJECT	PROJ	REF1	REF2	REF3	LINE DESCRIPTION / ACCOUNT DESCRIPTION	DEBIT	CREDIT	OB
22	24400010 244-99-999-999-3910-	3910		AW			 Appropriation Control		100,000.00	1
23	28999100 285-99-999-999-3910-	3910		AW			 Appropriation Control		897,000.00	1
24	10101360 101-99-999-999-3930-	3930		AW			 Budget FB Unrestricted Control	1,159,225.00		1
25	21200010 212-99-999-999-3930-	3930		AW			 Budget FB Unrestricted Control	200,000.00		1
26	22000020 220-99-999-999-3930-	3930		AW			 Budget FB Unrestricted Control		897,000.00	1
27	22200010 222-99-999-999-3930-	3930		AW			 Budget FB Unrestricted Control	56,900.00		1
28	24400010 244-99-999-999-3930-	3930		AW			 Budget FB Unrestricted Control	100,000.00		1
29	28999100 285-99-999-999-3930-	3930		AW			 Budget FB Unrestricted Control	897,000.00		1
							** JOURNAL TOTAL	3,310,125.00	3,310,125.00	
							** GRAND TOTAL	3,310,125.00	3,310,125.00	

10 Journals printed

** END OF REPORT - Generated by Ashton Watts **

Report to Honorable Mayor and City Council

CONSENT 8.

To: Honorable Mayor and City Council

From: William Jefferson, Director of Finance FIN Accounting

Subject: CONSIDER ADOPTING RESOLUTION NO. 26-027, A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CARSON RATIFYING CLAIMS AND DEMANDS IN THE AMOUNT OF $1,300,360.93, DEMAND CHECK NUMBERS 183818 THROUGH 183922 FOR GENERAL DEMAND (CITY COUNCIL)

I. SUMMARY

RESOLUTION NO. 26-027, A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CARSON RATIFYING CLAIMS AND DEMANDS AS FOLLOWS:

- TOTAL OF $1,300,360.93 FOR GENERAL DEMANDS CHECK NUMBERS 183818 THROUGH 183922.

II. RECOMMENDATION

WAIVE further reading and ADOPT Resolution No. 26-027, "A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CARSON RATIFYING CLAIMS AND DEMANDS IN THE AMOUNT OF $1,300,360.93, DEMAND CHECK NUMBERS 183818 THROUGH 183922 FOR GENERAL DEMAND".

III. ALTERNATIVES

None.

IV. BACKGROUND

THE CITY COUNCIL OF THE CITY OF CARSON DOES HEREBY RESOLVE, DETERMINE AND ORDER AS FOLLOWS:

SECTION 1: The claims and demands have been reviewed and verified for accuracy and compliance with the budget and applicable agreements and are hereby ratified in the amount herein after set forth, a copy of which is attached hereto as Exhibit No. 1.

SECTION 2: On March 17, 2026, the City Council ratified the above demand numbers 183818 through 183922 for General Demand. The City Treasurer is hereby directed to pay out the funds named hereon, to each of the claimants listed above, the amount of warrant appearing opposite their respective names, for the purpose stated on the respective demands, making a total of $1,300,360.93.

SECTION 3: That the City Clerk shall certify to the passage and adoption of this Resolution and enter it into the book of original resolutions.

PASSED, APPROVED, and ADOPTED this 17TH DAY OF MARCH, 2026.

APPROVED AS TO FORM:

_____
Sunny K. Soltani, City Attorney

CITY OF CARSON:

_____
Lula Davis-Holmes, Mayor

ATTEST:

_____
Dr. Khaleah K. Bradshaw, City Clerk

V. FISCAL IMPACT

CERTIFICATION

In accordance with Section 37202 of the California Government Code, I hereby certify that the above demands are accurate and that funds are available for payment thereof. I certify under penalty of perjury that the foregoing is true and correct.

EXECUTED THE 17TH DAY OF MARCH, 2026 AT CARSON, CALIFORNIA:

_____
David C. Roberts, Jr., City Manager

STATE OF CALIFORNIA)
COUNTY OF LOS ANGELES) ss.
CITY OF CARSON)

I, Dr. Khaleah K. Bradshaw, City Clerk of the City of Carson, California, hereby attest to and certify that the foregoing resolution, being Resolution No. 26-027, adopted by the City of Carson City Council at its meeting held on March 17, 2026 by the following vote:

AYES: COUNCIL MEMBERS:

NOES: COUNCIL MEMBERS:

ABSTAIN: COUNCIL MEMBERS:

ABSENT: COUNCIL MEMBERS:

_____
Dr. Khaleah K. Bradshaw, City Clerk

VI. EXHIBITS

1. Exhibit 1 Demand Register Resolution#26-027 - Checks

Attachments

Exhibit 1 Demand Register Resolution#26-027 - Checks.pdf

City of Carson

AP CHECK RECONCILIATION REGISTER

FOR CASH ACCOUNT: 100-99-999-999-1010- FOR: All Except Stale

CHECK #	CHECK DATE	TYPE	VENDOR	NAME	UNCLEARED	CLEARED	BATCH	CLEAR DATE
183818	02/26/2026	PRINTED	009999	Boudreau Pipeline Corp.	2,350.00			
183819	02/26/2026	PRINTED	007777	Bess Test Lab	1,638.00			
183820	02/26/2026	PRINTED	004691	ADVANTAGE MAILING LLC	10,169.94			
183821	02/26/2026	PRINTED	000042	ALIN PARTY SUPPLY CO	207.17			
183822	02/26/2026	PRINTED	008763	ALLIANCE TURF PRODUCTS LL	54,589.75			
183823	02/26/2026	PRINTED	004388	AIS TRUST ACCOUNT NEWPORT	316.58			
183824	02/26/2026	PRINTED	005523	AMAZON CAPITAL SERVICES	3,141.74			
183825	02/26/2026	PRINTED	000543	AQUA FLO SUPPLY	1,206.05			
183826	02/26/2026	PRINTED	003927	ARAMSCO INC	3,551.48			
183827	02/26/2026	PRINTED	000974	AT & T ALARM CIRCUITS	96.53			
183828	02/26/2026	PRINTED	001248	BARR AND CLARK INC	2,985.00			
183829	02/26/2026	PRINTED	004641	BILLYE BATES	50.00			
183830	02/26/2026	PRINTED	000697	BIG ANDYS TROPHIES AND PL	995.05			
183831	02/26/2026	PRINTED	001438	BLUE DIAMOND MATERIALS	323.62			
183832	02/26/2026	PRINTED	001435	ROBERT BOYD	50.00			
183833	02/26/2026	PRINTED	001762	ROGER BRANCH JR	50.00			
183834	02/26/2026	PRINTED	001627	BSN SPORTS INC	342.77			
183835	02/26/2026	PRINTED	001627	BSN SPORTS LLC	602.89			
183836	02/26/2026	PRINTED	008776	CALIFORNIA YOUTH AT RISK	225.00			
183837	02/26/2026	PRINTED	008714	CASCADIA CONSULTING GROUP	4,196.25			
183838	02/26/2026	PRINTED	001489	CHOURA VENUE SERVICES	1,167.35			
183839	02/26/2026	PRINTED	008513	CINTAS CORPORATION NO. 2	2,038.22			
183840	02/26/2026	PRINTED	006955	CITY ELECTRIC SUPPLY	535.51			
183841	02/26/2026	PRINTED	007718	CLIVABETH PHOTOGRAPHY LLC	1,280.00			
183842	02/26/2026	PRINTED	001381	COMPLETE OFFICE	771.30			
183843	02/26/2026	PRINTED	007159	CORODATA RECORDS MANAGEME	1,345.20			
183844	02/26/2026	PRINTED	000127	DAILY BREEZE NEWSPAPER	695.54			
183845	02/26/2026	PRINTED	007176	DAVEY COACH SALES INC.	3,885.09			
183846	02/26/2026	PRINTED	007948	DAVID VOLZ DESIGN LANDSCA	4,602.80			
183847	02/26/2026	PRINTED	000534	DIRECTV	249.99			
183848	02/26/2026	PRINTED	006876	DONALD ALAN SPRAGUE	77.00			
183849	02/26/2026	PRINTED	008189	ED'S FENCING, INC	7,980.00			
183850	02/26/2026	PRINTED	003667	ERNESTINE LEVERETTE	50.00			
183851	02/26/2026	PRINTED	008322	EVODC LLC	2,768.46			
183852	02/26/2026	PRINTED	000355	FERGUSON ENTERPRISES LLC	801.15			
183853	02/26/2026	PRINTED	000105	FIREMASTER	1,406.75			
183854	02/26/2026	PRINTED	008052	GET TOOLS CORP	1,025.31			
183855	02/26/2026	PRINTED	000941	GOLDEN STATE WATER COMPAN	4,022.16			
183856	02/26/2026	PRINTED	000865	GOODWILL LONG BEACH AND S	17,953.53			
183857	02/26/2026	PRINTED	000793	GRAINGER	1,742.75			
183858	02/26/2026	PRINTED	001093	SHIRLEY GRAVES	50.00			
183859	02/26/2026	PRINTED	005525	GREENBERG TRAURIG LLP	76,807.50			
183860	02/26/2026	PRINTED	008800	HERITAGE POOL SUPPLY GROU	1,452.97			
183861	02/26/2026	PRINTED	001547	HOLIDAYGOO, INC	4,348.73			
183862	02/26/2026	PRINTED	000234	HOME DEPOT CREDIT SERVICE	2,030.48			
183863	02/26/2026	PRINTED	006783	IMPEX TECHNOLOGIES INC	2,500.08			
183864	02/26/2026	PRINTED	006497	INSIGHT PUBLIC SECTOR	131.75			
183865	02/26/2026	PRINTED	007103	JOE A. GONSALVES & SON	4,000.00			
183866	02/26/2026	PRINTED	007688	JOKER PARTY SUPPLY, INC.	969.44			
183867	02/26/2026	PRINTED	008701	JOVENVILLE, LLC	25,000.00			
183868	02/26/2026	PRINTED	008620	KOSMONT TRANSACTIONS SERV	478.40			
183869	02/26/2026	PRINTED	008272	LARHONDA BROWN	50.00			

AP CHECK RECONCILIATION REGISTER

FOR CASH ACCOUNT: 100-99-999-999-1010- FOR: All Except Stale

CHECK #	CHECK DATE	TYPE	VENDOR	NAME	UNCLEARED	CLEARED	BATCH	CLEAR DATE
183870	02/26/2026	PRINTED	004428	LAWSON PRODUCTS INC	538.80			
183871	02/26/2026	PRINTED	003629	LEES TOOLS	3,463.56			
183872	02/26/2026	PRINTED	007569	LINDA R. DUNN	50.00			
183873	02/26/2026	PRINTED	004767	DELIA LOPEZ	50.00			
183874	02/26/2026	PRINTED	000070	LOS ANGELES COUNTY DEPT O	263.00			
183875	02/26/2026	PRINTED	000070	LOS ANGELES COUNTY DEPT O	58,133.85			
183876	02/26/2026	PRINTED	000178	LOS ANGELES COUNTY	6.00			
183877	02/26/2026	PRINTED	006224	MCWIL SPORTS SURFACES, IN	8,596.00			
183878	02/26/2026	PRINTED	001854	METRO EXPRESSLANES	9.15			
183879	02/26/2026	PRINTED	008434	MILAGRO MEDIA STRATEGIES	1,900.00			
183880	02/26/2026	PRINTED	003576	MRS ENVIRONMENTAL INC	1,560.00			
183881	02/26/2026	PRINTED	007453	NEICE KNIGHT	1,250.00			
183882	02/26/2026	PRINTED	007779	NEMIE P. MOSEQUERA	50.00			
183883	02/26/2026	PRINTED	002445	PATRICIA PATTERSON	50.00			
183884	02/26/2026	PRINTED	000746	PITNEY BOWES RESERVE ACCO	10,000.00			
183885	02/26/2026	PRINTED	000145	POSTMASTER	24,000.00			
183886	02/26/2026	PRINTED	004862	PRINCIPAL LIFE INSURANCE	2,810.50			
183887	02/26/2026	PRINTED	001081	BRIAN RABER	50.00			
183888	02/26/2026	PRINTED	000118	JULIE RUIZ RABER	50.00			
183889	02/26/2026	PRINTED	008230	RAJO, A CALIF. CORP	160.00			
183890	02/26/2026	PRINTED	010000	BERNICE WHITE	250.00			
183891	02/26/2026	PRINTED	010000	Cargoprime LLC	109.00			
183892	02/26/2026	PRINTED	010000	MARTINE ROUZAN	500.00			
183893	02/26/2026	PRINTED	000402	ROADLINE PRODUCTS INC USA	4,293.20			
183894	02/26/2026	PRINTED	000057	ROBERT MCELROY LLC	15.99			
183895	02/26/2026	PRINTED	008414	ROD-WEST FLOOR COVERING L	6,485.95			
183896	02/26/2026	PRINTED	003585	RSG INC	5,999.72			
183897	02/26/2026	PRINTED	000791	EMMANUEL A SALOMON	50.00			
183898	02/26/2026	PRINTED	007851	SAMI'S REFEREES LLC	9,200.00			
183899	02/26/2026	PRINTED	007632	SEAY, AL CARNEL	50.00			
183900	02/26/2026	PRINTED	000124	SEPULVEDA BUILDING MATERI	541.08			
183901	02/26/2026	PRINTED	001803	VERGIE SEYMORE	50.00			
183902	02/26/2026	PRINTED	004226	DARLENE SIMPSON-LOTT	50.00			
183903	02/26/2026	PRINTED	000211	SMART AND FINAL IRIS	406.83			
183904	02/26/2026	PRINTED	000240	SOUTHERN CALIFORNIA EDISO	71,624.16			
183905	02/26/2026	PRINTED	007386	KAISER FOUNDATION HEALTH	1,035.00			
183906	02/26/2026	PRINTED	000289	STATE OF CA STATE CONTROL	75.00			
183907	02/26/2026	PRINTED	000461	STATE WATER RESOURCES CON	36,393.00			
183908	02/26/2026	PRINTED	008572	STEPHEN MCDADE	1,225.00			
183909	02/26/2026	PRINTED	007585	STEVEN D SHOEMAKER	1,500.00			
183910	02/26/2026	PRINTED	007654	TAIT & ASSOCIATES, INC	442.50			
183911	02/26/2026	PRINTED	008079	TERRACON CONSULTANTS, INC	18,846.25			
183912	02/26/2026	PRINTED	007931	TOMECKO JACKSON	1,500.00			
183913	02/26/2026	PRINTED	007705	TRANSTECH ENGINEERS, INC.	2,957.00			
183914	02/26/2026	PRINTED	006769	U S BANK CORPORATE PAYMEN	4,944.49			
183915	02/26/2026	PRINTED	006769	CITY MANAGER	148.17			
183916	02/26/2026	PRINTED	008430	URBAN HABITAT	723,479.68			
183917	02/26/2026	PRINTED	001407	VASQUEZ & COMPANY LLP	31,916.00			
183918	02/26/2026	PRINTED	005511	VULCAN MATERIALS CO.	2,680.18			
183919	02/26/2026	PRINTED	000437	ITELIA WALKER	50.00			
183920	02/26/2026	PRINTED	002925	KARL WILVERT	50.00			
183921	02/26/2026	PRINTED	004222	RICHARD WOODS JR	50.00			

AP CHECK RECONCILIATION REGISTER

FOR CASH ACCOUNT: 100-99-999-999-1010- FOR: All Except Stale

CHECK #	CHECK DATE	TYPE	VENDOR	NAME	UNCLEARED	CLEARED	BATCH	CLEAR DATE
183922	02/26/2026	PRINTED	006868	ZONES IT SOLUTIONS INC.	1,146.59			
		105 CHECKS		CASH ACCOUNT TOTAL	1,300,360.93	.00		

Report to Honorable Mayor and City Council

Tuesday, March 17, 2026, 5:00 PM

CONSENT 14.

To: Honorable Mayor and City Council

From: William Jefferson, Director of Finance FIN Accounting

Subject: CONSIDER ADOPTING RESOLUTION NO. 26-04-CHA, A RESOLUTION OF THE CARSON HOUSING AUTHORITY RATIFYING CLAIMS AND DEMANDS IN THE AMOUNT OF $22,990.58, DEMAND CHECK NUMBERS HA-002104 THROUGH HA-002109 (HOUSING AUTHORITY)

I. SUMMARY

RESOLUTION NO. 26-04-CHA, A RESOLUTION OF THE CARSON HOUSING AUTHORITY RATIFYING CLAIMS AND DEMANDS IN THE AMOUNT OF $22,990.58, DEMAND CHECK NUMBERS HA-002104 THROUGH HA-002109.

II. RECOMMENDATION

WAIVE further reading and ADOPT Resolution No. 26-04-CHA, "A RESOLUTION OF THE CARSON HOUSING AUTHORITY RATIFYING CLAIMS AND DEMANDS IN THE AMOUNT OF $22,990.58, DEMAND CHECK NUMBERS HA-002104 THROUGH HA-002109".

III. ALTERNATIVES

NONE.

IV. BACKGROUND

THE CARSON HOUSING AUTHORITY DOES HEREBY RESOLVE, DETERMINE AND ORDER AS FOLLOWS:

SECTION 1: The claims and demands have been reviewed and verified for accuracy and compliance with the budget and applicable agreements and are hereby ratified in the amount herein after set forth, a copy of which is attached hereto as Exhibit No. 1.

SECTION 2: On March 17, 2026, the Carson Housing Authority ratified the above demand numbers HA-002104 through HA-002109. The City Treasurer is hereby directed to pay out the funds named hereon, to each of the claimants listed above, the amount of warrant appearing opposite their respective names, for the purpose stated on the respective demands, making a total of $22,990.58.

SECTION 3: That the City Clerk shall certify to the passage and adoption of this Resolution and enter it into the book of original resolutions.

PASSED, APPROVED, and ADOPTED this 17TH DAY OF MARCH, 2026.

CARSON HOUSING AUTHORITY, acting as the successor housing agency of the CARSON REDEVELOPMENT AGENCY, a public body by:

APPROVED AS TO FORM:

_____
Sunny K. Soltani, Agency Counsel

CITY OF CARSON:

_____
Lula Davis-Holmes, Chairman

ATTEST:

_____
Dr. Khaleah K. Bradshaw, Secretary

V. FISCAL IMPACT

CERTIFICATION

In accordance with Section 37202 of the California Government Code, I hereby certify that the above demands are accurate and that funds are available for payment thereof. I certify under penalty of perjury that the foregoing is true and correct.

EXECUTED THE 17TH DAY OF MARCH, 2026 AT CARSON, CALIFORNIA:

_____
David C. Roberts, Jr., Executive Director

STATE OF CALIFORNIA)
COUNTY OF LOS ANGELES) ss.
CITY OF CARSON)

I, Dr. Khaleah K. Bradshaw, Secretary of the Carson Housing Authority, California, hereby attest to and certify that the foregoing resolution, being Resolution No. 26-04-CHA, adopted by the City of Carson City Council at its meeting held on March 17, 2026 by the following vote:

AYES: AUTHORITY BOARD MEMBERS:
NOES: AUTHORITY BOARD MEMBERS:
ABSTAIN: AUTHORITY BOARD MEMBERS:
ABSENT: AUTHORITY BOARD MEMBERS:

_____
Dr. Khaleah K. Bradshaw, Secretary

VI. EXHIBITS

1. CHA Demand Resolution #26-04-CHA

Attachments

Exhibit 1 CHA Demand Resolution #26-04-CHA.pdf

City of Carson

AP CHECK RECONCILIATION REGISTER

FOR CASH ACCOUNT: 255-99-999-999-1012- FOR: All Except Stale

CHECK #	CHECK DATE	TYPE	VENDOR	NAME	UNCLEARED	CLEARED	BATCH	CLEAR DATE
2104	02/05/2026	PRINTED	007257	FAMILY PROMISE OF LOS ANG	3,563.21			
2105	02/12/2026	PRINTED	006884	LYFT, INC.	145.82			
2106	02/19/2026	PRINTED	000685	AMERINATIONAL COMMUNITY S	666.67			
2107	02/19/2026	PRINTED	001001	AT&T PHONE	31.85			
2108	02/26/2026	PRINTED	000423	AVALON COURTYARD	12,473.03			
2109	02/26/2026	PRINTED	000547	CARSON TERRACE PARTNERS L	6,110.00			
		6 CHECKS		CASH ACCOUNT TOTAL	22,990.58	.00		

Report to Honorable Mayor and City Council

Tuesday, March 17, 2026, 5:00 PM

CONSENT 15.

To: Honorable Mayor and City Council

From: William Jefferson, Director of Finance FIN Accounting

Subject: CONSIDER ADOPTING RESOLUTION NO. 26-04-CSA, A RESOLUTION OF THE CARSON SUCCESSOR AGENCY CLAIMS AND DEMANDS IN THE AMOUNT OF $407.20, DEMAND CHECK NUMBERS SA-001986 THROUGH SA-001987 (SUCCESSOR AGENCY)

I. SUMMARY

RESOLUTION NO. 26-04-CSA, A RESOLUTION OF THE CARSON SUCCESSOR AUTHORITY RATIFYING CLAIMS AND DEMANDS IN THE AMOUNT OF $407.20, DEMAND CHECK NUMBERS SA-001986 THROUGH SA-001987.

II. RECOMMENDATION

WAIVE further reading and ADOPT Resolution No. 26-04-CSA, "A RESOLUTION OF THE CARSON SUCCESSOR AUTHORITY RATIFYING CLAIMS AND DEMANDS IN THE AMOUNT OF $407.20, DEMAND CHECK NUMBERS SA-001986 THROUGH SA-001987".

III. ALTERNATIVES

NONE.

IV. BACKGROUND

THE CARSON SUCCESSOR AUTHORITY DOES HEREBY RESOLVE, DETERMINE AND ORDER AS FOLLOWS:

SECTION 1: The claims and demands have been reviewed and verified for accuracy and compliance with the budget and applicable agreements and are hereby ratified in the amount herein after set forth, a copy of which is attached hereto as Exhibit No. 1.

SECTION 2: On March 17, 2026, the Carson Successor Authority ratified the above demand numbers SA-001986 through SA-001987. The City Treasurer is hereby directed to pay out the funds named hereon, to each of the claimants listed above, the amount of warrant appearing opposite their respective names, for the purpose stated on the respective demands, making a total of $407.20.

SECTION 3: That the City Clerk shall certify to the passage and adoption of this Resolution and enter it into the book of original resolutions.

PASSED, APPROVED, and ADOPTED this 17TH DAY OF MARCH, 2026.

CARSON SUCCESSOR AGENCY, to the dissolved CARSON REDEVELOPMENT AGENCY, a public body:

APPROVED AS TO FORM:

_____
Sunny K. Soltani, Agency Counsel

CITY OF CARSON:

_____
Lula Davis-Holmes, Chairman

ATTEST:

_____
Dr. Khaleah K. Bradshaw, Secretary

V. FISCAL IMPACT

CERTIFICATION

In accordance with Section 37202 of the California Government Code, I hereby certify that the above demands are accurate and that funds are available for payment thereof. I certify under penalty of perjury that the foregoing is true and correct.

EXECUTED THE 17TH DAY OF MARCH, 2026 AT CARSON, CALIFORNIA:

_____
David C. Roberts, Jr., Executive Director

STATE OF CALIFORNIA)
COUNTY OF LOS ANGELES) ss.
CITY OF CARSON)

I, Dr. Khaleah K. Bradshaw, Secretary of the Carson Successor Authority, California, hereby attest to and certify that the foregoing resolution, being Resolution No. 26-04-CSA, adopted by the City of Carson City Council at its meeting held on March 17, 2026 by the following vote:

AYES: AUTHORITY BOARD MEMBERS:
NOES: AUTHORITY BOARD MEMBERS:
ABSTAIN: AUTHORITY BOARD MEMBERS:
ABSENT: AUTHORITY BOARD MEMBERS:

_____
Dr. Khaleah K. Bradshaw, Secretary

VI. EXHIBITS

1. CSA Demand Resolution #26-04-CSA

Attachments

Exhibit 1 CSA Demand Resolution #26-04-CSA.pdf

City of Carson

AP CHECK RECONCILIATION REGISTER

FOR CASH ACCOUNT: 782-99-999-999-1030- FOR: All Except Stale

CHECK #	CHECK DATE	TYPE	VENDOR	NAME	UNCLEARED	CLEARED	BATCH	CLEAR DATE
1986	02/05/2026	PRINTED	000797	ALESHIRE AND WYNDER LLP	343.50			
1987	02/19/2026	PRINTED	001001	AT&T PHONE	63.70			
		2 CHECKS		CASH ACCOUNT TOTAL	407.20	.00		

Report to Honorable Mayor and City Council

Tuesday, March 17, 2026, 5:00 PM

CONSENT 16.

To: Honorable Mayor and City Council

From: Michael George, Government Affairs Officer CMO Administration

Subject: CONSIDER TAKING A POSITION OF OPPOSITION TO ASSEMBLY BILL 1768 (BRYAN) AND THE RELATED LOS ANGELES COUNTY SALES TAX MEASURE PROPOSED FOR THE JUNE 2026 BALLOT (CITY COUNCIL)

I. SUMMARY

The purpose of this report is to request City Council authorization to submit two letters expressing the City of Carson's opposition to legislation and related actions that would authorize a new countywide sales tax increase in Los Angeles County.

The Los Angeles County Board of Supervisors has voted to place a 0.5% sales tax measure on the June ballot intended to address anticipated reductions in federal health care funding associated with H.R. 1. However, state legislation (AB 1768) is required to exempt this measure from the statewide 2% local sales tax cap. Consequently, both County approval and state authorization are necessary before the tax could take effect if voters approve it.

Staff is requesting City Council direction to submit two letters on behalf of the City of Carson City Council:

1. A letter to the California State Assembly expressing opposition to AB 1768.
2. A letter to the Los Angeles County Board of Supervisors expressing opposition to the proposed sales tax authorization and related ballot measure.

II. RECOMMENDATION

TAKE a position of OPPOSITION and DIRECT staff to submit the two proposed letters.

III. ALTERNATIVES

TAKE another action the City Council deems appropriate and that is consistent with applicable laws.

IV. BACKGROUND

Assembly Bill 1768 has been introduced in the California State Legislature to authorize the County of Los Angeles to levy an additional 0.5 percent sales tax that would be exempt from the statewide 2 percent local sales tax cap.

The Los Angeles County Board of Supervisors has voted to place the proposed measure on the June ballot to address anticipated funding shortfalls for health care and other essential services following federal actions related to H.R. 1. However, the County cannot implement the tax without state authorization to exceed the local sales tax cap. This creates a two-step approval process: voter approval at the County level and statutory authorization at the State level.

Los Angeles County voters recently approved Measure A, which increased the countywide sales tax by 0.5 percent and was also exempted from the state cap. The City of Carson is concerned about the cumulative impact of multiple sales tax increases on residents and local businesses.

Sales tax rates within Los Angeles County are already among the highest in the region, exceeding 10% in some areas, while neighboring counties maintain lower rates. Additional sales tax increases may impact consumer spending, regional competitiveness, and the affordability of everyday goods for residents.

While the City recognizes the importance of maintaining access to essential health services, staff believes that authorizing additional local sales tax increases may place further financial pressure on residents who are already facing rising costs for housing, food, fuel, and other necessities.

The proposed letters would communicate the City Council's concerns regarding the regressive nature of sales taxes, the cumulative impact of multiple tax increases, and the absence of dedicated fiscal safeguards associated with the proposed tax authorization. Submitting letters to both the bill author and the Los Angeles County Board of Supervisors ensures the City's position is communicated to decision-makers at both the state and county levels.

V. FISCAL IMPACT

There is no direct fiscal impact associated with authorizing the proposed opposition letters. However, if the proposed countywide sales tax authorization were ultimately approved by the California State Legislature and subsequently approved by voters, it could increase the sales tax rate paid by residents and businesses within the City of Carson. At this time, the proposed action is limited to communicating the City Council's policy position regarding the legislation and the related proposed tax authorization.

VI. EXHIBITS

1. Letter to Assemblymember Bryan
2. Letter to the Los Angeles County Board of Supervisors

Attachments

Letter to Assemblymember Bryan

Letter to Los Angeles County Board of Supervisors

The Honorable Isaac G. Bryan
California State Assembly
State Capitol
Sacramento, CA 95814

RE: City of Carson Opposition to AB 1768 (Bryan)

Dear Assemblymember Bryan,

On behalf of the City of Carson City Council, we write to respectfully express our opposition to AB 1768, which would authorize the County of Los Angeles to levy a new 0.5 percent sales tax that would be exempt from the statewide 2 percent local sales tax cap.

The City of Carson recognizes the significant challenges facing the region's health care system, particularly in light of federal actions that have created uncertainty and funding shortfalls for essential health services. Our City supports efforts to ensure that residents across Los Angeles County continue to have access to critical health care services.

However, AB 1768 would authorize a new sales tax increase that would further raise the cost of everyday goods for residents already struggling with the rising cost of living. Sales taxes are inherently regressive and disproportionately impact working families and lower-income households. In communities like Carson, where many residents are already facing significant economic pressures related to housing, utilities, fuel, and groceries, an additional sales tax increase would add further strain.

Los Angeles County voters recently approved Measure A in 2024, which also raised the sales tax by 0.5 percent and was exempted from the state cap. Authorizing yet another increase so soon after that vote raises serious concerns about affordability and the cumulative impact of sales taxes on residents and businesses. In some parts of Los Angeles County, sales tax rates are already among the highest in the state.

Additionally, AB 1768 would authorize a general tax without specific safeguards or guarantees ensuring that the revenue generated would be directed toward the health care purposes being cited as justification for the proposal. The City of Carson believes that any proposal of this magnitude should include strong fiscal safeguards, transparency, and accountability to ensure public trust.

We also believe that the health care funding challenges facing Los Angeles County reflect a broader statewide issue that should be addressed through comprehensive solutions at the state level rather than through piecemeal local tax increases.

For these reasons, the City of Carson respectfully opposes AB 1768 and urges you to reconsider this proposal.

Thank you for your consideration of the City's position. If you have any questions, please feel free to contact our Government Affairs Office at mgeorge@carsonca.gov.

Sincerely,

City of Carson City Council

Chair Hilda L. Solis and Members
Los Angeles County Board of Supervisors
500 West Temple Street
Los Angeles, CA 90012

RE: City of Carson Opposition to Proposed Sales Tax Increase Associated with AB 1768

Dear Chair Solis and Members of the Board:

On behalf of the City of Carson City Council, we write to respectfully express our opposition to the proposed sales tax measure associated with AB 1768 that would authorize the County of Los Angeles to levy an additional 0.5 percent sales tax exempt from the statewide 2 percent local sales tax cap.

The City of Carson recognizes the serious financial challenges facing Los Angeles County's health care system, particularly in light of federal actions that have significantly reduced funding for essential health services. We share the County's concern about ensuring that residents across the region continue to have access to vital health care programs and services.

However, the City has significant concerns about relying on an additional sales tax increase to address this challenge. Sales taxes are inherently regressive and disproportionately impact working families and lower-income residents who already face rising costs for housing, groceries, fuel, and other basic necessities.

Los Angeles County voters recently approved Measure A in 2024, which increased the sales tax by 0.5 percent and was exempted from the state cap. Proposing another sales tax increase so soon after that measure raises concerns about affordability and the cumulative impact of sales taxes on both residents and local businesses. In many areas of the County, sales tax rates are already among the highest in the state, which may also create competitive disadvantages for local businesses compared with neighboring counties with lower tax rates.

The City of Carson is also concerned that the proposed tax is structured as a general tax without clear fiscal safeguards or dedicated spending requirements. Without specific accountability measures or guarantees regarding how the funds will be used, it is difficult for local jurisdictions to support a proposal of this magnitude.

While we strongly support efforts to maintain access to health care services for Los Angeles County residents, we believe that the scale of this challenge warrants a broader statewide solution rather than relying solely on additional local sales taxes.

For these reasons, the City of Carson respectfully opposes the proposed sales tax authorization associated with AB 1768.

Thank you for your consideration of the City's concerns. We look forward to continuing to work collaboratively with the County on solutions that protect essential services while also maintaining affordability for our residents. If you have any questions, please feel free to contact our Government Affairs Office at mgeorge@carsonca.gov.

Sincerely,

City of Carson City Council

CITY OF CARSON

701 East Carson Street

Report to Honorable Mayor and City Council

Tuesday, March 17, 2026, 5:00 PM

CONSENT 17.

To: Honorable Mayor and City Council

From: Dr. Khaleah K. Bradshaw, City Clerk {{department}} {{division}}

Subject: CONSIDER APPROVAL OF CONTRACT AMENDMENT NO. 1 FOR AMERICAN SIGN LANGUAGE INTERPRETATION SERVICES (CITY COUNCIL)

I. SUMMARY

The City Clerk is seeking City Council approval to amend an existing contract with Language Network, Inc. to increase the amount of the contract to cover the services rendered for American Sign Language at all council meetings for the remainder of the fiscal year. The original contract amount was approved by the City Manager in the amount of $60,000. The scope of work remains the same; the sole purpose of this amendment is to increase the dollar amount. It is important to note that the law that requires American Sign Language at council meetings went into effect in the middle of the year, therefore there was not an opportunity to properly budget for this item prior to the law going into effect.

II. RECOMMENDATION

1. APPROVE Amendment No.1 to contract with Language Network. for American Sign Language Interpretation Services, for an increased amount not to exceed $95,000, increasing the total contract sum to $155,000; and
2. AUTHORIZE the Mayor to execute the amendment after approval as to form by the City Attorney.

III. ALTERNATIVES

1. TAKE another action the City Council deems appropriate.

IV. BACKGROUND

Due to higher-than-anticipated demand for ASL interpretation services at commissioner meetings and special events that were named in the original scope but not calculated into the budget, the Contract Sum has been expended faster than anticipated, and unless increased will likely be exhausted prior to the scheduled expiration of the initial three-year term of the Agreement (May 20, 2027).

As a result, staff is requesting the City Council to approve Amendment No. 1 for an additional $95,000 increasing the total contract sum to $155,000.

V. FISCAL IMPACT

The cost associated with Contract Amendment No. 1 with Language Network, Inc. is a total not to exceed the amount of $155,000. The original contract was awarded for $60,000.

G/L Account 101-30-100-101-6004 (Professional Services) will cover the remaining funding for services March-June 2026 estimated in the amount not to exceed $12k, which averages around $1700 per meeting for the remaining 7 meetings. The same account will cover services for the 2026-2027 fiscal year as well.

VI. EXHIBITS

1. Contract with Language Network, Inc.
2. Contract Amendment No. 1 with Language Network, Inc.

Attachments

(Language Network) Contract.pdf

(Language Network) Amendment No. 1.pdf

CONTRACT SERVICES AGREEMENT

By and Between

CITY OF CARSON

and

LANGUAGE NETWORK, INC.

AGREEMENT FOR CONTRACT SERVICES
BETWEEN THE CITY OF CARSON AND
LANGUAGE NETWORK, INC.

THIS AGREEMENT FOR CONTRACT SERVICES (herein "Agreement") is made and entered into this 21st day of May, 2024 by and between the **CITY OF CARSON**, a California municipal corporation ("City") and **LANGUAGE NETWORK, INC**., a California corporation ("Consultant"). City and Consultant are sometimes hereinafter individually referred to as "Party" and hereinafter collectively referred to as the "Parties."

RECITALS

A. City has sought, by issuance of a Request for Proposals or Invitation for Bids, the performance of the services defined and described particularly in Article 1 of this Agreement.

B. Consultant, following submission of a proposal or bid for the performance of the services defined and described particularly in Article 1 of this Agreement, was selected by the City to perform those services.

C. Pursuant to the City of Carson's Municipal Code, City has authority to enter into and execute this Agreement.

D. The Parties desire to formalize the selection of Consultant for performance of those services defined and described particularly in Article 1 of this Agreement and desire that the terms of that performance be as particularly defined and described herein.

OPERATIVE PROVISIONS

NOW, THEREFORE, in consideration of the mutual promises and covenants made by the Parties and contained herein and other consideration, the value and adequacy of which are hereby acknowledged, the parties agree as follows:

ARTICLE 1. SERVICES OF CONSULTANT

1.1 Scope of Services.

In compliance with all terms and conditions of this Agreement, the Consultant shall provide those services specified in the "Scope of Services" attached hereto as Exhibit "A" and incorporated herein by this reference, which may be referred to herein as the "services" or "work" hereunder. As a material inducement to the City entering into this Agreement, Consultant represents and warrants that it has the qualifications, experience, and facilities necessary to properly perform the services required under this Agreement in a thorough, competent, and professional manner, and is experienced in performing the work and services contemplated herein. Consultant shall at all times faithfully, competently and to the best of its ability, experience and talent, perform all services described herein. Consultant covenants that it shall follow the highest professional standards in performing the work and services required hereunder and that all materials will be both of good quality as well as fit for the purpose intended. For purposes of this Agreement, the phrase "highest professional standards" shall mean those standards of practice recognized by one or more first-class firms performing similar work under similar circumstances.

1.2 Consultant's Proposal.

The Scope of Service shall include the Consultant's scope of work or bid which shall be incorporated herein by this reference as though fully set forth herein. In the event of any inconsistency between the terms of such proposal and this Agreement, the terms of this Agreement shall govern.

1.3 Compliance with Law.

Consultant shall keep itself informed concerning, and shall render all services hereunder in accordance with, all ordinances, resolutions, statutes, rules, and regulations of the City and any Federal, State or local governmental entity having jurisdiction in effect at the time service is rendered.

1.4 Licenses, Permits, Fees and Assessments.

Consultant shall obtain at its sole cost and expense such licenses, permits and approvals as may be required by law for the performance of the services required by this Agreement. Consultant shall have the sole obligation to pay for any fees, assessments and taxes, plus applicable penalties and interest, which may be imposed by law and arise from or are necessary for the Consultant's performance of the services required by this Agreement, and shall indemnify, defend and hold harmless City, its officers, employees or agents of City, against any such fees, assessments, taxes, penalties or interest levied, assessed or imposed against City hereunder.

1.5 Familiarity with Work.

By executing this Agreement, Consultant warrants that Consultant (i) has thoroughly investigated and considered the scope of services to be performed, (ii) has carefully considered how the services should be performed, and (iii) fully understands the facilities, difficulties and restrictions attending performance of the services under this Agreement. If the services involve work upon any site, Consultant warrants that Consultant has or will investigate the site and is or will be fully acquainted with the conditions there existing, prior to commencement of services hereunder. Should the Consultant discover any latent or unknown conditions, which will materially affect the performance of the services hereunder, Consultant shall immediately inform the City of such fact and shall not proceed except at Consultant's risk until written instructions are received from the Contract Officer.

1.6 Care of Work.

The Consultant shall adopt reasonable methods during the life of the Agreement to furnish continuous protection to the work, and the equipment, materials, papers, documents, plans, studies and/or other components thereof to prevent losses or damages, and shall be responsible for all such damages, to persons or property, until acceptance of the work by City, except such losses or damages as may be caused by City's own negligence.

1.7 Further Responsibilities of Parties.

Both parties agree to use reasonable care and diligence to perform their respective obligations under this Agreement. Both parties agree to act in good faith to execute all instruments,

prepare all documents and take all actions as may be reasonably necessary to carry out the purposes of this Agreement. Unless hereafter specified, neither party shall be responsible for the service of the other.

1.8 Additional Services.

City shall have the right at any time during the performance of the services, without invalidating this Agreement, to order extra work beyond that specified in the Scope of Services or make changes by altering, adding to or deducting from said work. No such extra work may be undertaken unless a written order is first given by the Contract Officer to the Consultant, incorporating therein any adjustment in (i) the Contract Sum for the actual costs of the extra work, and/or (ii) the time to perform this Agreement, which said adjustments are subject to the written approval of the Consultant. Any increase in compensation of up to ten percent (10%) of the Contract Sum or $25,000, whichever is less; or, in the time to perform of up to one hundred eighty (180) days, may be approved by the Contract Officer. Any greater increases, taken either separately or cumulatively, must be approved by the City Council. It is expressly understood by Consultant that the provisions of this Section shall not apply to services specifically set forth in the Scope of Services. Consultant hereby acknowledges that it accepts the risk that the services to be provided pursuant to the Scope of Services may be more costly or time consuming than Consultant anticipates and that Consultant shall not be entitled to additional compensation therefor. City may in its sole and absolute discretion have similar work done by other contractors. No claims for an increase in the Contract Sum or time for performance shall be valid unless the procedures established in this Section are followed.

1.9 Special Requirements.

Additional terms and conditions of this Agreement, if any, which are made a part hereof are set forth in the "Special Requirements" attached hereto as Exhibit "B" and incorporated herein by this reference. In the event of a conflict between the provisions of Exhibit "B" and any other provisions of this Agreement, the provisions of Exhibit "B" shall govern.

ARTICLE 2. COMPENSATION AND METHOD OF PAYMENT.

2.1 Contract Sum.

Subject to any limitations set forth in this Agreement, City agrees to pay Consultant the amounts specified in the "Schedule of Compensation" attached hereto as Exhibit "C" and incorporated herein by this reference. The total compensation for the initial three year term, including reimbursement for actual expenses, shall not exceed **Sixty Thousand Dollars ($60,000.00)** (the "Contract Sum"), unless additional compensation is approved pursuant to Section 1.8. In the event City exercises one or both of its options to extend the Term pursuant to Section 3.4, the total compensation to Consultant for each Extension Term, including reimbursement for actual expenses, shall not exceed **Twenty Thousand Dollars ($20,000)**, unless additional compensation is approved pursuant to Section 1.8.

2.2 Method of Compensation.

The method of compensation may include: (i) a lump sum payment upon completion; (ii) payment in accordance with specified tasks or the percentage of completion of the services, less contract retention; (iii) payment for time and materials based upon the Consultant's rates as specified in the Schedule of Compensation, provided that (a) time estimates are provided for the performance of sub tasks, (b) contract retention is maintained, and (c) the Contract Sum is not exceeded; or (iv) such other methods as may be specified in the Schedule of Compensation.

2.3 Reimbursable Expenses.

Compensation may include reimbursement for actual and necessary expenditures for reproduction costs, telephone expenses, and travel expenses approved by the Contract Officer in advance, or actual subcontractor expenses of an approved subcontractor pursuant to Section 4.5, and only if specified in the Schedule of Compensation. The Contract Sum shall include the attendance of Consultant at all project meetings reasonably deemed necessary by the City. Coordination of the performance of the work with City is a critical component of the services. If Consultant is required to attend additional meetings to facilitate such coordination, Consultant shall not be entitled to any additional compensation for attending said meetings.

2.4 Invoices.

Each month Consultant shall furnish to City an original invoice for all work performed and expenses incurred during the preceding month in a form approved by City's Director of Finance. By submitting an invoice for payment under this Agreement, Consultant is certifying compliance with all provisions of the Agreement. The invoice shall detail charges for all necessary and actual expenses by the following categories: labor (by sub-category), travel, materials, equipment, supplies, and sub-contractor contracts. Sub-contractor charges shall also be detailed by such categories. Consultant shall not invoice City for any duplicate services performed by more than one person.

City shall independently review each invoice submitted by the Consultant to determine whether the work performed and expenses incurred are in compliance with the provisions of this Agreement. Except as to any charges for work performed or expenses incurred by Consultant which are disputed by City, or as provided in Section 7.3, City will use its best efforts to cause Consultant to be paid within forty-five (45) days of receipt of Consultant's correct and undisputed invoice; however, Consultant acknowledges and agrees that due to City warrant run procedures, the City cannot guarantee that payment will occur within this time period. In the event any charges or expenses are disputed by City, the original invoice shall be returned by City to Consultant for correction and resubmission. Review and payment by City for any invoice provided by the Consultant shall not constitute a waiver of any rights or remedies provided herein or any applicable law.

2.5 Waiver.

Payment to Consultant for work performed pursuant to this Agreement shall not be deemed to waive any defects in work performed by Consultant.

ARTICLE 3. PERFORMANCE SCHEDULE

3.1 Time of Essence.

Time is of the essence in the performance of this Agreement.

3.2 Schedule of Performance.

Consultant shall commence the services pursuant to this Agreement upon receipt of a written notice to proceed and shall perform all services within the time period(s) established in the "Schedule of Performance" attached hereto as Exhibit "D" and incorporated herein by this reference. When requested by the Consultant, extensions to the time period(s) specified in the Schedule of Performance may be approved in writing by the Contract Officer but not exceeding one hundred eighty (180) days cumulatively.

3.3 Force Majeure.

The time period(s) specified in the Schedule of Performance for performance of the services rendered pursuant to this Agreement shall be extended because of any delays due to unforeseeable causes beyond the control and without the fault or negligence of the Consultant, including, but not restricted to, acts of God or of the public enemy, unusually severe weather, fires, earthquakes, floods, epidemics, quarantine restrictions, riots, strikes, freight embargoes, wars, litigation, and/or acts of any governmental agency, including the City, if the Consultant shall within ten (10) days of the commencement of such delay notify the Contract Officer in writing of the causes of the delay. The Contract Officer shall ascertain the facts and the extent of delay, and extend the time for performing the services for the period of the enforced delay when and if in the judgment of the Contract Officer such delay is justified. The Contract Officer's determination shall be final and conclusive upon the parties to this Agreement. In no event shall Consultant be entitled to recover damages against the City for any delay in the performance of this Agreement, however caused, Consultant's sole remedy being extension of the Agreement pursuant to this Section.

3.4 Term.

Unless earlier terminated in accordance with Article 7 of this Agreement, this Agreement shall continue in full force and effect until completion of the services but not exceeding one (1) years from the date hereof, except as otherwise provided in the Schedule of Performance (Exhibit "D").

ARTICLE 4. COORDINATION OF WORK

4.1 Representatives and Personnel of Consultant.

The following principals of Consultant ("Principals") are hereby designated as being the principals and representatives of Consultant authorized to act in its behalf with respect to the work specified herein and make all decisions in connection therewith:

Brenda Rourcke	Business Development Manager
(Name)	(Title)
Jordan Evans	CEO

(Name) (Title)

(Name) (Title)

It is expressly understood that the experience, knowledge, capability and reputation of the foregoing principals were a substantial inducement for City to enter into this Agreement. Therefore, the foregoing principals shall be responsible during the term of this Agreement for directing all activities of Consultant and devoting sufficient time to personally supervise the services hereunder. All personnel of Consultant, and any authorized agents, shall at all times be under the exclusive direction and control of the Principals. For purposes of this Agreement, the foregoing Principals may not be replaced nor may their responsibilities be substantially reduced by Consultant without the express written approval of City. Additionally, Consultant shall utilize only competent personnel to perform services pursuant to this Agreement. Consultant shall make every reasonable effort to maintain the stability and continuity of Consultant's staff and subcontractors, if any, assigned to perform the services required under this Agreement. Consultant shall notify City of any changes in Consultant's staff and subcontractors, if any, assigned to perform the services required under this Agreement, prior to and during any such performance.

4.2 Status of Consultant.

Consultant shall have no authority to bind City in any manner, or to incur any obligation, debt or liability of any kind on behalf of or against City, whether by contract or otherwise, unless such authority is expressly conferred under this Agreement or is otherwise expressly conferred in writing by City. Consultant shall not at any time or in any manner represent that Consultant or any of Consultant's officers, employees, or agents are in any manner officials, officers, employees or agents of City. Neither Consultant, nor any of Consultant's officers, employees or agents, shall obtain any rights to retirement, health care or any other benefits which may otherwise accrue to City's employees. Consultant expressly waives any claim Consultant may have to any such rights.

4.3 Contract Officer.

The Contract Officer shall be Michael George, Assistant to the City Manager, or such other person as may be designated by the City Manager. It shall be the Consultant's responsibility to assure that the Contract Officer is kept informed of the progress of the performance of the services and the Consultant shall refer any decisions which must be made by City to the Contract Officer. Unless otherwise specified herein, any approval of City required hereunder shall mean the approval of the Contract Officer. The Contract Officer shall have authority, if specified in writing by the City Manager, to sign all documents on behalf of the City required hereunder to carry out the terms of this Agreement.

4.4 Independent Consultant.

Neither the City nor any of its employees shall have any control over the manner, mode or means by which Consultant, its agents or employees, perform the services required herein, except as otherwise set forth herein. City shall have no voice in the selection, discharge, supervision or control of Consultant's employees, servants, representatives or agents, or in fixing their number, compensation or hours of service. Consultant shall perform all services required herein as an independent contractor of City and shall remain at all times as to City a wholly independent contractor with only such obligations as are consistent with that role. Consultant shall not at any

time or in any manner represent that it or any of its agents or employees are agents or employees of City. City shall not in any way or for any purpose become or be deemed to be a partner of Consultant in its business or otherwise or a joint venturer or a member of any joint enterprise with Consultant.

4.5 Prohibition Against Subcontracting or Assignment.

The experience, knowledge, capability and reputation of Consultant, its principals and employees were a substantial inducement for the City to enter into this Agreement. Therefore, Consultant shall not contract with any other entity to perform in whole or in part the services required hereunder without the express written approval of the City. In addition, neither this Agreement nor any interest herein may be transferred, assigned, conveyed, hypothecated or encumbered voluntarily or by operation of law, whether for the benefit of creditors or otherwise, without the prior written approval of City. Transfers restricted hereunder shall include the transfer to any person or group of persons acting in concert of more than twenty five percent (25%) of the present ownership and/or control of Consultant, taking all transfers into account on a cumulative basis. In the event of any such unapproved transfer, including any bankruptcy proceeding, this Agreement shall be void. No approved transfer shall release the Consultant or any surety of Consultant of any liability hereunder without the express consent of City.

ARTICLE 5. INSURANCE AND INDEMNIFICATION

5.1 Insurance Coverages.

The Consultant shall procure and maintain, at its sole cost and expense, in a form and content satisfactory to City, during the entire term of this Agreement including any extension thereof, the following policies of insurance which shall cover all elected and appointed officers, employees and agents of City:

(a) General Liability Insurance (Occurrence Form ISO CGL 00 01 or equivalent). A policy of comprehensive general liability insurance written on a per occurrence basis for bodily injury, personal injury and property damage. The policy of insurance shall be in an amount not less than $1,000,000.00 per occurrence or if a general aggregate limit is used, then the general aggregate limit shall be twice the occurrence limit.

(b) Worker's Compensation Insurance. A policy of worker's compensation insurance in such amount as will fully comply with the laws of the State of California and which shall indemnify, insure and provide legal defense for the Consultant against any loss, claim or damage arising from any injuries or occupational diseases occurring to any worker employed by or any persons retained by the Consultant in the course of carrying out the work or services contemplated in this Agreement, with Employer's Liability insurance coverage limits of at least $1,000,000.00.

(c) Automotive Insurance (Coverage Form ISO CA 00 01 including "any auto" and endorsement CA 0025 or equivalent). A policy of comprehensive automobile liability insurance written on a per occurrence for bodily injury and property damage in an amount not less than $1,000,000. Said policy shall include coverage for owned, non-owned, leased, hired cars and any automobile.

(d) Professional Liability. Professional liability insurance appropriate to the Consultant's profession as determined by the City's Risk Manager, provided that the limits shall be no less than $1,000,000 per claim and no less than $1,000,000 general aggregate. This coverage may be written on a "claims made" basis, and must include coverage for contractual liability. The professional liability insurance required by this Agreement must be endorsed to be applicable to claims based upon, arising out of or related to services performed under this Agreement. The insurance must be maintained for at least 5 consecutive years following the completion of Consultant's services or the termination of this Agreement. During this additional 5-year period, Consultant shall annually and upon request of the City submit written evidence of this continuous coverage.

(e) Subcontractors. Consultant shall include all subcontractors as insureds under its policies or shall furnish separate certificates and certified endorsements for each subcontractor. All coverages for subcontractors shall include all of the requirements stated herein.

(f) Additional Insurance. Policies of such other insurance, as may be required in the Special Requirements in Exhibit "B".

(g) Broader Coverages and Higher Limits. Notwithstanding anything else herein to the contrary, if Consultant maintains broader coverages and/or higher limits than the minimums shown above, the City requires and shall be entitled to the broader coverages and/or higher limits maintained by Consultant.

5.2 General Insurance Requirements.

All of the above policies of insurance shall be primary insurance and shall name the City, its elected and appointed officers, employees and agents as additional insureds and any insurance maintained by City or its officers, employees or agents may apply in excess of, and not contribute with Consultant's insurance. The insurer is deemed hereof to waive all rights of subrogation and contribution it may have against the City, its officers, employees and agents and their respective insurers. Moreover, the insurance policy must specify that where the primary insured does not satisfy the self-insured retention, any additional insured may satisfy the self-insured retention.

All of said policies of insurance shall provide that said insurance may not be amended or cancelled by the insurer or any party hereto without providing thirty (30) days prior written notice by certified mail return receipt requested to the City. In the event any of said policies of insurance are cancelled, the Consultant shall, prior to the cancellation date, submit new evidence of insurance in conformance with Section 5.1 to the Contract Officer.

No work or services under this Agreement shall commence until the Consultant has provided the City with Certificates of Insurance, additional insured endorsement forms or appropriate insurance binders evidencing the above insurance coverages and said Certificates of Insurance or binders are approved by the City. City reserves the right to inspect complete, certified copies of and endorsements to all required insurance policies at any time. Any failure to comply with the reporting or other provisions of the policies including breaches or warranties shall not affect coverage provided to City.

All certificates shall name the City as additional insured (providing the appropriate endorsement) and shall conform to the following "cancellation" notice:

CANCELLATION:

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY SHALL MAIL THIRTY (30)-DAY ADVANCE WRITTEN NOTICE TO CERTIFICATE HOLDER NAMED HEREIN.

[to be initialed] _____
Consultant Initials

City, its respective elected and appointed officers, directors, officials, employees, agents and volunteers are to be covered as additional insureds as respects: liability arising out of activities Consultant performs; products and completed operations of Consultant; premises owned, occupied or used by Consultant; or any automobiles owned, leased, hired or borrowed by Consultant. The coverage shall contain no special limitations on the scope of protection afforded to City, and their respective elected and appointed officers, officials, employees or volunteers. Consultant's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.

Any deductibles or self-insured retentions must be declared to and approved by City. At the option of City, either the insurer shall reduce or eliminate such deductibles or self-insured retentions as respects City or its respective elected or appointed officers, officials, employees and volunteers or the Consultant shall procure a bond guaranteeing payment of losses and related investigations, claim administration, defense expenses and claims. The Consultant agrees that the requirement to provide insurance shall not be construed as limiting in any way the extent to which the Consultant may be held responsible for the payment of damages to any persons or property resulting from the Consultant's activities or the activities of any person or persons for which the Consultant is otherwise responsible nor shall it limit the Consultant's indemnification liabilities as provided in Section 5.3.

In the event the Consultant subcontracts any portion of the work in compliance with Section 4.5 of this Agreement, the contract between the Consultant and such subcontractor shall require the subcontractor to maintain the same policies of insurance that the Consultant is required to maintain pursuant to Section 5.1, and such certificates and endorsements shall be provided to City.

5.3 Indemnification.

To the full extent permitted by law, Consultant agrees to indemnify, defend and hold harmless the City, its officers, employees and agents ("Indemnified Parties") against, and will hold and save them and each of them harmless from, any and all actions, either judicial, administrative, arbitration or regulatory claims, damages to persons or property, losses, costs, penalties, obligations, errors, omissions or liabilities whether actual or threatened (herein "claims or liabilities") that may be asserted or claimed by any person, firm or entity arising out of or in connection with the negligent performance of the work, operations or activities provided herein of Consultant, its officers, employees, agents, subcontractors, or invitees, or any individual or entity for which Consultant is legally liable ("indemnitors"), or arising from Consultant's or indemnitors' reckless or willful misconduct, or arising from Consultant's or indemnitors' negligent performance

of or failure to perform any term, provision, covenant or condition of this Agreement, and in connection therewith:

(a) Consultant will defend any action or actions filed in connection with any of said claims or liabilities and will pay all costs and expenses, including legal costs and attorneys' fees incurred in connection therewith;

(b) Consultant will promptly pay any judgment rendered against the City, its officers, agents or employees for any such claims or liabilities arising out of or in connection with the negligent performance of or failure to perform such work, operations or activities of Consultant hereunder; and Consultant agrees to save and hold the City, its officers, agents, and employees harmless therefrom;

(c) In the event the City, its officers, agents or employees is made a party to any action or proceeding filed or prosecuted against Consultant for such damages or other claims arising out of or in connection with the negligent performance of or failure to perform the work, operation or activities of Consultant hereunder, Consultant agrees to pay to the City, its officers, agents or employees, any and all costs and expenses incurred by the City, its officers, agents or employees in such action or proceeding, including but not limited to, legal costs and attorneys' fees.

Consultant shall incorporate similar indemnity agreements with its subcontractors and if it fails to do so Consultant shall be fully responsible to indemnify City hereunder therefore, and failure of City to monitor compliance with these provisions shall not be a waiver hereof. This indemnification includes claims or liabilities arising from any negligent or wrongful act, error or omission, or reckless or willful misconduct of Consultant in the performance of professional services hereunder. The provisions of this Section do not apply to claims or liabilities occurring as a result of City's sole negligence or willful acts or omissions, but, to the fullest extent permitted by law, shall apply to claims and liabilities resulting in part from City's negligence, except that design professionals' indemnity hereunder shall be limited to claims and liabilities arising out of the negligence, recklessness or willful misconduct of the design professional. The indemnity obligation shall be binding on successors and assigns of Consultant and shall survive termination of this Agreement.

5.4 Sufficiency of Insurer.

Insurance required by this Agreement shall be satisfactory only if issued by companies qualified to do business in California, rated "A" or better in the most recent edition of Best Rating Guide, The Key Rating Guide or in the Federal Register, and only if they are of a financial category Class VII or better, unless such requirements are waived by the Risk Manager of the City ("Risk Manager") due to unique circumstances. If this Agreement continues for more than 3 years duration, or in the event the risk manager determines that the work or services to be performed under this Agreement creates an increased or decreased risk of loss to the City, the Consultant agrees that the minimum limits of the insurance policies may be changed accordingly upon receipt of written notice from the Risk Manager.

ARTICLE 6. RECORDS, REPORTS, AND RELEASE OF INFORMATION

6.1 Records.

Consultant shall keep, and require subcontractors to keep, such ledgers, books of accounts, invoices, vouchers, canceled checks, reports, studies or other documents relating to the disbursements charged to City and services performed hereunder (the "books and records"), as shall be necessary to perform the services required by this Agreement and enable the Contract Officer to evaluate the performance of such services. Any and all such documents shall be maintained in accordance with generally accepted accounting principles and shall be complete and detailed. The Contract Officer shall have full and free access to such books and records at all times during normal business hours of City, including the right to inspect, copy, audit and make records and transcripts from such records. Such records shall be maintained for a period of three (3) years following completion of the services hereunder, and the City shall have access to such records in the event any audit is required. In the event of dissolution of Consultant's business, custody of the books and records may be given to City, and access shall be provided by Consultant's successor in interest. Notwithstanding the above, the Consultant shall fully cooperate with the City in providing access to the books and records if a public records request is made and disclosure is required by law including but not limited to the California Public Records Act.

6.2 Reports.

Consultant shall periodically prepare and submit to the Contract Officer such reports concerning the performance of the services required by this Agreement as the Contract Officer shall require. Consultant hereby acknowledges that the City is greatly concerned about the cost of work and services to be performed pursuant to this Agreement. For this reason, Consultant agrees that if Consultant becomes aware of any facts, circumstances, techniques, or events that may or will materially increase or decrease the cost of the work or services contemplated herein or, if Consultant is providing design services, the cost of the project being designed, Consultant shall promptly notify the Contract Officer of said fact, circumstance, technique or event and the estimated increased or decreased cost related thereto and, if Consultant is providing design services, the estimated increased or decreased cost estimate for the project being designed.

6.3 Ownership of Documents.

All drawings, specifications, maps, designs, photographs, studies, surveys, data, notes, computer files, reports, records, documents and other materials (the "documents and materials") prepared by Consultant, its employees, subcontractors and agents in the performance of this Agreement shall be the property of City and shall be delivered to City upon request of the Contract Officer or upon the termination of this Agreement, and Consultant shall have no claim for further employment or additional compensation as a result of the exercise by City of its full rights of ownership use, reuse, or assignment of the documents and materials hereunder. Any use, reuse or assignment of such completed documents for other projects and/or use of uncompleted documents without specific written authorization by the Consultant will be at the City's sole risk and without liability to Consultant, and Consultant's guarantee and warranties shall not extend to such use, reuse or assignment. Consultant may retain copies of such documents for its own use. Consultant shall have the right to use the concepts embodied therein. All subcontractors shall provide for assignment to City of any documents or materials prepared by them, and in the event Consultant fails to secure such assignment, Consultant shall indemnify City for all damages resulting

therefrom. Moreover, Consultant with respect to any documents and materials that may qualify as "works made for hire" as defined in 17 U.S.C. § 101, such documents and materials are hereby deemed "works made for hire" for the City.

6.4 Confidentiality and Release of Information.

(a) All information gained or work product produced by Consultant in performance of this Agreement shall be considered confidential, unless such information is in the public domain or already known to Consultant. Consultant shall not release or disclose any such information or work product to persons or entities other than City without prior written authorization from the Contract Officer.

(b) Consultant, its officers, employees, agents or subcontractors, shall not, without prior written authorization from the Contract Officer or unless requested by the City Attorney, voluntarily provide documents, declarations, letters of support, testimony at depositions, response to interrogatories or other information concerning the work performed under this Agreement. Response to a subpoena or court order shall not be considered "voluntary" provided Consultant gives City notice of such court order or subpoena.

(c) If Consultant, or any officer, employee, agent or subcontractor of Consultant, provides any information or work product in violation of this Agreement, then City shall have the right to reimbursement and indemnity from Consultant for any damages, costs and fees, including attorneys fees, caused by or incurred as a result of Consultant's conduct.

(d) Consultant shall promptly notify City should Consultant, its officers, employees, agents or subcontractors be served with any summons, complaint, subpoena, notice of deposition, request for documents, interrogatories, request for admissions or other discovery request, court order or subpoena from any party regarding this Agreement and the work performed there under. City retains the right, but has no obligation, to represent Consultant or be present at any deposition, hearing or similar proceeding. Consultant agrees to cooperate fully with City and to provide City with the opportunity to review any response to discovery requests provided by Consultant. However, this right to review any such response does not imply or mean the right by City to control, direct, or rewrite said response.

ARTICLE 7. ENFORCEMENT OF AGREEMENT AND TERMINATION

7.1 California Law.

This Agreement shall be interpreted, construed and governed both as to validity and to performance of the parties in accordance with the laws of the State of California. Legal actions concerning any dispute, claim or matter arising out of or in relation to this Agreement shall be instituted in the Superior Court of the County of Los Angeles, State of California, or any other appropriate court in such county, and Consultant covenants and agrees to submit to the personal jurisdiction of such court in the event of such action. In the event of litigation in a U.S. District Court, venue shall lie exclusively in the Central District of California, in the County of Los Angeles, State of California.

7.2 Disputes; Default.

In the event that Consultant is in default under the terms of this Agreement, the City shall not have any obligation or duty to continue compensating Consultant for any work performed after the date of default. Instead, the City may give notice to Consultant of the default and the reasons for the default. The notice shall include the timeframe in which Consultant may cure the default. This timeframe is presumptively thirty (30) days, but may be extended, though not reduced, if circumstances warrant. During the period of time that Consultant is in default, the City shall hold all invoices and shall, when the default is cured, proceed with payment on the invoices. In the alternative, the City may, in its sole discretion, elect to pay some or all of the outstanding invoices during the period of default. If Consultant does not cure the default, the City may take necessary steps to terminate this Agreement under this Article. Any failure on the part of the City to give notice of the Consultant's default shall not be deemed to result in a waiver of the City's legal rights or any rights arising out of any provision of this Agreement.

7.3 Retention of Funds.

Consultant hereby authorizes City to deduct from any amount payable to Consultant (whether or not arising out of this Agreement) (i) any amounts the payment of which may be in dispute hereunder or which are necessary to compensate City for any losses, costs, liabilities, or damages suffered by City, and (ii) all amounts for which City may be liable to third parties, by reason of Consultant's acts or omissions in performing or failing to perform Consultant's obligation under this Agreement. In the event that any claim is made by a third party, the amount or validity of which is disputed by Consultant, or any indebtedness shall exist which shall appear to be the basis for a claim of lien, City may withhold from any payment due, without liability for interest because of such withholding, an amount sufficient to cover such claim. The failure of City to exercise such right to deduct or to withhold shall not, however, affect the obligations of the Consultant to insure, indemnify, and protect City as elsewhere provided herein.

7.4 Waiver.

Waiver by any party to this Agreement of any term, condition, or covenant of this Agreement shall not constitute a waiver of any other term, condition, or covenant. Waiver by any party of any breach of the provisions of this Agreement shall not constitute a waiver of any other provision or a waiver of any subsequent breach or violation of any provision of this Agreement. Acceptance by City of any work or services by Consultant shall not constitute a waiver of any of the provisions of this Agreement. No delay or omission in the exercise of any right or remedy by a non-defaulting party on any default shall impair such right or remedy or be construed as a waiver. Any waiver by either party of any default must be in writing and shall not be a waiver of any other default concerning the same or any other provision of this Agreement.

7.5 Rights and Remedies are Cumulative.

Except with respect to rights and remedies expressly declared to be exclusive in this Agreement, the rights and remedies of the parties are cumulative and the exercise by either party of one or more of such rights or remedies shall not preclude the exercise by it, at the same or different times, of any other rights or remedies for the same default or any other default by the other party.

7.6 Legal Action.

In addition to any other rights or remedies, either party may take legal action, in law or in equity, to cure, correct or remedy any default, to recover damages for any default, to compel specific performance of this Agreement, to obtain declaratory or injunctive relief, or to obtain any other remedy consistent with the purposes of this Agreement. Notwithstanding any contrary provision herein, Consultant shall file a statutory claim pursuant to Government Code Sections 905 et. seq. and 910 et. seq., in order to pursue a legal action under this Agreement.

7.7 Termination Prior to Expiration of Term.

This Section shall govern any termination of this Contract except as specifically provided in the following Section for termination for cause. The City reserves the right to terminate this Contract at any time, with or without cause, upon thirty (30) days' written notice to Consultant, except that where termination is due to the fault of the Consultant, the period of notice may be such shorter time as may be determined by the Contract Officer. In addition, the Consultant reserves the right to terminate this Contract at any time, with or without cause, upon sixty (60) days' written notice to City, except that where termination is due to the fault of the City, the period of notice may be such shorter time as the Consultant may determine. Upon receipt of any notice of termination, Consultant shall immediately cease all services hereunder except such as may be specifically approved by the Contract Officer. Except where the Consultant has initiated termination, the Consultant shall be entitled to compensation for all services rendered prior to the effective date of the notice of termination and for any services authorized by the Contract Officer thereafter in accordance with the Schedule of Compensation or such as may be approved by the Contract Officer, except as provided in Section 7.3. In the event the Consultant has initiated termination, the Consultant shall be entitled to compensation only for the reasonable value of the work product actually produced hereunder. In the event of termination without cause pursuant to this Section, the terminating party need not provide the non-terminating party with the opportunity to cure pursuant to Section 7.2.

7.8 Termination for Default of Consultant.

If termination is due to the failure of the Consultant to fulfill its obligations under this Agreement, City may, after compliance with the provisions of Section 7.2, take over the work and prosecute the same to completion by contract or otherwise, and the Consultant shall be liable to the extent that the total cost for completion of the services required hereunder exceeds the compensation herein stipulated (provided that the City shall use reasonable efforts to mitigate such damages), and City may withhold any payments to the Consultant for the purpose of set-off or partial payment of the amounts owed the City as previously stated.

7.9 Attorneys' Fees.

If either party to this Agreement is required to initiate or defend or made a party to any action or proceeding in any way connected with this Agreement, the prevailing party in such action or proceeding, in addition to any other relief which may be granted, whether legal or equitable, shall be entitled to reasonable attorney's fees. Attorney's fees shall include attorney's fees on any appeal, and in addition a party entitled to attorney's fees shall be entitled to all other reasonable costs for investigating such action, taking depositions and discovery and all other necessary costs the court allows which are incurred in such litigation. All such fees shall be deemed to have accrued

on commencement of such action and shall be enforceable whether or not such action is prosecuted to judgment.

ARTICLE 8. CITY OFFICERS AND EMPLOYEES: NON-DISCRIMINATION

8.1 Non-liability of City Officers and Employees.

No officer or employee of the City shall be personally liable to the Consultant, or any successor in interest, in the event of any default or breach by the City or for any amount which may become due to the Consultant or to its successor, or for breach of any obligation of the terms of this Agreement.

8.2 Conflict of Interest.

Consultant covenants that neither it, nor any officer or principal of its firm, has or shall acquire any interest, directly or indirectly, which would conflict in any manner with the interests of City or which would in any way hinder Consultant's performance of services under this Agreement. Consultant further covenants that in the performance of this Agreement, no person having any such interest shall be employed by it as an officer, employee, agent or subcontractor without the express written consent of the Contract Officer. Consultant agrees to at all times avoid conflicts of interest or the appearance of any conflicts of interest with the interests of City in the performance of this Agreement.

No officer or employee of the City shall have any financial interest, direct or indirect, in this Agreement nor shall any such officer or employee participate in any decision relating to the Agreement which affects her/his financial interest or the financial interest of any corporation, partnership or association in which (s)he is, directly or indirectly, interested, in violation of any State statute or regulation. The Consultant warrants that it has not paid or given and will not pay or give any third party any money or other consideration for obtaining this Agreement.

8.3 Covenant Against Discrimination.

Consultant covenants that, by and for itself, its heirs, executors, assigns, and all persons claiming under or through them, that there shall be no discrimination against or segregation of, any person or group of persons on account of race, color, creed, religion, sex, gender, sexual orientation, marital status, national origin, ancestry or other protected class in the performance of this Agreement. Consultant shall take affirmative action to insure that applicants are employed and that employees are treated during employment without regard to their race, color, creed, religion, sex, gender, sexual orientation, marital status, national origin, ancestry or other protected class.

8.4 Unauthorized Aliens.

Consultant hereby promises and agrees to comply with all of the provisions of the Federal Immigration and Nationality Act, 8 U.S.C.A. §§ 1101, *et seq.*, as amended, and in connection therewith, shall not employ unauthorized aliens as defined therein. Should Consultant so employ such unauthorized aliens for the performance of work and/or services covered by this Agreement, and should any liability or sanctions be imposed against City for such use of unauthorized aliens, Consultant hereby agrees to and shall reimburse City for the cost of all such liabilities or sanctions imposed, together with any and all costs, including attorneys' fees, incurred by City.

ARTICLE 9. MISCELLANEOUS PROVISIONS

9.1 Notices.

Any notice, demand, request, document, consent, approval, or communication either party desires or is required to give to the other party or any other person shall be in writing and either served personally or sent by prepaid, first-class mail, in the case of the City, to the City Manager and to the attention of the Contract Officer (with her/his name and City title), City of Carson, 701 East Carson, Carson, California 90745 and in the case of the Consultant, to the person(s) at the address designated on the execution page of this Agreement. Either party may change its address by notifying the other party of the change of address in writing. Notice shall be deemed communicated at the time personally delivered or in seventy-two (72) hours from the time of mailing if mailed as provided in this Section.

9.2 Interpretation.

The terms of this Agreement shall be construed in accordance with the meaning of the language used and shall not be construed for or against either party by reason of the authorship of this Agreement or any other rule of construction which might otherwise apply.

9.3 Counterparts.

This Agreement may be executed in any number of counterparts and each of such counterparts shall for all purposes be deemed to be an original, whether the signatures are originals, electronic, facsimiles or digital. All such counterparts shall together constitute but one and the same Agreement.

9.4 Integration; Amendment.

This Agreement including the attachments hereto is the entire, complete and exclusive expression of the understanding of the parties. It is understood that there are no oral agreements between the parties hereto affecting this Agreement and this Agreement supersedes and cancels any and all previous negotiations, arrangements, agreements and understandings, if any, between the parties, and none shall be used to interpret this Agreement. No amendment to or modification of this Agreement shall be valid unless made in writing and approved by the Consultant and by the City Council. The parties agree that this requirement for written modifications cannot be waived and that any attempted waiver shall be void.

9.5 Severability.

In the event that any one or more of the phrases, sentences, clauses, paragraphs, or sections contained in this Agreement shall be declared invalid or unenforceable by a valid judgment or decree of a court of competent jurisdiction, such invalidity or unenforceability shall not affect any of the remaining phrases, sentences, clauses, paragraphs, or sections of this Agreement which are hereby declared as severable and shall be interpreted to carry out the intent of the parties hereunder unless the invalid provision is so material that its invalidity deprives either party of the basic benefit of their bargain or renders this Agreement meaningless.

9.6 Warranty & Representation of Non-Collusion.

No official, officer, or employee of City has any financial interest, direct or indirect, in this Agreement, nor shall any official, officer, or employee of City participate in any decision relating to this Agreement which may affect his/her financial interest or the financial interest of any corporation, partnership, or association in which (s)he is directly or indirectly interested, or in violation of any corporation, partnership, or association in which (s)he is directly or indirectly interested, or in violation of any State or municipal statute or regulation. The determination of "financial interest" shall be consistent with State law and shall not include interests found to be "remote" or "non-interests" pursuant to Government Code Sections 1091 or 1091.5. Consultant warrants and represents that it has not paid or given, and will not pay or give, to any third party including, but not limited to, any City official, officer, or employee, any money, consideration, or other thing of value as a result or consequence of obtaining or being awarded any agreement. Consultant further warrants and represents that (s)he/it has not engaged in any act(s), omission(s), or other conduct or collusion that would result in the payment of any money, consideration, or other thing of value to any third party including, but not limited to, any City official, officer, or employee, as a result of consequence of obtaining or being awarded any agreement. Consultant is aware of and understands that any such act(s), omission(s) or other conduct resulting in such payment of money, consideration, or other thing of value will render this Agreement void and of no force or effect.

Consultant's Authorized Initials

9.7 Corporate Authority.

The persons executing this Agreement on behalf of the parties hereto warrant that (i) such party is duly organized and existing, (ii) they are duly authorized to execute and deliver this Agreement on behalf of said party, (iii) by so executing this Agreement, such party is formally bound to the provisions of this Agreement, and (iv) the entering into this Agreement does not violate any provision of any other Agreement to which said party is bound. This Agreement shall be binding upon the heirs, executors, administrators, successors and assigns of the parties.

[SIGNATURES ON FOLLOWING PAGE]

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the date and year first-above written.

CITY:

CITY OF CARSON, a municipal corporation

_____
David C. Roberts, Jr., City Manager

ATTEST:

_____
Dr. Khaleah K. Bradshaw, City Clerk

APPROVED AS TO FORM:
ALESHIRE & WYNDER, LLP

_____
Sunny K. Soltani, City Attorney
[icy]

CONSULTANT:

LANGUAGE NETWORK, INC., a California corporation

By:_____
Name: Jordan Evans
Title: CEO

By:_____
Name: Brenda Rourcke
Title: Business Development Manager

Address: 11801 Pierce Street, Ste. 200
Riverside, CA 92505

Two corporate officer signatures required when Consultant is a corporation, with one signature required from each of the following groups: 1) Chairman of the Board, President or any Vice President; and 2) Secretary, any Assistant Secretary, Chief Financial Officer or any Assistant Treasurer. CONSULTANT'S SIGNATURES SHALL BE DULY NOTARIZED, AND APPROPRIATE ATTESTATIONS SHALL BE INCLUDED AS MAY BE REQUIRED BY THE BYLAWS, ARTICLES OF INCORPORATION, OR OTHER RULES OR REGULATIONS APPLICABLE TO CONSULTANT'S BUSINESS ENTITY.

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy or validity of that document.

STATE OF CALIFORNIA

COUNTY OF LOS ANGELES

On _____, 2024 before me, _____, personally appeared _____, proved to me on the basis of satisfactory evidence to be the person(s) whose names(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: _____

OPTIONAL

Though the data below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent reattachment of this form.

CAPACITY CLAIMED BY SIGNER

☐ INDIVIDUAL
☐ CORPORATE OFFICER
_____
TITLE(S)

☐ PARTNER(S) ☐ LIMITED ☐ GENERAL
☐ ATTORNEY-IN-FACT
☐ TRUSTEE(S)
☐ GUARDIAN/CONSERVATOR
☐ OTHER_____
_____

SIGNER IS REPRESENTING:
(NAME OF PERSON(S) OR ENTITY(IES))
_____
_____

DESCRIPTION OF ATTACHED DOCUMENT

_____
TITLE OR TYPE OF DOCUMENT

_____
NUMBER OF PAGES

_____
DATE OF DOCUMENT

_____
SIGNER(S) OTHER THAN NAMED ABOVE

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy or validity of that document.

STATE OF CALIFORNIA

COUNTY OF LOS ANGELES

On _____, 2024 before me, _____, personally appeared _____, proved to me on the basis of satisfactory evidence to be the person(s) whose names(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: _____

OPTIONAL

Though the data below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent reattachment of this form

CAPACITY CLAIMED BY SIGNER

☐ INDIVIDUAL
☒ CORPORATE OFFICER
_____
TITLE(S)

☐ PARTNER(S) ☐ LIMITED ☐ GENERAL
☐ ATTORNEY-IN-FACT
☐ TRUSTEE(S)
☐ GUARDIAN/CONSERVATOR
☐ OTHER_____
_____

SIGNER IS REPRESENTING:
(NAME OF PERSON(S) OR ENTITY(IES))
_____
_____

DESCRIPTION OF ATTACHED DOCUMENT

_____
TITLE OR TYPE OF DOCUMENT

_____
NUMBER OF PAGES

_____
DATE OF DOCUMENT

_____
SIGNER(S) OTHER THAN NAMED ABOVE

EXHIBIT "A"

SCOPE OF SERVICES

I. Consultant will perform the following Services:

A. Provide American Sign Language (ASL) interpretation services performed by qualified ASL interpreters for the deaf and hard-of-hearing for all City Council meetings, except as otherwise directed by the Contract Officer, for the purpose of ensuring City's compliance with the Americans with Disabilities Act of 1990 and other applicable disability-access related laws and regulations.

B. On an on-call basis (pursuant to request of the City on a task-by-task basis pursuant to Section III, below), perform the above-referenced services for other City meetings or events, such as (without limitation) City special events and meetings of the City's commissions, committees and boards.

II. The following requirements shall apply to Consultant's Services:

A. For specified public meetings or types of public meetings as directed by the Contract Officer, Consultant shall provide ASL interpreters who are capable of understanding Spanish, Tagalog, Chinese (Mandarin and Cantonese), and/or Korean, and interpreting it into ASL. For all meetings, Consultant's translators must be capable of understanding English and interpreting it into ASL.

B. Consultant shall be available to deploy interpreters for on-site/in-person, video-remote, or both services upon request of the Contract Officer.

C. Consultant shall be available to deploy multiple interpreters for simultaneous assignments upon request of the Contract Officer.

D. Consultant shall be available to deploy interpreters who can cover the full duration of City meetings, weeknights included.

E. Consultant shall be available to provide interpretation equipment for spoken language needs, including headphones and transmitters, upon request of the Contract Officer.

F. Consultant's interpreters for video-remote assignments shall have working knowledge of platforms such as Zoom, WebEx, Google Meet, and Skype.

G. Consultant shall be available to deploy interpreters to perform services at on-site City meetings as directed by the Contract Officer with pre-scheduled (generally 72-hour) or rush (less than 24-hour) advanced notices, subject to the $10/hr rate adjustment for rush notices as set forth in Exhibit "C."

III. Consultant must perform all on-call Services in compliance with the following requirements:

A. Each task shall be indicated by a written request produced by the Contract Officer with a description of the work to be performed, and the time desired for completion. All tasks shall be carried out in conformity with all provisions of this Agreement.

B. Consultant must prepare a written description of the requested tasks including all components and subtasks; the costs to perform the task ("Task Budget"), using the itemized fees in Exhibit C, Schedule of Compensation, whenever a requested task is provided for in Exhibit C; an explanation of how the cost was determined; and, a schedule for completion of the task ("Task Completion Date"); which shall all collectively be referred to as the "Task Proposal".

C. Contract Officer shall in writing approve, modify or reject the Task Proposal, and may issue a Notice to Proceed.

D. The task shall be performed at a cost not to exceed the Task Budget.

E. Consultant shall complete the task and deliver all deliverables to Contract Officer by the Task Completion Date.

IV. In addition to the requirements of Section 6.2, during performance of the Services, Consultant will keep the City updated of the status of performance by delivering the following status reports: NOT APPLICABLE

V. All work product is subject to review and acceptance by the City, and must be revised by the Consultant without additional charge to the City until found satisfactory and accepted by City.

VI. Consultant will utilize the following personnel to accomplish the Services:

A. Brenda Rourcke, Business Development Manager

B. Jennifer Martinez, Quality Control & Interpreter Resources Manager

C. Devon Reed, Director of Translation Services

D. Valentina Cattaneo, Project Manager

E. ASL-certified interpreters (certified through the Registry of Interpreters for the Deaf and/or National Interpreter Certification (NIC))

EXHIBIT "B"

SPECIAL REQUIREMENTS

(Superseding Contract Boilerplate)
(new text shown in ***bold italics***, deleted text in ~~strikethrough~~)

I. Section 3.4 (Term) is hereby amended as follows:

"3.4 Term.

Unless earlier terminated in accordance with Article 7 of this Agreement, this Agreement shall continue in full force and effect until completion of the services but not exceeding ***three (3)*** ~~one (1)~~ years from the date hereof, except as otherwise provided in the Schedule of Performance (Exhibit "D"). ***City shall have the option, in its sole discretion and upon notice to Consultant, to extend the term of this Agreement for up to two additional one-year extension terms, at the same rates of compensation set forth in the Schedule of Compensation (Exhibit "C").***"

EXHIBIT "C"

SCHEDULE OF COMPENSATION

I. Consultant shall be compensated in accordance with the following, which will include any and all expenses:

On-site Interpreting Rates - Consecutive

On-Site Interpreting – American Sign Language (ASL)	$130.00	Per Hour

*2-hour minimum charge

Video Remote Interpreting Rates
On Consultant's Platform, On-Demand

Video-Remote-Interpreting – American Sign Language (ASL) and Other Spoken Languages	$3.10	Per Minute

*30-minute minimum charge

Video Remote Interpreting Rates
Pick your Platform - Scheduled

Video-Remote-Interpreting – Languages: American Sign Language (ASL)	$130.00	Per Hour

*2-hour minimum charge

Interpreting Equipment

Headset and Receivers (Minimum 20)	$10	Per Unit
Transmitter	$150	Per Unit

Additional Terms:

· Short Notice Request (less than 24 hours prior to the services requested), Holiday and/or Weekend and After Hour Appointment Times: $10 Per Hour Additional.

· Two-hour minimum fee applies to on-site interpreting. Each hour after 2 hours is billed at a prorated hourly rate. Hourly charge will commence from interpreter's initial arrival to interpreter's final departure.

· Additional Charges: Travel time or Mileage may be billed at $.585/mi or IRS rate whichever is greater, round trip from interpreter's location to site. Parking fees, tolls, entrance fees to be reimbursed at cost. For Simultaneous Interpreting or ASL Interpreting requests, two interpreters may be required, subject to Contract Officer approval, if consistent with industry/professional standards to avoid fatigue and ensure accuracy. This may also apply to consecutive interpreting requests (to be determined situationally).

· Cancelation and Client No-Show Policy: 100% Cancelation Fee if appointment is canceled less than 24 hours before appointment. The interpreters are allocated time for City's assignment alone, therefore cancellation notifications less than 24 hours in advance of scheduled services must be billed.

II. Within the budgeted amounts for each Task, and with the approval of the Contract Officer, funds may be shifted from one Task sub-budget to another so long as the

Contract Sum is not exceeded per Section 2.1, unless Additional Services are approved per Section 2.3.

III. The City will compensate Consultant for the Services performed upon submission of a valid invoice, in accordance with Section 2.2. Each invoice is to include:

A. Line items for all the work performed, the number of hours worked, and the hourly rate.

B. Line items for all materials and equipment properly charged to the Services.

C. Line items for all other approved reimbursable expenses claimed, with supporting documentation.

D. Line items for all approved subcontractor labor, supplies, equipment, materials, and travel properly charged to the Services.

IV. The total compensation for the Services shall not exceed $60,000.00, as provided in Section 2.1 of this Agreement.

EXHIBIT "D"

SCHEDULE OF PERFORMANCE

I. Consultant shall perform all Services timely in accordance with the following schedule:

A. For regular services pursuant to Section I of Exhibit "A": in real-time throughout all City Council meetings, except as otherwise directed by the Contract Officer.

B. Consultant shall perform all on-call services timely in accordance with the approved Task Proposal pursuant to Section III of Exhibit "A.

II. The Contract Officer may approve extensions for performance of the Services in accordance with Section 3.2.

AMENDMENT NO. 1

TO AGREEMENT FOR CONTRACT SERVICES

THIS AMENDMENT NO. 1 TO THE AGREEMENT FOR CONTRACT SERVICES ("Amendment") by and between the CITY OF CARSON, a California municipal corporation ("City") and LANGUAGE NETWORK, INC., a California corporation ("Consultant") is effective as of the ____ day of _____, 2026. City and Consultant are sometimes hereinafter individually referred to as "Party" and hereinafter collectively referred to as the "Parties."

RECITALS

A. City and Consultant entered into that certain Agreement for Contract Services dated May 21, 2024 ("Agreement), whereby Consultant agreed to provide American Sign Language (ASL) interpretation services performed by qualified ASL interpreters for the deaf and hard-of-hearing for all City Council meetings, and provide such services on an on-call basis for other City meetings such as those of City commissions, committees and boards, for the purpose of ensuring City's compliance with the Americans with Disabilities Act of 1990 and other applicable disability-access related laws and regulations. The Agreement's Contract Sum is $60,000 for a three year term plus two additional extension options for a period of one year each, for an amount not to exceed $20,000 per extended term.

B. Due to higher-than-anticipated demand for ASL interpretation services at commissioner meetings and special events that were named in the original scope but not calculated into the budget, the Contract Sum has been expended faster than anticipated, and unless increased will likely be exhausted prior to the scheduled expiration of the initial three-year term of the Agreement (May 20, 2027).

C. City and Consultant now desire to amend the Agreement to increase the Contract Sum by $95,000, thereby increasing to Contract Sum to $155,000, to authorize additional funding sufficient to cover the anticipated demand for such services through May 20, 2027.

TERMS

1. **Incorporation of Recitals.** The Recitals set forth above are incorporated into and are a part of this Amendment.

2. **Terms and Definitions.** All words, terms, and phrases used or referenced in this Amendment, not expressly defined in this Amendment, shall have the same meaning ascribed to them in the Agreement.

3. **Contract Changes**. The Agreement is amended as provided herein (added text shown in ***bold italics***, deleted text shown in ~~strikethrough~~).

A. Section 2.1 (Contract Sum) is hereby amended to read in its entirety as follows:

"2.1 Contract Sum.

Subject to any limitations set forth in this Agreement, City agrees to pay Consultant the amounts specified in the "Schedule of Compensation" attached here to as Exhibit "C" and incorporated herein by this reference. The total compensation for the initial three year term, including reimbursement for actual expenses, shall not exceed ~~Sixty~~ ***One Hundred Fifty-Five*** Thousand Dollars ($***155,000*** ~~60,000~~) (the "Contract Sum"), unless additional compensation is approved pursuant to Section 1.8. In the event City exercises one or both of its options to extend the Term pursuant to Section 3.4, the total compensation to Consultant for each Extension Term, including reimbursement for actual expenses, shall not exceed Twenty Thousand Dollars ($20,000), unless additional compensation is approved pursuant to Section 1.8."

B. Section VI of Exhibit "C" (Schedule of Compensation) is hereby amended to read in its entirety as follows:

"VI. The total compensation from City for the Services shall not exceed ***$155,000*** ~~$60,000~~, as provided in Section 2.1 of this Agreement."

4. **Continuing Effect of Agreement.** Except as amended by this Amendment, all provisions of the Agreement shall remain unchanged and in full force and effect. From and after the date of this Amendment, whenever the term "Agreement" appears in the Agreement, it shall mean the Agreement, as amended by this Amendment to the Agreement.

5. **Affirmation of Agreement; Warranty Re Absence of Defaults.** City and Consultant each ratify and reaffirm each and every one of the respective rights and obligations arising under the Agreement. Each party represents and warrants to the other that there have been no written or oral modifications to the Agreement other than as provided herein. Each party represents and warrants to the other that the Agreement is currently an effective, valid, and binding obligation.

Consultant represents and warrants to City that, as of the date of this Amendment, City is not in default of any material term of the Agreement and that there have been no events that, with the passing of time or the giving of notice, or both, would constitute a material default under the Agreement.

City represents and warrants to Consultant that, as of the date of this Amendment, Consultant is not in default of any material term of the Agreement and that there have been no events that, with the passing of time or the giving of notice, or both, would constitute a material default under the Agreement.

6. **Adequate Consideration.** The parties hereto irrevocably stipulate and agree that they have each received adequate and independent consideration for the performance of the obligations they have undertaken pursuant to this Amendment.

7. **Authority.** The persons executing this Amendment on behalf of the parties hereto warrant that (i) such party is duly organized and existing, (ii) they are duly authorized to execute

and deliver this Amendment on behalf of said party, (iii) by so executing this Amendment, such party is formally bound to the provisions of this Amendment, and (iv) the entering into this Amendment does not violate any provision of any other agreement to which said party is bound.

8. **Counterparts**. This Amendment may be executed in any number of counterparts and each of such counterparts shall for all purposes be deemed to be an original, whether the signatures are originals, electronic, facsimiles, or digital. All such counterparts shall together constitute but one and the same Amendment.

[SIGNATURES ON FOLLOWING PAGE]

IN WITNESS WHEREOF, the parties hereto have executed this Amendment on the date and year first set forth above.

CITY:

CITY OF CARSON, a municipal corporation

_____
Lula Davis-Holmes, Mayor

ATTEST:

_____
Dr. Khaleah K. Bradshaw, City Clerk

APPROVED AS TO FORM:
ALESHIRE & WYNDER, LLP

_____
Sunny K. Soltani, City Attorney
[pks; rjl]

CONSULTANT:

LANGUAGE NETWORK, INC., a California corporation

By:_____
Name: Jordan Evans
Title: CEO

By:_____
Name: Brenda Rourcke
Title: Business Development Manager

Two corporate officer signatures required for Consultant, with one signature required from each of the following groups: 1) Chairman of the Board, CEO, President or any Vice President; and 2) Secretary, any Assistant Secretary, Chief Financial Officer or any Assistant Treasurer. APPROPRIATE ATTESTATIONS SHALL BE INCLUDED AS MAY BE REQUIRED BY THE BYLAWS, ARTICLES OF INCORPORATION, OR OTHER RULES OR REGULATIONS APPLICABLE TO CONSULTANT'S BUSINESS ENTITY.

CITY OF CARSON

701 East Carson Street

Report to Honorable Mayor and City Council

Tuesday, March 17, 2026, 5:00 PM

CONSENT 18.

To: Honorable Mayor and City Council

From: Debra Scott, Housing Specialist CMO Housing & Neighborhood

Subject: CONSIDER APPROVAL TO AMENDMENT NO. 2 FOR CONTRACT SERVICES WITH MDG ASSOCIATES FOR RESIDENTIAL AND COMMERCIAL FACADE INSPECTIONS AND PROJECT COORDINATION SERVICES (CITY COUNCIL)

I. SUMMARY

The City entered into an Agreement for Contract Services with a consultant on June 21, 2023, for professional services related to housing and commercial rehabilitation programs. The services include inspections, appraisal evaluations, coordination of residential and commercial rehabilitation projects, and administrative and training tasks on an as-needed basis. The original agreement established a three-year term with a total contract amount of $600,000 and included three optional one-year extensions.

On February 6, 2024, the City approved Amendment No. 1, which expanded the consultant's scope of services to include work related to the City's Permanent Local Housing Allocation (PLHA) Residential Rehabilitation Program and modifications related to the Citywide Commercial Façade Improvement Program. Amendment No. 1 increased the contract compensation by $168,250, resulting in a revised contract total of $768,249.00.

Staff has continued to monitor the consultant's performance and is satisfied with the quality and responsiveness of the services being provided. The consultant has effectively supported the implementation and administration of both the Façade Program and the PLHA Residential Rehabilitation Program. To streamline administrative processes and ensure uninterrupted program implementation, staff recommends exercising all three remaining one-year extension options at this time, extending the agreement through June 20, 2029.

The amendment would increase the contract amount by $768,249.99, representing $256,083.33 per year for each of the three extension years, resulting in a new total not-to-exceed contract amount of $1,536,499.99. The agreement will continue to include the City's standard termination provisions, allowing the City to terminate the contract in accordance with standard contractual terms if necessary.

II. RECOMMENDATION

TAKE the following actions:

1. APPROVE the proposed Amendment No. 2 to the Contract Services Agreement with MDG Associates to continue to provide professional services to the City's Housing Division and Community Development Department, increasing the contract amount by by $768,249.99, for a new total not-to-exceed amount of $1,536,499.99, and extend the contract term through June 20, 2029.

2. AUTHORIZE the Mayor to execute the proposed Amendment No. 2, subject to approval as to form by the City Attorney.

III. ALTERNATIVES

TAKE another action as deemed appropriate by the City Council, consistent with applicable legal requirements.

IV. BACKGROUND

On June 21, 2023, the City entered into an Agreement for Contract Services with MDG Associates to provide specialized professional services including inspections, appraisal evaluations, project coordination for residential and commercial rehabilitation projects, and administrative support including training for Department of Housing and Urban Development reporting regulations.

These services support two key City initiatives.

Citywide Commercial Façade Improvement Program

The City Council established the Citywide Commercial Façade Improvement Program pursuant to adopted program guidelines to encourage improvement, stimulation, and revitalization of the exterior facades of existing commercial buildings along various commercial corridors throughout the City.

The program is administered by the City and funded through an authorized $1,000,000 allocation from the City's General Fund, approved by the City Council on June 21, 2022.

The consultant assists the City with inspections, project coordination, and implementation activities necessary to support façade improvement projects under this program.

PLHA Residential Rehabilitation Program

On February 7, 2023, the City Council established the Permanent Local Housing Allocation (PLHA) funded Single-Family Housing Rehabilitation Program. The purpose of the program is to assist income-qualified, owner-occupied single-family homeowners who reside in Carson with needed home rehabilitation improvements. The program is funded through a PLHA grant agreement with the California Department of Housing and Community Development (HCD) in the amount of $529,674.50.

MDG Associates assists with inspections, program coordination, and administrative activities necessary to implement the rehabilitation program and ensure compliance with applicable program requirements.

Amendment No. 1

On February 6, 2024, the City approved Amendment No. 1, which:

- Modified the consultant's scope of services for the Façade Program
- Added services related to the PLHA Residential Rehabilitation Program
- Increased contract compensation by $168,250
- Clarified that the Façade Program is funded by the City's General Fund
- Clarified that the PLHA Residential Rehabilitation Program is funded by the PLHA grant agreement

This amendment increased the contract total to $768,249.00.

Proposed Contract Amendment – Consolidated Extensions

The original agreement includes three optional one-year extensions. Rather than returning annually to exercise each extension separately, staff recommends exercising all three extensions at once in order to streamline operations, maintain continuity of services, and reduce administrative processing.

The proposed amendment would extend the contract term through June 20, 2029.

Staff has reviewed the consultant's performance and confirms that services continue to be delivered effectively and in accordance with program goals. Based on this performance, staff is comfortable recommending the full extension period.

It is important to note that the agreement will continue to include the City's standard termination clause, which preserves the City's right to terminate the contract if necessary.

V. FISCAL IMPACT

The proposed amendment increases the contract amount by $768,249.99, bringing the total not-to-exceed contract amount to $1,536,499.99.

The additional compensation reflects the consolidation of the three remaining one-year extensions and is allocated as follows:

Extension Year 1
June 21, 2026 – June 20, 2027
Amount: $256,083.33

Extension Year 2
June 21, 2027 – June 20, 2028
Amount: $256,083.33

Extension Year 3
June 21, 2028 – June 20, 2029
Amount: $256,083.33

Total Extension Amount: $768,249.99

Funding for the consultant's services come from these budget accounts:

- General Fund: for activities associated with the Citywide Commercial Façade Improvement Program account no. 101-70-701-101-6004
- PLHA Grant Funds: for activities associated with the PLHA Residential Rehabilitation Program account no. 221-50-502-101-6004
- CDBG Grant Funds for activities associated with NPP Rehabilitation Program account no. 215-50-502-964-6062

Sufficient funding is budgeted or will be requested through the City's annual budget process for the applicable program years.

VI. EXHIBITS

1. Current Contract with MDG Associates
2. Amendment No. 1
3. Proposed Amendment No. 2

Attachments

MDG Contract 2023.pdf
Amendment No. 1 MDG contract.pdf
(MDG Associates) Amendment No. 2(2101065.3) 3.17.26 CC Mtg.pdf

CONTRACT SERVICES AGREEMENT

By and Between

CITY OF CARSON

and

MDG ASSOCIATES INC.

EXHIBIT NO. 1

AGREEMENT FOR CONTRACT SERVICES
BETWEEN THE CITY OF CARSON AND
MDG ASSOCIATES INC.

THIS AGREEMENT FOR CONTRACT SERVICES (herein "Agreement") is made and entered into this 21st day of June, 2023 by and between the CITY OF CARSON, a California municipal corporation ("City") and MDG ASSOCIATES INC., a California corporation ("Consultant"). City and Consultant are sometimes hereinafter individually referred to as "Party" and hereinafter collectively referred to as the "Parties."

RECITALS

A. City has sought, by issuance of a Request for Proposals or Invitation for Bids, the performance of the services defined and described particularly in Article 1 of this Agreement.

B. Consultant, following submission of a proposal or bid for the performance of the services defined and described particularly in Article 1 of this Agreement, was selected by the City to perform those services.

C. Pursuant to the City of Carson's Municipal Code, City has authority to enter into and execute this Agreement.

D. The Parties desire to formalize the selection of Consultant for performance of those services defined and described particularly in Article 1 of this Agreement and desire that the terms of that performance be as particularly defined and described herein.

OPERATIVE PROVISIONS

NOW, THEREFORE, in consideration of the mutual promises and covenants made by the Parties and contained herein and other consideration, the value and adequacy of which are hereby acknowledged, the parties agree as follows:

ARTICLE 1. SERVICES OF CONSULTANT

1.1 Scope of Services.

In compliance with all terms and conditions of this Agreement, the Consultant shall provide those services specified in the "Scope of Services" attached hereto as Exhibit "A" and incorporated herein by this reference, which may be referred to herein as the "services" or "work" hereunder. As a material inducement to the City entering into this Agreement, Consultant represents and warrants that it has the qualifications, experience, and facilities necessary to properly perform the services required under this Agreement in a thorough, competent, and professional manner, and is experienced in performing the work and services contemplated herein. Consultant shall at all times faithfully, competently and to the best of its ability, experience and talent, perform all services described herein. Consultant covenants that it shall follow the highest professional standards in performing the work and services required hereunder and that all materials will be both of good quality as well as fit for the purpose intended. For purposes of this Agreement, the phrase "highest

professional standards" shall mean those standards of practice recognized by one or more first-class firms performing similar work under similar circumstances.

1.2 Consultant's Proposal.

The Scope of Service shall include the Consultant's scope of work or bid which shall be incorporated herein by this reference as though fully set forth herein. In the event of any inconsistency between the terms of such proposal and this Agreement, the terms of this Agreement shall govern.

1.3 Compliance with Law.

Consultant shall keep itself informed concerning, and shall render all services hereunder in accordance with, all ordinances, resolutions, statutes, rules, and regulations of the City and any Federal, State or local governmental entity having jurisdiction in effect at the time service is rendered.

1.4 Licenses, Permits, Fees and Assessments.

Consultant shall obtain at its sole cost and expense such licenses, permits and approvals as may be required by law for the performance of the services required by this Agreement. Consultant shall have the sole obligation to pay for any fees, assessments and taxes, plus applicable penalties and interest, which may be imposed by law and arise from or are necessary for the Consultant's performance of the services required by this Agreement, and shall indemnify, defend and hold harmless City, its officers, employees or agents of City, against any such fees, assessments, taxes, penalties or interest levied, assessed or imposed against City hereunder.

1.5 Familiarity with Work.

By executing this Agreement, Consultant warrants that Consultant (i) has thoroughly investigated and considered the scope of services to be performed, (ii) has carefully considered how the services should be performed, and (iii) fully understands the facilities, difficulties and restrictions attending performance of the services under this Agreement. If the services involve work upon any site, Consultant warrants that Consultant has or will investigate the site and is or will be fully acquainted with the conditions there existing, prior to commencement of services hereunder. Should the Consultant discover any latent or unknown conditions, which will materially affect the performance of the services hereunder, Consultant shall immediately inform the City of such fact and shall not proceed except at Consultant's risk until written instructions are received from the Contract Officer.

1.6 Care of Work.

The Consultant shall adopt reasonable methods during the life of the Agreement to furnish continuous protection to the work, and the equipment, materials, papers, documents, plans, studies and/or other components thereof to prevent losses or damages, and shall be responsible for all such damages, to persons or property, until acceptance of the work by City, except such losses or damages as may be caused by City's own negligence.

1.7 Further Responsibilities of Parties.

Both parties agree to use reasonable care and diligence to perform their respective obligations under this Agreement. Both parties agree to act in good faith to execute all instruments, prepare all documents and take all actions as may be reasonably necessary to carry out the purposes of this Agreement. Unless hereafter specified, neither party shall be responsible for the service of the other.

1.8 Additional Services.

City shall have the right at any time during the performance of the services, without invalidating this Agreement, to order extra work beyond that specified in the Scope of Services or make changes by altering, adding to or deducting from said work. No such extra work may be undertaken unless a written order is first given by the Contract Officer to the Consultant, incorporating therein any adjustment in (i) the Contract Sum for the actual costs of the extra work, and/or (ii) the time to perform this Agreement, which said adjustments are subject to the written approval of the Consultant. Any increase in compensation of up to ten percent (10%) of the Contract Sum or $25,000, whichever is less; or, in the time to perform of up to one hundred eighty (180) days, may be approved by the Contract Officer. Any greater increases, taken either separately or cumulatively, must be approved by the City Council. It is expressly understood by Consultant that the provisions of this Section shall not apply to services specifically set forth in the Scope of Services. Consultant hereby acknowledges that it accepts the risk that the services to be provided pursuant to the Scope of Services may be more costly or time consuming than Consultant anticipates and that Consultant shall not be entitled to additional compensation therefor. City may in its sole and absolute discretion have similar work done by other contractors. No claims for an increase in the Contract Sum or time for performance shall be valid unless the procedures established in this Section are followed.

1.9 Special Requirements.

Additional terms and conditions of this Agreement, if any, which are made a part hereof are set forth in the "Special Requirements" attached hereto as Exhibit "B" and incorporated herein by this reference. In the event of a conflict between the provisions of Exhibit "B" and any other provisions of this Agreement, the provisions of Exhibit "B" shall govern.

ARTICLE 2. COMPENSATION AND METHOD OF PAYMENT.

2.1 Contract Sum.

Subject to any limitations set forth in this Agreement, City agrees to pay Consultant the amounts specified in the "Schedule of Compensation" attached hereto as Exhibit "C" and incorporated herein by this reference. The total compensation, including reimbursement for actual expenses, shall not exceed **Six Hundred Thousand Dollars ($600,000)** (the "Contract Sum"), unless additional compensation is approved pursuant to Section 1.8. In the event City elects to exercise its options to extend the Term pursuant to Section 3.4 hereof, the Contract Sum will increase by an amount of **$200,000** per year.

2.2 Method of Compensation.

The method of compensation may include: (i) a lump sum payment upon completion; (ii) payment in accordance with specified tasks or the percentage of completion of the services, less contract retention; (iii) payment for time and materials based upon the Consultant's rates as specified in the Schedule of Compensation, provided that (a) time estimates are provided for the performance of sub tasks, (b) contract retention is maintained, and (c) the Contract Sum is not exceeded; or (iv) such other methods as may be specified in the Schedule of Compensation.

2.3 Reimbursable Expenses.

Compensation may include reimbursement for actual and necessary expenditures for reproduction costs, telephone expenses, and travel expenses approved by the Contract Officer in advance, or actual subcontractor expenses of an approved subcontractor pursuant to Section 4.5, and only if specified in the Schedule of Compensation. The Contract Sum shall include the attendance of Consultant at all project meetings reasonably deemed necessary by the City. Coordination of the performance of the work with City is a critical component of the services. If Consultant is required to attend additional meetings to facilitate such coordination, Consultant shall not be entitled to any additional compensation for attending said meetings.

2.4 Invoices.

Each month Consultant shall furnish to City an original invoice for all work performed and expenses incurred during the preceding month in a form approved by City's Director of Finance. By submitting an invoice for payment under this Agreement, Consultant is certifying compliance with all provisions of the Agreement. The invoice shall detail charges for all necessary and actual expenses by the following categories: labor (by sub-category), travel, materials, equipment, supplies, and sub-contractor contracts. Sub-contractor charges shall also be detailed by such categories. Consultant shall not invoice City for any duplicate services performed by more than one person.

City shall independently review each invoice submitted by the Consultant to determine whether the work performed and expenses incurred are in compliance with the provisions of this Agreement. Except as to any charges for work performed or expenses incurred by Consultant which are disputed by City, or as provided in Section 7.3, City will use its best efforts to cause Consultant to be paid within forty-five (45) days of receipt of Consultant's correct and undisputed invoice; however, Consultant acknowledges and agrees that due to City warrant run procedures, the City cannot guarantee that payment will occur within this time period. In the event any charges or expenses are disputed by City, the original invoice shall be returned by City to Consultant for correction and resubmission. Review and payment by City for any invoice provided by the Consultant shall not constitute a waiver of any rights or remedies provided herein or any applicable law.

2.5 Waiver.

Payment to Consultant for work performed pursuant to this Agreement shall not be deemed to waive any defects in work performed by Consultant.

ARTICLE 3. PERFORMANCE SCHEDULE

3.1 Time of Essence.

Time is of the essence in the performance of this Agreement.

3.2 Schedule of Performance.

Consultant shall commence the services pursuant to this Agreement upon receipt of a written notice to proceed and shall perform all services within the time period(s) established in the "Schedule of Performance" attached hereto as Exhibit "D" and incorporated herein by this reference. When requested by the Consultant, extensions to the time period(s) specified in the Schedule of Performance may be approved in writing by the Contract Officer but not exceeding one hundred eighty (180) days cumulatively.

3.3 Force Majeure.

The time period(s) specified in the Schedule of Performance for performance of the services rendered pursuant to this Agreement shall be extended because of any delays due to unforeseeable causes beyond the control and without the fault or negligence of the Consultant, including, but not restricted to, acts of God or of the public enemy, unusually severe weather, fires, earthquakes, floods, epidemics, quarantine restrictions, riots, strikes, freight embargoes, wars, litigation, and/or acts of any governmental agency, including the City, if the Consultant shall within ten (10) days of the commencement of such delay notify the Contract Officer in writing of the causes of the delay. The Contract Officer shall ascertain the facts and the extent of delay, and extend the time for performing the services for the period of the enforced delay when and if in the judgment of the Contract Officer such delay is justified. The Contract Officer's determination shall be final and conclusive upon the parties to this Agreement. In no event shall Consultant be entitled to recover damages against the City for any delay in the performance of this Agreement, however caused, Consultant's sole remedy being extension of the Agreement pursuant to this Section.

3.4 Term.

Unless earlier terminated in accordance with Article 7 of this Agreement, this Agreement shall continue in full force and effect until completion of the services but not exceeding one (1) years from the date hereof, except as otherwise provided in the Schedule of Performance (Exhibit "D").

ARTICLE 4. COORDINATION OF WORK

4.1 Representatives and Personnel of Consultant.

The following principals of Consultant ("Principals") are hereby designated as being the principals and representatives of Consultant authorized to act in its behalf with respect to the work specified herein and make all decisions in connection therewith:

Rudy Munoz	President
(Name)	(Title)

(Name)	(Title)
(Name)	(Title)

It is expressly understood that the experience, knowledge, capability and reputation of the foregoing principals were a substantial inducement for City to enter into this Agreement. Therefore, the foregoing principals shall be responsible during the term of this Agreement for directing all activities of Consultant and devoting sufficient time to personally supervise the services hereunder. All personnel of Consultant, and any authorized agents, shall at all times be under the exclusive direction and control of the Principals. For purposes of this Agreement, the foregoing Principals may not be replaced nor may their responsibilities be substantially reduced by Consultant without the express written approval of City. Additionally, Consultant shall utilize only competent personnel to perform services pursuant to this Agreement. Consultant shall make every reasonable effort to maintain the stability and continuity of Consultant's staff and subcontractors, if any, assigned to perform the services required under this Agreement. Consultant shall notify City of any changes in Consultant's staff and subcontractors, if any, assigned to perform the services required under this Agreement, prior to and during any such performance.

4.2 Status of Consultant.

Consultant shall have no authority to bind City in any manner, or to incur any obligation, debt or liability of any kind on behalf of or against City, whether by contract or otherwise, unless such authority is expressly conferred under this Agreement or is otherwise expressly conferred in writing by City. Consultant shall not at any time or in any manner represent that Consultant or any of Consultant's officers, employees, or agents are in any manner officials, officers, employees or agents of City. Neither Consultant, nor any of Consultant's officers, employees or agents, shall obtain any rights to retirement, health care or any other benefits which may otherwise accrue to City's employees. Consultant expressly waives any claim Consultant may have to any such rights.

4.3 Contract Officer.

The Contract Officer shall be Robert Lennox, Assistant City Manager. It shall be the Consultant's responsibility to assure that the Contract Officer is kept informed of the progress of the performance of the services and the Consultant shall refer any decisions which must be made by City to the Contract Officer. Unless otherwise specified herein, any approval of City required hereunder shall mean the approval of the Contract Officer. The Contract Officer shall have authority, if specified in writing by the City Manager, to sign all documents on behalf of the City required hereunder to carry out the terms of this Agreement.

4.4 Independent Consultant.

Neither the City nor any of its employees shall have any control over the manner, mode or means by which Consultant, its agents or employees, perform the services required herein, except as otherwise set forth herein. City shall have no voice in the selection, discharge, supervision or control of Consultant's employees, servants, representatives or agents, or in fixing their number, compensation or hours of service. Consultant shall perform all services required herein as an

independent contractor of City and shall remain at all times as to City a wholly independent contractor with only such obligations as are consistent with that role. Consultant shall not at any time or in any manner represent that it or any of its agents or employees are agents or employees of City. City shall not in any way or for any purpose become or be deemed to be a partner of Consultant in its business or otherwise or a joint venturer or a member of any joint enterprise with Consultant.

4.5 Prohibition Against Subcontracting or Assignment.

The experience, knowledge, capability and reputation of Consultant, its principals and employees were a substantial inducement for the City to enter into this Agreement. Therefore, Consultant shall not contract with any other entity to perform in whole or in part the services required hereunder without the express written approval of the City. In addition, neither this Agreement nor any interest herein may be transferred, assigned, conveyed, hypothecated or encumbered voluntarily or by operation of law, whether for the benefit of creditors or otherwise, without the prior written approval of City. Transfers restricted hereunder shall include the transfer to any person or group of persons acting in concert of more than twenty five percent (25%) of the present ownership and/or control of Consultant, taking all transfers into account on a cumulative basis. In the event of any such unapproved transfer, including any bankruptcy proceeding, this Agreement shall be void. No approved transfer shall release the Consultant or any surety of Consultant of any liability hereunder without the express consent of City.

ARTICLE 5. INSURANCE AND INDEMNIFICATION

5.1 Insurance Coverages.

The Consultant shall procure and maintain, at its sole cost and expense, in a form and content satisfactory to City, during the entire term of this Agreement including any extension thereof, the following policies of insurance which shall cover all elected and appointed officers, employees and agents of City:

(a) General Liability Insurance (Coverage Form ISO CGL CG 00 01 or equivalent). A policy of comprehensive general liability insurance written on a per occurrence basis for bodily injury, personal injury and property damage. The policy of insurance shall be in an amount not less than $1,000,000.00 per occurrence or if a general aggregate limit is used, then the general aggregate limit shall be twice the occurrence limit.

(b) Worker's Compensation Insurance. A policy of worker's compensation insurance in such amount as will fully comply with the laws of the State of California and which shall indemnify, insure and provide legal defense for the Consultant against any loss, claim or damage arising from any injuries or occupational diseases occurring to any worker employed by or any persons retained by the Consultant in the course of carrying out the work or services contemplated in this Agreement, with Employer's Liability insurance coverage limits of at least $1,000,000.00.

(c) Automotive Insurance (Coverage Form ISO CA 00 01 including "any auto" and endorsement CA 0025 or equivalent). A policy of comprehensive automobile liability insurance written on a per occurrence for bodily injury and property damage in an amount not less

than $1,000,000. Said policy shall include coverage for owned, non-owned, leased, hired cars and any automobile.

(d) Professional Liability. Professional liability insurance appropriate to the Consultant's profession, as determined by the City's Risk Manager, provided that the limits shall be no less than $1,000,000 per claim and no less than $1,000,000 general aggregate. This coverage may be written on a "claims made" basis, and must include coverage for contractual liability. The professional liability insurance required by this Agreement must be endorsed to be applicable to claims based upon, arising out of or related to services performed under this Agreement. The insurance must be maintained for at least 5 consecutive years following the completion of Consultant's services or the termination of this Agreement. During this additional 5-year period, Consultant shall annually and upon request of the City submit written evidence of this continuous coverage.

(e) Subcontractors. Consultant shall include all subcontractors as insureds under its policies or shall furnish separate certificates and certified endorsements for each subcontractor. All coverages for subcontractors shall include all of the requirements stated herein.

(f) Additional Insurance. Policies of such other insurance, as may be required in the Special Requirements in Exhibit "B".

(g) Broader Coverages and Higher Limits. Notwithstanding anything else herein to the contrary, if Consultant maintains broader coverages and/or higher limits than the minimums shown above, the City requires and shall be entitled to the broader coverages and/or higher limits maintained by Consultant.

5.2 General Insurance Requirements.

All of the above policies of insurance shall be primary insurance and shall name the City, its elected and appointed officers, employees and agents as additional insureds and any insurance maintained by City or its officers, employees or agents may apply in excess of, and not contribute with Consultant's insurance. The insurer is deemed hereof to waive all rights of subrogation and contribution it may have against the City, its officers, employees and agents and their respective insurers. Moreover, the insurance policy must specify that where the primary insured does not satisfy the self-insured retention, any additional insured may satisfy the self-insured retention.

All of said policies of insurance shall provide that said insurance may not be amended or cancelled by the insurer or any party hereto without providing thirty (30) days prior written notice by certified mail return receipt requested to the City. In the event any of said policies of insurance are cancelled, the Consultant shall, prior to the cancellation date, submit new evidence of insurance in conformance with Section 5.1 to the Contract Officer.

No work or services under this Agreement shall commence until the Consultant has provided the City with Certificates of Insurance, additional insured endorsement forms or appropriate insurance binders evidencing the above insurance coverages and said Certificates of Insurance or binders are approved by the City. City reserves the right to inspect complete, certified copies of and endorsements to all required insurance policies at any time. Any failure to comply

with the reporting or other provisions of the policies including breaches or warranties shall not affect coverage provided to City.

All certificates shall name the City as additional insured (providing the appropriate endorsement) and shall conform to the following "cancellation" notice:

> CANCELLATION:
>
> SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATED THEREOF, THE ISSUING COMPANY SHALL MAIL THIRTY (30)-DAY ADVANCE WRITTEN NOTICE TO CERTIFICATE HOLDER NAMED HEREIN.
>
> [to be initialed] _____
> Consultant Initials

City, its respective elected and appointed officers, directors, officials, employees, agents and volunteers are to be covered as additional insureds as respects: liability arising out of activities Consultant performs; products and completed operations of Consultant; premises owned, occupied or used by Consultant; or any automobiles owned, leased, hired or borrowed by Consultant. The coverage shall contain no special limitations on the scope of protection afforded to City, and their respective elected and appointed officers, officials, employees or volunteers. Consultant's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.

Any deductibles or self-insured retentions must be declared to and approved by City. At the option of City, either the insurer shall reduce or eliminate such deductibles or self-insured retentions as respects City or its respective elected or appointed officers, officials, employees and volunteers or the Consultant shall procure a bond guaranteeing payment of losses and related investigations, claim administration, defense expenses and claims. The Consultant agrees that the requirement to provide insurance shall not be construed as limiting in any way the extent to which the Consultant may be held responsible for the payment of damages to any persons or property resulting from the Consultant's activities or the activities of any person or persons for which the Consultant is otherwise responsible nor shall it limit the Consultant's indemnification liabilities as provided in Section 5.3.

In the event the Consultant subcontracts any portion of the work in compliance with Section 4.5 of this Agreement, the contract between the Consultant and such subcontractor shall require the subcontractor to maintain the same policies of insurance that the Consultant is required to maintain pursuant to Section 5.1, and such certificates and endorsements shall be provided to City.

5.3 Indemnification.

To the full extent permitted by law, Consultant agrees to indemnify, defend and hold harmless the City, its officers, employees and agents ("Indemnified Parties") against, and will hold and save them and each of them harmless from, any and all actions, either judicial, administrative,

arbitration or regulatory claims, damages to persons or property, losses, costs, penalties, obligations, errors, omissions or liabilities whether actual or threatened (herein "claims or liabilities") that may be asserted or claimed by any person, firm or entity arising out of or in connection with the negligent performance of the work, operations or activities provided herein of Consultant, its officers, employees, agents, subcontractors, or invitees, or any individual or entity for which Consultant is legally liable ("indemnitors"), or arising from Consultant's or indemnitors' reckless or willful misconduct, or arising from Consultant's or indemnitors' negligent performance of or failure to perform any term, provision, covenant or condition of this Agreement, and in connection therewith:

(a) Consultant will defend any action or actions filed in connection with any of said claims or liabilities and will pay all costs and expenses, including legal costs and attorneys' fees incurred in connection therewith;

(b) Consultant will promptly pay any judgment rendered against the City, its officers, agents or employees for any such claims or liabilities arising out of or in connection with the negligent performance of or failure to perform such work, operations or activities of Consultant hereunder; and Consultant agrees to save and hold the City, its officers, agents, and employees harmless therefrom;

(c) In the event the City, its officers, agents or employees is made a party to any action or proceeding filed or prosecuted against Consultant for such damages or other claims arising out of or in connection with the negligent performance of or failure to perform the work, operation or activities of Consultant hereunder, Consultant agrees to pay to the City, its officers, agents or employees, any and all costs and expenses incurred by the City, its officers, agents or employees in such action or proceeding, including but not limited to, legal costs and attorneys' fees.

Consultant shall incorporate similar indemnity agreements with its subcontractors and if it fails to do so Consultant shall be fully responsible to indemnify City hereunder therefore, and failure of City to monitor compliance with these provisions shall not be a waiver hereof. This indemnification includes claims or liabilities arising from any negligent or wrongful act, error or omission, or reckless or willful misconduct of Consultant in the performance of professional services hereunder. The provisions of this Section do not apply to claims or liabilities occurring as a result of City's sole negligence or willful acts or omissions, but, to the fullest extent permitted by law, shall apply to claims and liabilities resulting in part from City's negligence, except that design professionals' indemnity hereunder shall be limited to claims and liabilities arising out of the negligence, recklessness or willful misconduct of the design professional. The indemnity obligation shall be binding on successors and assigns of Consultant and shall survive termination of this Agreement.

5.4 Sufficiency of Insurer.

Insurance required by this Agreement shall be satisfactory only if issued by companies qualified to do business in California, rated "A-" or better in the most recent edition of Best Rating Guide, The Key Rating Guide or in the Federal Register, and only if they are of a financial category Class VII or better, unless such requirements are waived by the Risk Manager of the City ("Risk

Manager") due to unique circumstances. If this Agreement continues for more than 3 years duration, or in the event the risk manager determines that the work or services to be performed under this Agreement creates an increased or decreased risk of loss to the City, the Consultant agrees that the minimum limits of the insurance policies may be changed accordingly upon receipt of written notice from the Risk Manager.

ARTICLE 6. RECORDS, REPORTS, AND RELEASE OF INFORMATION

6.1 Records.

Consultant shall keep, and require subcontractors to keep, such ledgers, books of accounts, invoices, vouchers, canceled checks, reports, studies or other documents relating to the disbursements charged to City and services performed hereunder (the "books and records"), as shall be necessary to perform the services required by this Agreement and enable the Contract Officer to evaluate the performance of such services. Any and all such documents shall be maintained in accordance with generally accepted accounting principles and shall be complete and detailed. The Contract Officer shall have full and free access to such books and records at all times during normal business hours of City, including the right to inspect, copy, audit and make records and transcripts from such records. Such records shall be maintained for a period of three (3) years following completion of the services hereunder, and the City shall have access to such records in the event any audit is required. In the event of dissolution of Consultant's business, custody of the books and records may be given to City, and access shall be provided by Consultant's successor in interest. Notwithstanding the above, the Consultant shall fully cooperate with the City in providing access to the books and records if a public records request is made and disclosure is required by law including but not limited to the California Public Records Act.

6.2 Reports.

Consultant shall periodically prepare and submit to the Contract Officer such reports concerning the performance of the services required by this Agreement as the Contract Officer shall require. Consultant hereby acknowledges that the City is greatly concerned about the cost of work and services to be performed pursuant to this Agreement. For this reason, Consultant agrees that if Consultant becomes aware of any facts, circumstances, techniques, or events that may or will materially increase or decrease the cost of the work or services contemplated herein or, if Consultant is providing design services, the cost of the project being designed, Consultant shall promptly notify the Contract Officer of said fact, circumstance, technique or event and the estimated increased or decreased cost related thereto and, if Consultant is providing design services, the estimated increased or decreased cost estimate for the project being designed.

6.3 Ownership of Documents.

All drawings, specifications, maps, designs, photographs, studies, surveys, data, notes, computer files, reports, records, documents and other materials (the "documents and materials") prepared by Consultant, its employees, subcontractors and agents in the performance of this Agreement shall be the property of City and shall be delivered to City upon request of the Contract Officer or upon the termination of this Agreement, and Consultant shall have no claim for further employment or additional compensation as a result of the exercise by City of its full rights of

ownership use, reuse, or assignment of the documents and materials hereunder. Any use, reuse or assignment of such completed documents for other projects and/or use of uncompleted documents without specific written authorization by the Consultant will be at the City's sole risk and without liability to Consultant, and Consultant's guarantee and warranties shall not extend to such use, reuse or assignment. Consultant may retain copies of such documents for its own use. Consultant shall have the right to use the concepts embodied therein. All subcontractors shall provide for assignment to City of any documents or materials prepared by them, and in the event Consultant fails to secure such assignment, Consultant shall indemnify City for all damages resulting therefrom. Moreover, with respect to any documents and materials that may qualify as "works made for hire" as defined in 17 U.S.C. § 101, such documents and materials are hereby deemed "works made for hire" for the City.

6.4 Confidentiality and Release of Information.

(a) All information gained or work product produced by Consultant in performance of this Agreement shall be considered confidential, unless such information is in the public domain or already known to Consultant. Consultant shall not release or disclose any such information or work product to persons or entities other than City without prior written authorization from the Contract Officer.

(b) Consultant, its officers, employees, agents or subcontractors, shall not, without prior written authorization from the Contract Officer or unless requested by the City Attorney, voluntarily provide documents, declarations, letters of support, testimony at depositions, response to interrogatories or other information concerning the work performed under this Agreement. Response to a subpoena or court order shall not be considered "voluntary" provided Consultant gives City notice of such court order or subpoena.

(c) If Consultant, or any officer, employee, agent or subcontractor of Consultant, provides any information or work product in violation of this Agreement, then City shall have the right to reimbursement and indemnity from Consultant for any damages, costs and fees, including attorneys fees, caused by or incurred as a result of Consultant's conduct.

(d) Consultant shall promptly notify City should Consultant, its officers, employees, agents or subcontractors be served with any summons, complaint, subpoena, notice of deposition, request for documents, interrogatories, request for admissions or other discovery request, court order or subpoena from any party regarding this Agreement and the work performed there under. City retains the right, but has no obligation, to represent Consultant or be present at any deposition, hearing or similar proceeding. Consultant agrees to cooperate fully with City and to provide City with the opportunity to review any response to discovery requests provided by Consultant. However, this right to review any such response does not imply or mean the right by City to control, direct, or rewrite said response.

ARTICLE 7. ENFORCEMENT OF AGREEMENT AND TERMINATION

7.1 California Law.

This Agreement shall be interpreted, construed and governed both as to validity and to performance of the parties in accordance with the laws of the State of California. Legal actions

concerning any dispute, claim or matter arising out of or in relation to this Agreement shall be instituted in the Superior Court of the County of Los Angeles, State of California, or any other appropriate court in such county, and Consultant covenants and agrees to submit to the personal jurisdiction of such court in the event of such action. In the event of litigation in a U.S. District Court, venue shall lie exclusively in the Central District of California, in the County of Los Angeles, State of California.

7.2 Disputes; Default.

In the event that Consultant is in default under the terms of this Agreement, the City shall not have any obligation or duty to continue compensating Consultant for any work performed after the date of default. Instead, the City may give notice to Consultant of the default and the reasons for the default. The notice shall include the timeframe in which Consultant may cure the default. This timeframe is presumptively thirty (30) days, but may be extended, though not reduced, if circumstances warrant. During the period of time that Consultant is in default, the City shall hold all invoices and shall, when the default is cured, proceed with payment on the invoices. In the alternative, the City may, in its sole discretion, elect to pay some or all of the outstanding invoices during the period of default. If Consultant does not cure the default, the City may take necessary steps to terminate this Agreement under this Article. Any failure on the part of the City to give notice of the Consultant's default shall not be deemed to result in a waiver of the City's legal rights or any rights arising out of any provision of this Agreement.

7.3 Retention of Funds.

Consultant hereby authorizes City to deduct from any amount payable to Consultant (whether or not arising out of this Agreement) (i) any amounts the payment of which may be in dispute hereunder or which are necessary to compensate City for any losses, costs, liabilities, or damages suffered by City, and (ii) all amounts for which City may be liable to third parties, by reason of Consultant's acts or omissions in performing or failing to perform Consultant's obligation under this Agreement. In the event that any claim is made by a third party, the amount or validity of which is disputed by Consultant, or any indebtedness shall exist which shall appear to be the basis for a claim of lien, City may withhold from any payment due, without liability for interest because of such withholding, an amount sufficient to cover such claim. The failure of City to exercise such right to deduct or to withhold shall not, however, affect the obligations of the Consultant to insure, indemnify, and protect City as elsewhere provided herein.

7.4 Waiver.

Waiver by any party to this Agreement of any term, condition, or covenant of this Agreement shall not constitute a waiver of any other term, condition, or covenant. Waiver by any party of any breach of the provisions of this Agreement shall not constitute a waiver of any other provision or a waiver of any subsequent breach or violation of any provision of this Agreement. Acceptance by City of any work or services by Consultant shall not constitute a waiver of any of the provisions of this Agreement. No delay or omission in the exercise of any right or remedy by a non-defaulting party on any default shall impair such right or remedy or be construed as a waiver. Any waiver by either party of any default must be in writing and shall not be a waiver of any other default concerning the same or any other provision of this Agreement.

7.5 Rights and Remedies are Cumulative.

Except with respect to rights and remedies expressly declared to be exclusive in this Agreement, the rights and remedies of the parties are cumulative and the exercise by either party of one or more of such rights or remedies shall not preclude the exercise by it, at the same or different times, of any other rights or remedies for the same default or any other default by the other party.

7.6 Legal Action.

In addition to any other rights or remedies, either party may take legal action, in law or in equity, to cure, correct or remedy any default, to recover damages for any default, to compel specific performance of this Agreement, to obtain declaratory or injunctive relief, or to obtain any other remedy consistent with the purposes of this Agreement. Notwithstanding any contrary provision herein, Consultant shall file a statutory claim pursuant to Government Code Sections 905 et. seq. and 910 et. seq., in order to pursue a legal action under this Agreement.

7.7 Termination Prior to Expiration of Term.

This Section shall govern any termination of this Contract except as specifically provided in the following Section for termination for cause. The City reserves the right to terminate this Contract at any time, with or without cause, upon thirty (30) days' written notice to Consultant, except that where termination is due to the fault of the Consultant, the period of notice may be such shorter time as may be determined by the Contract Officer. In addition, the Consultant reserves the right to terminate this Contract at any time, with or without cause, upon sixty (60) days' written notice to City, except that where termination is due to the fault of the City, the period of notice may be such shorter time as the Consultant may determine. Upon receipt of any notice of termination, Consultant shall immediately cease all services hereunder except such as may be specifically approved by the Contract Officer. Except where the Consultant has initiated termination, the Consultant shall be entitled to compensation for all services rendered prior to the effective date of the notice of termination and for any services authorized by the Contract Officer thereafter in accordance with the Schedule of Compensation or such as may be approved by the Contract Officer, except as provided in Section 7.3. In the event the Consultant has initiated termination, the Consultant shall be entitled to compensation only for the reasonable value of the work product actually produced hereunder. In the event of termination without cause pursuant to this Section, the terminating party need not provide the non-terminating party with the opportunity to cure pursuant to Section 7.2.

7.8 Termination for Default of Consultant.

If termination is due to the failure of the Consultant to fulfill its obligations under this Agreement, City may, after compliance with the provisions of Section 7.2, take over the work and prosecute the same to completion by contract or otherwise, and the Consultant shall be liable to the extent that the total cost for completion of the services required hereunder exceeds the compensation herein stipulated (provided that the City shall use reasonable efforts to mitigate such damages), and City may withhold any payments to the Consultant for the purpose of set-off or partial payment of the amounts owed the City as previously stated.

7.9 Attorneys' Fees.

If either party to this Agreement is required to initiate or defend or made a party to any action or proceeding in any way connected with this Agreement, the prevailing party in such action or proceeding, in addition to any other relief which may be granted, whether legal or equitable, shall be entitled to reasonable attorney's fees. Attorney's fees shall include attorney's fees on any appeal, and in addition a party entitled to attorney's fees shall be entitled to all other reasonable costs for investigating such action, taking depositions and discovery and all other necessary costs the court allows which are incurred in such litigation. All such fees shall be deemed to have accrued on commencement of such action and shall be enforceable whether or not such action is prosecuted to judgment.

ARTICLE 8. CITY OFFICERS AND EMPLOYEES: NON-DISCRIMINATION

8.1 Non-liability of City Officers and Employees.

No officer or employee of the City shall be personally liable to the Consultant, or any successor in interest, in the event of any default or breach by the City or for any amount which may become due to the Consultant or to its successor, or for breach of any obligation of the terms of this Agreement.

8.2 Conflict of Interest.

Consultant covenants that neither it, nor any officer or principal of its firm, has or shall acquire any interest, directly or indirectly, which would conflict in any manner with the interests of City or which would in any way hinder Consultant's performance of services under this Agreement. Consultant further covenants that in the performance of this Agreement, no person having any such interest shall be employed by it as an officer, employee, agent or subcontractor without the express written consent of the Contract Officer. Consultant agrees to at all times avoid conflicts of interest or the appearance of any conflicts of interest with the interests of City in the performance of this Agreement.

No officer or employee of the City shall have any financial interest, direct or indirect, in this Agreement nor shall any such officer or employee participate in any decision relating to the Agreement which affects her/his financial interest or the financial interest of any corporation, partnership or association in which (s)he is, directly or indirectly, interested, in violation of any State statute or regulation. The Consultant warrants that it has not paid or given and will not pay or give any third party any money or other consideration for obtaining this Agreement.

8.3 Covenant Against Discrimination.

Consultant covenants that, by and for itself, its heirs, executors, assigns, and all persons claiming under or through them, that there shall be no discrimination against or segregation of, any person or group of persons on account of race, color, creed, religion, sex, gender, sexual orientation, marital status, national origin, ancestry or other protected class in the performance of this Agreement. Consultant shall take affirmative action to insure that applicants are employed and that employees are treated during employment without regard to their race, color, creed, religion, sex, gender, sexual orientation, marital status, national origin, ancestry or other protected class.

8.4 Unauthorized Aliens.

Consultant hereby promises and agrees to comply with all of the provisions of the Federal Immigration and Nationality Act, 8 U.S.C.A. §§ 1101, *et seq.*, as amended, and in connection therewith, shall not employ unauthorized aliens as defined therein. Should Consultant so employ such unauthorized aliens for the performance of work and/or services covered by this Agreement, and should any liability or sanctions be imposed against City for such use of unauthorized aliens, Consultant hereby agrees to and shall reimburse City for the cost of all such liabilities or sanctions imposed, together with any and all costs, including attorneys' fees, incurred by City.

ARTICLE 9. MISCELLANEOUS PROVISIONS

9.1 Notices.

Any notice, demand, request, document, consent, approval, or communication either party desires or is required to give to the other party or any other person shall be in writing and either served personally or sent by prepaid, first-class mail, in the case of the City, to the City Manager and to the attention of the Contract Officer (with her/his name and City title), City of Carson, 701 East Carson, Carson, California 90745 and in the case of the Consultant, to the person(s) at the address designated on the execution page of this Agreement. Either party may change its address by notifying the other party of the change of address in writing. Notice shall be deemed communicated at the time personally delivered or in seventy-two (72) hours from the time of mailing if mailed as provided in this Section.

9.2 Interpretation.

The terms of this Agreement shall be construed in accordance with the meaning of the language used and shall not be construed for or against either party by reason of the authorship of this Agreement or any other rule of construction which might otherwise apply.

9.3 Counterparts.

This Agreement may be executed in any number of counterparts and each of such counterparts shall for all purposes be deemed to be an original, whether the signatures are originals, electronic, facsimiles or digital. All such counterparts shall together constitute but one and the same Agreement.

9.4 Integration; Amendment.

This Agreement including the attachments hereto is the entire, complete and exclusive expression of the understanding of the parties. It is understood that there are no oral agreements between the parties hereto affecting this Agreement and this Agreement supersedes and cancels any and all previous negotiations, arrangements, agreements and understandings, if any, between the parties, and none shall be used to interpret this Agreement. No amendment to or modification of this Agreement shall be valid unless made in writing and approved by the Consultant and by the City Council. The parties agree that this requirement for written modifications cannot be waived and that any attempted waiver shall be void.

9.5 Severability.

In the event that any one or more of the phrases, sentences, clauses, paragraphs, or sections contained in this Agreement shall be declared invalid or unenforceable by a valid judgment or decree of a court of competent jurisdiction, such invalidity or unenforceability shall not affect any of the remaining phrases, sentences, clauses, paragraphs, or sections of this Agreement which are hereby declared as severable and shall be interpreted to carry out the intent of the parties hereunder unless the invalid provision is so material that its invalidity deprives either party of the basic benefit of their bargain or renders this Agreement meaningless.

9.6 Warranty & Representation of Non-Collusion.

No official, officer, or employee of City has any financial interest, direct or indirect, in this Agreement, nor shall any official, officer, or employee of City participate in any decision relating to this Agreement which may affect his/her financial interest or the financial interest of any corporation, partnership, or association in which (s)he is directly or indirectly interested, or in violation of any corporation, partnership, or association in which (s)he is directly or indirectly interested, or in violation of any State or municipal statute or regulation. The determination of "financial interest" shall be consistent with State law and shall not include interests found to be "remote" or "non-interests" pursuant to Government Code Sections 1091 or 1091.5. Consultant warrants and represents that it has not paid or given, and will not pay or give, to any third party including, but not limited to, any City official, officer, or employee, any money, consideration, or other thing of value as a result or consequence of obtaining or being awarded any agreement. Consultant further warrants and represents that (s)he/it has not engaged in any act(s), omission(s), or other conduct or collusion that would result in the payment of any money, consideration, or other thing of value to any third party including, but not limited to, any City official, officer, or employee, as a result of consequence of obtaining or being awarded any agreement. Consultant is aware of and understands that any such act(s), omission(s) or other conduct resulting in such payment of money, consideration, or other thing of value will render this Agreement void and of no force or effect.

Consultant's Authorized Initials

9.7 Corporate Authority.

The persons executing this Agreement on behalf of the parties hereto warrant that (i) such party is duly organized and existing, (ii) they are duly authorized to execute and deliver this Agreement on behalf of said party, (iii) by so executing this Agreement, such party is formally bound to the provisions of this Agreement, and (iv) the entering into this Agreement does not violate any provision of any other Agreement to which said party is bound. This Agreement shall be binding upon the heirs, executors, administrators, successors and assigns of the parties.

[SIGNATURES ON FOLLOWING PAGE]

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the date and year first-above written.

CITY:

CITY OF CARSON, a municipal corporation

Lula Davis-Holmes, Mayor

ATTEST:

Kourtney Cullors
Chief Deputy
City Clerk

For Dr. Khaleah R. Bradshaw, City Clerk

APPROVED AS TO FORM:
ALESHIRE & WYNDER, LLP

Sunny K. Soltani, City Attorney
[rjl]

CONSULTANT:

MDG ASSOCIATES INC., a California corporation

By: _____
Name: Rudy Munoz
Title: President

By: _____
Name: Guadalupe Munoz
Title: CFO
Address: 10722 Arrow Route, Suite 822
Rancho Cucamonga, CA 91730

Two corporate officer signatures required when Consultant is a corporation, with one signature required from each of the following groups: 1) Chairman of the Board, President or any Vice President; and 2) Secretary, any Assistant Secretary, Chief Financial Officer or any Assistant Treasurer. CONSULTANT'S SIGNATURES SHALL BE DULY NOTARIZED, AND APPROPRIATE ATTESTATIONS SHALL BE INCLUDED AS MAY BE REQUIRED BY THE BYLAWS, ARTICLES OF INCORPORATION, OR OTHER RULES OR REGULATIONS APPLICABLE TO CONSULTANT'S BUSINESS ENTITY.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the date and year first-above written.

CITY:

CITY OF CARSON, a municipal corporation

_____
Lula Davis-Holmes, Mayor

ATTEST:

_____
Dr. Khaleah R. Bradshaw, City Clerk

APPROVED AS TO FORM:
ALESHIRE & WYNDER, LLP

_____
Sunny K. Soltani, City Attorney
[rjl]

CONSULTANT:

MDG ASSOCIATES INC., a California corporation

By:_____
Name: Rudy Munoz
Title: President

By:_____
Name: Guadalupe Munoz
Title: CFO
Address: 10722 Arrow Route, Suite 822
Rancho Cucamonga, CA 91730

Two corporate officer signatures required when Consultant is a corporation, with one signature required from each of the following groups: 1) Chairman of the Board, President or any Vice President; and 2) Secretary, any Assistant Secretary, Chief Financial Officer or any Assistant Treasurer. CONSULTANT'S SIGNATURES SHALL BE DULY NOTARIZED, AND APPROPRIATE ATTESTATIONS SHALL BE INCLUDED AS MAY BE REQUIRED BY THE BYLAWS, ARTICLES OF INCORPORATION, OR OTHER RULES OR REGULATIONS APPLICABLE TO CONSULTANT'S BUSINESS ENTITY.

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy or validity of that document.

STATE OF CALIFORNIA

COUNTY OF LOS ANGELES

On 06/09, 2023 before me, JUAN C. RIOS, personally appeared RUDY MUÑOZ, proved to me on the basis of satisfactory evidence to be the person(s) whose names(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: _____

JUAN C. RIOS
Notary Public - California
San Bernardino County
Commission # 2402181
My Comm. Expires May 11, 2026

OPTIONAL

Though the data below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent reattachment of this form.

CAPACITY CLAIMED BY SIGNER

- ☐ INDIVIDUAL
- ☐ CORPORATE OFFICER

_____
TITLE(S)

- ☐ PARTNER(S) ☐ LIMITED ☐ GENERAL
- ☐ ATTORNEY-IN-FACT
- ☐ TRUSTEE(S)
- ☐ GUARDIAN/CONSERVATOR
- ☐ OTHER_____

SIGNER IS REPRESENTING:
(NAME OF PERSON(S) OR ENTITY(IES))

_____

_____

DESCRIPTION OF ATTACHED DOCUMENT

_____
TITLE OR TYPE OF DOCUMENT

_____
NUMBER OF PAGES

_____
DATE OF DOCUMENT

_____
SIGNER(S) OTHER THAN NAMED ABOVE

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy or validity of that document.

STATE OF CALIFORNIA

COUNTY OF LOS ANGELES

On 06/09, 2023 before me, JUAN C. RIOS, personally appeared GUADALUPE MUNOZ proved to me on the basis of satisfactory evidence to be the person(s) whose names(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: _____

JUAN C. RIOS
Notary Public · California
San Bernardino County
Commission # 2402181
My Comm. Expires May 11, 2026

OPTIONAL

Though the data below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent reattachment of this form.

CAPACITY CLAIMED BY SIGNER

- ☐ INDIVIDUAL
- ☐ CORPORATE OFFICER

_____
TITLE(S)

- ☐ PARTNER(S) ☐ LIMITED ☐ GENERAL
- ☐ ATTORNEY-IN-FACT
- ☐ TRUSTEE(S)
- ☐ GUARDIAN/CONSERVATOR
- ☐ OTHER_____

SIGNER IS REPRESENTING:
(NAME OF PERSON(S) OR ENTITY(IES))

_____

_____

DESCRIPTION OF ATTACHED DOCUMENT

_____
TITLE OR TYPE OF DOCUMENT

_____
NUMBER OF PAGES

_____
DATE OF DOCUMENT

_____
SIGNER(S) OTHER THAN NAMED ABOVE

EXHIBIT "A"
SCOPE OF SERVICES

I. Consultant will perform the following Services:

A. Summary of Services:

Consultant shall perform services for inspections, appraisal evaluations, coordination of residential and commercial rehabilitation projects and administrative and HUD IDIS training tasks on an as-needed basis. Consultant shall provide a sufficient complement of qualified inspection personnel to perform the services listed below on an as-needed basis. The City processes and completes approximately 35 to 40 residential and 2 commercial projects per year. Primary objectives and duties shall include the following:

1. The initial assessment and determination of the scope of work necessary to complete rehabilitation projects in the City. Structure types consist of single-family, multi-family, and mobile home type housing and neighborhood commercial structures;

2. Project coordination and job progress/compliance monitoring.

3. Administrative and IDIS training tasks on an as-needed basis; and

4. Appraisal evaluations and reporting services.

B. Consultant will perform the following Services:

1. Initial Inspection of the Property: Identify rehabilitation items eligible under current CDBG and/or HOME (as applicable) program guidelines.

2. Description of Work: Based on the results of the initial inspection, a description of work will be created summarizing the items identified in the initial inspection including a construction cost estimate utilizing the City's Inspection and Project Services Checklist.

    - Abatement of health and safety concerns regarding the foundation, structure, and the garage (where there is one).
    - An evaluation of deficiencies within the property that will include the following:

        - Code violations, and health and safety issues;
        - Roofing;
        - Plumbing;
        - Electrical;

- Heating;
- Pest infestation;
- Interior and exterior painting window replacement;
- Lead-based paint and asbestos abatement as needed on a case by case basis;
- Interior carpet or other flooring;
- Foundation.

(Including all items per the City of Carson Residential Rehabilitation Standards checklist and the program guidelines under the program)

3. Bid Procedure: Compile information for projects that will be used to implement the bid process.

4. Coordination of Pre-Construction Meetings and Job Walks. Coordinate the holding of Pre-Construction Meetings and Job Walks between the eligible homeowner and awarded contractor.

5. Coordination and Monitoring of Job Progress: Conduct inspections to determine work progress and keep written log of inspections and comments.

6. Recommend/Request Payments: Based on results of inspection(s) of work performed, recommend progress and final payments to the contractor.

7. Case File Completion: Complete all paperwork needed to complete and close out each assigned project. Case file shall include a completed check-off list or punch-list.

8. Compliance Monitoring: Monitor compliance with State of California prevailing wage requirements and Federal Davis-Bacon and Related Acts (DBRA) provisions.

9. Section 3 Compliance: Monitoring compliance with Section 3 of the Housing and Community Development Act of 1968, which states that HUD-funded jobs and contracts are to be directed, to the greatest extent possible, to local low-income residents and the businesses that employ them.

10. Administrative Tasks (AS NEEDED):
    - Assistance and training on the HUD IDIS system for employees responsible for administrating the federal and state grant programs
    - Assist and coordinate with the City's Finance Department to prepare HUD IDIS system required drawdown submissions;

- Assistance in preparation of Slum and Blight Analysis for Community Block Grant funded programs; and
- Assist City staff with evaluation oversight of CDBG Public Service recipients.

11. Appraisal Evaluation Services:
    - Prepare interior and exterior evaluations of subject properties
    - Provide a summary appraisal report, photographs, sketches, comparable photographs, comparable property locations, and a signed statement of limiting conditions specifically for the HOME program.

12. Commercial Façade Program Consultant Service:
    - Initial inspection of property
    - Description of work
    - Bid Procedure
    - Pre-construction meetings and job walks
    - Coordination and monitoring of job progress
    - Recommend/request payments
    - Case File completion

13. Notary: Consultant shall perform required notary services, and shall hold a current notary commission at all times during the term of this Agreement.

14. Compliance with Laws: The requested services shall be performed in accordance with all Federal and State laws and regulations applicable to contract involving CDBG, HOME and PLHA program funding, including but not limited to, 12 USC 1706e *et seq.*, 42 USC 12701 *et seq.*, 24 CFR Part 92, 24 CFR Part 570, 2 CFR Part 200, and 25 CCR 8200 *et seq.*

II. In addition to the requirements of Section 6.2, during performance of the Services, Consultant will keep the City appraised of the status of performance by delivering the following status reports:

A. As requested by City, meet with City staff on a regular basis to provide project updates.

B. Any and all reports requested by City.

III. All work product is subject to review and acceptance by the City, and must be revised by the Consultant without additional charge to the City until found satisfactory and accepted by City.

IV. Consultant will utilize the following personnel to accomplish the Services:

A. Rudy Munoz, President, overall management

B. Clint Whited, Senior Vice President, Slum and Blight Analysis and Integrated Disbursement Information System reporting system training

C. Esther Luis, Director, main point of contact and will be on-site as requested by City and assist with administrative tasks and overall project coordination

D. Miguel Ramirez, Manager, assistance with inspection and project coordination and inspection functions of the Commercial Rehabilitation Program

E. Arthur Gomez, Senior Associate, on-site management of day to day functions of the housing rehabilitation and project coordination and assistance with Commercial Rehabilitation Program, as needed

EXHIBIT "B"
SPECIAL REQUIREMENTS
(Superseding Contract Boilerplate)

(new text shown in *bold italics*, deleted text in ~~strikethrough~~)

I. Section 3.4, "Term," of the Agreement is hereby amended to read in its entirety as follows:

"3.4 Term.

Unless earlier terminated in accordance with Article 7 of this Agreement, this Agreement shall continue in full force and effect until completion of the services but not exceeding ***three (3)*** ~~one (1)~~ years from the date hereof, except as otherwise provided in the Schedule of Performance (Exhibit "D"). ***The City may, at its sole discretion, elect to extend the Term by three (3) additional one-year terms (each, an "Extension Term"). The pricing to be applied for each Extension Term is listed in Exhibit "C" and Exhibit "C-1."*** "

II. A new Article 10, "Federal Contracting Requirements," is hereby added to the Agreement to read it its entirety as follows:

"ARTICLE 10. FEDERAL CONTRACTING REQUIREMENTS

The Agreement shall be subject to compliance with all applicable Federal laws, including those listed below. Consultant shall further agree to require compliance with such laws, to the extent applicable, in any contracts or subcontracts entered into involving HOME or CDBG funding.

A. Anti-Lobbying Certification

Pursuant to the Byrd Anti-Lobbying Amendment (31 USC §1352), Consultant warrants that it has filed the required certification, using the form previously provided by City.

B. Clean Air and Water Pollution Control Acts

Consultant shall agree to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act (42 USC §7401–7671q) and the Water Pollution Control Act as amended (33 USC §1251–1387). Any and all violations shall be reported to HUD and the Regional Office of the Environmental Protection Agency (EPA).

C. Conflict of Interest

Under 24 CFR §92.356, this Agreement shall be subject to the conflict of

interest provisions of 2 CFR §§200.318 through 200.326. In accordance with 2 CFR §200.318, Consultant shall comply with all applicable City and State requirements regarding conflicts of interest, and no employee, officer or agent shall participate in the selection, award or administration of this Agreement if employee, officer or agent has a real or apparent conflict of interest. Such a conflict of interest would arise when the employee, officer or agent, or any member of his or her immediate family, his or her partner, or an organization which employs or is about to employ any of said parties, has a financial interest or other interest in or a tangible personal benefit from a firm considered for a contract.

Under Carson Municipal Code Section 2615, it is unethical for any City employee or official to participate directly or indirectly in a procurement contract when the City employee or official knows that: (1) The City employee or official, or any member of the City employee's or official's immediate family has a financial interest pertaining to the procurement contract; or (2) any other person, business, or organization with whom the City employee or official, or any member of the City employee's or official's immediate family is negotiating or has an arrangement concerning prospective employment is involved in the procurement contract.

Consultant shall disclose all conflicts of interest to the City's Contract Officer within the meaning of the foregoing authorities, including any known financial interest in connection with the award or implementation of this Agreement. Consultant shall agree to comply with the foregoing authorities and to require all subcontractors to do the same.

D. Environmental Review

Consultant shall acknowledge that, pursuant to 24 CFR §92.352 and other applicable Federal laws and regulations, the National Environmental Policy Act of 1969, 42 USC §§4321-4347 (NEPA), and its implementing regulations (24 CFR Parts 50 and 58) apply to the HOME program, and that applicability of NEPA does not preclude applicability of the California Environmental Quality Act (CEQA) to discretionary approvals of projects of State and local agencies made in connection with the HOME program. Consultant shall agree to comply with, and to require compliance with, any mitigation measures or other applicable environmental restrictions or obligations pursuant to NEPA and CEQA in connection with the activities performed using HOME funding received pursuant to this Agreement.

E. Equal Opportunity

Consultant shall agree to comply with the following laws, and to require its subcontractors to comply with the following laws, to the extent applicable, in connection with performance under said contracts:

1. The Civil Rights Act, Fair Housing Act, and Age Discrimination Act:

Title VI of the Civil Rights Act of 1964 (42 USC § 2000d et seq.), the Fair Housing Act (42 USC §§ 3601- 3620), and the Age Discrimination Act of 1975 (29 USC § 6101), and applicable implementing regulations, which prohibit Consultant from discriminating or excluding from employment or program participation any person due to race, color, national original origin, sex, age, handicap, religion, familial status or religious preference.

2. Rehabilitation Act of 1973 and the "504 Coordinator"

The Rehabilitation Act of 1973 (29 USC §§791 *et seq.*), and the regulations implementing Section 504 thereof (28 CFR Part 42, Subpart G (§§42.501-42.540). This involves evaluating Consultant's current policies and practices and making modifications to ensure compliance with Section 504. Consultants employing 50 or more persons and receiving CDBG assistance of $25,000 or more shall designate at least one person to coordinate compliance with 28 CFR Part 42, Subpart G.

3. Americans with Disabilities Act of 1990 (ADA):

The Americans with Disabilities Act of 1990 (ADA) (42 USC §12101 *et seq.*) and applicable implementing regulations and guidelines, which prohibit discrimination on the basis of disability in employment, State and local government service, and public accommodations and commercial facilities.

4. Construction Contract Equal Employment Opportunity Provisions.

Except as otherwise provided under 41 CFR Part 60, all contracts meeting the definition of "federally assisted construction contract" in 41 CFR Part 60–1.3 must include the equal opportunity clause provided under 41 CFR 60–1.4(b), in accordance with Executive Order 11246, "Equal Employment Opportunity" (30 FR 12319, 12935, 3 CFR Part, 1964–1965 Comp., p. 339), as amended by Executive Order 11375, "Amending Executive Order 11246 Relating to Equal Employment Opportunity," and implementing regulations at 41 CFR part 60, "Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor."

F. Flood Disaster Protection

Consultant shall comply with Section 202(a) of the Flood Disaster Protection Act of 1973 (42 USC §4106), which prohibits Federal financial

assistance for buildings located in Special Flood Hazard Areas (SFHAs) within communities not participating in the National Flood Insurance Program. Section 102(a) (42 USC §4012) of that act mandates the purchase of flood insurance for buildings located in SFHAs as a condition of acquisition, construction, re-construction, repair and improvements activities. However, flood Insurance is not required for routine maintenance activities.

G. Labor Standards

For prime construction contracts in excess of $2,000, the consultant shall agree to comply with the Davis- Bacon Act of 1931 (40 USC §§3141-3144, §§3146-3148), as supplemented by 29 CFR Part 5. In accordance with the statute, Consultant shall agree to pay wages to laborers and mechanics at a rate not less than the prevailing wages specified in a wage determination made by the Secretary of Labor, which will be disclosed to Consultant. In addition, contractors shall be required to pay wages not less than once ~~a~~ week. The decision to award a contract or subcontract must be conditioned upon the acceptance of the wage determination. Compliance with said requirements shall not excuse compliance with California prevailing wage laws. The consultant shall also agree to comply with, and to require compliance with, the Copeland "Anti–Kickback" Act (40 USC 3145), as supplemented by 29 CFR Part 3. The Act provides that each contractor or sub-recipient must be prohibited from inducing, by any means, any person employed in the construction, completion, or repair of public work, to give up any part of the compensation to which he or she is otherwise entitled.

H. Contract Work Hours and Safety Standards Act (40 USC §§3701-3708)

Contracts in excess of $100,000 involving the employment of mechanics or laborers shall include a provision for compliance with 40 USC §3702 and §3704, as supplemented by Department of Labor regulations (29 CFR Part 5). Under 40 USC §3702, each contractor shall compute the wages of every mechanic and laborer on the basis of a standard work week of 40 hours. Work in excess of the standard work week is permissible provided that the worker is compensated at a rate of not less than one-and-a-half times the basic rate of pay for all hours worked in excess of 40 hours in the work week. The requirements of 40 USC §3704 are applicable to construction work and provide that no mechanic or laborer must be required to work in surroundings or under working conditions which are unsanitary, hazardous or dangerous. These requirements do not apply to the purchases of supplies or materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence.

I. National Labor Relations Board (NLRB) Certification

By signing the Agreement, Consultant is stating under penalty of perjury that it has had no more than one non-appealable finding of contempt of court issued by a federal court in the preceding two years because of failure to comply with a federal court order or with a NLRB order.

J. Records Retention

Consultant shall retain all records and files relating to this Agreement, including but not limited to the records specified in 24 CFR §92.508, for a period of five years following the final payment under the Agreement or any extensions thereto. Consultant shall make all records and files available upon request by the City, the State of California Department of Housing and Community Development or HUD during the record retention period.

K. Relocation, Displacement and Acquisition

Projects involving acquisition of real property must comply with federal relocation law to accommodate those persons temporarily or permanently displaced by the project. Consultant shall comply with Federal relocation law for projects including rehabilitating rental housing units and results in increased rents to "Targeted Income Group" (TIG) households.

L. Debarment and Suspension Certificate (Executive Orders 12549 and 12689)

A contract award (see 2 CFR §180.220) must not be made to parties listed on the government-wide exclusions in the System for Award Management (SAM), in accordance with the OMB guidelines at 2 CFR Part 180 that implement Executive Orders 12549 (3 CFR part 1986 Comp., p. 189) and 12689 (3 CFR part 1989 Comp., p. 235), "Debarment and Suspension." SAM Exclusions contains the names of parties debarred, suspended, or otherwise excluded by federal agencies, as well as parties declared ineligible under statutory or regulatory authority other than Executive Order 12549.

Consultant warrants that it has submitted a completed and signed Debarment and Suspension Certificate using the form previously provided by City. Consultant acknowledges that falsely providing this certification may result in criminal prosecution or administrative sanctions, and that this certification is a required component of all proposals submitted.

M. Recovered Materials

Consultant shall agree to comply with, and to require compliance with, Section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act. The requirements of Section 6002 include: procuring only items designated in guidelines of the Environmental

Protection Agency (EPA) at 40 CFR Part 247 that contain the highest percentage of recovered materials practicable, consistent with maintaining a satisfactory level of competition, where the purchase price of the item exceeds $10,000 or the value of the quantity acquired during the preceding fiscal year exceeded $10,000; procuring solid waste management services in a manner maximizing energy and resource recovery; and establishing an affirmative procurement program for procurement of recovered materials identified in the EPA guidelines.

N. Contract Remedies and Termination Provisions

Consultant shall be aware that contracts for more than the simplified acquisition threshold currently set at $150,000, which is the inflation adjusted amount determined by the Civilian Agency Acquisition Council and the Defense Acquisition Regulations Council (Councils) as authorized by 41 USC §1908, shall address administrative, contractual, or legal remedies in instances where contractors violate or breach contract terms, and provide for such sanctions and penalties as appropriate, and all contracts in excess of $10,000 shall address both termination for cause and for convenience by the contractor including the manner by which it will be effected and the basis for settlement.

O. Contracting with Small and Minority Businesses, Women's Business Enterprises, and Labor Surplus Area Firms.

In accordance with 2 CFR §200.321, Consultant shall take all necessary affirmative steps (including those set forth in 2 CFR §200.321, to assure that minority businesses, women's business enterprises, and labor surplus area firms are used when possible.

P. Filing of Protests

Pursuant to 2 CFR §200.318(k), the City's procedures apply to protests of contract awards. Proposers may file a protest of a contract award with the City's Community Development Director. In order for a protest to be considered valid, the protest must:

1. Be actually received by the Community Development Director in writing within five calendar days after the date of the contract award.

2. Clearly identify the specific recommendation being protested.

3. Specify, in detail, the grounds of the protest and the facts supporting the protest.

4. Include all relevant, supporting documentation with the protest at time of filing.

If the protest does not comply with each and every one of these requirements, it will be rejected as incomplete. If the protest is complete, the City's Community Development Director or assigned designee shall review the basis of the protest and all relevant information. The Community Development Director will deny or concur with the protest

and provide a written decision to the protestor. The protestor may then appeal the decision of the Community Development Director to the City Manager, by submitting a written appeal containing the information set forth above to the City Clerk within five days of the date the City notifies the protestor of the decision."

EXHIBIT "C"
SCHEDULE OF COMPENSATION

I. Consultant shall perform the following tasks at the following rates:

Time and Personnel Commitment:

The following is a list of personnel that Consultant will commit to City. City will be given the first opportunity to establish the number of hours required for each individual to assure that their services are being provided in accordance with the needs of the City. Adjustments to be made throughout the Agreement period in accordance with the City's needs.

Proposed Staffing/Budget

Program	Staff	Position	Hourly Rate FY 23-24*	Proposed Hrs./ Wk.	Estimated Annual Fees*
Administrative Tasks	Esther Luis	Director	$117.00/Hr.	12 hrs./wk.	$73,008
Commercial Rehabilitation	Miguel Ramirez	Manager	$111.50/Hr.	10 hrs./wk.	$57,980
	Arthur Gomez	Senior Associate	$105.50/Hr.	As needed	As needed
Housing/Commercial Rehabilitation	Arthur Gomez	Senior Associate	$105.50/Hr.	30 hrs./wk.	$163,2800
Slum and Blight Analysis	Clint Whited	Senior Vice President	$128.00/Hr.	To be Determined	Lump Sum price to be provided based on S/B Study Area

***The number of hours noted depicts the number of hours in which each individual is available to the City. The actual number of hours required to implement the programs shall be those determined by the City.**

REIMBURSABLE ITEMS:

Appraisals	$390.00 per appraisal
Project Supplies	At Cost plus 10% surcharge (if applies)
Prints/Reproductions	At Cost plus 10% surcharge (if applies)
Postage/Delivery	At Cost plus 10% surcharge (if applies)

II. Within the budgeted amounts for each Task, and with the approval of the Contract Officer, funds may be shifted from one Task sub-budget to another so long as the Contract Sum is not exceeded per Section 2.1, unless Additional Services are approved per Section 1.8.

III. The City will compensate Consultant for the Services performed upon submission of a valid invoice. Each invoice is to include:

A. Line items for all personnel describing the work performed, the number of hours worked, and the hourly rate.

B. Line items for all materials and equipment properly charged to the Services.

C. Line items for all other approved reimbursable expenses claimed, with supporting documentation.

D. Line items for all approved subcontractor labor, supplies, equipment, materials, and travel properly charged to the Services.

IV. **The total compensation for the Services shall not exceed $200,000 as provided in Section 2.1 of this Agreement.**

V. **The Consultant's billing rates for all personnel are attached as Exhibit C-1.**

EXHIBIT "C-1"

BILLING RATES

SCHEDULE OF HOURLY BILLING RATES

Rates effective as of July 1, 2023

Title	PY 2023-2024	PY 2024-2025	PY 2025-2026
President/Senior Vice President	$128.00	$131.00	$134.00
Vice President	$122.00	$125.00	$128.00
Director	$117.00	$120.00	$123.00
Manager	$111.50	$114.50	$117.50
Senior Associate	$105.50	$108.00	$111.00
Associate	$95.00	$97.50	$100.00
Senior Project Assistant	$78.00	$80.00	$82.00
Project Assistant	$73.00	$75.00	$77.00
Secretary	$51.00	$52.50	$54.00

Note: If MDG staff is requested by the City to attend a meeting not considered a part of this proposal or on a day in which a consultant is not scheduled to be on site, the City shall be billed for the time it takes to drive to and from the City and its corporate office.

AMENDMENT NO. 1

TO AGREEMENT FOR CONTRACT SERVICES

THIS AMENDMENT TO THE AGREEMENT FOR CONTRACT SERVICES ("Amendment No. 1") by and between the CITY OF CARSON, a California municipal corporation ("City") and MDG ASSOCIATES INC., a California corporation ("Consultant") is effective as of the 6th day of February, 2024.

RECITALS

A. City and Consultant entered into that certain Agreement for Contractual Services dated June 21, 2023 ("Agreement") whereby Consultant agreed to perform services for inspections, appraisal evaluations, coordination of residential and commercial rehabilitation projects and administrative and HUD IDIS training tasks on an as-needed basis for three (3) years with three (3) additional options for one-year extensions, for a total contract sum of $600,000; and

B. City Council established a Citywide Commercial Facade Improvement Program (the "Façade Program") pursuant to the adopted Carson Façade Improvement Program Guidelines for the public purpose of encouraging the improvement, stimulation and revitalization of the exterior facades of existing commercial buildings in various commercial corridors; and

C. The Façade Program is administered by the City and funded by the City's General Fund pursuant to an authorized allocation of $1,000,000 made by the City Council during its meeting of June 21, 2022; and

D. City Council also established a Permanent Local Housing Allocation (PLHA) funded Single-Family Housing Rehabilitation Program ("PLHA Residential Rehabilitation Program") during its meeting of February 7, 2023, for the public purpose of assisting income-qualified, eligible, owner-occupied, and Carson resident single family homeowners; and

E. The PLHA Residential Rehabilitation Program is administered by the City and funded by a PLHA grant agreement with the State of California Department of Housing and Community Development (HCD) pursuant to an authorized allocation of $529,674.50; and

F. City and Consultant now desire to amend the Agreement to: (i) modify the Scope of Services as they relate to the Façade Program and to add services as they pertain to the PLHA Rehabilitation Program through the end of the term, (ii) increase compensation by $168,250 to carry out the modified scope of services of the Agreement through the end of the term, (iii) specify that the Façade Program is to be funded through the City's General Fund, for a new total contract sum of $768,250, and (iv) specify that the PLHA Residential Rehabilitation Program is to be funded through the PLHA grant agreement.

TERMS

1. **Contract Changes**. The Agreement is amended as provided herein (new text is identified in ***bold italics***, deleted text in ~~strike through~~).

A. Section 2.1 (Contract Sum) is hereby amended to read in its entirety as follows:

"Subject to any limitations set forth in this Agreement, City agrees to pay Consultant the amounts specified in the "Schedule of Compensation" attached hereto as Exhibit "C" and incorporated herein by this reference. The total compensation, including reimbursement for actual expenses, shall not exceed ***Seven Hundred Sixty-Eight Thousand Two Hundred Fifty Dollars ($768,250)*** ~~Six Hundred Thousand Dollars ($600,000)~~ (the "Contract Sum"), unless additional compensation is approved pursuant to Section 1.8. In the event City elects to exercise its options to extend the Term pursuant to Section 3.4 hereof, the Contract Sum will increase by an amount of ***$256,083.33*** ~~$200,000~~ per year."

B. A new Article 11 (Funding for Façade Program) is hereby added to the Agreement to read in its entirety as follows:

"ARTICLE 11. FUNDING FOR FAÇADE PROGRAM

Notwithstanding anything contained in Article 10 of this Agreement, all funding for Consultant's services performed for the Façade Program will be paid out of the City's General Fund."

C. A new Article 12 (Funding for PLHA Residential Rehabilitation Program) is hereby added to the Agreement to read in its entirety as follows:

"ARTICLE 12. FUNDING FOR PLHA RESIDENTIAL REHABILITATION PROGRAM

Notwithstanding anything contained in Article 10 of this Agreement, all funding for Consultant's services performed for the PLHA Residential Rehabilitation Program will be paid out of the PLHA grant agreement with HCD."

D. Section I, Subsection B, Paragraph 12, of Exhibit "A" (Scope of Services), is hereby amended to read in its entirety as follows:

"12. Commercial Façade Program Consultant Service:

- ~~Initial inspection of property~~
- ~~Description of work~~
- ~~Bid Procedure~~
- ~~Pre-construction meetings and job walks~~
- ~~Coordination and monitoring of job progress~~
- ~~Recommend/request payments~~
- ~~Case File completion~~
- ***Property Inspection and Work Specifications***
  - ***Review drawings prepared by City's selected program architect.***

- *Draft Construction Scope of Work – Work Description.*
- *Provide Construction Cost Estimates.*
- *Prepare Pre-Construction Pictures.*
- *Send Applicant Work Description for review and revise as needed.*
- *Provide follow-up and related services as needed.*

- *Bid and Construction Process*
  - *Prepare Bid Packages for distribution.*
  - *Serve as Liaison with Program Applicant and contractor(s).*
  - *Provide Technical Support.*
  - *Coordinate Bid Process*
    - *Conduct Mandatory Bid-Walk with Applicant and Contractors.*
    - *Review bids, prepare Bid comparison, and follow-up with Contractors.*
    - *Verification of License and Insurance Documentation.*
    - *Selection and Award of Contract.*
- *Construction Management Oversight*
  - *Conduct progress inspections.*
  - *Prepare and Submit Progress Payment Requests.*
  - *Prepare Punch List, as needed.*
  - *Submit Change Order Request(s) as needed.*
- *Case File Completion*
  - *Prepare Post-Construction Pictures.*
  - *Assist staff with project close out (i.e., Notice of Completion)"*

E. Section I, Subsection B, Paragraph 15, of Exhibit "A" (Scope of Services), is hereby added to read in its entirety as follows:

"*15. <u>PLHA Residential Rehabilitation Program Consultant Service</u>:*

- *Property Inspection and Work Specifications*
  - *Conduct initial inspection of property.*
  - *Draft Construction Scope of Work – Work Description.*
  - *Provide Construction Cost Estimates.*
  - *Prepare Pre-Construction Pictures.*
  - *Send Applicant Work Description for review and revise as needed.*
  - *Provide follow-up and related services as needed.*

- *Bid and Construction Process*
  - *Prepare Bid Packages for distribution.*
  - *Serve as Liaison with Program Applicant and contractor(s).*
  - *Provide Technical Support.*
  - *Coordinate Bid Process:*
    - *Review bids, prepare Bid comparison, and follow-up with Contractor.*
    - *Verification of License and Insurance Documentation.*
    - *Selection and Award of Contract.*
    - *Prepare Construction and Improvement Agreements.*
    - *Attend Pre-Construction and Contract Signing Meeting.*

- *Construction Management Oversight*
  - *Conduct progress inspections.*
  - *Prepare and Submit Progress Payment Requests.*

- *Prepare Punch List, as needed.*
- *Submit Change Order Request(s) as needed.*

- *Case File Completion*
  - *Prepare Post-Construction Pictures.*
  - *Assist staff with project close out (i.e. Notice of Completion)"*

F. Section IV. of Exhibit "C" (Schedule of Compensation) is hereby amended to read in its entirety as follows:

"**IV.** The total compensation for the Services shall not exceed ***$768,250***~~$200,000~~, as provided in Section 2.1 of this Agreement."

2. **Continuing Effect of Agreement.** Except as amended by this Amendment No. 1, all provisions of the Agreement shall remain unchanged and in full force and effect. From and after the date of this Amendment No. 1, whenever the term "Agreement" appears in the Agreement, it shall mean the Agreement, as amended by this Amendment No. 1 to the Agreement.

3. **Affirmation of Agreement; Warranty Re Absence of Defaults.** City and Consultant each ratify and reaffirm each and every one of the respective rights and obligations arising under the Agreement. Each party represents and warrants to the other that there have been no written or oral modifications to the Agreement other than as provided herein. Each party represents and warrants to the other that the Agreement is currently an effective, valid, and binding obligation.

Consultant represents and warrants to City that, as of the date of this Amendment No. 1, City is not in default of any material term of the Agreement and that there have been no events that, with the passing of time or the giving of notice, or both, would constitute a material default under the Agreement.

City represents and warrants to Consultant that, as of the date of this Amendment No. 1, Consultant is not in default of any material term of the Agreement and that there have been no events that, with the passing of time or the giving of notice, or both, would constitute a material default under the Agreement.

4. **Adequate Consideration.** The parties hereto irrevocably stipulate and agree that they have each received adequate and independent consideration for the performance of the obligations they have undertaken pursuant to this Amendment No. 1.

5. **Authority.** The persons executing this Amendment No. 1 on behalf of the parties hereto warrant that (i) such party is duly organized and existing, (ii) they are duly authorized to execute and deliver this Amendment No. 1 on behalf of said party, (iii) by so executing this Amendment No. 1, such party is formally bound to the provisions of this Amendment No. 1, and (iv) the entering into this Amendment No. 1 does not violate any provision of any other Agreement to which said party is bound.

6. **Counterparts.** This Amendment No. 1 may be executed in any number of counterparts and each of such counterparts shall for all purposes be deemed to be an original,

whether the signatures are originals, electronic, facsimiles or digital. All such counterparts shall together constitute but one and the same Amendment No. 1.

[SIGNATURES ON FOLLOWING PAGE]

IN WITNESS WHEREOF, the parties hereto have executed this Amendment No. 1 on the date and year first-above written.

CITY:

CITY OF CARSON, a municipal corporation

Lula Davis-Holmes, Mayor

ATTEST:

Dr. Khaleah K. Bradshaw, City Clerk

APPROVED AS TO FORM:
ALESHIRE & WYNDER, LLP

Sunny K. Soltani, City Attorney
[rjl]

CONSULTANT:

MDG ASSOCIATES INC., a California corporation

By: _____
Name: Rudy Munoz
Title: President

By: _____
Name: Guadalupe R. Munoz
Title: Chief Financial Officer

Two corporate officer signatures required when Consultant is a corporation, with one signature required from each of the following groups: 1) Chairman of the Board, President or any Vice President; and 2) Secretary, any Assistant Secretary, Chief Financial Officer or any Assistant Treasurer. CONSULTANT'S SIGNATURES SHALL BE DULY NOTARIZED, AND APPROPRIATE ATTESTATIONS SHALL BE INCLUDED AS MAY BE REQUIRED BY THE BYLAWS, ARTICLES OF INCORPORATION, OR OTHER RULES OR REGULATIONS APPLICABLE TO CONSULTANT'S BUSINESS ENTITY.

IN WITNESS WHEREOF, the parties hereto have executed this Amendment No. 1 on the date and year first-above written.

CITY:

CITY OF CARSON, a municipal corporation

_____
Lula Davis-Holmes, Mayor

ATTEST:

_____
Dr. Khaleah K. Bradshaw, City Clerk

APPROVED AS TO FORM:
ALESHIRE & WYNDER, LLP

_____
Sunny K. Soltani, City Attorney
[rjl]

CONSULTANT:

MDG ASSOCIATES INC., a California corporation

By:_____
Name: Rudy Munoz
Title: President

By:_____
Name: Guadalupe R. Munoz
Title: Chief Financial Officer

Two corporate officer signatures required when Consultant is a corporation, with one signature required from each of the following groups: 1) Chairman of the Board, President or any Vice President; and 2) Secretary, any Assistant Secretary, Chief Financial Officer or any Assistant Treasurer. CONSULTANT'S SIGNATURES SHALL BE DULY NOTARIZED, AND APPROPRIATE ATTESTATIONS SHALL BE INCLUDED AS MAY BE REQUIRED BY THE BYLAWS, ARTICLES OF INCORPORATION, OR OTHER RULES OR REGULATIONS APPLICABLE TO CONSULTANT'S BUSINESS ENTITY.

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy or validity of that document.

STATE OF CALIFORNIA

COUNTY OF LOS ANGELES

On Feb 2, 2024 before me, Juan C. Rios, personally appeared Rudy Muñoz, proved to me on the basis of satisfactory evidence to be the person(s) whose names(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: _____

JUAN C. RIOS
Notary Public - California
San Bernardino County
Commission # 2402181
My Comm. Expires May 11, 2026

OPTIONAL

Though the data below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent reattachment of this form.

CAPACITY CLAIMED BY SIGNER

- ☐ INDIVIDUAL
- ☐ CORPORATE OFFICER

_____
TITLE(S)

- ☐ PARTNER(S) ☐ LIMITED ☐ GENERAL
- ☐ ATTORNEY-IN-FACT
- ☐ TRUSTEE(S)
- ☐ GUARDIAN/CONSERVATOR
- ☐ OTHER_____

SIGNER IS REPRESENTING:
(NAME OF PERSON(S) OR ENTITY(IES))

_____

_____

DESCRIPTION OF ATTACHED DOCUMENT

_____
TITLE OR TYPE OF DOCUMENT

_____
NUMBER OF PAGES

_____
DATE OF DOCUMENT

_____
SIGNER(S) OTHER THAN NAMED ABOVE

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy or validity of that document.

STATE OF CALIFORNIA

COUNTY OF LOS ANGELES

On Feb 2, 2024 before me, Juan C. Rios, personally appeared Guadalupe R. Muñoz proved to me on the basis of satisfactory evidence to be the person(s) whose names(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: _____

JUAN C. RIOS
Notary Public - California
San Bernardino County
Commission # 2402181
My Comm. Expires May 11, 2026

OPTIONAL

Though the data below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent reattachment of this form.

CAPACITY CLAIMED BY SIGNER

- ☐ INDIVIDUAL
- ☐ CORPORATE OFFICER

_____
TITLE(S)

- ☐ PARTNER(S) ☐ LIMITED ☐ GENERAL
- ☐ ATTORNEY-IN-FACT
- ☐ TRUSTEE(S)
- ☐ GUARDIAN/CONSERVATOR
- ☐ OTHER_____

SIGNER IS REPRESENTING:
(NAME OF PERSON(S) OR ENTITY(IES))

_____

_____

DESCRIPTION OF ATTACHED DOCUMENT

_____
TITLE OR TYPE OF DOCUMENT

_____
NUMBER OF PAGES

_____
DATE OF DOCUMENT

_____
SIGNER(S) OTHER THAN NAMED ABOVE

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 6/22/2023

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME: Kasey Heupel
The Buckner Company of Colorado 6400 S. FIDDLERS GREEN CIRCLE, SUITE 950 Greenwood Village CO 80111	PHONE (A/C, No, Ext): 13037563418 FAX (A/C, No): E-MAIL ADDRESS: denver@buckner.com
License#: 480397	INSURER(S) AFFORDING COVERAGE / NAIC #
INSURED MDG Associates, Inc. 10722 Arrow Route, Suite 822 Rancho Cucamonga CA 91730 MDGASSO-02	INSURER A : Certain Underwriters at Lloyds INSURER B : INSURER C : INSURER D : INSURER E : INSURER F :

COVERAGES **CERTIFICATE NUMBER:** 1107382365 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
	COMMERCIAL GENERAL LIABILITY						EACH OCCURRENCE	$
	☐ CLAIMS-MADE ☐ OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence)	$
							MED EXP (Any one person)	$
							PERSONAL & ADV INJURY	$
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	$
	☐ POLICY ☐ PRO-JECT ☐ LOC						PRODUCTS - COMP/OP AGG	$
	OTHER:							$
	AUTOMOBILE LIABILITY						COMBINED SINGLE LIMIT (Ea accident)	$
	☐ ANY AUTO						BODILY INJURY (Per person)	$
	☐ OWNED AUTOS ONLY ☐ SCHEDULED AUTOS						BODILY INJURY (Per accident)	$
	☐ HIRED AUTOS ONLY ☐ NON-OWNED AUTOS ONLY						PROPERTY DAMAGE (Per accident)	$
								$
	☐ UMBRELLA LIAB ☐ OCCUR						EACH OCCURRENCE	$
	☐ EXCESS LIAB ☐ CLAIMS-MADE						AGGREGATE	$
	☐ DED ☐ RETENTION $							$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y/N						☐ PER STATUTE ☐ OTH-ER	
	ANYPROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? ☐ N/A (Mandatory in NH)						E.L. EACH ACCIDENT	$
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE	$
							E.L. DISEASE - POLICY LIMIT	$
A	Professional Liability			TMP00025701	7/1/2023	7/1/2024	Aggregate Per Claim	2,000,000 $2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER

City of Carson
Attn: Risk Management Dept.
701 East Carson Street
Carson CA 90745

INSURANCE APPROVED
RG
6/29/2023

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

© 1988-2015 ACORD CORPORATION. All rights reserved.

MDGASSO-01 CFRANCIS

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 6/22/2023

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME: Chip Francis	
Kelley, Jiggins & Associates 455 N. El Molino Ave. Pasadena, CA 91101	PHONE (A/C, No, Ext): (626) 396-1035	FAX (A/C, No): (626) 396-1045
	E-MAIL ADDRESS: chip@kjains.com	
	INSURER(S) AFFORDING COVERAGE	NAIC #
	INSURER A : West American Insurance Company	44393
INSURED	INSURER B : Ohio Security Insurance Company	24082
MDG Associates, Inc. 10722 Arrow Route, Ste. 822 Rancho Cucamonga, CA 91730	INSURER C : American Fire & Casualty Co.	24066
	INSURER D :	
	INSURER E :	
	INSURER F :	

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X COMMERCIAL GENERAL LIABILITY						EACH OCCURRENCE	$ 1,000,000
	CLAIMS-MADE X OCCUR	X	X	BKW57179298	7/1/2023	7/1/2024	DAMAGE TO RENTED PREMISES (Ea occurrence)	$ 200,000
							MED EXP (Any one person)	$ 15,000
							PERSONAL & ADV INJURY	$ 1,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	$ 2,000,000
	X POLICY PRO-JECT LOC						PRODUCTS - COMP/OP AGG	$ 2,000,000
	OTHER:							$
B	AUTOMOBILE LIABILITY						COMBINED SINGLE LIMIT (Ea accident)	$ 1,000,000
	X ANY AUTO						BODILY INJURY (Per person)	$
	OWNED AUTOS ONLY / SCHEDULED AUTOS	X	X	BAS57179298	7/1/2023	7/1/2024	BODILY INJURY (Per accident)	$
	HIRED AUTOS ONLY / NON-OWNED AUTOS ONLY						PROPERTY DAMAGE (Per accident)	$
								$
C	UMBRELLA LIAB X OCCUR						EACH OCCURRENCE	$ 4,000,000
	X EXCESS LIAB CLAIMS-MADE			ESA57179298	7/1/2023	7/1/2024	AGGREGATE	$ 4,000,000
	DED RETENTION $							$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y/N						PER STATUTE OTH-ER	
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)	N/A					E.L. EACH ACCIDENT	$
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE	$
							E.L. DISEASE - POLICY LIMIT	$

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Certificate Holders are named as Additional Insured on General Liability per blanket form CG8810 0413 and on Auto Liability per form AC8543 0618.

Certificate Holders are named as Additional Insured on General Liability per blanket form CG8810 0413 and on Auto Liability per form AC8543 0618 but only as respects the insured's operations as it relates to their signed contract in regards to the Home Inspection Services.

*30day Notice of Cancellation except 10 days for non-payment of premium.

CERTIFICATE HOLDER

City of Carson
Attn: Risk Management Department
701 E. Carson Street
Carson, CA 90745

INSURANCE APPROVED
RG
6/29/2023

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

© 1988-2015 ACORD CORPORATION. All rights reserved.

The ACORD name and logo are registered marks of ACORD

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

COMMERCIAL GENERAL LIABILITY EXTENSION

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

INDEX

SUBJECT	PAGE
NON-OWNED AIRCRAFT	2
NON-OWNED WATERCRAFT	2
PROPERTY DAMAGE LIABILITY - ELEVATORS	2
EXTENDED DAMAGE TO PROPERTY RENTED TO YOU (Tenant's Property Damage)	2
MEDICAL PAYMENTS EXTENSION	3
EXTENSION OF SUPPLEMENTARY PAYMENTS - COVERAGES A AND B	3
ADDITIONAL INSUREDS - BY CONTRACT, AGREEMENT OR PERMIT	3
PRIMARY AND NON-CONTRIBUTORY- ADDITIONAL INSURED EXTENSION	5
ADDITIONAL INSUREDS - EXTENDED PROTECTION OF YOUR "LIMITS OF INSURANCE"	6
WHO IS AN INSURED - INCIDENTAL MEDICAL ERRORS/MALPRACTICE AND WHO IS AN INSURED - FELLOW EMPLOYEE EXTENSION - MANAGEMENT EMPLOYEES	6
NEWLY FORMED OR ADDITIONALLY ACQUIRED ENTITIES	7
FAILURE TO DISCLOSE HAZARDS AND PRIOR OCCURRENCES	7
KNOWLEDGE OF OCCURRENCE, OFFENSE, CLAIM OR SUIT	7
LIBERALIZATION CLAUSE	7
BODILY INJURY REDEFINED	7
EXTENDED PROPERTY DAMAGE	8
WAIVER OF TRANSFER OF RIGHTS OF RECOVERY AGAINST OTHERS TO US - WHEN REQUIRED IN A CONTRACT OR AGREEMENT WITH YOU	8

© 2013 Liberty Mutual Insurance
Includes copyrighted material of Insurance Services Office, Inc., with its permission.

With respect to coverage afforded by this endorsement, the provisions of the policy apply unless modified by the endorsement.

A. **NON-OWNED AIRCRAFT**

Under Paragraph 2. **Exclusions** of **Section I - Coverage A - Bodily Injury And Property Damage Liability,** exclusion g. **Aircraft, Auto Or Watercraft** does not apply to an aircraft provided:

1. It is not owned by any insured;
2. It is hired, chartered or loaned with a trained paid crew;
3. The pilot in command holds a currently effective certificate, issued by the duly constituted authority of the United States of America or Canada, designating her or him a commercial or airline pilot; and
4. It is not being used to carry persons or property for a charge.

However, the insurance afforded by this provision does not apply if there is available to the insured other valid and collectible insurance, whether primary, excess (other than insurance written to apply specifically in excess of this policy), contingent or on any other basis, that would also apply to the loss covered under this provision.

B. **NON-OWNED WATERCRAFT**

Under Paragraph 2. **Exclusions** of **Section I - Coverage A - Bodily Injury And Property Damage Liability,** Subparagraph (2) of exclusion g. **Aircraft, Auto Or Watercraft** is replaced by the following:

This exclusion does not apply to:

(2) A watercraft you do not own that is:

(a) Less than 52 feet long; and

(b) Not being used to carry persons or property for a charge.

C. **PROPERTY DAMAGE LIABILITY - ELEVATORS**

1. Under Paragraph 2. **Exclusions** of **Section I - Coverage A - Bodily Injury And Property Damage Liability,** Subparagraphs (3), (4) and (6) of exclusion j. **Damage To Property** do not apply if such "property damage" results from the use of elevators. For the purpose of this provision, elevators do not include vehicle lifts. Vehicle lifts are lifts or hoists used in automobile service or repair operations.

2. The following is added to **Section IV - Commercial General Liability Conditions,** Condition 4. **Other Insurance,** Paragraph b. **Excess Insurance:**

The insurance afforded by this provision of this endorsement is excess over any property insurance, whether primary, excess, contingent or on any other basis.

D. **EXTENDED DAMAGE TO PROPERTY RENTED TO YOU (Tenant's Property Damage)**

If Damage To Premises Rented To You is not otherwise excluded from this Coverage Part:

1. Under Paragraph 2. **Exclusions of Section I - Coverage A - Bodily Injury and Property Damage Liability:**

a. The fourth from the last paragraph of exclusion j. **Damage To Property** is replaced by the following:

Paragraphs (1), (3) and (4) of this exclusion do not apply to "property damage" (other than damage by fire, lightning, explosion, smoke, or leakage from an automatic fire protection system) to:

(i) Premises rented to you for a period of 7 or fewer consecutive days; or

(ii) Contents that you rent or lease as part of a premises rental or lease agreement for a period of more than 7 days.

Paragraphs (1), (3) and (4) of this exclusion do not apply to "property damage" to contents of premises rented to you for a period of 7 or fewer consecutive days.

A separate limit of insurance applies to this coverage as described in **Section III - Limits of Insurance.**

© 2013 Liberty Mutual Insurance
Includes copyrighted material of Insurance Services Office, Inc., with its permission.

b. The last paragraph of subsection **2. Exclusions** is replaced by the following:

Exclusions **c.** through **n.** do not apply to damage by fire, lightning, explosion, smoke or leakage from automatic fire protection systems to premises while rented to you or temporarily occupied by you with permission of the owner. A separate limit of insurance applies to Damage To Premises Rented To You as described in **Section III - Limits Of Insurance.**

2. Paragraph **6.** under **Section III - Limits Of Insurance** is replaced by the following:

6. Subject to Paragraph **5.** above, the Damage To Premises Rented To You Limit is the most we will pay under Coverage A for damages because of "property damage" to:

a. Any one premise:

(1) While rented to you; or

(2) While rented to you or temporarily occupied by you with permission of the owner for damage by fire, lightning, explosion, smoke or leakage from automatic protection systems; or

b. Contents that you rent or lease as part of a premises rental or lease agreement.

3. As regards coverage provided by this provision **D. EXTENDED DAMAGE TO PROPERTY RENTED TO YOU (Tenant's Property Damage)** - Paragraph **9.a.** of **Definitions** is replaced with the following:

9.a. A contract for a lease of premises. However, that portion of the contract for a lease of premises that indemnifies any person or organization for damage by fire, lightning, explosion, smoke, or leakage from automatic fire protection systems to premises while rented to you or temporarily occupied by you with the permission of the owner, or for damage to contents of such premises that are included in your premises rental or lease agreement, is not an "insured contract".

E. MEDICAL PAYMENTS EXTENSION

If **Coverage C Medical Payments** is not otherwise excluded, the Medical Payments provided by this policy are amended as follows:

Under Paragraph **1. Insuring Agreement** of **Section I - Coverage C - Medical Payments,** Subparagraph **(b)** of Paragraph **a.** is replaced by the following:

(b) The expenses are incurred and reported within three years of the date of the accident; and

F. EXTENSION OF SUPPLEMENTARY PAYMENTS - COVERAGES A AND B

1. Under **Supplementary Payments - Coverages A and B,** Paragraph **1.b.** is replaced by the following:

b. Up to **$3,000** for cost of bail bonds required because of accidents or traffic law violations arising out of the use of any vehicle to which the Bodily Injury Liability Coverage applies. We do not have to furnish these bonds.

2. Paragraph **1.d.** is replaced by the following:

d. All reasonable expenses incurred by the insured at our request to assist us in the investigation or defense of the claim or "suit", including actual loss of earnings up to **$500** a day because of time off from work.

G. ADDITIONAL INSUREDS - BY CONTRACT, AGREEMENT OR PERMIT

1. Paragraph **2.** under **Section II - Who Is An Insured** is amended to include as an insured any person or organization whom you have agreed to add as an additional insured in a written contract, written agreement or permit. Such person or organization is an additional insured but only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused in whole or in part by:

a. Your acts or omissions, or the acts or omissions of those acting on your behalf, in the performance of your on going operations for the additional insured that are the subject of the written contract or written agreement provided that the "bodily injury" or "property damage" occurs, or the "personal and advertising injury" is committed, subsequent to the signing of such written contract or written agreement; or

© 2013 Liberty Mutual Insurance

b. Premises or facilities rented by you or used by you; or

c. The maintenance, operation or use by you of equipment rented or leased to you by such person or organization; or

d. Operations performed by you or on your behalf for which the state or political subdivision has issued a permit subject to the following additional provisions:

(1) This insurance does not apply to "bodily injury", "property damage", or "personal and advertising injury" arising out of the operations performed for the state or political subdivision;

(2) This insurance does not apply to "bodily injury" or "property damage" included within the "completed operations hazard".

(3) Insurance applies to premises you own, rent, or control but only with respect to the following hazards:

(a) The existence, maintenance, repair, construction, erection, or removal of advertising signs, awnings, canopies, cellar entrances, coal holes, driveways, manholes, marquees, hoist away openings, sidewalk vaults, street banners, or decorations and similar exposures; or

(b) The construction, erection, or removal of elevators; or

(c) The ownership, maintenance, or use of any elevators covered by this insurance.

However:

1. The insurance afforded to such additional insured only applies to the extent permitted by law; and

2. If coverage provided to the additional insured is required by a contract or agreement, the insurance afforded to such additional insured will not be broader than that which you are required by the contract or agreement to provide for such additional insured.

With respect to Paragraph 1.a. above, a person's or organization's status as an additional insured under this endorsement ends when:

(1) All work, including materials, parts or equipment furnished in connection with such work, on the project (other than service, maintenance or repairs) to be performed by or on behalf of the additional insured(s) at the location of the covered operations has been completed; or

(2) That portion of "your work" out of which the injury or damage arises has been put to its intended use by any person or organization other than another contractor or subcontractor engaged in performing operations for a principal as a part of the same project.

With respect to Paragraph 1.b. above, a person's or organization's status as an additional insured under this endorsement ends when their written contract or written agreement with you for such premises or facilities ends.

With respects to Paragraph 1.c. above, this insurance does not apply to any "occurrence" which takes place after the equipment rental or lease agreement has expired or you have returned such equipment to the lessor.

The insurance provided by this endorsement applies only if the written contract or written agreement is signed prior to the "bodily injury" or "property damage".

We have no duty to defend an additional insured under this endorsement until we receive written notice of a "suit" by the additional insured as required in Paragraph b. of Condition **2. Duties In the Event Of Occurrence, Offense, Claim Or Suit** under **Section IV - Commercial General Liability Conditions.**

© 2013 Liberty Mutual Insurance

2. With respect to the insurance provided by this endorsement, the following are added to Paragraph 2. **Exclusions** under **Section I - Coverage A - Bodily Injury And Property Damage Liability:**

This insurance does not apply to:

a. "Bodily injury" or "property damage" arising from the sole negligence of the additional insured.

b. "Bodily injury" or "property damage" that occurs prior to you commencing operations at the location where such "bodily injury" or "property damage" occurs.

c. "Bodily injury", "property damage" or "personal and advertising injury" arising out of the rendering of, or the failure to render, any professional architectural, engineering or surveying services, including:

(1) The preparing, approving, or failing to prepare or approve, maps, shop drawings, opinions, reports, surveys, field orders, change orders or drawings and specifications; or

(2) Supervisory, inspection, architectural or engineering activities.

This exclusion applies even if the claims against any insured allege negligence or other wrongdoing in the supervision, hiring, employment, training or monitoring of others by that insured, if the "occurrence" which caused the "bodily injury" or "property damage", or the offense which caused the "personal and advertising injury", involved the rendering of, or the failure to render, any professional architectural, engineering or surveying services.

d. "Bodily injury" or "property damage" occurring after:

(1) All work, including materials, parts or equipment furnished in connection with such work, on the project (other than service, maintenance or repairs) to be performed by or on behalf of the additional insured(s) at the location of the covered operations has been completed; or

(2) That portion of "your work" out of which the injury or damage arises has been put to its intended use by any person or organization other than another contractor or subcontractor engaged in performing operations for a principal as a part of the same project.

e. Any person or organization specifically designated as an additional insured for ongoing operations by a separate **ADDITIONAL INSURED -OWNERS, LESSEES OR CONTRACTORS** endorsement issued by us and made a part of this policy.

3. With respect to the insurance afforded to these additional insureds, the following is added to **Section III - Limits Of Insurance:**

If coverage provided to the additional insured is required by a contract or agreement, the most we will pay on behalf of the additional insured is the amount of insurance:

a. Required by the contract or agreement; or

b. Available under the applicable Limits of Insurance shown in the Declarations;

whichever is less.

This endorsement shall not increase the applicable Limits of Insurance shown in the Declaratio ns.

H. PRIMARY AND NON-CONTRIBUTORY ADDITIONAL INSURED EXTENSION

This provision applies to any person or organization who qualifies as an additional insured under any form or endorsement under this policy.

Condition **4. Other Insurance** of **SECTION IV - COMMERCIAL GENERAL LIABILITY CONDITIONS** is amended as follows:

a. The following is added to Paragraph **a. Primary Insurance:**

If an additional insured's policy has an Other Insurance provision making its policy excess, and you have agreed in a written contract or written agreement to provide the additional insured coverage on a primary and noncontributory basis, this policy shall be primary and we will not seek contribution from the additional insured's policy for damages we cover.

© 2013 Liberty Mutual Insurance
Includes copyrighted material of Insurance Services Office, Inc., with its permission.

b. The following is added to Paragraph **b. Excess Insurance:**

When a written contract or written agreement, other than a premises lease, facilities rental contract or agreement, an equipment rental or lease contract or agreement, or permit issued by a state or political subdivision between you and an additional insured does not require this insurance to be primary or primary and non-contributory, this insurance is excess over any other insurance for which the additional insured is designated as a Named Insured.

Regardless of the written agreement between you and an additional insured, this insurance is excess over any other insurance whether primary, excess, contingent or on any other basis for which the additional insured has been added as an additional insured on other policies.

I. **ADDITIONAL INSUREDS - EXTENDED PROTECTION OF YOUR "LIMITS OF INSURANCE"**

This provision applies to any person or organization who qualifies as an additional insured under any form or endorsement under this policy.

1. The following is added to Condition **2. Duties In The Event Of Occurrence, Offense, Claim or Suit:**

An additional insured under this endorsement will as soon as practicable:

a. Give written notice of an "occurrence" or an offense that may result in a claim or "suit" under this insurance to us;

b. Tender the defense and indemnity of any claim or "suit" to all insurers whom also have insurance available to the additional insured; and

c. Agree to make available any other insurance which the additional insured has for a loss we cover under this Coverage Part.

d. We have no duty to defend or indemnify an additional insured under this endorsement until we receive written notice of a "suit" by the additional insured.

2. The limits of insurance applicable to the additional insured are those specified in a written contract or written agreement or the limits of insurance as stated in the Declarations of this policy and defined in **Section III - Limits of Insurance** of this policy, whichever are less. These limits are inclusive of and not in addition to the limits of insurance available under this policy.

J. **WHO IS AN INSURED - INCIDENTAL MEDICAL ERRORS / MALPRACTICE**
WHO IS AN INSURED - FELLOW EMPLOYEE EXTENSION - MANAGEMENT EMPLOYEES

Paragraph **2.a.(1)** of **Section II - Who Is An Insured** is replaced with the following:

(1) "Bodily injury" or "personal and advertising injury":

(a) To you, to your partners or members (if you are a partnership or joint venture), to your members (if you are a limited liability company), to a co-"employee" while in the course of his or her employment or performing duties related to the conduct of your business, or to your other "volunteer workers" while performing duties related to the conduct of your business;

(b) To the spouse, child, parent, brother or sister of that co-"employee" or "volunteer worker" as a consequence of Paragraph **(1) (a)** above;

(c) For which there is any obligation to share damages with or repay someone else who must pay damages because of the injury described in Paragraphs **(1) (a)** or **(b)** above; or

(d) Arising out of his or her providing or failing to provide professional health care services. However, if you are not in the business of providing professional health care services or providing professional health care personnel to others, or if coverage for providing professional health care services is not otherwise excluded by separate endorsement, this provision (Paragraph **(d)**) does not apply.

Paragraphs **(a)** and **(b)** above do not apply to "bodily injury" or "personal and advertising injury" caused by an "employee" who is acting in a supervisory capacity for you. Supervisory capacity as used herein means the "employee's" job responsibilities assigned by you, includes the direct supervision of other "employees" of yours. However, none of these "employees" are insureds for "bodily injury" or "personal and

© 2013 Liberty Mutual Insurance
Includes copyrighted material of Insurance Services Office, Inc., with its permission.

advertising injury" arising out of their willful conduct, which is defined as the purposeful or willful intent to cause "bodily injury" or "personal and advertising injury", or caused in whole or in part by their intoxication by liquor or controlled substances.

The coverage provided by provision J. is excess over any other valid and collectable insurance available to your "employee".

K. NEWLY FORMED OR ADDITIONALLY ACQUIRED ENTITIES

Paragraph 3. of **Section II - Who Is An Insured** is replaced by the following:

3. Any organization you newly acquire or form and over which you maintain ownership or majority interest, will qualify as a Named Insured if there is no other similar insurance available to that organization. However:
   a. Coverage under this provision is afforded only until the expiration of the policy period in which the entity was acquired or formed by you;
   b. Coverage A does not apply to "bodily injury" or "property damage" that occurred before you acquired or formed the organization; and
   c. Coverage B does not apply to "personal and advertising injury" arising out of an offense committed before you acquired or formed the organization.
   d. Records and descriptions of operations must be maintained by the first Named Insured.

No person or organization is an insured with respect to the conduct of any current or past partnership, joint venture or limited liability company that is not shown as a Named Insured in the Declarations or qualifies as an insured under this provision.

L. FAILURE TO DISCLOSE HAZARDS AND PRIOR OCCURRENCES

Under **Section IV - Commercial General Liability Conditions**, the following is added to Condition **6. Representations:**

Your failure to disclose all hazards or prior "occurrences" existing as of the inception date of the policy shall not prejudice the coverage afforded by this policy provided such failure to disclose all hazards or prior "occurrences" is not intentional.

M. KNOWLEDGE OF OCCURRENCE, OFFENSE, CLAIM OR SUIT

Under **Section IV - Commercial General Liability Conditions**, the following is added to Condition **2. Duties In The Event of Occurrence, Offense, Claim Or Suit:**

Knowledge of an "occurrence", offense, claim or "suit" by an agent, servant or "employee" of any insured shall not in itself constitute knowledge of the insured unless an insured listed under Paragraph **1. of Section II - Who Is An Insured** or a person who has been designated by them to receive reports of "occurrences", offenses, claims or "suits" shall have received such notice from the agent, servant or "employee".

N. LIBERALIZATION CLAUSE

If we revise this Commercial General Liability Extension Endorsement to provide more coverage without additional premium charge, your policy will automatically provide the coverage as of the day the revision is effective in your state.

O. BODILY INJURY REDEFINED

Under **Section V - Definitions**, Definition **3.** is replaced by the following:

3. "Bodily Injury" means physical injury, sickness or disease sustained by a person. This includes mental anguish, mental injury, shock, fright or death that results from such physical injury, sickness or disease.

© 2013 Liberty Mutual Insurance

P. **EXTENDED PROPERTY DAMAGE**

Exclusion a. of COVERAGE A. BODILY INJURY AND PROPERTY DAMAGE LIABILITY is replaced by the following:

a. **Expected Or Intended Injury**

"Bodily injury" or "property damage" expected or intended from the standpoint of the insured. This exclusion does not apply to "bodily injury" or "property damage" resulting from the use of reasonable force to protect persons or property.

Q. **WAIVER OF TRANSFER OF RIGHTS OF RECOVERY AGAINST OTHERS TO US - WHEN REQUIRED IN A CONTRACT OR AGREEMENT WITH YOU**

Under **Section IV - Commercial General Liability Conditions,** the following is added to Condition **8. Transfer Of Rights Of Recovery Against Others To Us:**

We waive any right of recovery we may have against a person or organization because of payments we make for injury or damage arising out of your ongoing operations or "your work" done under a contract with that person or organization and included in the "products-completed operations hazard" provided:

1. You and that person or organization have agreed in writing in a contract or agreement that you waive such rights against that person or organization; and
2. The injury or damage occurs subsequent to the execution of the written contract or written agreement.

© 2013 Liberty Mutual Insurance
Includes copyrighted material of Insurance Services Office, Inc., with its permission.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

CALIFORNIA BUSINESS AUTO COVERAGE ENHANCEMENT ENDORSEMENT

This endorsement modifies insurance provided under the following:

BUSINESS AUTO COVERAGE FORM

With respect to coverage afforded by this endorsement, the provisions of the policy apply unless modified by the endorsement.

If the policy to which this endorsement is attached also contains a Business Auto Coverage Enhancement Endorsement with a specific state named in the title, this endorsement does not apply to vehicles garaged in that specified state.

COVERAGE INDEX

SUBJECT	PROVISION NUMBER
ACCIDENTAL AIRBAG DEPLOYMENT	12
ADDITIONAL INSURED BY CONTRACT, AGREEMENT OR PERMIT	3
AMENDED DUTIES IN THE EVENT OF ACCIDENT, CLAIM, SUIT OR LOSS	20
AMENDED FELLOW EMPLOYEE EXCLUSION	5
AUDIO, VISUAL AND DATA ELECTRONIC EQUIPMENT COVERAGE	14
BODILY INJURY REDEFINED	24
EMPLOYEES AS INSUREDS (Including Employee Hired Auto)	2
EXTRA EXPENSE - BROADENED COVERAGE	10
GLASS REPAIR - WAIVER OF DEDUCTIBLE	16
HIRED AUTO COVERAGE TERRITORY	22
HIRED AUTO PHYSICAL DAMAGE (Including Employee Hired Auto)	6
LOAN / LEASE GAP (Coverage Not Available In New York)	15
NEWLY FORMED OR ACQUIRED SUBSIDIARIES	1
PARKED AUTO COLLISION COVERAGE (WAIVER OF DEDUCTIBLE)	17
PERSONAL EFFECTS COVERAGE	11
PHYSICAL DAMAGE - ADDITIONAL TRANSPORTATION EXPENSE COVERAGE	8
PHYSICAL DAMAGE DEDUCTIBLE - VEHICLE TRACKING SYSTEM	13
PRIMARY AND NON-CONTRIBUTORY - WRITTEN CONTRACT OR WRITTEN AGREEMENT	23
RENTAL REIMBURSEMENT	9
SUPPLEMENTARY PAYMENTS	4
TOWING AND LABOR	7
TWO OR MORE DEDUCTIBLES	18
UNINTENTIONAL FAILURE TO DISCLOSE HAZARDS	19
WAIVER OF TRANSFER OF RIGHTS OF RECOVERY AGAINST OTHERS TO US	21

SECTION II - LIABILITY COVERAGE is amended as follows:

1. NEWLY FORMED OR ACQUIRED SUBSIDIARIES

SECTION II - LIABILITY COVERAGE, Paragraph **A.1. Who Is An Insured** is amended to include the following as an "insured":

d. Any legally incorporated subsidiary of which you own more than 50 percent interest during the policy period. Coverage is afforded only for 90 days from the date of acquisition or formation. However, "insured" does not include any organization that:

(1) Is a partnership or joint venture; or

(2) Is an "insured" under any other automobile policy except a policy written specificall y to apply in excess of this policy; or

(3) Has exhausted its Limit of Insurance or had its policy terminated under any other automobile policy.

© 2021 Liberty Mutual Insurance
Includes copyrighted material of Insurance Services Office, Inc., with its permission.

Coverage under this provision d. does not apply to "bodily injury" or "property damage" that occurred before you acquired or formed the organization.

2. **EMPLOYEES AS INSUREDS**

SECTION II - LIABILITY COVERAGE, Paragraph **A.1. Who Is An Insured** is amended to include the following as an "insured":

e. Any "employee" of yours while using a covered "auto" you do not own, hire or borrow but only for acts within the scope of their employment by you. Insurance provided by this endorsement is excess over any other insurance available to any "employee".

f. Any "employee" of yours while operating an "auto" hired or borrowed under a written contract or agreement in that "employee's" name, with your permission, while performing duties related to the conduct of your business and within the scope of their employment. Insurance provided by this endorsement is excess over any other insurance available to the "employee".

3. **ADDITIONAL INSURED BY CONTRACT, AGREEMENT OR PERMIT**

SECTION II - LIABILITY COVERAGE, Paragraph **A.1. Who Is An Insured** is amended to include the following as an "insured":

g. Any person or organization with respect to the operation, maintenance or use of a covered "auto", provided that you and such person or organization have agreed in a written contract, written agreement, or permit issued to you by governmental or public authority, to add such person, or organization, or governmental or public authority to this policy as an "insured".

However, such person or organization is an "insured":

(1) Only with respect to the operation, maintenance or use of a covered "auto";

(2) Only for "bodily injury" or "property damage" caused by an "accident" which takes place after you executed the written contract or written agreement, or the permit has been issued to you; and

(3) Only for the duration of that contract, agreement or permit.

The "insured" is required to submit a claim to any other insurer to which coverage could apply for defense and indemnity. Unless the "insured" has agreed in writing to primary noncontributory wording per enhancement number 23, this policy is excess over any other collectible insurance.

4. **SUPPLEMENTARY PAYMENTS**

SECTION II - LIABILITY COVERAGE, Coverage Extensions, 2.a. Supplementary Payments, Paragraphs (2) and (4) are replaced by the following:

(2) Up to $3,000 for cost of bail bonds (including bonds for related traffic violations) required because of an "accident" we cover. We do not have to furnish these bonds.

(4) All reasonable expenses incurred by the "insured" at our request, including actual loss of earnings up to $500 a day because of time off from work.

5. **AMENDED FELLOW EMPLOYEE EXCLUSION**

In those jurisdictions where, by law, fellow "employees" are not entitled to the protection afforded to the employer by the workers compensation exclusivity rule, or similar protection, the following provision is added:

SECTION II - LIABILITY, Exclusion **B.5. Fellow Employee** does not apply if the "bodily injury" results from the use of a covered "auto" you own or hire if you have workers compensation insurance in force for all of your "employees" at the time of "loss".

This coverage is excess over any other collectible insurance.

SECTION III - PHYSICAL DAMAGE COVERAGE is amended as follows:

6. **HIRED AUTO PHYSICAL DAMAGE**

Paragraph **A.4. Coverage Extensions** of **SECTION III - PHYSICAL DAMAGE COVERAGE**, is amended by adding the following:

If hired "autos" are covered "autos" for Liability Coverage, and if Comprehensive, Specified Causes of Loss or Collision coverage are provided under the Business Auto Coverage Form for any "auto" you own, then the Physical Damage coverages provided are extended to "autos":

© 2021 Liberty Mutual Insurance

a. You hire, rent or borrow; or

b. Your "employee" hires or rents under a written contract or agreement in that "employee's" name, but only if the damage occurs while the vehicle is being used in the conduct of your business,

subject to the following limit and deductible:

a. The most we will pay for "loss" in any one "accident" or "loss" is the smallest of:

(1) $50,000; or

(2) The actual cash value of the damaged or stolen property as of the time of the "loss"; or

(3) The cost of repairing or replacing the damaged or stolen property with other property of like kind and quality, minus a deductible.

b. The deductible will be equal to the largest deductible applicable to any owned "auto" for that coverage.

c. Subject to the limit, deductible and excess provisions described in this provision, we will provide coverage equal to the broadest coverage applicable to any covered "auto" you own.

d. Subject to a maximum of $1,000 per "accident", we will also cover the actual loss of use of the hired "auto" if it results from an "accident", you are legally liable and the lessor incurs an actual financial loss.

e. This coverage extension does not apply to:

(1) Any "auto" that is hired, rented or borrowed with a driver; or

(2) Any "auto" that is hired, rented or borrowed from your "employee" or any member of your "employee's" household.

Coverage provided under this extension is excess over any other collectible insurance available at the time of "loss".

7. **TOWING AND LABOR**

SECTION III - PHYSICAL DAMAGE COVERAGE, Paragraph **A.2. Towing**, is amended by the addition of the following:

We will pay towing and labor costs incurred, up to the limits shown below, each time a covered "auto" classified and rated as a private passenger type, "light truck" or "medium truck" is disabled:

a. For private passenger type vehicles, we will pay up to $75 per disablement.

b. For "light trucks", we will pay up to $75 per disablement. "Light trucks" are trucks that have a gross vehicle weight (GVW) of 10,000 pounds or less.

c. For "medium trucks", we will pay up to $150 per disablement. "Medium trucks" are trucks that have a gross vehicle weight (GVW) of 10,001 - 20,000 pounds.

However, the labor must be performed at the place of disablement.

8. **PHYSICAL DAMAGE - ADDITIONAL TRANSPORTATION EXPENSE COVERAGE**

Paragraph **A.4.a. Coverage Extensions, Transportation Expenses** of **SECTION III - PHYSICAL DAMAGE COVERAGE**, is amended to provide a limit of $50 per day and a maximum limit of $1,500.

9. **RENTAL REIMBURSEMENT**

SECTION III - PHYSICAL DAMAGE COVERAGE, A. Coverage, is amended by adding the following:

a. We will pay up to $75 per day for rental reimbursement expenses incurred by you for the rental of an "auto" because of "accident" or "loss", to an "auto" for which we also pay a "loss" under Comprehensive, Specified Causes of Loss or Collision Coverages. We will pay only for those expenses incurred after the first 24 hours following the "accident" or "loss" to the covered "auto."

b. Rental Reimbursement requires the rental of a comparable or lesser vehicle, which in many cases may be substantially less than $75 per day, and will only be allowed for the period of time it should take to repair or replace the vehicle with reasonable speed and similar quality, up to a maximum of 30 days.

c. We will also pay up to $500 for reasonable and necessary expenses incurred by you to remove and replace your tools and equipment from the covered "auto". This limit is excess over any other collectible insurance.

© 2021 Liberty Mutual Insurance

d. This coverage does not apply unless you have a business necessity that other "autos" available for your use and operation cannot fill.

e. If "loss" results from the total theft of a covered "auto" of the private passenger type, we will pay under this coverage only that amount of your rental reimbursement expenses which is not already provided under Paragraph **4. Coverage Extension**.

f. No deductible applies to this coverage.

g. The insurance provided under this extension is excess over any other collectible insurance.

If this policy also provides Rental Reimbursement Coverage you purchased, the coverage provided by this Enhancement Endorsement is in addition to the coverage you purchased.

For the purposes of this endorsement provision, materials and equipment do not include "personal effects" as defined in provision **11.B.**

10. EXTRA EXPENSE - BROADENED COVERAGE

Under **SECTION III - PHYSICAL DAMAGE COVERAGE, A. Coverage**, we will pay for the expense of returning a stolen covered "auto" to you. The maximum amount we will pay is $1,000.

11. PERSONAL EFFECTS COVERAGE

A. SECTION III - PHYSICAL DAMAGE COVERAGE, A. Coverage, is amended by adding the following:

If you have purchased Comprehensive Coverage on this policy for an "auto" you own and that "auto" is stolen, we will pay, without application of a deductible, up to $600 for "personal effects" stolen with the "auto."

The insurance provided under this provision is excess over any other collectible insurance.

B. SECTION V - DEFINITIONS is amended by adding the following:

For the purposes of this provision, "personal effects" mean tangible property that is worn or carried by an "insured." "Personal effects" does not include tools, equipment, jewelry, money or securities.

12. ACCIDENTAL AIRBAG DEPLOYMENT

SECTION III - PHYSICAL DAMAGE COVERAGE, B. Exclusions is amended by adding the following:

If you have purchased Comprehensive or Collision Coverage under this policy, the exclusion for "loss" relating to mechanical breakdown does not apply to the accidental discharge of an airbag.

Any insurance we provide shall be excess over any other collectible insurance or reimbursement by manufacturer's warranty. However, we agree to pay any deductible applicable to the other coverage or warranty.

13. PHYSICAL DAMAGE DEDUCTIBLE - VEHICLE TRACKING SYSTEM

SECTION III - PHYSICAL DAMAGE COVERAGE, D. Deductible, is amended by adding the following:

Any Comprehensive Deductible shown in the **Declarations** will be reduced by 50% for any "loss" caused by theft if the vehicle is equipped with a vehicle tracking device such as a radio tracking device or a global position device and that device was the method of recovery of the vehicle.

14. AUDIO, VISUAL AND DATA ELECTRONIC EQUIPMENT COVERAGE

SECTION III - PHYSICAL DAMAGE COVERAGE, B. Exclusions, Paragraph a. of the exception to exclusions 4.c. and 4.d. is deleted and replaced with the following:

Exclusions 4.c. and 4.d. do not apply to:

a. Electronic equipment that receives or transmits audio, visual or data signals, whether or not designed solely for the reproduction of sound, if the equipment is:

(1) Permanently installed in the covered "auto" at the time of the "loss" or removable from a housing unit that is permanently installed in the covered "auto"; and

(2) Designed to be solely operated by use from the power from the "auto's" electrical system; and

(3) Physical damage coverages are provided for the covered "auto".

If the "loss" occurs solely to audio, visual or data electronic equipment or accessories used with this equipment, then our obligation to pay for, repair, return or replace damaged or stolen property will be reduced by a $100 deductible.

© 2021 Liberty Mutual Insurance
Includes copyrighted material of Insurance Services Office, Inc., with its permission.

15. **LOAN / LEASE GAP COVERAGE (Not Applicable In New York)**

A. Paragraph **C. Limit Of Insurance** of **SECTION III - PHYSICAL DAMAGE COVERAGE** is amended by adding the following:

The most we will pay for a "total loss" to a covered "auto" owned by or leased to you in any one "accident" is the greater of the:

1. Balance due under the terms of the loan or lease to which the damaged covered "auto" is subject at the time of the "loss" less the amount of:
   a. Overdue payments and financial penalties associated with those payments as of the date of the "loss";
   b. Financial penalties imposed under a lease due to high mileage, excessive use or abnormal wear and tear;
   c. Costs for extended warranties, Credit Life Insurance, Health, Accident or Disability Insurance purchased with the loan or lease;
   d. Transfer or rollover balances from previous loans or leases;
   e. Final payment due under a "Balloon Loan";
   f. The dollar amount of any unrepaired damage which occurred prior to the "total loss" of a covered "auto";
   g. Security deposits not refunded by a lessor;
   h. All refunds payable or paid to you as a result of the early termination of a lease agreement or as a result of the early termination of any warranty or extended service agreement on a covered "auto";
   i. Any amount representing taxes;
   j. Loan or lease termination fees; or
2. The actual cash value of the damage or stolen property as of the time of the "loss".

   An adjustment for depreciation and physical condition will be made in determining the actual cash value at the time of the "loss". This adjustment is not applicable in Texas.

B. **Additional Conditions**

This coverage applies only to the original loan for which the covered "auto" that incurred the "loss" serves as collateral, or lease written on the covered "auto" that incurred the "loss".

C. **SECTION V - DEFINITIONS** is changed by adding the following:

As used in this endorsement provision, the following definitions apply:

"Total loss" means a "loss" in which the cost of repairs plus the salvage value exceeds the actual cash value.

A "balloon loan" is one with periodic payments that are insufficient to repay the balance over the term of the loan, thereby requiring a large final payment.

16. **GLASS REPAIR - WAIVER OF DEDUCTIBLE**

Paragraph **D. Deductible** of **SECTION III - PHYSICAL DAMAGE COVERAGE** is amended by the addition of the following:

No deductible applies to glass damage if the glass is repaired rather than replaced.

17. **PARKED AUTO COLLISION COVERAGE (WAIVER OF DEDUCTIBLE)**

Paragraph **D. Deductible** of **SECTION III - PHYSICAL DAMAGE COVERAGE** is amended by the addition of the following:

The deductible does not apply to "loss" caused by collision to such covered "auto" of the private passenger type or light weight truck with a gross vehicle weight of 10,000 lbs. or less as defined by the manufacturer as maximum loaded weight the "auto" is designed to carry while it is:

a. In the charge of an "insured";
b. Legally parked; and
c. Unoccupied.

© 2021 Liberty Mutual Insurance
Includes copyrighted material of Insurance Services Office, Inc., with its permission.

The "loss" must be reported to the police authorities within 24 hours of known damage.

The total amount of the damage to the covered "auto" must exceed the deductible shown in the Declarations.

This provision does not apply to any "loss" if the covered "auto" is in the charge of any person or organization engaged in the automobile business.

18. TWO OR MORE DEDUCTIBLES

Under **SECTION III - PHYSICAL DAMAGE COVERAGE**, if two or more company policies or coverage forms apply to the same "accident", the following applies to Paragraph **D. Deductible**

a. If the applicable Business Auto deductible is the smaller (or smallest) deductible, it will be waived; or

b. If the applicable Business Auto deductible is not the smaller (or smallest) deductible , it will be reduced by the amount of the smaller (or smallest) deductible; or

c. If the "loss" involves two or more Business Auto coverage forms or policies, the smaller (or smallest) deductible will be waived.

For the purpose of this endorsement, company means any company that is part of the Liberty Mutual Group.

SECTION IV - BUSINESS AUTO CONDITIONS is amended as follows:

19. UNINTENTIONAL FAILURE TO DISCLOSE HAZARDS

SECTION IV- BUSINESS AUTO CONDITIONS , Paragraph **B.2.** is amended by adding the following:

If you unintentionally fail to disclose any hazards, exposures or material facts existing as of the inception date or renewal date of the Business Auto Coverage Form, the coverage afforded by this policy will not be prejudiced.

However, you must report the undisclosed hazard of exposure as soon as practicable after its discovery, and we have the right to collect additional premium for any such hazard or exposure.

20. AMENDED DUTIES IN THE EVENT OF ACCIDENT, CLAIM, SUIT OR LOSS

SECTION IV - BUSINESS AUTO CONDITIONS , Paragraph **A.2.a.** is replaced in its entirety by the following:

a. In the event of "accident", claim, "suit" or "loss", you must promptly notify us when it is known to:

(1) You, if you are an individual;

(2) A partner, if you are a partnership;

(3) Member, if you are a limited liability company;

(4) An executive officer or the "employee" designated by the Named Insured to give such notice, if you are a corporation.

To the extent possible, notice to us should include:

(a) How, when and where the "accident" or "loss" took place;

(b) The "insured's" name and address; and

(c) The names and addresses of any injured persons and witnesses.

21. WAIVER OF TRANSFER OF RIGHTS OF RECOVERY AGAINST OTHERS TO US

SECTION IV - BUSINESS AUTO CONDITIONS , Paragraph **A.5. Transfer Of Rights Of Recovery Against Others To Us**, is amended by the addition of the following:

If the person or organization has in a written agreement waived those rights before an "accident" or "loss", our rights are waived also.

22. HIRED AUTO COVERAGE TERRITORY

SECTION IV - BUSINESS AUTO CONDITIONS , Paragraph **B.7. Policy Period, Coverage Territory** , is amended by the addition of the following:

f. For "autos" hired 30 days or less, the coverage territory is anywhere in the world, provided that the "insured's" responsibility to pay for damages is determined in a "suit", on the merits, in the United States, the territories and possessions of the United States of America, Puerto Rico or Canada or in a settlement we agree to.

© 2021 Liberty Mutual Insurance

This extension of coverage does not apply to an "auto" hired, leased, rented or borrowed with a driver.

23. **PRIMARY AND NON-CONTRIBUTING IF REQUIRED BY WRITTEN CONTRACT OR WRITTEN AGREEMENT**

The following is added to **SECTION IV - BUSINESS AUTO CONDITIONS, General Conditions, B.5. Other Insurance** and supersedes any provision to the contrary:

This Coverage Form's Covered Autos Liability Coverage is primary to and will not seek contribution from any other insurance available to an "insured" under your policy provided that:

1. Such "insured" is a Named Insured under such other insurance; and
2. You have agreed in a written contract or written agreement that this insurance would be primary and would not seek contribution from any other insurance available to such "insured".

SECTION V - DEFINITIONS is amended as follows:

24. **BODILY INJURY REDEFINED**

Under **SECTION V - DEFINITIONS**, Definition **C.** is replaced by the following:

"Bodily injury" means physical injury, sickness or disease sustained by a person, including mental anguish, mental injury, shock, fright or death resulting from any of these at any time.

© 2021 Liberty Mutual Insurance
Includes copyrighted material of Insurance Services Office, Inc., with its permission.

AMENDMENT NO. 1

TO AGREEMENT FOR CONTRACT SERVICES

THIS AMENDMENT TO THE AGREEMENT FOR CONTRACT SERVICES ("Amendment No. 1") by and between the CITY OF CARSON, a California municipal corporation ("City") and MDG ASSOCIATES INC., a California corporation ("Consultant") is effective as of the 6th day of February, 2024.

RECITALS

A. City and Consultant entered into that certain Agreement for Contractual Services dated June 21, 2023 ("Agreement") whereby Consultant agreed to perform services for inspections, appraisal evaluations, coordination of residential and commercial rehabilitation projects and administrative and HUD IDIS training tasks on an as-needed basis for three (3) years with three (3) additional options for one-year extensions, for a total contract sum of $600,000; and

B. City Council established a Citywide Commercial Facade Improvement Program (the "Façade Program") pursuant to the adopted Carson Façade Improvement Program Guidelines for the public purpose of encouraging the improvement, stimulation and revitalization of the exterior facades of existing commercial buildings in various commercial corridors; and

C. The Façade Program is administered by the City and funded by the City's General Fund pursuant to an authorized allocation of $1,000,000 made by the City Council during its meeting of June 21, 2022; and

D. City Council also established a Permanent Local Housing Allocation (PLHA) funded Single-Family Housing Rehabilitation Program ("PLHA Residential Rehabilitation Program") during its meeting of February 7, 2023, for the public purpose of assisting income-qualified, eligible, owner-occupied, and Carson resident single family homeowners; and

E. The PLHA Residential Rehabilitation Program is administered by the City and funded by a PLHA grant agreement with the State of California Department of Housing and Community Development (HCD) pursuant to an authorized allocation of $529,674.50; and

F. City and Consultant now desire to amend the Agreement to: (i) modify the Scope of Services as they relate to the Façade Program and to add services as they pertain to the PLHA Rehabilitation Program through the end of the term, (ii) increase compensation by $168,250 to carry out the modified scope of services of the Agreement through the end of the term, (iii) specify that the Façade Program is to be funded through the City's General Fund, for a new total contract sum of $768,250, and (iv) specify that the PLHA Residential Rehabilitation Program is to be funded through the PLHA grant agreement.

TERMS

1. **Contract Changes**. The Agreement is amended as provided herein (new text is identified in ***bold italics***, deleted text in ~~strike through~~).

A. Section 2.1 (Contract Sum) is hereby amended to read in its entirety as follows:

"Subject to any limitations set forth in this Agreement, City agrees to pay Consultant the amounts specified in the "Schedule of Compensation" attached hereto as Exhibit "C" and incorporated herein by this reference. The total compensation, including reimbursement for actual expenses, shall not exceed ***Seven Hundred Sixty-Eight Thousand Two Hundred Fifty Dollars ($768,250)*** ~~Six Hundred Thousand Dollars ($600,000)~~ (the "Contract Sum"), unless additional compensation is approved pursuant to Section 1.8. In the event City elects to exercise its options to extend the Term pursuant to Section 3.4 hereof, the Contract Sum will increase by an amount of ***$256,083.33*** ~~$200,000~~ per year."

B. A new Article 11 (Funding for Façade Program) is hereby added to the Agreement to read in its entirety as follows:

"ARTICLE 11. FUNDING FOR FAÇADE PROGRAM

Notwithstanding anything contained in Article 10 of this Agreement, all funding for Consultant's services performed for the Façade Program will be paid out of the City's General Fund."

C. A new Article 12 (Funding for PLHA Residential Rehabilitation Program) is hereby added to the Agreement to read in its entirety as follows:

"ARTICLE 12. FUNDING FOR PLHA RESIDENTIAL REHABILITATION PROGRAM

Notwithstanding anything contained in Article 10 of this Agreement, all funding for Consultant's services performed for the PLHA Residential Rehabilitation Program will be paid out of the PLHA grant agreement with HCD."

D. Section I, Subsection B, Paragraph 12, of Exhibit "A" (Scope of Services), is hereby amended to read in its entirety as follows:

"12. Commercial Façade Program Consultant Service:

- ~~Initial inspection of property~~
- ~~Description of work~~
- ~~Bid Procedure~~
- ~~Pre-construction meetings and job walks~~
- ~~Coordination and monitoring of job progress~~
- ~~Recommend/request payments~~
- ~~Case File completion~~
- ***Property Inspection and Work Specifications***
  - ***Review drawings prepared by City's selected program architect.***

- *Draft Construction Scope of Work – Work Description.*
- *Provide Construction Cost Estimates.*
- *Prepare Pre-Construction Pictures.*
- *Send Applicant Work Description for review and revise as needed.*
- *Provide follow-up and related services as needed.*

- *Bid and Construction Process*
  - *Prepare Bid Packages for distribution.*
  - *Serve as Liaison with Program Applicant and contractor(s).*
  - *Provide Technical Support.*
  - *Coordinate Bid Process*
    - *Conduct Mandatory Bid-Walk with Applicant and Contractors.*
    - *Review bids, prepare Bid comparison, and follow-up with Contractors.*
    - *Verification of License and Insurance Documentation.*
    - *Selection and Award of Contract.*
- *Construction Management Oversight*
  - *Conduct progress inspections.*
  - *Prepare and Submit Progress Payment Requests.*
  - *Prepare Punch List, as needed.*
  - *Submit Change Order Request(s) as needed.*
- *Case File Completion*
  - *Prepare Post-Construction Pictures.*
  - *Assist staff with project close out (i.e., Notice of Completion)"*

E. Section I, Subsection B, Paragraph 15, of Exhibit "A" (Scope of Services), is hereby added to read in its entirety as follows:

"15. <u>PLHA Residential Rehabilitation Program Consultant Service</u>:

- *Property Inspection and Work Specifications*
  - *Conduct initial inspection of property.*
  - *Draft Construction Scope of Work – Work Description.*
  - *Provide Construction Cost Estimates.*
  - *Prepare Pre-Construction Pictures.*
  - *Send Applicant Work Description for review and revise as needed.*
  - *Provide follow-up and related services as needed.*

- *Bid and Construction Process*
  - *Prepare Bid Packages for distribution.*
  - *Serve as Liaison with Program Applicant and contractor(s).*
  - *Provide Technical Support.*
  - *Coordinate Bid Process:*
    - *Review bids, prepare Bid comparison, and follow-up with Contractor.*
    - *Verification of License and Insurance Documentation.*
    - *Selection and Award of Contract.*
    - *Prepare Construction and Improvement Agreements.*
    - *Attend Pre-Construction and Contract Signing Meeting.*

- *Construction Management Oversight*
  - *Conduct progress inspections.*
  - *Prepare and Submit Progress Payment Requests.*

- *Prepare Punch List, as needed.*
- *Submit Change Order Request(s) as needed.*

- *Case File Completion*
  - *Prepare Post-Construction Pictures.*
  - *Assist staff with project close out (i.e. Notice of Completion)"*

F. Section IV. of Exhibit "C" (Schedule of Compensation) is hereby amended to read in its entirety as follows:

"**IV.** The total compensation for the Services shall not exceed *$768,250*~~$200,000~~, as provided in Section 2.1 of this Agreement."

2. **Continuing Effect of Agreement.** Except as amended by this Amendment No. 1, all provisions of the Agreement shall remain unchanged and in full force and effect. From and after the date of this Amendment No. 1, whenever the term "Agreement" appears in the Agreement, it shall mean the Agreement, as amended by this Amendment No. 1 to the Agreement.

3. **Affirmation of Agreement; Warranty Re Absence of Defaults.** City and Consultant each ratify and reaffirm each and every one of the respective rights and obligations arising under the Agreement. Each party represents and warrants to the other that there have been no written or oral modifications to the Agreement other than as provided herein. Each party represents and warrants to the other that the Agreement is currently an effective, valid, and binding obligation.

Consultant represents and warrants to City that, as of the date of this Amendment No. 1, City is not in default of any material term of the Agreement and that there have been no events that, with the passing of time or the giving of notice, or both, would constitute a material default under the Agreement.

City represents and warrants to Consultant that, as of the date of this Amendment No. 1, Consultant is not in default of any material term of the Agreement and that there have been no events that, with the passing of time or the giving of notice, or both, would constitute a material default under the Agreement.

4. **Adequate Consideration.** The parties hereto irrevocably stipulate and agree that they have each received adequate and independent consideration for the performance of the obligations they have undertaken pursuant to this Amendment No. 1.

5. **Authority.** The persons executing this Amendment No. 1 on behalf of the parties hereto warrant that (i) such party is duly organized and existing, (ii) they are duly authorized to execute and deliver this Amendment No. 1 on behalf of said party, (iii) by so executing this Amendment No. 1, such party is formally bound to the provisions of this Amendment No. 1, and (iv) the entering into this Amendment No. 1 does not violate any provision of any other Agreement to which said party is bound.

6. **Counterparts.** This Amendment No. 1 may be executed in any number of counterparts and each of such counterparts shall for all purposes be deemed to be an original,

whether the signatures are originals, electronic, facsimiles or digital. All such counterparts shall together constitute but one and the same Amendment No. 1.

[SIGNATURES ON FOLLOWING PAGE]

IN WITNESS WHEREOF, the parties hereto have executed this Amendment No. 1 on the date and year first-above written.

CITY:

CITY OF CARSON, a municipal corporation

Lula Davis-Holmes, Mayor

ATTEST:

Dr. Khaleah K. Bradshaw, City Clerk

APPROVED AS TO FORM:
ALESHIRE & WYNDER, LLP

Sunny K. Soltani, City Attorney
[rjl]

CONSULTANT:

MDG ASSOCIATES INC., a California corporation

By: _____
Name: Rudy Munoz
Title: President

By: _____
Name: Guadalupe R. Munoz
Title: Chief Financial Officer

Two corporate officer signatures required when Consultant is a corporation, with one signature required from each of the following groups: 1) Chairman of the Board, President or any Vice President; and 2) Secretary, any Assistant Secretary, Chief Financial Officer or any Assistant Treasurer. CONSULTANT'S SIGNATURES SHALL BE DULY NOTARIZED, AND APPROPRIATE ATTESTATIONS SHALL BE INCLUDED AS MAY BE REQUIRED BY THE BYLAWS, ARTICLES OF INCORPORATION, OR OTHER RULES OR REGULATIONS APPLICABLE TO CONSULTANT'S BUSINESS ENTITY.

IN WITNESS WHEREOF, the parties hereto have executed this Amendment No. 1 on the date and year first-above written.

CITY:

CITY OF CARSON, a municipal corporation

_____
Lula Davis-Holmes, Mayor

ATTEST:

_____
Dr. Khaleah K. Bradshaw, City Clerk

APPROVED AS TO FORM:
ALESHIRE & WYNDER, LLP

_____
Sunny K. Soltani, City Attorney
[rjl]

CONSULTANT:

MDG ASSOCIATES INC., a California corporation

By:_____
Name: Rudy Munoz
Title: President

By:_____
Name: Guadalupe R. Munoz
Title: Chief Financial Officer

Two corporate officer signatures required when Consultant is a corporation, with one signature required from each of the following groups: 1) Chairman of the Board, President or any Vice President; and 2) Secretary, any Assistant Secretary, Chief Financial Officer or any Assistant Treasurer. CONSULTANT'S SIGNATURES SHALL BE DULY NOTARIZED, AND APPROPRIATE ATTESTATIONS SHALL BE INCLUDED AS MAY BE REQUIRED BY THE BYLAWS, ARTICLES OF INCORPORATION, OR OTHER RULES OR REGULATIONS APPLICABLE TO CONSULTANT'S BUSINESS ENTITY.

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy or validity of that document.

STATE OF CALIFORNIA

COUNTY OF LOS ANGELES

On Feb 2, 2024 before me, Juan C. Rios, personally appeared Rudy Muñoz, proved to me on the basis of satisfactory evidence to be the person(s) whose names(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: _____

JUAN C. RIOS
Notary Public - California
San Bernardino County
Commission # 2402181
My Comm. Expires May 11, 2026

OPTIONAL

Though the data below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent reattachment of this form.

CAPACITY CLAIMED BY SIGNER

- ☐ INDIVIDUAL
- ☐ CORPORATE OFFICER

_____
TITLE(S)

- ☐ PARTNER(S) ☐ LIMITED ☐ GENERAL
- ☐ ATTORNEY-IN-FACT
- ☐ TRUSTEE(S)
- ☐ GUARDIAN/CONSERVATOR
- ☐ OTHER_____

SIGNER IS REPRESENTING:
(NAME OF PERSON(S) OR ENTITY(IES))

_____

_____

DESCRIPTION OF ATTACHED DOCUMENT

_____
TITLE OR TYPE OF DOCUMENT

_____
NUMBER OF PAGES

_____
DATE OF DOCUMENT

_____
SIGNER(S) OTHER THAN NAMED ABOVE

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy or validity of that document.

STATE OF CALIFORNIA

COUNTY OF LOS ANGELES

On Feb 2, 2024 before me, Juan C. Rios, personally appeared Guadalupe R. Muñoz proved to me on the basis of satisfactory evidence to be the person(s) whose names(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: _____

JUAN C. RIOS
Notary Public · California
San Bernardino County
Commission # 2402181
My Comm. Expires May 11, 2026

OPTIONAL

Though the data below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent reattachment of this form.

CAPACITY CLAIMED BY SIGNER

- ☐ INDIVIDUAL
- ☐ CORPORATE OFFICER

_____
TITLE(S)

- ☐ PARTNER(S) ☐ LIMITED ☐ GENERAL
- ☐ ATTORNEY-IN-FACT
- ☐ TRUSTEE(S)
- ☐ GUARDIAN/CONSERVATOR
- ☐ OTHER_____

SIGNER IS REPRESENTING:
(NAME OF PERSON(S) OR ENTITY(IES))

_____

_____

DESCRIPTION OF ATTACHED DOCUMENT

_____
TITLE OR TYPE OF DOCUMENT

_____
NUMBER OF PAGES

_____
DATE OF DOCUMENT

_____
SIGNER(S) OTHER THAN NAMED ABOVE

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 6/22/2023

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME: Kasey Heupel	
The Buckner Company of Colorado 6400 S. FIDDLERS GREEN CIRCLE, SUITE 950 Greenwood Village CO 80111	PHONE (A/C, No, Ext): 13037563418	FAX (A/C, No):
License#: 480397	E-MAIL ADDRESS: denver@buckner.com	
	INSURER(S) AFFORDING COVERAGE	NAIC #
INSURED MDGASSO-02	INSURER A : Certain Underwriters at Lloyds	
MDG Associates, Inc. 10722 Arrow Route, Suite 822 Rancho Cucamonga CA 91730	INSURER B :	
	INSURER C :	
	INSURER D :	
	INSURER E :	
	INSURER F :	

COVERAGES **CERTIFICATE NUMBER:** 1107382365 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
	COMMERCIAL GENERAL LIABILITY						EACH OCCURRENCE	$
	☐ CLAIMS-MADE ☐ OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence)	$
							MED EXP (Any one person)	$
							PERSONAL & ADV INJURY	$
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	$
	☐ POLICY ☐ PRO-JECT ☐ LOC						PRODUCTS - COMP/OP AGG	$
	☐ OTHER:							$
	AUTOMOBILE LIABILITY						COMBINED SINGLE LIMIT (Ea accident)	$
	☐ ANY AUTO						BODILY INJURY (Per person)	$
	☐ OWNED AUTOS ONLY ☐ SCHEDULED AUTOS						BODILY INJURY (Per accident)	$
	☐ HIRED AUTOS ONLY ☐ NON-OWNED AUTOS ONLY						PROPERTY DAMAGE (Per accident)	$
								$
	☐ UMBRELLA LIAB ☐ OCCUR						EACH OCCURRENCE	$
	☐ EXCESS LIAB ☐ CLAIMS-MADE						AGGREGATE	$
	☐ DED ☐ RETENTION $							$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y / N						☐ PER STATUTE ☐ OTH-ER	
	ANYPROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? ☐ N / A (Mandatory in NH)						E.L. EACH ACCIDENT	$
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE	$
							E.L. DISEASE - POLICY LIMIT	$
A	Professional Liability			TMP00025701	7/1/2023	7/1/2024	Aggregate Per Claim	2,000,000 $2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER

City of Carson
Attn: Risk Management Dept.
701 East Carson Street
Carson CA 90745

INSURANCE APPROVED
RG
6/29/2023

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

© 1988-2015 ACORD CORPORATION. All rights reserved.

The ACORD name and logo are registered marks of ACORD

MDGASSO-01 CFRANCIS

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 6/22/2023

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME: Chip Francis	
Kelley, Jiggins & Associates 455 N. El Molino Ave. Pasadena, CA 91101	PHONE (A/C, No, Ext): (626) 396-1035	FAX (A/C, No): (626) 396-1045
	E-MAIL ADDRESS: chip@kjains.com	
	INSURER(S) AFFORDING COVERAGE	NAIC #
	INSURER A : West American Insurance Company	44393
INSURED	INSURER B : Ohio Security Insurance Company	24082
MDG Associates, Inc. 10722 Arrow Route, Ste. 822 Rancho Cucamonga, CA 91730	INSURER C : American Fire & Casualty Co.	24066
	INSURER D :	
	INSURER E :	
	INSURER F :	

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X COMMERCIAL GENERAL LIABILITY						EACH OCCURRENCE	$ 1,000,000
	[ ] CLAIMS-MADE [X] OCCUR	X	X	BKW57179298	7/1/2023	7/1/2024	DAMAGE TO RENTED PREMISES (Ea occurrence)	$ 200,000
							MED EXP (Any one person)	$ 15,000
							PERSONAL & ADV INJURY	$ 1,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	$ 2,000,000
	X POLICY [ ] PRO-JECT [ ] LOC						PRODUCTS - COMP/OP AGG	$ 2,000,000
	[ ] OTHER:							$
B	AUTOMOBILE LIABILITY						COMBINED SINGLE LIMIT (Ea accident)	$ 1,000,000
	X ANY AUTO						BODILY INJURY (Per person)	$
	[ ] OWNED AUTOS ONLY [ ] SCHEDULED AUTOS	X	X	BAS57179298	7/1/2023	7/1/2024	BODILY INJURY (Per accident)	$
	[ ] HIRED AUTOS ONLY [ ] NON-OWNED AUTOS ONLY						PROPERTY DAMAGE (Per accident)	$
								$
C	[ ] UMBRELLA LIAB [X] OCCUR						EACH OCCURRENCE	$ 4,000,000
	X EXCESS LIAB [ ] CLAIMS-MADE			ESA57179298	7/1/2023	7/1/2024	AGGREGATE	$ 4,000,000
	[ ] DED [ ] RETENTION $							$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y / N						[ ] PER STATUTE [ ] OTH-ER	
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? [ ] (Mandatory in NH)	N / A					E.L. EACH ACCIDENT	$
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE	$
							E.L. DISEASE - POLICY LIMIT	$

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Certificate Holders are named as Additional Insured on General Liability per blanket form CG8810 0413 and on Auto Liability per form AC8543 0618.

Certificate Holders are named as Additional Insured on General Liability per blanket form CG8810 0413 and on Auto Liability per form AC8543 0618 but only as respects the insured's operations as it relates to their signed contract in regards to the Home Inspection Services.

*30day Notice of Cancellation except 10 days for non-payment of premium.

CERTIFICATE HOLDER

City of Carson
Attn: Risk Management Department
701 E. Carson Street
Carson, CA 90745

INSURANCE APPROVED
RG
6/29/2023

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

© 1988-2015 ACORD CORPORATION. All rights reserved.

The ACORD name and logo are registered marks of ACORD

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

COMMERCIAL GENERAL LIABILITY EXTENSION

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

INDEX

SUBJECT	PAGE
NON-OWNED AIRCRAFT	2
NON-OWNED WATERCRAFT	2
PROPERTY DAMAGE LIABILITY - ELEVATORS	2
EXTENDED DAMAGE TO PROPERTY RENTED TO YOU (Tenant's Property Damage)	2
MEDICAL PAYMENTS EXTENSION	3
EXTENSION OF SUPPLEMENTARY PAYMENTS - COVERAGES A AND B	3
ADDITIONAL INSUREDS - BY CONTRACT, AGREEMENT OR PERMIT	3
PRIMARY AND NON-CONTRIBUTORY- ADDITIONAL INSURED EXTENSION	5
ADDITIONAL INSUREDS - EXTENDED PROTECTION OF YOUR "LIMITS OF INSURANCE"	6
WHO IS AN INSURED - INCIDENTAL MEDICAL ERRORS/MALPRACTICE AND WHO IS AN INSURED - FELLOW EMPLOYEE EXTENSION - MANAGEMENT EMPLOYEES	6
NEWLY FORMED OR ADDITIONALLY ACQUIRED ENTITIES	7
FAILURE TO DISCLOSE HAZARDS AND PRIOR OCCURRENCES	7
KNOWLEDGE OF OCCURRENCE, OFFENSE, CLAIM OR SUIT	7
LIBERALIZATION CLAUSE	7
BODILY INJURY REDEFINED	7
EXTENDED PROPERTY DAMAGE	8
WAIVER OF TRANSFER OF RIGHTS OF RECOVERY AGAINST OTHERS TO US - WHEN REQUIRED IN A CONTRACT OR AGREEMENT WITH YOU	8

© 2013 Liberty Mutual Insurance
Includes copyrighted material of Insurance Services Office, Inc., with its permission.

With respect to coverage afforded by this endorsement, the provisions of the policy apply unless modified by the endorsement.

A. **NON-OWNED AIRCRAFT**

Under Paragraph **2. Exclusions** of **Section I - Coverage A - Bodily Injury And Property Damage Liability**, exclusion **g. Aircraft, Auto Or Watercraft** does not apply to an aircraft provided:

1. It is not owned by any insured;
2. It is hired, chartered or loaned with a trained paid crew;
3. The pilot in command holds a currently effective certificate, issued by the duly constituted authority of the United States of America or Canada, designating her or him a commercial or airline pilot; and
4. It is not being used to carry persons or property for a charge.

However, the insurance afforded by this provision does not apply if there is available to the insured other valid and collectible insurance, whether primary, excess (other than insurance written to apply specifically in excess of this policy), contingent or on any other basis, that would also apply to the loss covered under this provision.

B. **NON-OWNED WATERCRAFT**

Under Paragraph **2. Exclusions** of **Section I - Coverage A - Bodily Injury And Property Damage Liability**, Subparagraph **(2)** of exclusion **g. Aircraft, Auto Or Watercraft** is replaced by the following:

This exclusion does not apply to:

(2) A watercraft you do not own that is:

(a) Less than 52 feet long; and

(b) Not being used to carry persons or property for a charge.

C. **PROPERTY DAMAGE LIABILITY - ELEVATORS**

1. Under Paragraph **2. Exclusions** of **Section I - Coverage A - Bodily Injury And Property Damage Liability**, Subparagraphs **(3)**, **(4)** and **(6)** of exclusion **j. Damage To Property** do not apply if such "property damage" results from the use of elevators. For the purpose of this provision, elevators do not include vehicle lifts. Vehicle lifts are lifts or hoists used in automobile service or repair operations.

2. The following is added to **Section IV - Commercial General Liability Conditions**, Condition **4. Other Insurance**, Paragraph **b. Excess Insurance:**

The insurance afforded by this provision of this endorsement is excess over any property insurance, whether primary, excess, contingent or on any other basis.

D. **EXTENDED DAMAGE TO PROPERTY RENTED TO YOU (Tenant's Property Damage)**

If Damage To Premises Rented To You is not otherwise excluded from this Coverage Part:

1. Under Paragraph **2. Exclusions of Section I - Coverage A - Bodily Injury and Property Damage Liability:**

a. The fourth from the last paragraph of exclusion **j. Damage To Property** is replaced by the following:

Paragraphs **(1)**, **(3)** and **(4)** of this exclusion do not apply to "property damage" (other than damage by fire, lightning, explosion, smoke, or leakage from an automatic fire protection system) to:

(i) Premises rented to you for a period of 7 or fewer consecutive days; or

(ii) Contents that you rent or lease as part of a premises rental or lease agreement for a period of more than 7 days.

Paragraphs **(1)**, **(3)** and **(4)** of this exclusion do not apply to "property damage" to contents of premises rented to you for a period of 7 or fewer consecutive days.

A separate limit of insurance applies to this coverage as described in **Section III - Limits of Insurance.**

© 2013 Liberty Mutual Insurance
Includes copyrighted material of Insurance Services Office, Inc., with its permission.

b. The last paragraph of subsection **2. Exclusions** is replaced by the following:

Exclusions **c.** through **n.** do not apply to damage by fire, lightning, explosion, smoke or leakage from automatic fire protection systems to premises while rented to you or temporarily occupied by you with permission of the owner. A separate limit of insurance applies to Damage To Premises Rented To You as described in **Section III - Limits Of Insurance.**

2. Paragraph 6. under **Section III - Limits Of Insurance** is replaced by the following:

6. Subject to Paragraph 5. above, the Damage To Premises Rented To You Limit is the most we will pay under Coverage A for damages because of "property damage" to:

a. Any one premise:

(1) While rented to you; or

(2) While rented to you or temporarily occupied by you with permission of the owner for damage by fire, lightning, explosion, smoke or leakage from automatic protection systems; or

b. Contents that you rent or lease as part of a premises rental or lease agreement.

3. As regards coverage provided by this provision **D. EXTENDED DAMAGE TO PROPERTY RENTED TO YOU (Tenant's Property Damage)** - Paragraph **9.a.** of **Definitions** is replaced with the following:

9.a. A contract for a lease of premises. However, that portion of the contract for a lease of premises that indemnifies any person or organization for damage by fire, lightning, explosion, smoke, or leakage from automatic fire protection systems to premises while rented to you or temporarily occupied by you with the permission of the owner, or for damage to contents of such premises that are included in your premises rental or lease agreement, is not an "insured contract".

E. MEDICAL PAYMENTS EXTENSION

If **Coverage C Medical Payments** is not otherwise excluded, the Medical Payments provided by this policy are amended as follows:

Under Paragraph 1. **Insuring Agreement** of **Section I - Coverage C - Medical Payments,** Subparagraph **(b)** of Paragraph a. is replaced by the following:

(b) The expenses are incurred and reported within three years of the date of the accident; and

F. EXTENSION OF SUPPLEMENTARY PAYMENTS - COVERAGES A AND B

1. Under **Supplementary Payments - Coverages A and B,** Paragraph **1.b.** is replaced by the following:

b. Up to **$3,000** for cost of bail bonds required because of accidents or traffic law violations arising out of the use of any vehicle to which the Bodily Injury Liability Coverage applies. We do not have to furnish these bonds.

2. Paragraph **1.d.** is replaced by the following:

d. All reasonable expenses incurred by the insured at our request to assist us in the investigation or defense of the claim or "suit", including actual loss of earnings up to **$500** a day because of time off from work.

G. ADDITIONAL INSUREDS - BY CONTRACT, AGREEMENT OR PERMIT

1. Paragraph 2. under **Section II - Who Is An Insured** is amended to include as an insured any person or organization whom you have agreed to add as an additional insured in a written contract, written agreement or permit. Such person or organization is an additional insured but only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused in whole or in part by:

a. Your acts or omissions, or the acts or omissions of those acting on your behalf, in the performance of your on going operations for the additional insured that are the subject of the written contract or written agreement provided that the "bodily injury" or "property damage" occurs, or the "personal and advertising injury" is committed, subsequent to the signing of such written contract or written agreement; or

© 2013 Liberty Mutual Insurance
Includes copyrighted material of Insurance Services Office, Inc., with its permission.

b. Premises or facilities rented by you or used by you; or

c. The maintenance, operation or use by you of equipment rented or leased to you by such person or organization; or

d. Operations performed by you or on your behalf for which the state or political subdivision has issued a permit subject to the following additional provisions:

(1) This insurance does not apply to "bodily injury", "property damage", or "personal and advertising injury" arising out of the operations performed for the state or political subdivision;

(2) This insurance does not apply to "bodily injury" or "property damage" included within the "completed operations hazard".

(3) Insurance applies to premises you own, rent, or control but only with respect to the following hazards:

(a) The existence, maintenance, repair, construction, erection, or removal of advertising signs, awnings, canopies, cellar entrances, coal holes, driveways, manholes, marquees, hoist away openings, sidewalk vaults, street banners, or decorations and similar exposures; or

(b) The construction, erection, or removal of elevators; or

(c) The ownership, maintenance, or use of any elevators covered by this insurance.

However:

1. The insurance afforded to such additional insured only applies to the extent permitted by law; and

2. If coverage provided to the additional insured is required by a contract or agreement, the insurance afforded to such additional insured will not be broader than that which you are required by the contract or agreement to provide for such additional insured.

With respect to Paragraph 1.a. above, a person's or organization's status as an additional insured under this endorsement ends when:

(1) All work, including materials, parts or equipment furnished in connection with such work, on the project (other than service, maintenance or repairs) to be performed by or on behalf of the additional insured(s) at the location of the covered operations has been completed; or

(2) That portion of "your work" out of which the injury or damage arises has been put to its intended use by any person or organization other than another contractor or subcontractor engaged in performing operations for a principal as a part of the same project.

With respect to Paragraph 1.b. above, a person's or organization's status as an additional insured under this endorsement ends when their written contract or written agreement with you for such premises or facilities ends.

With respects to Paragraph 1.c. above, this insurance does not apply to any "occurrence" which takes place after the equipment rental or lease agreement has expired or you have returned such equipment to the lessor.

The insurance provided by this endorsement applies only if the written contract or written agreement is signed prior to the "bodily injury" or "property damage".

We have no duty to defend an additional insured under this endorsement until we receive written notice of a "suit" by the additional insured as required in Paragraph b. of Condition **2. Duties In the Event Of Occurrence, Offense, Claim Or Suit** under **Section IV - Commercial General Liability Conditions.**

© 2013 Liberty Mutual Insurance
Includes copyrighted material of Insurance Services Office, Inc., with its permission.

2. With respect to the insurance provided by this endorsement, the following are added to Paragraph 2. **Exclusions** under **Section I - Coverage A - Bodily Injury And Property Damage Liability:**

This insurance does not apply to:

a. "Bodily injury" or "property damage" arising from the sole negligence of the additional insured.

b. "Bodily injury" or "property damage" that occurs prior to you commencing operations at the location where such "bodily injury" or "property damage" occurs.

c. "Bodily injury", "property damage" or "personal and advertising injury" arising out of the rendering of, or the failure to render, any professional architectural, engineering or surveying services, including:

(1) The preparing, approving, or failing to prepare or approve, maps, shop drawings, opinions, reports, surveys, field orders, change orders or drawings and specifications; or

(2) Supervisory, inspection, architectural or engineering activities.

This exclusion applies even if the claims against any insured allege negligence or other wrongdoing in the supervision, hiring, employment, training or monitoring of others by that insured, if the "occurrence" which caused the "bodily injury" or "property damage", or the offense which caused the "personal and advertising injury", involved the rendering of, or the failure to render, any professional architectural, engineering or surveying services.

d. "Bodily injury" or "property damage" occurring after:

(1) All work, including materials, parts or equipment furnished in connection with such work, on the project (other than service, maintenance or repairs) to be performed by or on behalf of the additional insured(s) at the location of the covered operations has been completed; or

(2) That portion of "your work" out of which the injury or damage arises has been put to its intended use by any person or organization other than another contractor or subcontractor engaged in performing operations for a principal as a part of the same project.

e. Any person or organization specifically designated as an additional insured for ongoing operations by a separate **ADDITIONAL INSURED -OWNERS, LESSEES OR CONTRACTORS** endorsement issued by us and made a part of this policy.

3. With respect to the insurance afforded to these additional insureds, the following is added to **Section III - Limits Of Insurance:**

If coverage provided to the additional insured is required by a contract or agreement, the most we will pay on behalf of the additional insured is the amount of insurance:

a. Required by the contract or agreement; or

b. Available under the applicable Limits of Insurance shown in the Declarations;

whichever is less.

This endorsement shall not increase the applicable Limits of Insurance shown in the Declaratio ns.

H. PRIMARY AND NON-CONTRIBUTORY ADDITIONAL INSURED EXTENSION

This provision applies to any person or organization who qualifies as an additional insured under any form or endorsement under this policy.

Condition **4. Other Insurance** of **SECTION IV - COMMERCIAL GENERAL LIABILITY CONDITIONS** is amended as follows:

a. The following is added to Paragraph **a. Primary Insurance:**

If an additional insured's policy has an Other Insurance provision making its policy excess, and you have agreed in a written contract or written agreement to provide the additional insured coverage on a primary and noncontributory basis, this policy shall be primary and we will not seek contribution from the additional insured's policy for damages we cover.

© 2013 Liberty Mutual Insurance
Includes copyrighted material of Insurance Services Office, Inc., with its permission.

b. The following is added to Paragraph **b. Excess Insurance:**

When a written contract or written agreement, other than a premises lease, facilities rental contract or agreement, an equipment rental or lease contract or agreement, or permit issued by a state or political subdivision between you and an additional insured does not require this insurance to be primary or primary and non-contributory, this insurance is excess over any other insurance for which the additional insured is designated as a Named Insured.

Regardless of the written agreement between you and an additional insured, this insurance is excess over any other insurance whether primary, excess, contingent or on any other basis for which the additional insured has been added as an additional insured on other policies.

I. **ADDITIONAL INSUREDS - EXTENDED PROTECTION OF YOUR "LIMITS OF INSURANCE"**

This provision applies to any person or organization who qualifies as an additional insured under any form or endorsement under this policy.

1. The following is added to Condition **2. Duties In The Event Of Occurrence, Offense, Claim or Suit:**

   An additional insured under this endorsement will as soon as practicable:

   a. Give written notice of an "occurrence" or an offense that may result in a claim or "suit" under this insurance to us;

   b. Tender the defense and indemnity of any claim or "suit" to all insurers whom also have insurance available to the additional insured; and

   c. Agree to make available any other insurance which the additional insured has for a loss we cover under this Coverage Part.

   d. We have no duty to defend or indemnify an additional insured under this endorsement until we receive written notice of a "suit" by the additional insured.

2. The limits of insurance applicable to the additional insured are those specified in a written contract or written agreement or the limits of insurance as stated in the Declarations of this policy and defined in **Section III - Limits of Insurance** of this policy, whichever are less. These limits are inclusive of and not in addition to the limits of insurance available under this policy.

J. **WHO IS AN INSURED - INCIDENTAL MEDICAL ERRORS / MALPRACTICE**
WHO IS AN INSURED - FELLOW EMPLOYEE EXTENSION - MANAGEMENT EMPLOYEES

Paragraph **2.a.(1)** of **Section II - Who Is An Insured** is replaced with the following:

(1) "Bodily injury" or "personal and advertising injury":

(a) To you, to your partners or members (if you are a partnership or joint venture), to your members (if you are a limited liability company), to a co-"employee" while in the course of his or her employment or performing duties related to the conduct of your business, or to your other "volunteer workers" while performing duties related to the conduct of your business;

(b) To the spouse, child, parent, brother or sister of that co-"employee" or "volunteer worker" as a consequence of Paragraph **(1) (a)** above;

(c) For which there is any obligation to share damages with or repay someone else who must pay damages because of the injury described in Paragraphs **(1) (a)** or **(b)** above; or

(d) Arising out of his or her providing or failing to provide professional health care services. However, if you are not in the business of providing professional health care services or providing professional health care personnel to others, or if coverage for providing professional health care services is not otherwise excluded by separate endorsement, this provision (Paragraph **(d)**) does not apply.

Paragraphs **(a)** and **(b)** above do not apply to "bodily injury" or "personal and advertising injury" caused by an "employee" who is acting in a supervisory capacity for you. Supervisory capacity as used herein means the "employee's" job responsibilities assigned by you, includes the direct supervision of other "employees" of yours. However, none of these "employees" are insureds for "bodily injury" or "personal and

© 2013 Liberty Mutual Insurance
Includes copyrighted material of Insurance Services Office, Inc., with its permission.

advertising injury" arising out of their willful conduct, which is defined as the purposeful or willful intent to cause "bodily injury" or "personal and advertising injury", or caused in whole or in part by their intoxication by liquor or controlled substances.

The coverage provided by provision J. is excess over any other valid and collectable insurance available to your "employee".

K. NEWLY FORMED OR ADDITIONALLY ACQUIRED ENTITIES

Paragraph 3. of **Section II - Who Is An Insured** is replaced by the following:

3. Any organization you newly acquire or form and over which you maintain ownership or majority interest, will qualify as a Named Insured if there is no other similar insurance available to that organization. However:
   a. Coverage under this provision is afforded only until the expiration of the policy period in which the entity was acquired or formed by you;
   b. Coverage A does not apply to "bodily injury" or "property damage" that occurred before you acquired or formed the organization; and
   c. Coverage B does not apply to "personal and advertising injury" arising out of an offense committed before you acquired or formed the organization.
   d. Records and descriptions of operations must be maintained by the first Named Insured.

No person or organization is an insured with respect to the conduct of any current or past partnership, joint venture or limited liability company that is not shown as a Named Insured in the Declarations or qualifies as an insured under this provision.

L. FAILURE TO DISCLOSE HAZARDS AND PRIOR OCCURRENCES

Under **Section IV - Commercial General Liability Conditions**, the following is added to Condition **6. Representations:**

Your failure to disclose all hazards or prior "occurrences" existing as of the inception date of the policy shall not prejudice the coverage afforded by this policy provided such failure to disclose all hazards or prior "occurrences" is not intentional.

M. KNOWLEDGE OF OCCURRENCE, OFFENSE, CLAIM OR SUIT

Under **Section IV - Commercial General Liability Conditions**, the following is added to Condition **2. Duties In The Event of Occurrence, Offense, Claim Or Suit:**

Knowledge of an "occurrence", offense, claim or "suit" by an agent, servant or "employee" of any insured shall not in itself constitute knowledge of the insured unless an insured listed under Paragraph 1. of **Section II - Who Is An Insured** or a person who has been designated by them to receive reports of "occurrences", offenses, claims or "suits" shall have received such notice from the agent, servant or "employee".

N. LIBERALIZATION CLAUSE

If we revise this Commercial General Liability Extension Endorsement to provide more coverage without additional premium charge, your policy will automatically provide the coverage as of the day the revision is effective in your state.

O. BODILY INJURY REDEFINED

Under **Section V - Definitions**, Definition 3. is replaced by the following:

3. "Bodily Injury" means physical injury, sickness or disease sustained by a person. This includes mental anguish, mental injury, shock, fright or death that results from such physical injury, sickness or disease.

© 2013 Liberty Mutual Insurance
Includes copyrighted material of Insurance Services Office, Inc., with its permission.

P. **EXTENDED PROPERTY DAMAGE**

Exclusion a. of COVERAGE A. BODILY INJURY AND PROPERTY DAMAGE LIABILITY is replaced by the following:

a. **Expected Or Intended Injury**

"Bodily injury" or "property damage" expected or intended from the standpoint of the insured. This exclusion does not apply to "bodily injury" or "property damage" resulting from the use of reasonable force to protect persons or property.

Q. **WAIVER OF TRANSFER OF RIGHTS OF RECOVERY AGAINST OTHERS TO US - WHEN REQUIRED IN A CONTRACT OR AGREEMENT WITH YOU**

Under **Section IV - Commercial General Liability Conditions,** the following is added to Condition **8. Transfer Of Rights Of Recovery Against Others To Us:**

We waive any right of recovery we may have against a person or organization because of payments we make for injury or damage arising out of your ongoing operations or "your work" done under a contract with that person or organization and included in the "products-completed operations hazard" provided:

1. You and that person or organization have agreed in writing in a contract or agreement that you waive such rights against that person or organization; and
2. The injury or damage occurs subsequent to the execution of the written contract or written agreement.

© 2013 Liberty Mutual Insurance
Includes copyrighted material of Insurance Services Office, Inc., with its permission.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

CALIFORNIA BUSINESS AUTO COVERAGE ENHANCEMENT ENDORSEMENT

This endorsement modifies insurance provided under the following:

BUSINESS AUTO COVERAGE FORM

With respect to coverage afforded by this endorsement, the provisions of the policy apply unless modified by the endorsement.

If the policy to which this endorsement is attached also contains a Business Auto Coverage Enhancement Endorsement with a specific state named in the title, this endorsement does not apply to vehicles garaged in that specified state.

COVERAGE INDEX

SUBJECT	PROVISION NUMBER
ACCIDENTAL AIRBAG DEPLOYMENT	12
ADDITIONAL INSURED BY CONTRACT, AGREEMENT OR PERMIT	3
AMENDED DUTIES IN THE EVENT OF ACCIDENT, CLAIM, SUIT OR LOSS	20
AMENDED FELLOW EMPLOYEE EXCLUSION	5
AUDIO, VISUAL AND DATA ELECTRONIC EQUIPMENT COVERAGE	14
BODILY INJURY REDEFINED	24
EMPLOYEES AS INSUREDS (Including Employee Hired Auto)	2
EXTRA EXPENSE - BROADENED COVERAGE	10
GLASS REPAIR - WAIVER OF DEDUCTIBLE	16
HIRED AUTO COVERAGE TERRITORY	22
HIRED AUTO PHYSICAL DAMAGE (Including Employee Hired Auto)	6
LOAN / LEASE GAP (Coverage Not Available In New York)	15
NEWLY FORMED OR ACQUIRED SUBSIDIARIES	1
PARKED AUTO COLLISION COVERAGE (WAIVER OF DEDUCTIBLE)	17
PERSONAL EFFECTS COVERAGE	11
PHYSICAL DAMAGE - ADDITIONAL TRANSPORTATION EXPENSE COVERAGE	8
PHYSICAL DAMAGE DEDUCTIBLE - VEHICLE TRACKING SYSTEM	13
PRIMARY AND NON-CONTRIBUTORY - WRITTEN CONTRACT OR WRITTEN AGREEMENT	23
RENTAL REIMBURSEMENT	9
SUPPLEMENTARY PAYMENTS	4
TOWING AND LABOR	7
TWO OR MORE DEDUCTIBLES	18
UNINTENTIONAL FAILURE TO DISCLOSE HAZARDS	19
WAIVER OF TRANSFER OF RIGHTS OF RECOVERY AGAINST OTHERS TO US	21

SECTION II - LIABILITY COVERAGE is amended as follows:

1. NEWLY FORMED OR ACQUIRED SUBSIDIARIES

SECTION II - LIABILITY COVERAGE, Paragraph **A.1. Who Is An Insured** is amended to include the following as an "insured":

d. Any legally incorporated subsidiary of which you own more than 50 percent interest during the policy period. Coverage is afforded only for 90 days from the date of acquisition or formation. However, "insured" does not include any organization that:

(1) Is a partnership or joint venture; or

(2) Is an "insured" under any other automobile policy except a policy written specificall y to apply in excess of this policy; or

(3) Has exhausted its Limit of Insurance or had its policy terminated under any other automobile policy.

© 2021 Liberty Mutual Insurance
Includes copyrighted material of Insurance Services Office, Inc., with its permission.

Coverage under this provision d. does not apply to "bodily injury" or "property damage" that occurred before you acquired or formed the organization.

2. **EMPLOYEES AS INSUREDS**

SECTION II - LIABILITY COVERAGE, Paragraph **A.1. Who Is An Insured** is amended to include the following as an "insured":

e. Any "employee" of yours while using a covered "auto" you do not own, hire or borrow but only for acts within the scope of their employment by you. Insurance provided by this endorsement is excess over any other insurance available to any "employee".

f. Any "employee" of yours while operating an "auto" hired or borrowed under a written contract or agreement in that "employee's" name, with your permission, while performing duties related to the conduct of your business and within the scope of their employment. Insurance provided by this endorsement is excess over any other insurance available to the "employee".

3. **ADDITIONAL INSURED BY CONTRACT, AGREEMENT OR PERMIT**

SECTION II - LIABILITY COVERAGE, Paragraph **A.1. Who Is An Insured** is amended to include the following as an "insured":

g. Any person or organization with respect to the operation, maintenance or use of a covered "auto", provided that you and such person or organization have agreed in a written contract, written agreement, or permit issued to you by governmental or public authority, to add such person, or organization, or governmental or public authority to this policy as an "insured".

However, such person or organization is an "insured":

(1) Only with respect to the operation, maintenance or use of a covered "auto";

(2) Only for "bodily injury" or "property damage" caused by an "accident" which takes place after you executed the written contract or written agreement, or the permit has been issued to you; and

(3) Only for the duration of that contract, agreement or permit.

The "insured" is required to submit a claim to any other insurer to which coverage could apply for defense and indemnity. Unless the "insured" has agreed in writing to primary noncontributory wording per enhancement number 23, this policy is excess over any other collectible insurance.

4. **SUPPLEMENTARY PAYMENTS**

SECTION II - LIABILITY COVERAGE, Coverage Extensions, 2.a. Supplementary Payments, Paragraphs (2) and (4) are replaced by the following:

(2) Up to $3,000 for cost of bail bonds (including bonds for related traffic violations) required because of an "accident" we cover. We do not have to furnish these bonds.

(4) All reasonable expenses incurred by the "insured" at our request, including actual loss of earnings up to $500 a day because of time off from work.

5. **AMENDED FELLOW EMPLOYEE EXCLUSION**

In those jurisdictions where, by law, fellow "employees" are not entitled to the protection afforded to the employer by the workers compensation exclusivity rule, or similar protection, the following provision is added:

SECTION II - LIABILITY, Exclusion **B.5. Fellow Employee** does not apply if the "bodily injury" results from the use of a covered "auto" you own or hire if you have workers compensation insurance in force for all of your "employees" at the time of "loss".

This coverage is excess over any other collectible insurance.

SECTION III - PHYSICAL DAMAGE COVERAGE is amended as follows:

6. **HIRED AUTO PHYSICAL DAMAGE**

Paragraph **A.4. Coverage Extensions** of **SECTION III - PHYSICAL DAMAGE COVERAGE**, is amended by adding the following:

If hired "autos" are covered "autos" for Liability Coverage, and if Comprehensive, Specified Causes of Loss or Collision coverage are provided under the Business Auto Coverage Form for any "auto" you own, then the Physical Damage coverages provided are extended to "autos":

© 2021 Liberty Mutual Insurance

a. You hire, rent or borrow; or

b. Your "employee" hires or rents under a written contract or agreement in that "employee's" name, but only if the damage occurs while the vehicle is being used in the conduct of your business,

subject to the following limit and deductible:

a. The most we will pay for "loss" in any one "accident" or "loss" is the smallest of:

(1) $50,000; or

(2) The actual cash value of the damaged or stolen property as of the time of the "loss"; or

(3) The cost of repairing or replacing the damaged or stolen property with other property of like kind and quality, minus a deductible.

b. The deductible will be equal to the largest deductible applicable to any owned "auto" for that coverage.

c. Subject to the limit, deductible and excess provisions described in this provision, we will provide coverage equal to the broadest coverage applicable to any covered "auto" you own.

d. Subject to a maximum of $1,000 per "accident", we will also cover the actual loss of use of the hired "auto" if it results from an "accident", you are legally liable and the lessor incurs an actual financial loss.

e. This coverage extension does not apply to:

(1) Any "auto" that is hired, rented or borrowed with a driver; or

(2) Any "auto" that is hired, rented or borrowed from your "employee" or any member of your "employee's" household.

Coverage provided under this extension is excess over any other collectible insurance available at the time of "loss".

7. **TOWING AND LABOR**

SECTION III - PHYSICAL DAMAGE COVERAGE, Paragraph **A.2. Towing**, is amended by the addition of the following:

We will pay towing and labor costs incurred, up to the limits shown below, each time a covered "auto" classified and rated as a private passenger type, "light truck" or "medium truck" is disabled:

a. For private passenger type vehicles, we will pay up to $75 per disablement.

b. For "light trucks", we will pay up to $75 per disablement. "Light trucks" are trucks that have a gross vehicle weight (GVW) of 10,000 pounds or less.

c. For "medium trucks", we will pay up to $150 per disablement. "Medium trucks" are trucks that have a gross vehicle weight (GVW) of 10,001 - 20,000 pounds.

However, the labor must be performed at the place of disablement.

8. **PHYSICAL DAMAGE - ADDITIONAL TRANSPORTATION EXPENSE COVERAGE**

Paragraph **A.4.a. Coverage Extensions, Transportation Expenses** of **SECTION III - PHYSICAL DAMAGE COVERAGE**, is amended to provide a limit of $50 per day and a maximum limit of $1,500.

9. **RENTAL REIMBURSEMENT**

SECTION III - PHYSICAL DAMAGE COVERAGE, A. Coverage, is amended by adding the following:

a. We will pay up to $75 per day for rental reimbursement expenses incurred by you for the rental of an "auto" because of "accident" or "loss", to an "auto" for which we also pay a "loss" under Comprehensive, Specified Causes of Loss or Collision Coverages. We will pay only for those expenses incurred after the first 24 hours following the "accident" or "loss" to the covered "auto."

b. Rental Reimbursement requires the rental of a comparable or lesser vehicle, which in many cases may be substantially less than $75 per day, and will only be allowed for the period of time it should take to repair or replace the vehicle with reasonable speed and similar quality, up to a maximum of 30 days.

c. We will also pay up to $500 for reasonable and necessary expenses incurred by you to remove and replace your tools and equipment from the covered "auto". This limit is excess over any other collectible insurance.

© 2021 Liberty Mutual Insurance

d. This coverage does not apply unless you have a business necessity that other "autos" available for your use and operation cannot fill.

e. If "loss" results from the total theft of a covered "auto" of the private passenger type, we will pay under this coverage only that amount of your rental reimbursement expenses which is not already provided under Paragraph **4. Coverage Extension** .

f. No deductible applies to this coverage.

g. The insurance provided under this extension is excess over any other collectible insurance.

If this policy also provides Rental Reimbursement Coverage you purchased, the coverage provided by this Enhancement Endorsement is in addition to the coverage you purchased.

For the purposes of this endorsement provision, materials and equipment do not include "personal effects" as defined in provision **11.B.**

10. EXTRA EXPENSE - BROADENED COVERAGE

Under **SECTION III - PHYSICAL DAMAGE COVERAGE, A. Coverage**, we will pay for the expense of returning a stolen covered "auto" to you. The maximum amount we will pay is $1,000.

11. PERSONAL EFFECTS COVERAGE

A. SECTION III - PHYSICAL DAMAGE COVERAGE, A. Coverage , is amended by adding the following:

If you have purchased Comprehensive Coverage on this policy for an "auto" you own and that "auto" is stolen, we will pay, without application of a deductible, up to $600 for "personal effects" stolen with the "auto."

The insurance provided under this provision is excess over any other collectible insurance.

B. SECTION V - DEFINITIONS is amended by adding the following:

For the purposes of this provision, "personal effects" mean tangible property that is worn or carried by an "insured." "Personal effects" does not include tools, equipment, jewelry, money or securities.

12. ACCIDENTAL AIRBAG DEPLOYMENT

SECTION III - PHYSICAL DAMAGE COVERAGE, B. Exclusions is amended by adding the following:

If you have purchased Comprehensive or Collision Coverage under this policy, the exclusion for "loss" relating to mechanical breakdown does not apply to the accidental discharge of an airbag.

Any insurance we provide shall be excess over any other collectible insurance or reimbursement by manufacturer's warranty. However, we agree to pay any deductible applicable to the other coverage or warranty.

13. PHYSICAL DAMAGE DEDUCTIBLE - VEHICLE TRACKING SYSTEM

SECTION III - PHYSICAL DAMAGE COVERAGE, D. Deductible , is amended by adding the following:

Any Comprehensive Deductible shown in the Declarations will be reduced by 50% for any "loss" caused by theft if the vehicle is equipped with a vehicle tracking device such as a radio tracking device or a global position device and that device was the method of recovery of the vehicle.

14. AUDIO, VISUAL AND DATA ELECTRONIC EQUIPMENT COVERAGE

SECTION III - PHYSICAL DAMAGE COVERAGE, B. Exclusions, Paragraph a. of the exception to exclusions 4.c. and 4.d. is deleted and replaced with the following:

Exclusions 4.c. and 4.d. do not apply to:

a. Electronic equipment that receives or transmits audio, visual or data signals, whether or not designed solely for the reproduction of sound, if the equipment is:

(1) Permanently installed in the covered "auto" at the time of the "loss" or removable from a housing unit that is permanently installed in the covered "auto"; and

(2) Designed to be solely operated by use from the power from the "auto's" electrical system; and

(3) Physical damage coverages are provided for the covered "auto".

If the "loss" occurs solely to audio, visual or data electronic equipment or accessories used with this equipment, then our obligation to pay for, repair, return or replace damaged or stolen property will be reduced by a $100 deductible.

© 2021 Liberty Mutual Insurance
Includes copyrighted material of Insurance Services Office, Inc., with its permission.

15. **LOAN / LEASE GAP COVERAGE (Not Applicable In New York)**

A. Paragraph **C. Limit Of Insurance** of **SECTION III - PHYSICAL DAMAGE COVERAGE** is amended by adding the following:

The most we will pay for a "total loss" to a covered "auto" owned by or leased to you in any one "accident" is the greater of the:

1. Balance due under the terms of the loan or lease to which the damaged covered "auto" is subject at the time of the "loss" less the amount of:
   a. Overdue payments and financial penalties associated with those payments as of the date of the "loss";
   b. Financial penalties imposed under a lease due to high mileage, excessive use or abnormal wear and tear;
   c. Costs for extended warranties, Credit Life Insurance, Health, Accident or Disability Insurance purchased with the loan or lease;
   d. Transfer or rollover balances from previous loans or leases;
   e. Final payment due under a "Balloon Loan";
   f. The dollar amount of any unrepaired damage which occurred prior to the "total loss" of a covered "auto";
   g. Security deposits not refunded by a lessor;
   h. All refunds payable or paid to you as a result of the early termination of a lease agreement or as a result of the early termination of any warranty or extended service agreement on a covered "auto";
   i. Any amount representing taxes;
   j. Loan or lease termination fees; or
2. The actual cash value of the damage or stolen property as of the time of the "loss".

   An adjustment for depreciation and physical condition will be made in determining the actual cash value at the time of the "loss". This adjustment is not applicable in Texas.

B. **Additional Conditions**

This coverage applies only to the original loan for which the covered "auto" that incurred the "loss" serves as collateral, or lease written on the covered "auto" that incurred the "loss".

C. **SECTION V - DEFINITIONS** is changed by adding the following:

As used in this endorsement provision, the following definitions apply:

"Total loss" means a "loss" in which the cost of repairs plus the salvage value exceeds the actual cash value.

A "balloon loan" is one with periodic payments that are insufficient to repay the balance over the term of the loan, thereby requiring a large final payment.

16. **GLASS REPAIR - WAIVER OF DEDUCTIBLE**

Paragraph **D. Deductible** of **SECTION III - PHYSICAL DAMAGE COVERAGE** is amended by the addition of the following:

No deductible applies to glass damage if the glass is repaired rather than replaced.

17. **PARKED AUTO COLLISION COVERAGE (WAIVER OF DEDUCTIBLE)**

Paragraph **D. Deductible** of **SECTION III - PHYSICAL DAMAGE COVERAGE** is amended by the addition of the following:

The deductible does not apply to "loss" caused by collision to such covered "auto" of the private passenger type or light weight truck with a gross vehicle weight of 10,000 lbs. or less as defined by the manufacturer as maximum loaded weight the "auto" is designed to carry while it is:

a. In the charge of an "insured";
b. Legally parked; and
c. Unoccupied.

© 2021 Liberty Mutual Insurance
Includes copyrighted material of Insurance Services Office, Inc., with its permission.

The "loss" must be reported to the police authorities within 24 hours of known damage.

The total amount of the damage to the covered "auto" must exceed the deductible shown in the Declarations.

This provision does not apply to any "loss" if the covered "auto" is in the charge of any person or organization engaged in the automobile business.

18. **TWO OR MORE DEDUCTIBLES**

Under **SECTION III - PHYSICAL DAMAGE COVERAGE**, if two or more company policies or coverage forms apply to the same "accident", the following applies to Paragraph **D. Deductible**

a. If the applicable Business Auto deductible is the smaller (or smallest) deductible, it will be waived; or

b. If the applicable Business Auto deductible is not the smaller (or smallest) deductible , it will be reduced by the amount of the smaller (or smallest) deductible; or

c. If the "loss" involves two or more Business Auto coverage forms or policies, the smaller (or smallest) deductible will be waived.

For the purpose of this endorsement, company means any company that is part of the Liberty Mutual Group.

SECTION IV - BUSINESS AUTO CONDITIONS is amended as follows:

19. **UNINTENTIONAL FAILURE TO DISCLOSE HAZARDS**

SECTION IV- BUSINESS AUTO CONDITIONS , Paragraph **B.2.** is amended by adding the following:

If you unintentionally fail to disclose any hazards, exposures or material facts existing as of the inception date or renewal date of the Business Auto Coverage Form, the coverage afforded by this policy will not be prejudiced.

However, you must report the undisclosed hazard of exposure as soon as practicable after its discovery, and we have the right to collect additional premium for any such hazard or exposure.

20. **AMENDED DUTIES IN THE EVENT OF ACCIDENT, CLAIM, SUIT OR LOSS**

SECTION IV - BUSINESS AUTO CONDITIONS , Paragraph A.2.a. is replaced in its entirety by the following:

a. In the event of "accident", claim, "suit" or "loss", you must promptly notify us when it is known to:

(1) You, if you are an individual;

(2) A partner, if you are a partnership;

(3) Member, if you are a limited liability company;

(4) An executive officer or the "employee" designated by the Named Insured to give such notice, if you are a corporation.

To the extent possible, notice to us should include:

(a) How, when and where the "accident" or "loss" took place;

(b) The "insured's" name and address; and

(c) The names and addresses of any injured persons and witnesses.

21. **WAIVER OF TRANSFER OF RIGHTS OF RECOVERY AGAINST OTHERS TO US**

SECTION IV - BUSINESS AUTO CONDITIONS , Paragraph **A.5. Transfer Of Rights Of Recovery Against Others To Us**, is amended by the addition of the following:

If the person or organization has in a written agreement waived those rights before an "accident" or "loss", our rights are waived also.

22. **HIRED AUTO COVERAGE TERRITORY**

SECTION IV - BUSINESS AUTO CONDITIONS , Paragraph **B.7. Policy Period, Coverage Territory** , is amended by the addition of the following:

f. For "autos" hired 30 days or less, the coverage territory is anywhere in the world, provided that the "insured's" responsibility to pay for damages is determined in a "suit", on the merits, in the United States, the territories and possessions of the United States of America, Puerto Rico or Canada or in a settlement we agree to.

© 2021 Liberty Mutual Insurance

 Includes copyrighted material of Insurance Services Office, Inc., with its permission.

This extension of coverage does not apply to an "auto" hired, leased, rented or borrowed with a driver.

23. **PRIMARY AND NON-CONTRIBUTING IF REQUIRED BY WRITTEN CONTRACT OR WRITTEN AGREEMENT**

The following is added to **SECTION IV - BUSINESS AUTO CONDITIONS, General Conditions, B.5. Other Insurance** and supersedes any provision to the contrary:

This Coverage Form's Covered Autos Liability Coverage is primary to and will not seek contribution from any other insurance available to an "insured" under your policy provided that:

1. Such "insured" is a Named Insured under such other insurance; and
2. You have agreed in a written contract or written agreement that this insurance would be primary and would not seek contribution from any other insurance available to such "insured".

SECTION V - DEFINITIONS is amended as follows:

24. **BODILY INJURY REDEFINED**

Under **SECTION V - DEFINITIONS**, Definition **C.** is replaced by the following:

"Bodily injury" means physical injury, sickness or disease sustained by a person, including mental anguish, mental injury, shock, fright or death resulting from any of these at any time.

© 2021 Liberty Mutual Insurance
Includes copyrighted material of Insurance Services Office, Inc., with its permission.

AMENDMENT NO. 2

TO AGREEMENT FOR CONTRACT SERVICES

THIS AMENDMENT NO. 2 TO THE AGREEMENT FOR CONTRACT SERVICES ("Amendment No. 2") by and between the CITY OF CARSON, a California municipal corporation ("City") and MDG ASSOCIATES, INC., a California corporation ("Consultant") is effective as of the _____ day of March, 2026. City and Consultant are sometimes hereinafter individually referred to as "Party" and hereinafter collectively referred to as the "Parties."

RECITALS

A. City and Consultant entered into that certain Agreement for Contract Services dated June 21, 2023 ("Agreement"), whereby Consultant agreed to perform services for inspections, appraisal evaluations, coordination of residential and commercial rehabilitation projects and administrative and HUD IDIS training tasks on an as-needed basis for an initial three (3) year term for a total contract sum of $600,000 with three (3) additional options for one-year extensions.

B. City Council established a Citywide Commercial Façade Improvement Program (the "Façade Program") pursuant to the adopted Carson Façade Improvement Program Guidelines for the public purpose of encouraging the improvement, stimulation, and revitalization of the exterior facades of existing commercial buildings in various commercial corridors.

C. The Façade Program is administered by the City and funded by the City's General Fund pursuant to an authorized allocation of $1,000,000 made by the City Council during its meeting of June 21, 2022.

D. City Council also established a Permanent Local Housing Allocation (PLHA) funded Single-Family Housing Rehabilitation Program ("PLHA Residential Rehabilitation Program") during its meeting of February 7, 2023, for the public purpose of assisting income-qualified, eligible, owner-occupied, and Carson resident single family homeowners.

E. The PLHA Residential Rehabilitation Program is administered by the City and funded by a PLHA grant agreement with the State of California Department of Housing and Community Development (HCD) pursuant to an authorized allocation of $529,674.50.

F. On February 6, 2024, City and Consultant entered into an amendment to the Agreement ("Amendment No. 1") to: (i) modify the Scope of Services as they relate to the Façade Program and to add services as they pertain to the PLHA Rehabilitation Program through the end of the term; (ii) increase compensation by $168,250 to carry out the modified scope of services of the Agreement through the end of the term; (iii) specify that the Façade Program is to be funded through the City's General Fund, for a new total contract sum of $768,250; and (iv) specify that the PLHA Residential Rehabilitation Program is to be funded through the PLHA grant agreement.

G. City and Consultant now desire to amend the Agreement to exercise all three (3) of the additional options for one-year extensions thereby extending the Term through June 20, 2029 and increasing the contract sum by $768,249.99 ($256,083.33 per year) for a new total not-to-exceed Contract Sum of $1,536,499.99.

TERMS

1. Incorporation of Recitals. The Recitals set forth above are incorporated into and are a part of this Amendment No. 2.

2. Terms and Definitions. All words, terms and phrases used or referenced in this Amendment No. 2, not expressly defined in this Amendment No. 2, shall have the same meaning ascribed to them in the Agreement.

3. Contract Changes. The Agreement is amended as provided herein (new text in ***bold italics*** and deleted text in ~~strikethrough~~).

A. Section 2.1 (Contract Sum) of the Agreement is hereby amended to read in its entirety as follows:

"2.1 Contract Sum.

Subject to any limitations set forth in this Agreement, City agrees to pay Consultant the amounts specified in the "Schedule of Compensation" attached hereto as Exhibit "C" and incorporated herein by this reference. The total compensation, including reimbursement for actual expenses, shall not exceed ***One Million Five*** ~~Seven~~ Hundred ***Thirty-Six*** ~~Sixty-Eight~~ Thousand ~~Two~~ ***Four*** Hundred ***Ninety-Nine*** ~~Fifty~~ Dollars ***and Ninety-Nine Cents*** ($***1,536,499.99*** ~~768,250)~~ (the "Contract Sum"), unless additional compensation is approved pursuant to Section 1.8~~. In the event City elects to exercise its options to extend the Term pursuant to Section 3.4 hereof, the Contract Sum will increase by an amount of $256,083.33 per year.~~"

B. Section 3.4 (Term) of the Agreement is hereby amended to read in its entirety as follows:

"3.4 Term.

Unless earlier terminated in accordance with Article 7 of this Agreement, this Agreement shall continue in full force and effect until completion of the services but not exceeding ~~three (3)~~ ***six (6)*** years from the date hereof, except as otherwise provided in the Schedule of Performance (Exhibit "D"). ~~The City may, at its sole discretion, elect to extend the Term by three (3) additional one-year terms (each, an "Extension Term"). The pricing to be applied for each Extension Term is listed in Exhibit "C" and Exhibit "C-1."~~"

C. Section IV of Exhibit "C" (Schedule of Compensation") of the Agreement is hereby amended to read in its entirety as follows:

"IV. The total compensation for the Services shall not exceed $***1,536,499.99*** ~~768,250~~ as provided in Section 2.1 of this Agreement."

4. Continuing Effect of Agreement. Except as amended by Amendment No. 1 and this Amendment No. 2, all provisions of the Agreement shall remain unchanged and in full force

and effect. From and after the date of this Amendment No. 2, whenever the term "Agreement" appears in the Agreement, it shall mean the Agreement, as amended by Amendment No. 1 and this Amendment No. 2 to this Agreement.

5. Affirmation of Agreement; Warranty Re Absence of Defaults. City and Consultant each ratify and reaffirm each and every one of the respective rights and obligations arising under the Agreement and Amendment No. 1. Each party represents and warrants to the other that there have been no written or oral modifications to the Agreement other than as provided herein and Amendment No. 1. Each party represents and warrants to the other that the Agreement, as amended by Amendment No. 1 and this Amendment No. 2, is currently an effective, valid, and binding obligation.

Consultant represents and warrants to City that, as of the date of this Amendment No. 2, City is not in default of any material term of the Agreement and that there have been no events that, with the passing of time or the giving of notice, or both, would constitute a material default under the Agreement.

City represents and warrants to Consultant that, as of the date of this Amendment No. 2, Consultant is not in default of any material term of the Agreement and that there have been no events that, with the passing of time or the giving of notice, or both, would constitute a material default under the Agreement.

6. Adequate Consideration. The parties hereto irrevocably stipulate and agree that they have each received adequate and independent consideration for the performance of the obligations they have undertaken pursuant to this Amendment No. 2.

7. Authority. The persons executing this Amendment No. 2 on behalf of the parties hereto warrant that (i) such party is duly organized and existing, (ii) they are duly authorized to execute and deliver this Amendment No. 2 on behalf of said party, (iii) by so executing this Amendment No. 2, such party is formally bound to the provisions of this Amendment No. 2, and (iv) the entering into this Amendment No. 2 does not violate any provision of any other agreement to which said party is bound.

8. Counterparts. This Amendment No. 2 may be executed in any number of counterparts and each of such counterparts shall for all purposes be deemed to be an original, whether the signatures are originals, electronic, facsimiles or digital. All such counterparts shall together constitute but one and the same Amendment No. 2.

[SIGNATURES ON FOLLOWING PAGE]

IN WITNESS WHEREOF, the Parties hereto have executed this Amendment No. 2 on the date(s) and year first-above written

CITY:

CITY OF CARSON, a municipal corporation

_____
Lula Davis-Holmes, Mayor

ATTEST:

_____
Dr. Khaleah K. Bradshaw, City Clerk

APPROVED AS TO FORM:
ALESHIRE & WYNDER, LLP

_____
Sunny K. Soltani, City Attorney
[pks; rjl]

CONSULTANT:

MDG ASSOCIATES, INC., a California corporation

By:_____
Name: Rudy Munoz
Title: President

By:_____
Name: Guadalupe R. Munoz
Title: Chief Financial Officer

Two corporate officer signatures required when Consultant is a corporation, with one signature required from each of the following groups: 1) Chairman of the Board, President or any Vice President; and 2) Secretary, any Assistant Secretary, Chief Financial Officer or any Assistant Treasurer. APPROPRIATE ATTESTATIONS SHALL BE INCLUDED AS MAY BE REQUIRED BY THE BYLAWS, ARTICLES OF INCORPORATION, OR OTHER RULES OR REGULATIONS APPLICABLE TO CONSULTANT'S BUSINESS ENTITY.

Report to Honorable Mayor and City Council

Tuesday, March 17, 2026, 5:00 PM

CONSENT 19.

To: Honorable Mayor and City Council

From: Michael Whittiker, Community Services Director CS Parks & Recreation

Subject: CONSIDER APPROVAL OF A CONTRACT SERVICES AGREEMENT WITH SAMI'S REFEREES, LLC TO PROVIDE ON-CALL YOUTH SPORTS OFFICIATING SERVICES FOR THE CITY'S RECREATION PROGRAMS (CITY COUNCIL)

I. SUMMARY

The City currently has an agreement with Sami's Referees, LLC to provide on-call sports officiating services for the City's Youth Sports programs. These services include providing trained referees and umpires to officiate games and ensure that league competitions are conducted fairly, safely, and in accordance with established rules. The current agreement is scheduled to expire on April 20, 2026.

To ensure that officiating services continue without interruption and that youth sports games are not canceled due to a lack of officials, the Recreation Division recently conducted a Request for Proposals (RFP) process (RFP No. 26-008) to select one or more qualified firms to provide these services for the City (see Exhibit No. 1). An RFP is a competitive procurement process that allows the City to invite qualified vendors to submit proposals outlining their experience, qualifications, and pricing to provide a specific service. The RFP sought proposals for officiating services for the City's youth baseball, softball, flag football, soccer, and basketball leagues, which serve many youth participants in the community. The RFP also invited firms to submit proposals for adult sports officiating services, which are used for the City's adult recreation leagues.

At the close of the proposal period, the City received one proposal, submitted by Sami's Referees, LLC (see Exhibit No. 2). City staff reviewed and evaluated the proposal in accordance with the requirements outlined in the RFP and the City's Purchasing Ordinance, which governs how the City conducts competitive procurements. Based on this evaluation, staff issued a Notice of Intent to Award recommending Sami's Referees, LLC for the youth sports officiating services portion of the contract. However, staff is not recommending an award for adult sports officiating services under this RFP. During the evaluation process, staff determined that the pricing submitted by Sami's Referees, LLC for adult league officiating services was higher than anticipated. As a result, staff intends to explore a separate procurement process in the future that will focus specifically on adult sports officiating services, which may allow the City to obtain more competitive pricing for those services.

In order to ensure that youth sports leagues continue to operate smoothly and without disruption, staff recommends that the City Council approve a new five-year agreement with Sami's Referees, LLC to provide on-call officiating services for the City's youth sports leagues, including baseball, softball, flag football, soccer, and basketball. The agreement would have an average annual cost not to exceed $224,000, for a total contract amount not to exceed $1,120,000 over the five-year contract term (see Exhibit No. 4). Approval of this agreement will allow the City to

continue providing consistent and reliable officiating services that support safe and organized youth sports programs for the community.

II. RECOMMENDATION

TAKE the following actions:

1. WAIVE any minor irregularities or informalities in the proposal, in accordance with Carson Municipal Code (CMC) Section 2611(I)(2);
2. AWARD a contract for youth sports officiating services only and APPROVE the proposed Contract Services Agreement with Sami's Referees, LLC, for a total not-to-exceed contract amount of $1,120,000 over a five-year term, beginning April 21, 2026 (Exhibit No. 4; "Agreement"); and,
3. AUTHORIZE the Mayor to execute the Agreement with Sami's Referees, LLC, subject to approval as to form by the City Attorney.

III. ALTERNATIVES

1. REJECT the proposal received for RFP No. 26-008 and DECLINE to award the proposed contract to Sami's Referees, LLC. However, if this action is taken, staff would need to evaluate next steps, which may include issuing a new Request for Proposals or identifying another approach to ensure that youth sports officiating services continue without interruption.
2. TAKE any other action the City Council deems appropriate and consistent with applicable law.

IV. BACKGROUND

The City's Youth Sports programs provide a wide range of opportunities for children and young adults in the community to participate in organized team sports. These programs help promote physical activity, teamwork, sportsmanship, and positive community engagement. Current youth sports offerings include baseball, softball, basketball, flag football, and soccer, each of which includes multiple age divisions to accommodate participants of different skill levels and age groups. Because these leagues operate throughout the year and involve many teams and scheduled games, there is an ongoing need for qualified and experienced sports officials, such as referees and umpires. These officials are responsible for enforcing the rules of the game, ensuring fair play, maintaining a safe environment for participants, and helping games run smoothly and on schedule.

Beginning in July 2018, the City transitioned to using contracted, on-call sports officiating services for the more advanced divisions of its Youth Sports programs. These divisions involve a higher level of competitive play and require officials with specialized experience and training. Prior to that time, the City trained and hired officials internally. However, contracting with a professional officiating service has allowed the City to access a larger pool of qualified officials and ensure consistent coverage for scheduled games.

The City's current agreement with Sami's Referees, LLC, which provides these officiating services, is scheduled to expire on April 20, 2026. To ensure that officiating services continue without interruption and that youth sports games are not canceled due to a lack of available officials, staff initiated Request for Proposals (RFP) No. 26-008 to solicit proposals from qualified firms interested in providing these services. At the conclusion of the RFP process, the City received one proposal, submitted by Sami's Referees, LLC (see Exhibit No. 3). The proposal was reviewed and evaluated by a panel of City staff members in accordance with the evaluation criteria outlined in RFP No. 26-008 and consistent with the requirements of the City's Purchasing Ordinance (Carson Municipal Code Section 2611(b)–(c)), which establishes the procedures for evaluating competitive proposals. The evaluation process considered several factors, such as the proposer's experience, qualifications, staffing capacity, and pricing. Each proposal was scored using a standardized evaluation method designed to ensure a fair and consistent review process. An example of the evaluation criteria and the point-scoring methodology used for this RFP is provided below for reference.

No.	Evaluation Criteria	Max Points
1	**Experience, References & Past Performance**: Experience providing adult and youth sports officiating services. Experience with municipal or public agency sports program. Demonstrated ability to manage high-volume, multi-sport schedules. Record of reliability, professionalism, and rules enforcement.	30
2	**Staffing, Certifications & Organizational Capacity:** Qualifications and experience of key management staff. Recruitment, training, and retention of officials. Confirmation that officials meet certification experience standards. Background screening process. Ability to consistently provide the required number of officials per game.	30
3	**Technical Approach & Service Delivery Plan**: Scheduling and assignment system. Methods to ensure full game coverage, punctuality, and uniform compliance. Communications protocols with City staff. Incident reporting, protest handling, and scorecard controls. Plan to handle last-minute changes, cancellations, and tournaments.	30
4	**Cost Proposal**: Reasonableness and competitiveness of rates. Completeness and clarity of Exhibit C Cost File. Inclusion of all required services, site checks, and administrative components. Overall best value to the City.	10
	Total Points Possible:	100

At the conclusion of the RFP evaluation process, Sami's Referees, LLC received evaluation scores of 96 and 93 from the two staff evaluators who reviewed the proposal. These scores reflect the firm's overall qualifications, experience providing sports officiating services, staffing capacity, responsiveness to the RFP requirements, and the proposed cost of services. As part of the proposal, Sami's Referees, LLC submitted a schedule of rates for providing officiating services for the various youth sports leagues operated by the City. These rates represent the cost for providing trained referees or umpires to officiate games across the different sports programs offered by the City. The submitted rate schedule from Sami's Referees, LLC is summarized below.

Sport	Officials per game	Year 1	Year 2	Year 3	Year 4	Year 5
1A Baseball/Softball	1	$75	$75	$75	$80	$80
2A Baseball/Softball	1	$80	$80	$80	$85	$85
3A Baseball	2	$85	$85	$85	$85	$85
3A Softball	1	$90	$90	$90	$95	$95
4A Baseball	2	$85	$85	$85	$85	$85

Sandlot Flag Football	2	$55	$55	$55	$55	$55
Rookie Flag Football	2	$65	$65	$65	$65	$65
1A Flag Football	2	$70	$70	$70	$75	$75
2A Flag Football	2	$70	$70	$70	$75	$75
3A Flag Football	2	$70	$70	$70	$75	$75
Rookie Soccer	1	$65	$65	$65	$65	$65
1A Soccer	1	$75	$75	$75	$80	$80
2A Soccer	1	$75	$75	$75	$80	$80
3A Soccer	1	$75	$75	$75	$80	$80
Sandlot Basketball	1	$50	$50	$50	$50	$50
Rookie Basketball	2	$60	$60	$60	$60	$60
1A Basketball	2	$70	$70	$70	$75	$75
2A Basketball	2	$70	$70	$70	$75	$75
3A Basketball	2	$70	$70	$70	$75	$75
4A Basketball	2	$70	$70	$70	$75	$75

The RFP stated that the City may choose to award either a single contract or multiple contracts in order to create a panel of on-call vendors that could provide sports officiating services as needed. In this case, the City received one proposal, submitted by Sami's Referees, LLC. After completing the evaluation process, staff determined that Sami's Referees, LLC has the experience, qualifications, and staffing capacity necessary to continue providing the required officiating services for the City's Youth Sports programs. The firm has also served as the City's current provider of these services and has demonstrated the ability to reliably support the City's youth sports leagues. Based on this evaluation and the firm's proven performance, staff concluded that Sami's Referees, LLC can adequately provide the officiating services needed for the upcoming contract period. Accordingly, on March 4, 2026, the City issued a Notice of Intent to Award, which formally announced the City's intent to enter into a new agreement with Sami's Referees, LLC to provide youth sports officiating services. The proposed agreement would have a five-year contract term with a total not-to-exceed contract amount of $1,120,000, which represents an average annual amount not to exceed $224,000 for officiating services across the City's youth sports leagues (see Exhibit No. 4). Approval of this agreement will allow the City to continue providing consistent and reliable officiating services that support the safe and organized operation of its Youth Sports programs.

V. FISCAL IMPACT

There is no additional fiscal impact associated with this agreement. Funding for youth sports officiating services has already been included, and will continue to be included, in the City's annual budget under the Youth Sports account (Account No. 101-90-950-701-6004). As a result, approval of the proposed agreement will utilize funds that have already been budgeted for this purpose and will not require any additional funding beyond what has been allocated in the City's adopted budget.

VI. EXHIBITS

1. RFP No. 26-008
2. Bid Register
3. Sami's Referees, LLC Proposal (Cover Letter & Cost Proposal)
4. Draft Contract Services Agreement with Sami's Referees, LLC

Attachments

1. RFP No. 26-008
2. Bid Register
3. Sami's Referees LLC Proposal
4. (Sami's Referees) Draft Contract Services Agreement.pdf

CITY OF CARSON

NOTICE OF REQUEST FOR PROPOSALS (RFP): #26-008

Notice is hereby given that the Purchasing Manager is seeking sealed electronic proposals for:

PROFESSIONAL ON-CALL OFFICIATING SERVICES FOR ADULT & YOUTH SPORTS PROGRAMS

ISSUE DATE:	**01/29/2026**
Q&A DEADLINE:	**02/05/2026 at 10:00 AM**
RFP DEADLINE:	**02/19/2026 at 10:00 AM**

Register as a vendor and submit electronic responses via PlanetBids:

https://www.planetbids.com/portal/portal.cfm?CompanyID=32461.

No late responses will be accepted. Any response for this solicitation not submitted through PlanetBids is unauthorized and will be considered invalid. Attempts to contact or lobby members of the City of Carson Staff or its Elected Officials during the bidding and evaluation period may result in disqualification. If a job walk, site visit, or pre-bid/pre-proposal meeting is designated as Mandatory above, attendance and sign-in are required for bid eligibility. If designated as Optional, attendance is encouraged.

To view other bidding opportunities from the City of Carson, please visit: https://ci.carson.ca.us/Finance/Bidding.aspx.

Josilla Togiola, Purchasing Manager

A. SUMMARY

The City of Carson ("City"), through its Community Services Department, is requesting proposals from qualified and experienced contractors to provide professional on-call sports officiating services for the City's adult and youth recreational sports programs. The selected contractor(s) will be responsible for furnishing trained, certified, professional sports officials to officiate games across multiple sports, leagues, age divisions, and City facilities.

This solicitation may result in a single award or multiple awards, at the sole discretion of the City, based on proposer qualifications, expertise, capacity, and the City's evolving needs. The City anticipates awarding within 90 days of the proposal deadline; however, additional time may be required to complete a thorough evaluation and negotiation process.

B. BACKGROUND

Incorporated as a general law city on February 20, 1968, the City of Carson became a California charter city on November 6, 2018, following voter approval. As one of the youngest municipalities in the South Bay region of Los Angeles County, Carson has grown significantly—from a population of 61,000 in 1968 to nearly 100,000 residents today. The City spans 19.2 square miles and is located less than 20 miles south of downtown Los Angeles.

Carson is a culturally diverse and strategically located community with exceptional accessibility. The City is served by four major freeways—the Harbor (110), San Diego (405), Artesia (91), and Long Beach (710)—and is conveniently near Los Angeles International Airport, Long Beach Airport, the Port of Los Angeles, and the Port of Long Beach. Public transportation options include the MTA Bus Line and the City-operated Carson Circuit, providing efficient local transit.

Known for its modern infrastructure and business-friendly environment, Carson is home to major petrochemical, electronics, automotive, aerospace, trucking, and high-tech industries. Many companies headquartered here have received regional and local beautification awards. Through strong public-private partnerships, Carson continues to foster economic vitality and a promising future.

C. GENERAL RFP POLICIES

The City of Carson reserves the right to modify this Request for Proposals (RFP) at its sole discretion. Any revisions or clarifications will be issued in writing through official addenda via PlanetBids. Oral communications or modifications will not be recognized. All addenda released during the solicitation period shall become part of this RFP.

Proposals must be submitted electronically through the City's online bid management system (PlanetBids) by the specified due date and time. The City reserves the right to take any action deemed to be in its best interest.

Proposals may be withdrawn without penalty prior to the deadline by selecting the "Withdraw" option on Planet Bids. Once the deadline has passed and proposals are opened by the Purchasing Manager or designee, submissions may not be withdrawn for a period of ninety (90) calendar days.

No contract shall exist unless and until the City Council formally awards a contract and full execution has occurred. If awarded, the contract is anticipated to be executed within approximately ninety (90) calendar days following the proposal due date; however, additional time may be required to complete a thorough evaluation and negotiation process.

Unless otherwise stated, all proposal documents must be submitted in PDF format. It is the sole responsibility of the proposer to ensure that all documents are properly formatted, complete, and successfully uploaded to the City's online bid system. Incomplete, corrupted, or unreadable submissions may be deemed nonresponsive.

For technical assistance with electronic submission (e.g., vendor registration, document upload, password reset, bid confirmation), proposers must contact PlanetBids directly at (818) 992-1771. All questions or requests for clarification regarding this RFP must be submitted electronically through PlanetBids by the deadline specified in the RFP. Direct contact with City personnel or elected officials regarding this RFP is strictly prohibited. Any response not provided through PlanetBids is considered unauthorized and invalid.

Proposers are solely responsible for ensuring timely submission. Late proposals will not be accepted—no exceptions. A confirmation number with timestamp will be issued by PlanetBids upon successful submission. Only proposals with a verified timestamp will be considered.

This RFP does not commit the City of Carson to award a contract or to reimburse any costs incurred in the preparation or submission of a response. All materials submitted become the property of the City.

NOTE: E-bids are sealed and cannot be viewed by the City until the official closing date and time. To withdraw a submission before the deadline, return to the PlanetBids portal and select the "Withdraw" option.

D. CITY'S RIGHTS RESERVED

The City reserves the right, at its sole discretion to:

1. Accept or reject any or all proposals, in whole or in part, and to waive any informalities or irregularities in the proposals.
2. Request clarification, correction, or additional information from any proposer regarding their submittal.
3. Conduct interviews or presentations with one or more of the highest-ranked proposers prior to making a final selection.
4. Reject non-conforming, non-responsive, or conditional proposals including any proposer who has previously failed to perform properly, has a record of noncompliance with contract requirements, or has engaged in conduct that may affect the proposer's ability to perform responsibly;
5. Reissue the RFP, in whole or in part, or issue a modified solicitation as deemed necessary.
6. Select the proposal that best meets the City's needs and represents the best overall value.
7. Negotiate contract terms, including scope, schedule, and compensation, with the tentatively selected proposer(s).
8. Award a contract or contracts based solely on written proposals, without interviews; and
9. Modify or clarify evaluation criteria or procedures prior to commencing the evaluation process, with appropriate notice to all proposers.
10. Award contracts to more than one proposer if such action is determined to be advantageous to the City.
11. Withhold award or not award a contract if the proposals received do not meet the City's needs, if funding changes, or if the City's needs change.
12. Take any action it deems necessary to protect the City's interests, including actions not specifically described in this section but permitted by law; and to
13. Cancel, postpone, or extend the RFP process at any time prior to contract award, without

liability of obligation to any proposer.

E. PROPOSAL SUBMISSION

All proposals in response to this RFP must be submitted electronically via PlanetBids no later than the due date and time established on the cover page of this solicitation document. All proposal submission documents must be signed and dated by an official authorized to legally bind the entity and enter into a contract. All proposal submission documents shall be uploaded in PDF format.

It is the sole responsibility of the bidder to ensure sufficient time to prepare, scan, and upload your documents into PlanetBids prior to the deadline, as the system will lock and not allow entry of bids after the designated deadline. Any technical questions regarding the use of PlanetBids must be directed to PlanetBids.

Failure to include all required Sections and Attachments may result in a proposal being deemed nonresponsive. All proposals shall include the following, at minimum:

1. <u>Required Proposal Sections</u> – Proposals shall not exceed 20 pages, Cost File and Required General Attachments are not to be included in the proposal page limit.

- ☐ **Cover Letter and Company Profile** – Signed by an officer of the firm authorized to execute a contract with the City. The primary contact's name, phone number, email, and mailing address shall also be included.
- ☐ **Proposer Qualifications** – Summarize the qualifications of the Proposer. Include general information such as, but not limited to, the number of years in business, areas of expertise, etc.
- ☐ **Key Staff and Team** – identify Key Staff that will be assigned to the project and include a description of their skills, qualifications, and experience. Include a proposed project structure and organization chart.
- ☐ **Project Understanding** – Demonstrate an understanding of the Scope, key goals, and objectives.
- ☐ **Project Approach and Work Plan** – Include a detailed work approach and methodology, incorporating project stages, deliverables, project milestones, project timeline, and any other necessary information required to complete the Scope of Services.
- ☐ **Subcontractor List (if applicable)** – Include a list of subcontractors, if applicable, that will be utilized to complete the Scope of Work. Identify the subcontractor's qualifications and extent of work to be performed by each subcontractor. Include a summary of the subcontractor's qualifications, key personnel, primary contact name, phone number, and email.

- The majority of the work required herein must be performed by the awarded contractor. The work may not be subcontracted to another contractor unless the subcontractor has been included in the Proposal, or a substitution has been approved in writing by the City's Contracting Officer in advance of work performed.

2. <u>Cost File</u> – Attached as Exhibit C

☐ **Cost File**

All cost information must be:

- Completed using the official Cost File form provided (**Attached as Exhibit C**)
- Entered directly into the PlanetBids system as line items, if applicable.

Failure to complete both steps may result in your bid being deemed non-responsive.

- Bidder shall provide everything necessary, at their own expense, to deliver the required products and services. This includes, but is not limited to, labor, preparation work, materials, supplies, parts, tools, and equipment. The lump sum bid price must encompass all

necessary materials, labor, and fees required to fulfill the contract obligations.

- All permits, licenses, and fees must be obtained and paid for solely by the awarded Bidder.
- The City is exempt from federal taxes; therefore, federal taxes must **not** be included in the bid price. However, the City is required to pay applicable sales tax on purchases, which must be included as a **separate line item** within the total bid price.
- The following additional charges will **not** be allowed under this contract: fuel surcharges, mileage rates, fines, entertainment, advertising, or any other costs deemed inappropriate for reimbursement with public funds.

3. <u>Required General Attachments</u> – Attached as Exhibit A

- ☐ **Affidavit of Non-Collusion and Non-Discrimination**
- ☐ **Affidavit of Non-Federal Lobbyist Requirement**
- ☐ **Bidder/Proposer Affidavit**
- ☐ **Client Reference List**
- ☐ **Debarment and Suspension Certification**
- ☐ **Acknowledgment of Insurance Endorsements** – Insurance requirements are outlined in Section 5.1 of the City's Form Contract **(Attached as Exhibit B)**
- ☐ **W9** (cover page only)
- ☐ **Modifications to the City's Form Contract (Attached as Exhibit B)**

- Proposers requesting modification to the City's Form Contract (Attached as Exhibit B) shall include a redlined version at the time of submission for the City's consideration.
- Award is based on a successful negotiation. Failure of the City and any proposer to reach a mutual agreement regarding the Contract or any other portions of the award, may result in the City moving to negotiation with another proposer.

F. QUESTIONS AND ADDENDA

Any requests for clarification or other questions must be submitted via PlanetBids using the Q&A tab no later than the date and time established on the cover page of this solicitation document. No verbal requests or requests made in any other format will be accepted. Each question must be submitted separately, not combined into a single submission or written in paragraph form. Be sure to include the corresponding Section and page number with each question.

Requests submitted for City's consideration of proposed terms and conditions, including modifications to the City's RFP and/or standard form Contract Services Agreement (Attached as Exhibit B) must be included at the time of proposal submission. Such requests should include an attachment in PDF format or company letterhead that shows the requested modifications.

The City will provide formal answers to all questions. Change to the RFP itself shall only be made by the City via formal written addenda. Addenda will be published and distributed through the Vendor Portal. All addenda shall become a part of the RFP document requiring both signature and acknowledgment by the proposer. It is the sole responsibility of the bidder to ensure that they have received the entire RFP including any questions, answers, and addenda by visiting the City of Carson Planet Bids Vendor Portal.

Type of Question	Contact	Contact Info
Those related to the Contract	PlanetBids	Post directly to PlanetBids under the "Q&A" tab
Use of PlanetBids	PlanetBids	(818) 992-1771

City's Purchasing Process	Josilla Togiola, Purchasing Manager	jtogiola@carsonca.gov, (310) 952-1758

G. MINIMUM QUALIFICATIONS & ELIGIBILITY REQUIREMENTS

To be considered responsive and responsible, proposers must meet the following minimum qualifications. The City may require proposers to submit documentation verifying compliance at any time during the evaluation process or contract term.

☐ **Contractor Qualifications**

1. Proposer must have a minimum of three (3) years of experience providing organized sports officiating services for municipal, school district, league, or a comparable recreational sports programs.
2. Proposers must demonstrate experience managing and staffing officials for **multiple sports, age divisions, and facilities**, including scheduling, training, supervision, and performance management.
3. Proposers must have the organizational capacity to provide **sufficient certified officials** to support a high-volume, year-round sports program involving thousands of games annually.

☐ **Official Certification Requirements**

All officials provided under any resulting agreement must, at a minimum:

1. Be currently certified by a **recognized governing body or officiating association** appropriate to the sport(s) being officiated, such as but not limited to:
    - California Interscholastic Federation (CIF)
    - National Federation of State High School Association (NFHS)
    - Baseball/Softball: USA Softball, USSSA (United States Specialty Sports Association, PONY, (Protect Our Nation's Youth) or Babe Ruth (baseball/softball)
    - Soccer: USSF (U.S. Soccer Federation), CalSouth, or AYSO (American Youth Soccer Organization)
    - Basketball: NFHS, CIF, or IAABO (International Association of Approved Basketball Officials)
    - or other **City-approved equivalent organizations**
2. Maintain **current-year rules certification and training** applicable to each sport officiated.
3. Possess document training or experience officiating at a level appropriate to the assigned league and age division.

The City reserves the right to approve or reject any official based on certification status, experience, performance, or conduct.

☐ **Background & Safety Requirements**

1. Proposer and all assigned officials must successfully complete the City's **mandated background screening** prior to assignment.
2. Officials must complete **youth safety and conduct training**, including but not limited to:

- Sexual harassment prevention training
- Concussion awareness and play safety training

3. Proposer must maintain documentation of all background checks and training certifications and provide copies upon request.

☐ Compliance with Local Business Requirements: The proposer must be qualified to conduct business within the City of Carson, including maintaining a valid City business license and the required insurance coverage for the duration of the contract. A valid City business license and certificate of insurance are only required of the selected awardee and must be obtained prior to contract award. It is not required at the time of proposal submission.

H. PREVAILING WAGES REQUIREMENTS

It is the sole responsibility of the proposer to carefully review the scope of work and determine whether any portion of the work is subject to prevailing wage requirements. The proposer shall include any associated labor costs accordingly in their proposal.

Proposers must be registered with the California Department of Industrial Relations (DIR) pursuant to Labor Code Section 1725.5. Contractors are responsible for maintaining active DIR registration for the duration of the contract.

Pursuant to California Labor Code Section 1771, certain types of work, including but not limited to maintenance, installation, repair, or construction, may be considered public works and therefore subject to prevailing wage requirements as established by the DIR for the locality in which the work is performed, for each craft, classification, or type of worker required.

Prevailing wage determinations may be found on the DIR website at: http://www.dir.ca.gov/dlsr
If any portion of the work is deemed subject to prevailing wage, the contractor shall comply with all applicable requirements, including but not limited to:

- Paying not less than the applicable prevailing wage rates;
- Submitting certified payroll records to the DIR via the online portal;
- Complying with all DIR and Labor Code requirements regarding public works projects.

The City shall not be responsible for any additional costs incurred due to a proposer's failure to consider or comply with prevailing wage requirements, if applicable.

I. PROPOSAL OPENING, DOCUMENT REVIEW, AND AWARD OF CONTRACT

Proposals will be evaluated on the basis of the responsiveness to all requirements and provisions of this RFP. The City reserves the right to award one or multiple contracts.

Unless all proposals are rejected, the award shall be made in accordance with the Carson Municipal Code (CMC) Section 2611(c) Professional Services Procurement.

An evaluation panel, consisting of City staff and/or other individuals selected by City staff, will review and evaluate all timely and responsive proposals. The City will negotiate the final scope and fee with the highest-ranked proposer. If negotiations fail to produce an agreement, the City may then negotiate with the next highest-ranked proposer.

The evaluation process may include 1 or 2 phases, at the City's sole discretion:

Phase 1 – Proposal Review

In Phase 1, proposals will be scored based solely on the written submissions according to the following criteria:

Criteria		Maximum Points
Experience, References & Past Performance	Experience providing adult and youth sports officiating services. Experience with municipal or public agency sports programs. Demonstrated ability to manage high-volume, multi-sport schedules. Record of reliability, professionalism, and rule enforcement.	30
Staffing, Certifications & Organizational Capacity	Qualifications and experience of key management staff. Recruitment, training, and retention of officials. Confirmation that officials meet certification experience standards. Background screening process. Ability to consistently provide the required number of officials per game.	30
Technical Approach & Service Delivery Plan	Scheduling and assignment system. Methods to ensure full game coverage, punctuality, and uniform compliance. Communication protocols with City staff. Incident reporting, protest handling, and scorecard controls. Plans to handle last-minute changes, cancellations, and tournaments.	30
Cost Proposal	Reasonableness and competitiveness of rates. Completeness and clarity of Exhibit C Cost File. Inclusion of all required services, site checks, and administrative components. Overall best value to the City.	10
Total Points Possible		100

Phase 2 – Interview/Presentations (Optional)

If deemed necessary, the City may conduct interviews or oral presentations with the highest-scoring firms from Phase 1. The results of Phase 2, combined with the Phase 1 evaluation, will be used to finalize the proposer rankings. The City reserves the right to conduct Phase 2 evaluations or proceed to contract negotiation based solely on the written proposals.

Performance Expectations

The successful Contractor(s) shall be required to meet the following performance standards. The City reserves the right to monitor performance, require corrective action plans, and consider KPI results in determining continued contract eligibility, task assignments, and/or contract extensions.

Game Coverage & Staffing	
Games fully staffed	98% or higher of all scheduled games staffed with the required number of officials
No-shows	Zero tolerance goal; corrective action required if more than 1% per month
Backup coverage	Contractor must demonstrate ability to replace officials within 2 hours of notice
Tournament & playoff coverage	100% coverage required
Punctuality & Professional Conduct	
In-time arrival	95%+ of officials arrive 15 minutes prior to scheduled start
Uniform compliance	100% of officials in proper CIF-compliant uniform
Professional conduct	Zero substantiated incidents of unprofessional behavior
Scorecards, Reporting & Documentation	
Scorecard completeness	98%+ accurate and complete submission rate
Incident reports	100% submitted within 24 hours
Protest documentation	100% compliance with City rulebooks
Training, Knowledge & Rule Enforcement	
Certified/qualified officials	100% meet CIF/NFHS-equivalent experience
City-specific rules training	100% completion prior to season start
Season startup readiness	Officials list delivered before first game
Communication & Responsiveness	
Schedule accuracy	99%+ accurate assignments
Response time to City	Same business day acknowledgment; 24-hour resolution goal
Cancellation processing	Notifications issued within 30 minutes of City notice
Overall Contract Performance	
Season performance rating	Satisfactory or higher on City evaluations
Complaint resolution	90%+ resolved within 5 business days
Corrective actions	Implemented within 10 business days
Renewal consideration	KPI performance used in extension decisions

SCOPE OF SERVICES
RFP 26-008
PROFESSIONAL ON-CALL OFFICIATING SERVICES FOR
ADULT & YOUTH SPORTS PROGRAMS

PROJECT SCOPE & SPECIFICATIONS

The Contractors are to provide officiating services for the City's Adult and Youth Sports programs in an unbiased, professional manner that is consistent with set league rules, and guidelines. The term of the agreement shall be for up to three (3) years with an option for two (2) one-year extensions.

It is estimated that Contractors (collectively, if more than one contract is awarded, with the allocation of work being in the sole discretion of the City) will officiate over 3800 games throughout the City over the course of a calendar year. Work will be performed in accordance with the project scope and specifications set forth herein, without limitation.

DESCRIPTION OF OFFICIATING SERVICES

General Information:

A. Games will be held at any or all of the following locations:

a. Calas Park
1000 E. 220th Street
Carson, CA 90745

b. Carriage Crest Park
23800 S. Figueroa Street
Carson, CA 90745

c. Carson Park
21411 S. Orrick Avenue
Carson, CA 90745

d. Del Amo Park
703 E. Del Amo Boulevard
Carson, CA 90746

e. Dolphin Park
21205 Water Street
Carson, CA 90745

f. Dominguez Park
21330 Santa Fe Avenue
Carson, CA 90810

g. Hemingway Park
700 E. Gardena Boulevard

Carson, CA 90746

h. James M Foisia Park
23410 Catskill Avenue
Carson, CA 90745

i. Stevenson Park
17400 Lysander Drive
Carson, CA 90746

j. Veterans Park/Veteran Sportscomplex
22400 Moneta Avenue
Carson, CA 90745

k. Carson High School
22328 S. Main Street
Carson, CA 90745

l. Rancho Dominguez Preparatory
4110 Santa Fe Avenue
Long Beach, CA 90810

m. Curtiss Middle School
1254 E. Helmick Street
Carson, CA 90746

n. Stephen White Middle School
22102 Figueroa Street
Carson, CA 90745

A. All games will be played weeknights starting as early as 5:00 p.m. and going as late as 10:30 p.m. Games on weekends can start as early as 8:00 a.m. and go as late as 10:00 p.m. Games may be rescheduled by City at any time.

B. *Adult Baseball Seasons:* There will be three (3) seasons per calendar year, each with a maximum of 300 regular season games and 30 playoff games for a total of 330 games maximum for the season. Seasons will run as follows:

Winter – January through April
Summer – May through August
Fall – September through December

C. *Adult Softball Seasons*: There will be four (4) seasons per calendar year, each with a maximum of 200 regular season games and 20 playoff games for a total of 220 games maximum for the season. Seasons will run as follows:

Winter – January through March
Spring – April through June
Summer – July through September

Fall – October through December

A maximum of eight (8) tournaments may be added by City throughout the year.

A maximum of eight (8) tournaments may be added by City throughout the year.

D. *Youth Baseball/Softball Season*: There will be a maximum of 600 games, playoffs, for the season starting no earlier than April 1st and ending no later than July 15th. There will be a maximum of 190 games, including playoffs, for the Dodger Dreamteam Summer League, starting no earlier than July 1st and ending no later than August 31st. Tournaments may be added by City after the conclusion of the regular season.

E. *Adult 8 Player Flag Football*: There will be a maximum of 100 regular season games and 20 playoff games for a total of 120 games for the season, starting no earlier than February 1st and ending no later than May 30th .

F. *Youth Flag Football*: There will be a maximum of 150 games, including playoffs, for the season starting no earlier than September 1st and ending no later than December 15th. Tournaments may be added by City after the conclusion of the regular season.

G. *Youth Soccer*: There will be a maximum of 400 games, including playoffs, for the season starting no earlier than September 1st and ending no later than December 15th. Tournaments may be added by City after the conclusion of the regular season.

H. *Adult Basketball Seasons*: There will be four (4) seasons per calendar year, each with a maximum of 400 regular season games and 40 playoff games for a maximum total of 440 games for the season. Seasons will run as follows:

Winter – January through March
Spring – April through June
Summer – July through September
Fall – October through December

I. *Youth Basketball Season*: There will be a maximum of 650 games, including playoffs, for the season starting no earlier than December 1st and ending no later than February 28th. There will be a maximum of 50 games for the Summer Run League, starting no earlier than July 1st and ending no later than August 31. Tournaments may be added by City after the conclusion of the regular season.

J. Youth clinic games for the Rookie & Sandlot divisions consist of a maximum 300 games for basketball, a maximum of 75 games for football, and a maximum of 350 games for soccer.

Specifications

1. Contractors must have all required insurance (per this RFP and the Contract Services Agreement) prior to commencement of contract and must maintain it throughout the term of the contract. In the event uncertified officials are used, prior authorization by the City is required.

2. Contractors must provide sufficient qualified staff (over the age of 18) to perform the services proposed.

3. Completion of the City's mandated background screening check is required for Contractor and all personnel, instructors, staff, or contractors associated with provision of professional officiating services.

4. Contractors are responsible for providing the City with officials that have the knowledge and experience to effectively to officiate adult and youth games effectively, confidently and objectively throughout the City.

5. Contractors are required to ensure that their game officials have the required experience and background to officiate at a level that's equivalent to being CIF (California Interscholastic Federation) or NFHS (National Federation of State High School) certified.

6. For Adult Sports, officials will be compensated at the game site by each participating team. By submitting a proposal, proposers understand, acknowledge and agree that City is not responsible for providing compensation to officials for Adult Sports games, and that payment is the sole responsibility of the Adult Sports program participants/teams. However, proposers are required to include pricing for all proposed Adult Sports program officiating services in their cost proposals submitted in response to this RFP, so that firm pricing can be set and made known to the Adult Sports participants/teams.

7. Contractors are responsible to fiscally manage the officiating services for Adult and Youth Sports in coordination with the City Recreation Division, and to maintain complete accounting records and implement appropriate accounting controls consistent with standard business practices. Accounting records shall be available for audit/inspection by the City during regular working hours.

8. Contractors are required to adhere to Federal and State financial reporting requirements. Provide financial statements on a monthly, quarterly and annual basis to the City Finance Department within 30 days of the period end.

9. Contractors are required to secure and maintain all licenses necessary to do business in Los Angeles County, California, City of Carson, and State of California. All licenses and permits are to be obtained at Contractors' expense.

10. Contractors are responsible for payment of any and all pertinent federal, state, or local self-employment, Workers Compensation or income taxes, or other assessments levied by governmental authorities on any monies earned as a result of the Adult and Youth Sports officiating services contractual relationship with the City. The City is to be reimbursed for any claim or assessment, including interest and penalties, by any taxing authority arising out of Contractors' failure to fulfill the foregoing responsibilities.

11. Contractors shall not incur any costs or expenses on behalf of the City, except as specifically approved in advance and in writing by the City.

12. Contractors shall maintain complete and adequate accounting records supporting all charges, fees, expenses and costs associated with the contract.

13. Contractors shall provide, at the game site, one (1) umpire for each assigned 1A/2A division baseball and all softball games, two (2) umpires for each assigned 3A division baseball game, two (2) officials for each assigned flag football game, one (1) official for each assigned soccer game, and two (2) officials for each assigned basketball game except for Clinic Sandlot games, which shall be one (1) official for each assigned game. Consultant shall supply the required number of officials/umpires as specified above to cover all scheduled games as assigned by the City (vis its Contract Officer). Upon a 24 hours' notice, additional officials/umpires may be requested by City for any and all games, including playoffs and tournament games.

14. The City will give a 2-hour minimum advanced notice of any cancelled or rescheduled games. This allows time to contact officials that game/games are cancelled. If the City fails to provide the 2-hour notice of cancellation, a one game fee will be paid. No other fees shall be charged.

15. Games that are cancelled at the scheduled starting time, due to bad weather, will be paid a one game fee. If any subsequent games are scheduled, game officials are to remain on site, unless dismissed by a site supervisor.

16. When Contractors receive more than a 2-hour notice for any game(s) that have been cancelled or rescheduled a $10 fee per game will be paid. No other fees will be paid.

17. In the event that there is a scheduling error by the Contractors or a no-show by officials which requires any scheduled game(s) to be cancelled, the Contractors will be assessed a fee that is equal to 50% of contracted per game fee for each cancelled game. No other fees will be paid.

18. Contractors shall require each game official to be at the assigned game location no less than 15 minutes prior to the scheduled game time. Game officials are not to leave the facility during the time frame in which they are assigned to officiate and must remain on site during any forfeited game(s), unless dismissed by a site supervisor. Contractors must notify the Youth Sports Coordinator of any games that were forfeited and the reason for the forfeiture.

19. Contractors will be notified of a game official's late arrival. City may request or require that Contractor not schedule a specific game official that has repeatedly arrived after the designated starting time of their scheduled game(s).

20. All game officials provided by Contractors are required to wear the correct uniform. Uniforms are to meet the standards set by the California Interscholastic Federation (CIF) and the City.

21. Contractors are responsible for ensuring that all scheduled game officials are knowledgeable and familiar with the City's rules and modifications for each sport and that these rules will be properly enforced at each game throughout the season. Upon request and with just cause as determined by City based on demonstrated poor knowledge or familiarity with the foregoing, City may request or require that Contractors not schedule a specific game official.

22. Game officials will sign and properly complete all score cards during each baseball, softball, flag football and soccer game. The following information must be recorded on each score card: List of players for each team, names of the teams playing, current date, actual starting and ending game times, name(s) of official(s), location of game, the results of any pre-game coin toss; indication of when substitutes have entered/exited the game, number of runs, touchdowns or goals scored, last out of inning per team, number of innings pitched by pitcher, number of timeouts taken and the final game score for each team. Game officials are required to document all necessary game information related to a protest on the game score card, as outlined in the section titled 'Protests' in the City of Carson Youth Sports Rule Book for each sport. Contractors will be assessed a fee/liquidated damages equal to 50% of the contracted game fee for each score card that game officials fail to comply with this requirement, as in that event City would need to track down/reconstruct this information.

23. In the case of a game protested over a misapplication of a rule, and such protest is upheld, that game will be replayed from the point of protest.

24. Contractors are required to notify and submit a written statement of reported information to the Youth Sports Coordinator on any protest that is brought to the game official's attention within 24-hours of the conclusion of the game. Any coach, player or spectator ejections shall also be reported to the Youth Sports Coordinator within 24-hours of the conclusion of the game. Game officials must submit a written statement describing the incident and the action that was taken by the official.

25. Contractors shall require game officials to cooperate with City staff concerning any incident or injury situations and will provide the name(s) and phone number(s) of any official(s) upon request. Game officials will supply any/all information necessary for proper documentation by site supervisor regarding incident or injury situations.

26. City staff members can evaluate game officials on a random basis throughout the course of the regular season and tournament play. Evaluations will be discussed with the Contractors when necessary. Contractors agree that the City may terminate any contract services agreement for cause based upon (without limitation) game officials not meeting an acceptable level of evaluation standards as determined by City staff.

27. Contractors agree that City staff members have the right to evaluate, and when justified, refuse the service of any official. Written justification will be provided to the Contractor explaining why a game official was precluded from performing such contract services.

28. Contractors are responsible for ensuring that all game officials are aware that their presence and actions, while officiating, must always represent the city in the best possible manner.

29. City's Contract Officer or the Adult and/or Youth Sports Coordinators will assign, and may add or delete, games as necessary, and charges for added or deleted games will be pursuant to Exhibit C – Schedule of Compensation. The number of games scheduled in total shall depend on the number of participants registered, and the number of scheduled games assigned to each successful proposer(s) will be in the sole discretion of the City's Contract Officer. The

City shall provide updated assigned schedules to Contractors when they become available schedules to Contractors when they become available

30. Cost proposals submitted should be all inclusive of services provided and shall include assignor fees, site checks, and official payment. Please provide cost proposals in Exhibit C, below.

31. Proposers should include any fees associated with site checks in the cost proposal along with a brief description of what is to be accomplished during a site check and how often they will occur.

32. Contractors shall submit an invoice bi-weekly to the Recreation Division. For Adult Sports officiating services, Attn: Adult Sports Coordinator, Matt Jordan and for Youth Sports officiating services, Attn: Youth Sports Coordinator, Nancy Rusas. The coordinators will review invoices and submit them to the Finance Department to process payment.

33. Contractors agree to maintain and honor all terms, conditions and specifications of the proposal for any additions to programs during the dates listed in the scope.

34. At the start of the sport season, Contractors shall provide a list containing the names and certifications of all officials that may be assigned to work games to the Adult and Youth Sports Coordinators. The preference is for contractors to use a cloud-based program like Arbiter or similar when assigning game officials, so that the City's Contract Officer and the Adult and Youth Sports Coordinators will have the ability to access assignments and confirm that all games are covered.

35. Each task shall be indicated by a written request produced by the Contract Officer with a description of the work to be performed, and the time desired for completion. All tasks shall be carried out in conformity with all provisions of this Agreement.

36. Consultant must prepare a written description of the requested tasks including all components and subtasks; the costs to perform the task ("Task Budget"), using the itemized fees in Exhibit C, Schedule of Compensation, whenever a requested task is provided for in Exhibit C; explain how the cost was determined; and, a schedule for completion of the task ("Task Completion Date"); which shall all collectively be referred to as the "Task Proposal".

[*END OF SCOPE OF SERVICES*]

Purchasing Division
701 E. Carson Street
Carson, CA 90745

EXHIBIT A

GENERAL ATTACHMENTS

Exhibit A contains the City's required forms and attachments. All forms must be completed and submitted; failure to do so may result in disqualification.

- ☐ Bidder/Proposer Affidavit
- ☐ Affidavit of Non-Collusion and Non-Discrimination
- ☐ Affidavit of Non-Federal Lobbyist Requirement
- ☐ Debarment and Suspension Certification
- ☐ Acknowledgment of Insurance Endorsements
- ☐ Client Reference List
- ☐ Certification of Compliance with Labor Code Section 3700
- ☐ W9

Purchasing Division
701 E. Carson Street
Carson, CA 90745

Bidder/Proposer Affidavit

Bidder/Proposer Name: _____

Mailing Address: _____

_____

Main Contact & Title: _____

Email: _____ Phone: _____

BIDDER/PROPOSER SIGNATURE AUTHORIZATION AND CERTIFICATION

Per the California Corporate Code, Business and Processions Code, the Bidder's/ Proposer's Bylaws/Operating Agreement and/or the attached Board Resolutions (if applicable), I/we hereby verity the following:

1. That I/we am/are (an) authorized signatory(ies) for the Bidder/Proposer and as such am/are authorized to sign and bind the Bidder/Proposer to contract with the City of Carson;

2. That the bid/proposal was not made in the interest or behalf of any person, partnership, company, association, organization or corporation not named or disclosed;

3. That the bid/proposal is genuine; that all statements of fact in the bid/proposal are true;

4. That the Bidder has not been debarred from participation in any State or Federal works project;

Signature: _____ Signature:_____

Date: _____ Date: _____

Name: _____ Name: _____

Title: _____ Title: _____

BIDDER/PROPOSER AUTHORITY IS PROVIDED IN ACCORDANCE WITH:

☐Bidder/Proposer's Bylaws/Operating Agreement Section: _____

☐Board Resolution

☐Corporate or Business Professions Code

IMPORTANT NOTE: If the signature authorization status of any individual changes at any time, it is the responsibility of the Bidder to contact the authorized City Staff regarding the change and to complete and submit new Bidder Information Form. Incorrect information on file may delay the processing of any of the documents submitted.

Purchasing Division
701 E. Carson Street
Carson, CA 90745

Affidavit of Non-Collusion and Non-Discrimination

I hereby swear (or affirm) under the penalty of perjury:

That the attached proposal or bid has been arrived at by the responder independently and has been submitted without collusion with and without any agreement, understanding, or planned common course of action with any other firm or entity designed to limit fair and open competition;

That the contents of the proposal or bid response have not been communicated by the responder or its employees or agents to any person not an employee or agent of the responder and will not be communicated to any such persons prior to the official opening of the solicitation responses; and

The proposer/bidder does not and shall not discriminate, will provide equal employment practices, and will adhere to an affirmative action program to ensure that in their employment practices, persons are employed and employees are treated equally and without regard to or because of race, religion, ancestry, national origin, sex, sexual orientation, age, disability, marital status or medical condition.

I certify that the above statements are true and accurate.

***Authorized Official**:*

Signature:_____

Date: _____

Name: _____

Title: _____

Purchasing Division
701 E. Carson Street
Carson, CA 90745

Affidavit of Non-Federal Lobbyist Requirement

Name of Firm: _____

Address: _____

_____

Telephone: _____

I hereby swear (or affirm) under the penalty of perjury:

1. No Federal appropriated funds have been paid, by or on behalf of the above named firm to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer of employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, loan or cooperative agreement, and any extension, continuation, renewal, amendment, or modification thereof, and;

2. If any funds other than Federal appropriated funds have paid or will be paid to any person for influencing or attempting to influence an officer or employee or any agency, a Member of Congress or employee of Congress or an employee of a Member of Congress in connection with this Federal contract, grant loan, or cooperative agreement, the above named firm shall complete and submit Standard Form-LLL, “Disclosure Form to Report Lobbying”, in accordance with its instructions, and;

3. The above-name firm shall require that the language of this certification be included in the award documents for all sub-awards at all tiers (including subcontracts, sub-grants, and contracts under grants, loans, and cooperative agreement) and that all sub-recipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into the transaction imposed by Section 1352 Title 31, U.S. Code. Any person who fails to file the required certification shall be subject to civil penalty of not less than $10,000 and not more than $100,000 for each such failure.

Authorized Official:

Signature:_____

Date: _____

Name: _____

Title: _____

Purchasing Division
701 E. Carson Street
Carson, CA 90745

Debarment and Suspension Certification

Name of Firm: _____

Acting on behalf of the above-named firm ("Consultant"), as its Authorized Official, I, the undersigned, certify as follows:

I am a duly authorized representative of ("Consultant"). Consultant certifies, to the best of its knowledge and belief, that Consultant, including its principals:

Is not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any federal department or agency, and not does not have a proposed debarment pending;

Has not within the three-year period preceding this certification been convicted of or had a civil judgment rendered against it for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (federal, state or local) transaction, contract, or subcontract under a public transaction; for violation of federal or state antitrust statutes; or for commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements or receiving stolen property;

Is not presently indicted for or otherwise criminally or civilly charged by a governmental entity (federal, state, or local) with commission of any of the offenses enumerated in paragraph (2) above; and

Has not within the three-year period preceding this certification had one or more public transactions (federal, state or local) terminated for cause or default.

Consultant further certifies that Consultant, including its principals, is not listed on the government-wide exclusions in the System for Award Management.

Consultant acknowledges that falsely providing this certification may result in criminal prosecution or administrative sanctions, and that this certification is a required component of all proposals in response to this IFB/RFP/RFQ.

A proposal that does not include a completed and signed version of this certification will be deemed incomplete and materially nonresponsive, and will not be considered.

Authorized Official:

Signature:_____

Date: _____

Name: _____

Title: _____

Purchasing Division
701 E. Carson Street
Carson, CA 90745

Acknowledgment of Insurance Endorsements

In recognition of _____ ("Company") having submitted a proposal or bid to the City of Carson IFB/RFP/RFQ #_____, dated _____, 202__ ("RFP"/"IFB"/"RFQ"), issued by the City of Carson ("City"), and in further recognition that the City requires Company to comply with certain insurance requirements (i) as set forth in Section _____ ("Insurance Provisions") of the Agreement (which Agreement is defined in and made part of the IFB/RFP/RFQ) and (ii) the Other Insurance requirements described in the IFB/RFP/RFQ, if any, I represent that I am the authorized Insurance Broker of Record for Company, and by signing below, I acknowledge, warrant and represent that Company meets the requirements set forth in Insurance Provisions and any applicable Other Insurance requirements, and if requested , shall furnish all the insurance endorsements prescribed in the Insurance Provisions and Other Insurance within thirty (30) days of contract award, as respecting.

[PLEASE CHECK ALL THAT APPLY]

____ General Liability

____ Automobile Liability

____ Worker's Compensation

____ Professional Liability

____ Pollution Liability

Other Insurance Provisions:

____ Cyber Liability

____ Crime Insurance

____ Bonds

_____ _____

Name of Insurer [Print] Name, Title [Print]

_____ _____

Signature Date

Purchasing Division
701 E. Carson Street
Carson, CA 90745

Client Reference List

Provide at least 3 references for projects of similar scope and capacity completed within the last 3 years. The City reserves the right to contact any references provided.

Bidder/Proposer Name: _____

1. Client Name: _____

Address: _____

Contact: _____ Email: _____

Project Description: _____

Project Start: _____ Project End: _____

Project Budget: _____

2. Client Name: _____

Address: _____

Contact: _____ Email: _____

Project Description: _____

Project Start: _____ Project End: _____

Project Budget: _____

3. Client Name: _____

Address: _____

Contact: _____ Email: _____

Project Description: _____

Project Start: _____ Project End: _____

Project Budget: _____

Authorized Official:

Signature: _____

Date: _____

Name: _____

Title: _____

City of Carson
Purchasing Division
701 E. Carson Street
Carson, CA 90745

Certification of Compliance with Labor Code Section 3700

Name of Firm: _____

Acting on behalf of the above-named firm ("Consultant") as its Authorized Official, I, the undersigned, certify as follows:

Consultant is aware of the provisions of Section 3700 of the California Labor Code, which require every employer to insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and will comply with such provisions before commencing the performance of the work under any contract awarded in response to Consultant's proposal.

CONSULTANT

By: _____

Title: _____

Date: _____

Form **W-9**
(Rev. March 2024)
Department of the Treasury
Internal Revenue Service

Request for Taxpayer Identification Number and Certification

Go to *www.irs.gov/FormW9* for instructions and the latest information.

Give form to the requester. Do not send to the IRS.

Before you begin. For guidance related to the purpose of Form W-9, see *Purpose of Form*, below.

Print or type. See ***Specific Instructions*** on page 3.

1 Name of entity/individual. An entry is required. (For a sole proprietor or disregarded entity, enter the owner's name on line 1, and enter the business/disregarded entity's name on line 2.)

2 Business name/disregarded entity name, if different from above.

3a Check the appropriate box for federal tax classification of the entity/individual whose name is entered on line 1. Check only **one** of the following seven boxes.

☐ Individual/sole proprietor ☐ C corporation ☐ S corporation ☐ Partnership ☐ Trust/estate

☐ LLC. Enter the tax classification (C = C corporation, S = S corporation, P = Partnership) . . . . .

Note: Check the "LLC" box above and, in the entry space, enter the appropriate code (C, S, or P) for the tax classification of the LLC, unless it is a disregarded entity. A disregarded entity should instead check the appropriate box for the tax classification of its owner.

☐ Other (see instructions)

3b If on line 3a you checked "Partnership" or "Trust/estate," or checked "LLC" and entered "P" as its tax classification, and you are providing this form to a partnership, trust, or estate in which you have an ownership interest, check this box if you have any foreign partners, owners, or beneficiaries. See instructions . . . . . ☐

4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3):

Exempt payee code (if any)

Exemption from Foreign Account Tax Compliance Act (FATCA) reporting code (if any)

(Applies to accounts maintained outside the United States.)

5 Address (number, street, and apt. or suite no.). See instructions.

Requester's name and address (optional)

6 City, state, and ZIP code

7 List account number(s) here (optional)

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

Note: If the account is in more than one name, see the instructions for line 1. See also *What Name and Number To Give the Requester* for guidelines on whose number to enter.

Social security number

☐☐☐ – ☐☐ – ☐☐☐☐

or

Employer identification number

☐☐ – ☐☐☐☐☐☐☐

Part II Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
2. I am not subject to backup withholding because (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
3. I am a U.S. citizen or other U.S. person (defined below); and
4. The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and, generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

Sign Here **Signature of U.S. person** **Date**

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to *www.irs.gov/FormW9*.

What's New

Line 3a has been modified to clarify how a disregarded entity completes this line. An LLC that is a disregarded entity should check the appropriate box for the tax classification of its owner. Otherwise, it should check the "LLC" box and enter its appropriate tax classification.

New line 3b has been added to this form. A flow-through entity is required to complete this line to indicate that it has direct or indirect foreign partners, owners, or beneficiaries when it provides the Form W-9 to another flow-through entity in which it has an ownership interest. This change is intended to provide a flow-through entity with information regarding the status of its indirect foreign partners, owners, or beneficiaries, so that it can satisfy any applicable reporting requirements. For example, a partnership that has any indirect foreign partners may be required to complete Schedules K-2 and K-3. See the Partnership Instructions for Schedules K-2 and K-3 (Form 1065).

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS is giving you this form because they

must obtain your correct taxpayer identification number (TIN), which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following.

- Form 1099-INT (interest earned or paid).
- Form 1099-DIV (dividends, including those from stocks or mutual funds).
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds).
- Form 1099-NEC (nonemployee compensation).
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers).
- Form 1099-S (proceeds from real estate transactions).
- Form 1099-K (merchant card and third-party network transactions).
- Form 1098 (home mortgage interest), 1098-E (student loan interest), and 1098-T (tuition).
- Form 1099-C (canceled debt).
- Form 1099-A (acquisition or abandonment of secured property).

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

Caution: If you don't return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See *What is backup withholding*, later.

By signing the filled-out form, you:

1. Certify that the TIN you are giving is correct (or you are waiting for a number to be issued);

2. Certify that you are not subject to backup withholding; or

3. Claim exemption from backup withholding if you are a U.S. exempt payee; and

4. Certify to your non-foreign status for purposes of withholding under chapter 3 or 4 of the Code (if applicable); and

5. Certify that FATCA code(s) entered on this form (if any) indicating that you are exempt from the FATCA reporting is correct. See *What Is FATCA Reporting*, later, for further information.

Note: If you are a U.S. person and a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

Definition of a U.S. person. For federal tax purposes, you are considered a U.S. person if you are:

- An individual who is a U.S. citizen or U.S. resident alien;
- A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States;
- An estate (other than a foreign estate); or
- A domestic trust (as defined in Regulations section 301.7701-7).

Establishing U.S. status for purposes of chapter 3 and chapter 4 withholding. Payments made to foreign persons, including certain distributions, allocations of income, or transfers of sales proceeds, may be subject to withholding under chapter 3 or chapter 4 of the Code (sections 1441–1474). Under those rules, if a Form W-9 or other certification of non-foreign status has not been received, a withholding agent, transferee, or partnership (payor) generally applies presumption rules that may require the payor to withhold applicable tax from the recipient, owner, transferor, or partner (payee). See Pub. 515, Withholding of Tax on Nonresident Aliens and Foreign Entities.

The following persons must provide Form W-9 to the payor for purposes of establishing its non-foreign status.

- In the case of a disregarded entity with a U.S. owner, the U.S. owner of the disregarded entity and not the disregarded entity.
- In the case of a grantor trust with a U.S. grantor or other U.S. owner, generally, the U.S. grantor or other U.S. owner of the grantor trust and not the grantor trust.
- In the case of a U.S. trust (other than a grantor trust), the U.S. trust and not the beneficiaries of the trust.

See Pub. 515 for more information on providing a Form W-9 or a certification of non-foreign status to avoid withholding.

Foreign person. If you are a foreign person or the U.S. branch of a foreign bank that has elected to be treated as a U.S. person (under Regulations section 1.1441-1(b)(2)(iv) or other applicable section for chapter 3 or 4 purposes), do not use Form W-9. Instead, use the appropriate Form W-8 or Form 8233 (see Pub. 515). If you are a qualified foreign pension fund under Regulations section 1.897(l)-1(d), or a partnership that is wholly owned by qualified foreign pension funds, that is treated as a non-foreign person for purposes of section 1445 withholding, do not use Form W-9. Instead, use Form W-8EXP (or other certification of non-foreign status).

Nonresident alien who becomes a resident alien. Generally, only a nonresident alien individual may use the terms of a tax treaty to reduce or eliminate U.S. tax on certain types of income. However, most tax treaties contain a provision known as a saving clause. Exceptions specified in the saving clause may permit an exemption from tax to continue for certain types of income even after the payee has otherwise become a U.S. resident alien for tax purposes.

If you are a U.S. resident alien who is relying on an exception contained in the saving clause of a tax treaty to claim an exemption from U.S. tax on certain types of income, you must attach a statement to Form W-9 that specifies the following five items.

1. The treaty country. Generally, this must be the same treaty under which you claimed exemption from tax as a nonresident alien.

2. The treaty article addressing the income.

3. The article number (or location) in the tax treaty that contains the saving clause and its exceptions.

4. The type and amount of income that qualifies for the exemption from tax.

5. Sufficient facts to justify the exemption from tax under the terms of the treaty article.

Example. Article 20 of the U.S.-China income tax treaty allows an exemption from tax for scholarship income received by a Chinese student temporarily present in the United States. Under U.S. law, this student will become a resident alien for tax purposes if their stay in the United States exceeds 5 calendar years. However, paragraph 2 of the first Protocol to the U.S.-China treaty (dated April 30, 1984) allows the provisions of Article 20 to continue to apply even after the Chinese student becomes a resident alien of the United States. A Chinese student who qualifies for this exception (under paragraph 2 of the first Protocol) and is relying on this exception to claim an exemption from tax on their scholarship or fellowship income would attach to Form W-9 a statement that includes the information described above to support that exemption.

If you are a nonresident alien or a foreign entity, give the requester the appropriate completed Form W-8 or Form 8233.

Backup Withholding

What is backup withholding? Persons making certain payments to you must under certain conditions withhold and pay to the IRS 24% of such payments. This is called "backup withholding." Payments that may be subject to backup withholding include, but are not limited to, interest, tax-exempt interest, dividends, broker and barter exchange transactions, rents, royalties, nonemployee pay, payments made in settlement of payment card and third-party network transactions, and certain payments from fishing boat operators. Real estate transactions are not subject to backup withholding.

You will not be subject to backup withholding on payments you receive if you give the requester your correct TIN, make the proper certifications, and report all your taxable interest and dividends on your tax return.

Payments you receive will be subject to backup withholding if:

1. You do not furnish your TIN to the requester;

2. You do not certify your TIN when required (see the instructions for Part II for details);

3. The IRS tells the requester that you furnished an incorrect TIN;

4. The IRS tells you that you are subject to backup withholding because you did not report all your interest and dividends on your tax return (for reportable interest and dividends only); or

5. You do not certify to the requester that you are not subject to backup withholding, as described in item 4 under "*By signing the filled-out form*" above (for reportable interest and dividend accounts opened after 1983 only).

Certain payees and payments are exempt from backup withholding. See *Exempt payee code*, later, and the separate Instructions for the Requester of Form W-9 for more information.

See also *Establishing U.S. status for purposes of chapter 3 and chapter 4 withholding*, earlier.

What Is FATCA Reporting?

The Foreign Account Tax Compliance Act (FATCA) requires a participating foreign financial institution to report all U.S. account holders that are specified U.S. persons. Certain payees are exempt from FATCA reporting. See *Exemption from FATCA reporting code*, later, and the Instructions for the Requester of Form W-9 for more information.

Updating Your Information

You must provide updated information to any person to whom you claimed to be an exempt payee if you are no longer an exempt payee and anticipate receiving reportable payments in the future from this person. For example, you may need to provide updated information if you are a C corporation that elects to be an S corporation, or if you are no longer tax exempt. In addition, you must furnish a new Form W-9 if the name or TIN changes for the account, for example, if the grantor of a grantor trust dies.

Penalties

Failure to furnish TIN. If you fail to furnish your correct TIN to a requester, you are subject to a penalty of $50 for each such failure unless your failure is due to reasonable cause and not to willful neglect.

Civil penalty for false information with respect to withholding. If you make a false statement with no reasonable basis that results in no backup withholding, you are subject to a $500 penalty.

Criminal penalty for falsifying information. Willfully falsifying certifications or affirmations may subject you to criminal penalties including fines and/or imprisonment.

Misuse of TINs. If the requester discloses or uses TINs in violation of federal law, the requester may be subject to civil and criminal penalties.

Specific Instructions

Line 1

You must enter one of the following on this line; **do not** leave this line blank. The name should match the name on your tax return.

If this Form W-9 is for a joint account (other than an account maintained by a foreign financial institution (FFI)), list first, and then circle, the name of the person or entity whose number you entered in Part I of Form W-9. If you are providing Form W-9 to an FFI to document a joint account, each holder of the account that is a U.S. person must provide a Form W-9.

• **Individual.** Generally, enter the name shown on your tax return. If you have changed your last name without informing the Social Security Administration (SSA) of the name change, enter your first name, the last name as shown on your social security card, and your new last name.

Note for ITIN applicant: Enter your individual name as it was entered on your Form W-7 application, line 1a. This should also be the same as the name you entered on the Form 1040 you filed with your application.

• **Sole proprietor.** Enter your individual name as shown on your Form 1040 on line 1. Enter your business, trade, or "doing business as" (DBA) name on line 2.

• **Partnership, C corporation, S corporation, or LLC, other than a disregarded entity.** Enter the entity's name as shown on the entity's tax return on line 1 and any business, trade, or DBA name on line 2.

• **Other entities.** Enter your name as shown on required U.S. federal tax documents on line 1. This name should match the name shown on the charter or other legal document creating the entity. Enter any business, trade, or DBA name on line 2.

• **Disregarded entity.** In general, a business entity that has a single owner, including an LLC, and is not a corporation, is disregarded as an entity separate from its owner (a disregarded entity). See Regulations section 301.7701-2(c)(2). A disregarded entity should check the appropriate box for the tax classification of its owner. Enter the owner's name on line 1. The name of the owner entered on line 1 should never be a disregarded entity. The name on line 1 should be the name shown on the income tax return on which the income should be reported. For example, if a foreign LLC that is treated as a disregarded entity for U.S. federal tax purposes has a single owner that is a U.S. person, the U.S. owner's name is required to be provided on line 1. If the direct owner of the entity is also a disregarded entity, enter the first owner that is not disregarded for federal tax purposes. Enter the disregarded entity's name on line 2. If the owner of the disregarded entity is a foreign person, the owner must complete an appropriate Form W-8 instead of a Form W-9. This is the case even if the foreign person has a U.S. TIN.

Line 2

If you have a business name, trade name, DBA name, or disregarded entity name, enter it on line 2.

Line 3a

Check the appropriate box on line 3a for the U.S. federal tax classification of the person whose name is entered on line 1. Check only one box on line 3a.

IF the entity/individual on line 1 is a(n) . . .	THEN check the box for . . .
• Corporation	Corporation.
• Individual or • Sole proprietorship	Individual/sole proprietor.
• LLC classified as a partnership for U.S. federal tax purposes or • LLC that has filed Form 8832 or 2553 electing to be taxed as a corporation	Limited liability company and enter the appropriate tax classification: P = Partnership, C = C corporation, or S = S corporation.
• Partnership	Partnership.
• Trust/estate	Trust/estate.

Line 3b

Check this box if you are a partnership (including an LLC classified as a partnership for U.S. federal tax purposes), trust, or estate that has any foreign partners, owners, or beneficiaries, and you are providing this form to a partnership, trust, or estate, in which you have an ownership interest. You must check the box on line 3b if you receive a Form W-8 (or documentary evidence) from any partner, owner, or beneficiary establishing foreign status or if you receive a Form W-9 from any partner, owner, or beneficiary that has checked the box on line 3b.

Note: A partnership that provides a Form W-9 and checks box 3b may be required to complete Schedules K-2 and K-3 (Form 1065). For more information, see the Partnership Instructions for Schedules K-2 and K-3 (Form 1065).

If you are required to complete line 3b but fail to do so, you may not receive the information necessary to file a correct information return with the IRS or furnish a correct payee statement to your partners or beneficiaries. See, for example, sections 6698, 6722, and 6724 for penalties that may apply.

Line 4 Exemptions

If you are exempt from backup withholding and/or FATCA reporting, enter in the appropriate space on line 4 any code(s) that may apply to you.

Exempt payee code.

• Generally, individuals (including sole proprietors) are not exempt from backup withholding.

• Except as provided below, corporations are exempt from backup withholding for certain payments, including interest and dividends.

• Corporations are not exempt from backup withholding for payments made in settlement of payment card or third-party network transactions.

• Corporations are not exempt from backup withholding with respect to attorneys' fees or gross proceeds paid to attorneys, and corporations that provide medical or health care services are not exempt with respect to payments reportable on Form 1099-MISC.

The following codes identify payees that are exempt from backup withholding. Enter the appropriate code in the space on line 4.

1—An organization exempt from tax under section 501(a), any IRA, or a custodial account under section 403(b)(7) if the account satisfies the requirements of section 401(f)(2).

2—The United States or any of its agencies or instrumentalities.

3—A state, the District of Columbia, a U.S. commonwealth or territory, or any of their political subdivisions or instrumentalities.

4—A foreign government or any of its political subdivisions, agencies, or instrumentalities.

5—A corporation.

6—A dealer in securities or commodities required to register in the United States, the District of Columbia, or a U.S. commonwealth or territory.

7—A futures commission merchant registered with the Commodity Futures Trading Commission.

8—A real estate investment trust.

9—An entity registered at all times during the tax year under the Investment Company Act of 1940.

10—A common trust fund operated by a bank under section 584(a).

11—A financial institution as defined under section 581.

12—A middleman known in the investment community as a nominee or custodian.

13—A trust exempt from tax under section 664 or described in section 4947.

The following chart shows types of payments that may be exempt from backup withholding. The chart applies to the exempt payees listed above, 1 through 13.

IF the payment is for . . .	THEN the payment is exempt for . . .
• Interest and dividend payments	All exempt payees except for 7.
• Broker transactions	Exempt payees 1 through 4 and 6 through 11 and all C corporations. S corporations must not enter an exempt payee code because they are exempt only for sales of noncovered securities acquired prior to 2012.
• Barter exchange transactions and patronage dividends	Exempt payees 1 through 4.
• Payments over $600 required to be reported and direct sales over $5,000[1]	Generally, exempt payees 1 through 5.[2]
• Payments made in settlement of payment card or third-party network transactions	Exempt payees 1 through 4.

[1] See Form 1099-MISC, Miscellaneous Information, and its instructions.

[2] However, the following payments made to a corporation and reportable on Form 1099-MISC are not exempt from backup withholding: medical and health care payments, attorneys' fees, gross proceeds paid to an attorney reportable under section 6045(f), and payments for services paid by a federal executive agency.

Exemption from FATCA reporting code. The following codes identify payees that are exempt from reporting under FATCA. These codes apply to persons submitting this form for accounts maintained outside of the United States by certain foreign financial institutions. Therefore, if you are only submitting this form for an account you hold in the United States, you may leave this field blank. Consult with the person requesting this form if you are uncertain if the financial institution is subject to these requirements. A requester may indicate that a code is not required by providing you with a Form W-9 with "Not Applicable" (or any similar indication) entered on the line for a FATCA exemption code.

A—An organization exempt from tax under section 501(a) or any individual retirement plan as defined in section 7701(a)(37).

B—The United States or any of its agencies or instrumentalities.

C—A state, the District of Columbia, a U.S. commonwealth or territory, or any of their political subdivisions or instrumentalities.

D—A corporation the stock of which is regularly traded on one or more established securities markets, as described in Regulations section 1.1472-1(c)(1)(i).

E—A corporation that is a member of the same expanded affiliated group as a corporation described in Regulations section 1.1472-1(c)(1)(i).

F—A dealer in securities, commodities, or derivative financial instruments (including notional principal contracts, futures, forwards, and options) that is registered as such under the laws of the United States or any state.

G—A real estate investment trust.

H—A regulated investment company as defined in section 851 or an entity registered at all times during the tax year under the Investment Company Act of 1940.

I—A common trust fund as defined in section 584(a).

J—A bank as defined in section 581.

K—A broker.

L—A trust exempt from tax under section 664 or described in section 4947(a)(1).

M—A tax-exempt trust under a section 403(b) plan or section 457(g) plan.

Note: You may wish to consult with the financial institution requesting this form to determine whether the FATCA code and/or exempt payee code should be completed.

Line 5

Enter your address (number, street, and apartment or suite number). This is where the requester of this Form W-9 will mail your information returns. If this address differs from the one the requester already has on file, enter "NEW" at the top. If a new address is provided, there is still a chance the old address will be used until the payor changes your address in their records.

Line 6

Enter your city, state, and ZIP code.

Part I. Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. If you are a resident alien and you do not have, and are not eligible to get, an SSN, your TIN is your IRS ITIN. Enter it in the entry space for the Social security number. If you do not have an ITIN, see *How to get a TIN* below.

If you are a sole proprietor and you have an EIN, you may enter either your SSN or EIN.

If you are a single-member LLC that is disregarded as an entity separate from its owner, enter the owner's SSN (or EIN, if the owner has one). If the LLC is classified as a corporation or partnership, enter the entity's EIN.

Note: See *What Name and Number To Give the Requester*, later, for further clarification of name and TIN combinations.

How to get a TIN. If you do not have a TIN, apply for one immediately. To apply for an SSN, get Form SS-5, Application for a Social Security Card, from your local SSA office or get this form online at *www.SSA.gov*. You may also get this form by calling 800-772-1213. Use Form W-7, Application for IRS Individual Taxpayer Identification Number, to apply for an ITIN, or Form SS-4, Application for Employer Identification Number, to apply for an EIN. You can apply for an EIN online by accessing the IRS website at *www.irs.gov/EIN*. Go to *www.irs.gov/Forms* to view, download, or print Form W-7 and/or Form SS-4. Or, you can go to *www.irs.gov/OrderForms* to place an order and have Form W-7 and/or Form SS-4 mailed to you within 15 business days.

If you are asked to complete Form W-9 but do not have a TIN, apply for a TIN and enter "Applied For" in the space for the TIN, sign and date the form, and give it to the requester. For interest and dividend payments, and certain payments made with respect to readily tradable instruments, you will generally have 60 days to get a TIN and give it to the requester before you are subject to backup withholding on payments. The 60-day rule does not apply to other types of payments. You will be subject to backup withholding on all such payments until you provide your TIN to the requester.

Note: Entering "Applied For" means that you have already applied for a TIN or that you intend to apply for one soon. See also *Establishing U.S. status for purposes of chapter 3 and chapter 4 withholding*, earlier, for when you may instead be subject to withholding under chapter 3 or 4 of the Code.

Caution: A disregarded U.S. entity that has a foreign owner must use the appropriate Form W-8.

Part II. Certification

To establish to the withholding agent that you are a U.S. person, or resident alien, sign Form W-9. You may be requested to sign by the withholding agent even if item 1, 4, or 5 below indicates otherwise.

For a joint account, only the person whose TIN is shown in Part I should sign (when required). In the case of a disregarded entity, the person identified on line 1 must sign. Exempt payees, see *Exempt payee code*, earlier.

Signature requirements. Complete the certification as indicated in items 1 through 5 below.

1. Interest, dividend, and barter exchange accounts opened before 1984 and broker accounts considered active during 1983. You must give your correct TIN, but you do not have to sign the certification.

2. Interest, dividend, broker, and barter exchange accounts opened after 1983 and broker accounts considered inactive during 1983. You must sign the certification or backup withholding will apply. If you are subject to backup withholding and you are merely providing your correct TIN to the requester, you must cross out item 2 in the certification before signing the form.

3. Real estate transactions. You must sign the certification. You may cross out item 2 of the certification.

4. Other payments. You must give your correct TIN, but you do not have to sign the certification unless you have been notified that you have previously given an incorrect TIN. "Other payments" include payments made in the course of the requester's trade or business for rents, royalties, goods (other than bills for merchandise), medical and health care services (including payments to corporations), payments to a nonemployee for services, payments made in settlement of payment card and third-party network transactions, payments to certain fishing boat crew members and fishermen, and gross proceeds paid to attorneys (including payments to corporations).

5. Mortgage interest paid by you, acquisition or abandonment of secured property, cancellation of debt, qualified tuition program payments (under section 529), ABLE accounts (under section 529A), IRA, Coverdell ESA, Archer MSA or HSA contributions or distributions, and pension distributions. You must give your correct TIN, but you do not have to sign the certification.

What Name and Number To Give the Requester

For this type of account:	Give name and SSN of:
1. Individual	The individual
2. Two or more individuals (joint account) other than an account maintained by an FFI	The actual owner of the account or, if combined funds, the first individual on the account[1]
3. Two or more U.S. persons (joint account maintained by an FFI)	Each holder of the account
4. Custodial account of a minor (Uniform Gift to Minors Act)	The minor[2]
5. a. The usual revocable savings trust (grantor is also trustee)	The grantor-trustee[1]
b. So-called trust account that is not a legal or valid trust under state law	The actual owner[1]
6. Sole proprietorship or disregarded entity owned by an individual	The owner[3]
7. Grantor trust filing under Optional Filing Method 1 (see Regulations section 1.671-4(b)(2)(i)(A))**	The grantor*
8. Disregarded entity not owned by an individual	The owner
9. A valid trust, estate, or pension trust	Legal entity[4]
10. Corporation or LLC electing corporate status on Form 8832 or Form 2553	The corporation
11. Association, club, religious, charitable, educational, or other tax-exempt organization	The organization
12. Partnership or multi-member LLC	The partnership
13. A broker or registered nominee	The broker or nominee
14. Account with the Department of Agriculture in the name of a public entity (such as a state or local government, school district, or prison) that receives agricultural program payments	The public entity
15. Grantor trust filing Form 1041 or under the Optional Filing Method 2, requiring Form 1099 (see Regulations section 1.671-4(b)(2)(i)(B))**	The trust

[1] List first and circle the name of the person whose number you furnish. If only one person on a joint account has an SSN, that person's number must be furnished.

[2] Circle the minor's name and furnish the minor's SSN.

[3] You must show your individual name on line 1, and enter your business or DBA name, if any, on line 2. You may use either your SSN or EIN (if you have one), but the IRS encourages you to use your SSN.

[4] List first and circle the name of the trust, estate, or pension trust. (Do not furnish the TIN of the personal representative or trustee unless the legal entity itself is not designated in the account title.)

* **Note:** The grantor must also provide a Form W-9 to the trustee of the trust.

** For more information on optional filing methods for grantor trusts, see the Instructions for Form 1041.

Note: If no name is circled when more than one name is listed, the number will be considered to be that of the first name listed.

Secure Your Tax Records From Identity Theft

Identity theft occurs when someone uses your personal information, such as your name, SSN, or other identifying information, without your permission to commit fraud or other crimes. An identity thief may use your SSN to get a job or may file a tax return using your SSN to receive a refund.

To reduce your risk:

- Protect your SSN,
- Ensure your employer is protecting your SSN, and
- Be careful when choosing a tax return preparer.

If your tax records are affected by identity theft and you receive a notice from the IRS, respond right away to the name and phone number printed on the IRS notice or letter.

If your tax records are not currently affected by identity theft but you think you are at risk due to a lost or stolen purse or wallet, questionable credit card activity, or a questionable credit report, contact the IRS Identity Theft Hotline at 800-908-4490 or submit Form 14039.

For more information, see Pub. 5027, Identity Theft Information for Taxpayers.

Victims of identity theft who are experiencing economic harm or a systemic problem, or are seeking help in resolving tax problems that have not been resolved through normal channels, may be eligible for Taxpayer Advocate Service (TAS) assistance. You can reach TAS by calling the TAS toll-free case intake line at 877-777-4778 or TTY/TDD 800-829-4059.

Protect yourself from suspicious emails or phishing schemes. Phishing is the creation and use of email and websites designed to mimic legitimate business emails and websites. The most common act is sending an email to a user falsely claiming to be an established legitimate enterprise in an attempt to scam the user into surrendering private information that will be used for identity theft.

The IRS does not initiate contacts with taxpayers via emails. Also, the IRS does not request personal detailed information through email or ask taxpayers for the PIN numbers, passwords, or similar secret access information for their credit card, bank, or other financial accounts.

If you receive an unsolicited email claiming to be from the IRS, forward this message to *phishing@irs.gov*. You may also report misuse of the IRS name, logo, or other IRS property to the Treasury Inspector General for Tax Administration (TIGTA) at 800-366-4484. You can forward suspicious emails to the Federal Trade Commission at *spam@uce.gov* or report them at *www.ftc.gov/complaint*. You can contact the FTC at *www.ftc.gov/idtheft* or 877-IDTHEFT (877-438-4338). If you have been the victim of identity theft, see *www.IdentityTheft.gov* and Pub. 5027.

Go to *www.irs.gov/IdentityTheft* to learn more about identity theft and how to reduce your risk.

Privacy Act Notice

Section 6109 of the Internal Revenue Code requires you to provide your correct TIN to persons (including federal agencies) who are required to file information returns with the IRS to report interest, dividends, or certain other income paid to you; mortgage interest you paid; the acquisition or abandonment of secured property; the cancellation of debt; or contributions you made to an IRA, Archer MSA, or HSA. The person collecting this form uses the information on the form to file information returns with the IRS, reporting the above information. Routine uses of this information include giving it to the Department of Justice for civil and criminal litigation and to cities, states, the District of Columbia, and U.S. commonwealths and territories for use in administering their laws. The information may also be disclosed to other countries under a treaty, to federal and state agencies to enforce civil and criminal laws, or to federal law enforcement and intelligence agencies to combat terrorism. You must provide your TIN whether or not you are required to file a tax return. Under section 3406, payors must generally withhold a percentage of taxable interest, dividends, and certain other payments to a payee who does not give a TIN to the payor. Certain penalties may also apply for providing false or fraudulent information.

Purchasing Division
701 E. Carson Street
Carson, CA 90745

EXHIBIT B

CITY FORM CONTRACT

Exhibit B contains the City's standard contract template, provided for reference. Proposers seeking modifications must submit a redlined version with their proposal for the City's consideration. Award is contingent upon successful negotiations; if agreement cannot be reached, the City may proceed with another proposer.

CONTRACT SERVICES AGREEMENT

By and Between

CITY OF CARSON

and

_____

AGREEMENT FOR CONTRACT SERVICES
BETWEEN THE CITY OF CARSON AND

_____

THIS AGREEMENT FOR CONTRACT SERVICES (herein "Agreement") is made and entered into this ____ day of _____, 2026 by and between the CITY OF CARSON, a California municipal corporation ("City") and _____, _____ ("Consultant"). City and Consultant are sometimes hereinafter individually referred to as "Party" and hereinafter collectively referred to as the "Parties."

RECITALS

A. City has sought, by issuance of a Request for Proposals or Invitation for Bids, the performance of the services defined and described particularly in Article 1 of this Agreement.

B. Consultant, following submission of a proposal or bid for the performance of the services defined and described particularly in Article 1 of this Agreement, was selected by the City to perform those services.

C. Pursuant to the City of Carson's Municipal Code, City has authority to enter into and execute this Agreement.

D. The Parties desire to formalize the selection of Consultant for performance of those services defined and described particularly in Article 1 of this Agreement and desire that the terms of that performance be as particularly defined and described herein.

OPERATIVE PROVISIONS

NOW, THEREFORE, in consideration of the mutual promises and covenants made by the Parties and contained herein and other consideration, the value and adequacy of which are hereby acknowledged, the parties agree as follows:

ARTICLE 1. SERVICES OF CONSULTANT

1.1 Scope of Services.

In compliance with all terms and conditions of this Agreement, the Consultant shall provide those services specified in the "Scope of Services" attached hereto as Exhibit "A" and incorporated herein by this reference, which may be referred to herein as the "services" or "work" hereunder. As a material inducement to the City entering into this Agreement, Consultant represents and warrants that it has the qualifications, experience, and facilities necessary to properly perform the services required under this Agreement in a thorough, competent, and professional manner, and is experienced in performing the work and services contemplated herein. Consultant shall at all times faithfully, competently and to the best of its ability, experience and talent, perform all services described herein. Consultant covenants that it shall follow the highest professional standards in performing the work and services required hereunder and that all materials will be both of good quality as well as fit for the purpose intended. For purposes of this Agreement, the phrase "highest

professional standards" shall mean those standards of practice recognized by one or more first-class firms performing similar work under similar circumstances.

1.2 Consultant's Proposal.

The Scope of Service shall include the Consultant's scope of work or bid which shall be incorporated herein by this reference as though fully set forth herein. In the event of any inconsistency between the terms of such proposal and this Agreement, the terms of this Agreement shall govern.

1.3 Compliance with Law.

Consultant shall keep itself informed concerning, and shall render all services hereunder in accordance with, all ordinances, resolutions, statutes, rules, and regulations of the City and any Federal, State or local governmental entity having jurisdiction in effect at the time service is rendered.

1.4 Licenses, Permits, Fees and Assessments.

Consultant shall obtain at its sole cost and expense such licenses, permits and approvals as may be required by law for the performance of the services required by this Agreement. Consultant shall have the sole obligation to pay for any fees, assessments and taxes, plus applicable penalties and interest, which may be imposed by law and arise from or are necessary for the Consultant's performance of the services required by this Agreement, and shall indemnify, defend and hold harmless City, its officers, employees or agents of City, against any such fees, assessments, taxes, penalties or interest levied, assessed or imposed against City hereunder.

1.5 Familiarity with Work.

By executing this Agreement, Consultant warrants that Consultant (i) has thoroughly investigated and considered the scope of services to be performed, (ii) has carefully considered how the services should be performed, and (iii) fully understands the facilities, difficulties and restrictions attending performance of the services under this Agreement. If the services involve work upon any site, Consultant warrants that Consultant has or will investigate the site and is or will be fully acquainted with the conditions there existing, prior to commencement of services hereunder. Should the Consultant discover any latent or unknown conditions, which will materially affect the performance of the services hereunder, Consultant shall immediately inform the City of such fact and shall not proceed except at Consultant's risk until written instructions are received from the Contract Officer.

1.6 Care of Work.

The Consultant shall adopt reasonable methods during the life of the Agreement to furnish continuous protection to the work, and the equipment, materials, papers, documents, plans, studies and/or other components thereof to prevent losses or damages, and shall be responsible for all such damages, to persons or property, until acceptance of the work by City, except such losses or damages as may be caused by City's own negligence.

1.7 Further Responsibilities of Parties.

Both parties agree to use reasonable care and diligence to perform their respective obligations under this Agreement. Both parties agree to act in good faith to execute all instruments, prepare all documents and take all actions as may be reasonably necessary to carry out the purposes of this Agreement. Unless hereafter specified, neither party shall be responsible for the service of the other.

1.8 Additional Services.

City shall have the right at any time during the performance of the services, without invalidating this Agreement, to order extra work beyond that specified in the Scope of Services or make changes by altering, adding to or deducting from said work. No such extra work may be undertaken unless a written order is first given by the Contract Officer to the Consultant, incorporating therein any adjustment in (i) the Contract Sum for the actual costs of the extra work, and/or (ii) the time to perform this Agreement, which said adjustments are subject to the written approval of the Consultant. Any increase in compensation of up to ten percent (10%) of the Contract Sum or $25,000, whichever is less; or, in the time to perform of up to one hundred eighty (180) days, may be approved by the Contract Officer. Any greater increases, taken either separately or cumulatively, must be approved by the City Council. It is expressly understood by Consultant that the provisions of this Section shall not apply to services specifically set forth in the Scope of Services. Consultant hereby acknowledges that it accepts the risk that the services to be provided pursuant to the Scope of Services may be more costly or time consuming than Consultant anticipates and that Consultant shall not be entitled to additional compensation therefor. City may in its sole and absolute discretion have similar work done by other contractors. No claims for an increase in the Contract Sum or time for performance shall be valid unless the procedures established in this Section are followed.

1.9 Special Requirements.

Additional terms and conditions of this Agreement, if any, which are made a part hereof are set forth in the "Special Requirements" attached hereto as Exhibit "B" and incorporated herein by this reference. In the event of a conflict between the provisions of Exhibit "B" and any other provisions of this Agreement, the provisions of Exhibit "B" shall govern.

ARTICLE 2. COMPENSATION AND METHOD OF PAYMENT.

2.1 Contract Sum.

Subject to any limitations set forth in this Agreement, City agrees to pay Consultant the amounts specified in the "Schedule of Compensation" attached hereto as Exhibit "C" and incorporated herein by this reference. The total compensation, including reimbursement for actual expenses, shall not exceed _____ Dollars ($_____) (the "Contract Sum"), unless additional compensation is approved pursuant to Section 1.8.

2.2 Method of Compensation.

The method of compensation may include: (i) a lump sum payment upon completion; (ii) payment in accordance with specified tasks or the percentage of completion of the services; (iii) payment for time and materials based upon the Consultant's rates as specified in the Schedule of Compensation, provided that (a) time estimates are provided for the performance of sub tasks, (b) contract retention is maintained, and (c) the Contract Sum is not exceeded; or (iv) such other methods as may be specified in the Schedule of Compensation.

2.3 Reimbursable Expenses.

Compensation may include reimbursement for actual and necessary expenditures for reproduction costs, telephone expenses, and travel expenses approved by the Contract Officer in advance, or actual subcontractor expenses of an approved subcontractor pursuant to Section 4.5, and only if specified in the Schedule of Compensation. The Contract Sum shall include the attendance of Consultant at all project meetings reasonably deemed necessary by the City. Coordination of the performance of the work with City is a critical component of the services. If Consultant is required to attend additional meetings to facilitate such coordination, Consultant shall not be entitled to any additional compensation for attending said meetings.

2.4 Invoices.

Each month Consultant shall furnish to City an original invoice for all work performed and expenses incurred during the preceding month in a form approved by City's Director of Finance. By submitting an invoice for payment under this Agreement, Consultant is certifying compliance with all provisions of the Agreement. The invoice shall detail charges for all necessary and actual expenses by the following categories: labor (by sub-category), travel, materials, equipment, supplies, and sub-contractor contracts. Sub-contractor charges shall also be detailed by such categories. Consultant shall not invoice City for any duplicate services performed by more than one person.

City shall independently review each invoice submitted by the Consultant to determine whether the work performed and expenses incurred are in compliance with the provisions of this Agreement. Except as to any charges for work performed or expenses incurred by Consultant which are disputed by City, or as provided in Section 7.3, City will use its best efforts to cause Consultant to be paid within forty-five (45) days of receipt of Consultant's correct and undisputed invoice; however, Consultant acknowledges and agrees that due to City warrant run procedures, the City cannot guarantee that payment will occur within this time period. In the event any charges or expenses are disputed by City, the original invoice shall be returned by City to Consultant for correction and resubmission. Review and payment by City for any invoice provided by the Consultant shall not constitute a waiver of any rights or remedies provided herein or any applicable law.

2.5 Waiver.

Payment to Consultant for work performed pursuant to this Agreement shall not be deemed to waive any defects in work performed by Consultant.

ARTICLE 3. PERFORMANCE SCHEDULE

3.1 Time of Essence.

Time is of the essence in the performance of this Agreement.

3.2 Schedule of Performance.

Consultant shall commence the services pursuant to this Agreement upon receipt of a written notice to proceed and shall perform all services within the time period(s) established in the "Schedule of Performance" attached hereto as Exhibit "D" and incorporated herein by this reference. When requested by the Consultant, extensions to the time period(s) specified in the Schedule of Performance may be approved in writing by the Contract Officer but not exceeding one hundred eighty (180) days cumulatively.

3.3 Force Majeure.

The time period(s) specified in the Schedule of Performance for performance of the services rendered pursuant to this Agreement shall be extended because of any delays due to unforeseeable causes beyond the control and without the fault or negligence of the Consultant, including, but not restricted to, acts of God or of the public enemy, unusually severe weather, fires, earthquakes, floods, epidemics, quarantine restrictions, riots, strikes, freight embargoes, wars, litigation, and/or acts of any governmental agency, including the City, if the Consultant shall within ten (10) days of the commencement of such delay notify the Contract Officer in writing of the causes of the delay. The Contract Officer shall ascertain the facts and the extent of delay, and extend the time for performing the services for the period of the enforced delay when and if in the judgment of the Contract Officer such delay is justified. The Contract Officer's determination shall be final and conclusive upon the parties to this Agreement. In no event shall Consultant be entitled to recover damages against the City for any delay in the performance of this Agreement, however caused, Consultant's sole remedy being extension of the Agreement pursuant to this Section.

3.4 Term.

Unless earlier terminated in accordance with Article 7 of this Agreement, this Agreement shall continue in full force and effect until completion of the services but not exceeding five (5) years from the date hereof, except as otherwise provided in the Schedule of Performance (Exhibit "D").

ARTICLE 4. COORDINATION OF WORK

4.1 Representatives and Personnel of Consultant.

The following principals of Consultant ("Principals") are hereby designated as being the principals and representatives of Consultant authorized to act in its behalf with respect to the work specified herein and make all decisions in connection therewith:

_____

(Name) (Title)

(Name)	(Title)
(Name)	(Title)

It is expressly understood that the experience, knowledge, capability and reputation of the foregoing principals were a substantial inducement for City to enter into this Agreement. Therefore, the foregoing principals shall be responsible during the term of this Agreement for directing all activities of Consultant and devoting sufficient time to personally supervise the services hereunder. All personnel of Consultant, and any authorized agents, shall at all times be under the exclusive direction and control of the Principals. For purposes of this Agreement, the foregoing Principals may not be replaced nor may their responsibilities be substantially reduced by Consultant without the express written approval of City. Additionally, Consultant shall utilize only competent personnel to perform services pursuant to this Agreement. Consultant shall make every reasonable effort to maintain the stability and continuity of Consultant's staff and subcontractors, if any, assigned to perform the services required under this Agreement. Consultant shall notify City of any changes in Consultant's staff and subcontractors, if any, assigned to perform the services required under this Agreement, prior to and during any such performance.

4.2 Status of Consultant.

Consultant shall have no authority to bind City in any manner, or to incur any obligation, debt or liability of any kind on behalf of or against City, whether by contract or otherwise, unless such authority is expressly conferred under this Agreement or is otherwise expressly conferred in writing by City. Consultant shall not at any time or in any manner represent that Consultant or any of Consultant's officers, employees, or agents are in any manner officials, officers, employees or agents of City. Neither Consultant, nor any of Consultant's officers, employees or agents, shall obtain any rights to retirement, health care or any other benefits which may otherwise accrue to City's employees. Consultant expressly waives any claim Consultant may have to any such rights.

4.3 Contract Officer.

The Contract Officer shall be _____, or as otherwise designated by the City Manager. It shall be the Consultant's responsibility to assure that the Contract Officer is kept informed of the progress of the performance of the services and the Consultant shall refer any decisions which must be made by City to the Contract Officer. Unless otherwise specified herein, any approval of City required hereunder shall mean the approval of the Contract Officer. The Contract Officer shall have authority, if specified in writing by the City Manager, to sign all documents on behalf of the City required hereunder to carry out the terms of this Agreement.

4.4 Independent Consultant.

Neither the City nor any of its employees shall have any control over the manner, mode or means by which Consultant, its agents or employees, perform the services required herein, except as otherwise set forth herein. City shall have no voice in the selection, discharge, supervision or control of Consultant's employees, servants, representatives or agents, or in fixing their number,

compensation or hours of service. Consultant shall perform all services required herein as an independent contractor of City and shall remain at all times as to City a wholly independent contractor with only such obligations as are consistent with that role. Consultant shall not at any time or in any manner represent that it or any of its agents or employees are agents or employees of City. City shall not in any way or for any purpose become or be deemed to be a partner of Consultant in its business or otherwise or a joint venturer or a member of any joint enterprise with Consultant.

4.5 Prohibition Against Subcontracting or Assignment.

The experience, knowledge, capability and reputation of Consultant, its principals and employees were a substantial inducement for the City to enter into this Agreement. Therefore, Consultant shall not contract with any other entity to perform in whole or in part the services required hereunder without the express written approval of the City. In addition, neither this Agreement nor any interest herein may be transferred, assigned, conveyed, hypothecated or encumbered voluntarily or by operation of law, whether for the benefit of creditors or otherwise, without the prior written approval of City. Transfers restricted hereunder shall include the transfer to any person or group of persons acting in concert of more than twenty five percent (25%) of the present ownership and/or control of Consultant, taking all transfers into account on a cumulative basis. In the event of any such unapproved transfer, including any bankruptcy proceeding, this Agreement shall be void. No approved transfer shall release the Consultant or any surety of Consultant of any liability hereunder without the express consent of City.

ARTICLE 5. INSURANCE AND INDEMNIFICATION

5.1 Insurance Coverages.

The Consultant shall procure and maintain, at its sole cost and expense, in a form and content satisfactory to City, during the entire term of this Agreement including any extension thereof, the following policies of insurance which shall cover all elected and appointed officers, employees and agents of City:

(a) General Liability Insurance (Coverage Form ISO CGL CG 00 01 or equivalent). A policy of comprehensive general liability insurance written on a per occurrence basis for bodily injury, personal injury and property damage. The policy of insurance shall be in an amount not less than $1,000,000.00 per occurrence or if a general aggregate limit is used, then the general aggregate limit shall be twice the occurrence limit.

(b) Worker's Compensation Insurance. A policy of worker's compensation insurance in such amount as will fully comply with the laws of the State of California and which shall indemnify, insure and provide legal defense for the Consultant against any loss, claim or damage arising from any injuries or occupational diseases occurring to any worker employed by or any persons retained by the Consultant in the course of carrying out the work or services contemplated in this Agreement, with Employer's Liability insurance coverage limits of at least $1,000,000.00.

(c) Automotive Insurance (Coverage Form ISO CA 00 01 including "any auto" and endorsement CA 0025 or equivalent). A policy of comprehensive automobile liability

insurance written on a per occurrence for bodily injury and property damage in an amount not less than $1,000,000. Said policy shall include coverage for owned, non-owned, leased, hired cars and any automobile.

(d) Professional Liability. Professional liability insurance appropriate to the Consultant's profession, as determined by the City's Risk Manager, provided that the limits shall be no less than $1,000,000 per claim and no less than $1,000,000 general aggregate. This coverage may be written on a "claims made" basis, and must include coverage for contractual liability. The professional liability insurance required by this Agreement must be endorsed to be applicable to claims based upon, arising out of or related to services performed under this Agreement. The insurance must be maintained for at least 5 consecutive years following the completion of Consultant's services or the termination of this Agreement. During this additional 5-year period, Consultant shall annually and upon request of the City submit written evidence of this continuous coverage.

(e) Subcontractors. Consultant shall include all subcontractors as insureds under its policies or shall furnish separate certificates and certified endorsements for each subcontractor. All coverages for subcontractors shall include all of the requirements stated herein.

(f) Additional Insurance. Policies of such other insurance, as may be required in the Special Requirements in Exhibit "B".

(g) Broader Coverages and Higher Limits. Notwithstanding anything else herein to the contrary, if Consultant maintains broader coverages and/or higher limits than the minimums shown above, the City requires and shall be entitled to the broader coverages and/or higher limits maintained by Consultant.

5.2 General Insurance Requirements.

All of the above policies of insurance shall be primary insurance and shall name the City, its elected and appointed officers, employees and agents as additional insureds and any insurance maintained by City or its officers, employees or agents may apply in excess of, and not contribute with Consultant's insurance. The insurer is deemed hereof to waive all rights of subrogation and contribution it may have against the City, its officers, employees and agents and their respective insurers. Moreover, the insurance policy must specify that where the primary insured does not satisfy the self-insured retention, any additional insured may satisfy the self-insured retention.

All of said policies of insurance shall provide that said insurance may not be amended or cancelled by the insurer or any party hereto without providing thirty (30) days prior written notice by certified mail return receipt requested to the City. In the event any of said policies of insurance are cancelled, the Consultant shall, prior to the cancellation date, submit new evidence of insurance in conformance with Section 5.1 to the Contract Officer.

No work or services under this Agreement shall commence until the Consultant has provided the City with Certificates of Insurance, additional insured endorsement forms or appropriate insurance binders evidencing the above insurance coverages and said Certificates of Insurance or binders are approved by the City. City reserves the right to inspect complete, certified copies of and endorsements to all required insurance policies at any time. Any failure to comply

with the reporting or other provisions of the policies including breaches or warranties shall not affect coverage provided to City.

All certificates shall name the City as additional insured (providing the appropriate endorsement) and shall conform to the following "cancellation" notice:

> CANCELLATION:
>
> SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATED THEREOF, THE ISSUING COMPANY SHALL MAIL THIRTY (30)-DAY ADVANCE WRITTEN NOTICE TO CERTIFICATE HOLDER NAMED HEREIN.
>
> [to be initialed] _____
> Consultant Initials

City, its respective elected and appointed officers, directors, officials, employees, agents and volunteers are to be covered as additional insureds as respects: liability arising out of activities Consultant performs; products and completed operations of Consultant; premises owned, occupied or used by Consultant; or any automobiles owned, leased, hired or borrowed by Consultant. The coverage shall contain no special limitations on the scope of protection afforded to City, and their respective elected and appointed officers, officials, employees or volunteers. Consultant's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.

Any deductibles or self-insured retentions must be declared to and approved by City. At the option of City, either the insurer shall reduce or eliminate such deductibles or self-insured retentions as respects City or its respective elected or appointed officers, officials, employees and volunteers or the Consultant shall procure a bond guaranteeing payment of losses and related investigations, claim administration, defense expenses and claims. The Consultant agrees that the requirement to provide insurance shall not be construed as limiting in any way the extent to which the Consultant may be held responsible for the payment of damages to any persons or property resulting from the Consultant's activities or the activities of any person or persons for which the Consultant is otherwise responsible nor shall it limit the Consultant's indemnification liabilities as provided in Section 5.3.

In the event the Consultant subcontracts any portion of the work in compliance with Section 4.5 of this Agreement, the contract between the Consultant and such subcontractor shall require the subcontractor to maintain the same policies of insurance that the Consultant is required to maintain pursuant to Section 5.1, and such certificates and endorsements shall be provided to City.

5.3 Indemnification.

To the full extent permitted by law, Consultant agrees to indemnify, defend and hold harmless the City, its officers, employees and agents ("Indemnified Parties") against, and will hold and save them and each of them harmless from, any and all actions, either judicial, administrative,

arbitration or regulatory claims, damages to persons or property, losses, costs, penalties, obligations, errors, omissions or liabilities whether actual or threatened (herein "claims or liabilities") that may be asserted or claimed by any person, firm or entity arising out of or in connection with the negligent performance of the work, operations or activities provided herein of Consultant, its officers, employees, agents, subcontractors, or invitees, or any individual or entity for which Consultant is legally liable ("indemnitors"), or arising from Consultant's or indemnitors' reckless or willful misconduct, or arising from Consultant's or indemnitors' negligent performance of or failure to perform any term, provision, covenant or condition of this Agreement, and in connection therewith:

(a) Consultant will defend any action or actions filed in connection with any of said claims or liabilities and will pay all costs and expenses, including legal costs and attorneys' fees incurred in connection therewith;

(b) Consultant will promptly pay any judgment rendered against the City, its officers, agents or employees for any such claims or liabilities arising out of or in connection with the negligent performance of or failure to perform such work, operations or activities of Consultant hereunder; and Consultant agrees to save and hold the City, its officers, agents, and employees harmless therefrom;

(c) In the event the City, its officers, agents or employees is made a party to any action or proceeding filed or prosecuted against Consultant for such damages or other claims arising out of or in connection with the negligent performance of or failure to perform the work, operation or activities of Consultant hereunder, Consultant agrees to pay to the City, its officers, agents or employees, any and all costs and expenses incurred by the City, its officers, agents or employees in such action or proceeding, including but not limited to, legal costs and attorneys' fees.

Consultant shall incorporate similar indemnity agreements with its subcontractors and if it fails to do so Consultant shall be fully responsible to indemnify City hereunder therefore, and failure of City to monitor compliance with these provisions shall not be a waiver hereof. This indemnification includes claims or liabilities arising from any negligent or wrongful act, error or omission, or reckless or willful misconduct of Consultant in the performance of professional services hereunder. The provisions of this Section do not apply to claims or liabilities occurring as a result of City's sole negligence or willful acts or omissions, but, to the fullest extent permitted by law, shall apply to claims and liabilities resulting in part from City's negligence, except that design professionals' indemnity hereunder shall be limited to claims and liabilities arising out of the negligence, recklessness or willful misconduct of the design professional. The indemnity obligation shall be binding on successors and assigns of Consultant and shall survive termination of this Agreement.

5.4 Sufficiency of Insurer.

Insurance required by this Agreement shall be satisfactory only if issued by companies qualified to do business in California, rated "A-" or better in the most recent edition of Best Rating Guide, The Key Rating Guide or in the Federal Register, and only if they are of a financial category Class VII or better, unless such requirements are waived by the Risk Manager of the City ("Risk

Manager") due to unique circumstances. If this Agreement continues for more than 3 years duration, or in the event the risk manager determines that the work or services to be performed under this Agreement creates an increased or decreased risk of loss to the City, the Consultant agrees that the minimum limits of the insurance policies may be changed accordingly upon receipt of written notice from the Risk Manager.

ARTICLE 6. RECORDS, REPORTS, AND RELEASE OF INFORMATION

6.1 Records.

Consultant shall keep, and require subcontractors to keep, such ledgers, books of accounts, invoices, vouchers, canceled checks, reports, studies or other documents relating to the disbursements charged to City and services performed hereunder (the "books and records"), as shall be necessary to perform the services required by this Agreement and enable the Contract Officer to evaluate the performance of such services. Any and all such documents shall be maintained in accordance with generally accepted accounting principles and shall be complete and detailed. The Contract Officer shall have full and free access to such books and records at all times during normal business hours of City, including the right to inspect, copy, audit and make records and transcripts from such records. Such records shall be maintained for a period of three (3) years following completion of the services hereunder, and the City shall have access to such records in the event any audit is required. In the event of dissolution of Consultant's business, custody of the books and records may be given to City, and access shall be provided by Consultant's successor in interest. Notwithstanding the above, the Consultant shall fully cooperate with the City in providing access to the books and records if a public records request is made and disclosure is required by law including but not limited to the California Public Records Act.

6.2 Reports.

Consultant shall periodically prepare and submit to the Contract Officer such reports concerning the performance of the services required by this Agreement as the Contract Officer shall require. Consultant hereby acknowledges that the City is greatly concerned about the cost of work and services to be performed pursuant to this Agreement. For this reason, Consultant agrees that if Consultant becomes aware of any facts, circumstances, techniques, or events that may or will materially increase or decrease the cost of the work or services contemplated herein or, if Consultant is providing design services, the cost of the project being designed, Consultant shall promptly notify the Contract Officer of said fact, circumstance, technique or event and the estimated increased or decreased cost related thereto and, if Consultant is providing design services, the estimated increased or decreased cost estimate for the project being designed.

6.3 Ownership of Documents.

All drawings, specifications, maps, designs, photographs, studies, surveys, data, notes, computer files, reports, records, documents and other materials (the "documents and materials") prepared by Consultant, its employees, subcontractors and agents in the performance of this Agreement shall be the property of City and shall be delivered to City upon request of the Contract Officer or upon the termination of this Agreement, and Consultant shall have no claim for further employment or additional compensation as a result of the exercise by City of its full rights of

ownership use, reuse, or assignment of the documents and materials hereunder. Any use, reuse or assignment of such completed documents for other projects and/or use of uncompleted documents without specific written authorization by the Consultant will be at the City's sole risk and without liability to Consultant, and Consultant's guarantee and warranties shall not extend to such use, reuse or assignment. Consultant may retain copies of such documents for its own use. Consultant shall have the right to use the concepts embodied therein. All subcontractors shall provide for assignment to City of any documents or materials prepared by them, and in the event Consultant fails to secure such assignment, Consultant shall indemnify City for all damages resulting therefrom. Moreover, with respect to any documents and materials that may qualify as "works made for hire" as defined in 17 U.S.C. § 101, such documents and materials are hereby deemed "works made for hire" for the City.

6.4 Confidentiality and Release of Information.

(a) All information gained or work product produced by Consultant in performance of this Agreement shall be considered confidential, unless such information is in the public domain or already known to Consultant. Consultant shall not release or disclose any such information or work product to persons or entities other than City without prior written authorization from the Contract Officer.

(b) Consultant, its officers, employees, agents or subcontractors, shall not, without prior written authorization from the Contract Officer or unless requested by the City Attorney, voluntarily provide documents, declarations, letters of support, testimony at depositions, response to interrogatories or other information concerning the work performed under this Agreement. Response to a subpoena or court order shall not be considered "voluntary" provided Consultant gives City notice of such court order or subpoena.

(c) If Consultant, or any officer, employee, agent or subcontractor of Consultant, provides any information or work product in violation of this Agreement, then City shall have the right to reimbursement and indemnity from Consultant for any damages, costs and fees, including attorneys fees, caused by or incurred as a result of Consultant's conduct.

(d) Consultant shall promptly notify City should Consultant, its officers, employees, agents or subcontractors be served with any summons, complaint, subpoena, notice of deposition, request for documents, interrogatories, request for admissions or other discovery request, court order or subpoena from any party regarding this Agreement and the work performed there under. City retains the right, but has no obligation, to represent Consultant or be present at any deposition, hearing or similar proceeding. Consultant agrees to cooperate fully with City and to provide City with the opportunity to review any response to discovery requests provided by Consultant. However, this right to review any such response does not imply or mean the right by City to control, direct, or rewrite said response.

ARTICLE 7. ENFORCEMENT OF AGREEMENT AND TERMINATION

7.1 California Law.

This Agreement shall be interpreted, construed and governed both as to validity and to performance of the parties in accordance with the laws of the State of California. Legal actions

concerning any dispute, claim or matter arising out of or in relation to this Agreement shall be instituted in the Superior Court of the County of Los Angeles, State of California, or any other appropriate court in such county, and Consultant covenants and agrees to submit to the personal jurisdiction of such court in the event of such action. In the event of litigation in a U.S. District Court, venue shall lie exclusively in the Central District of California, in the County of Los Angeles, State of California.

7.2 Disputes; Default.

In the event that Consultant is in default under the terms of this Agreement, the City shall not have any obligation or duty to continue compensating Consultant for any work performed after the date of default. Instead, the City may give notice to Consultant of the default and the reasons for the default. The notice shall include the timeframe in which Consultant may cure the default. This timeframe is presumptively thirty (30) days, but may be extended, though not reduced, if circumstances warrant. During the period of time that Consultant is in default, the City shall hold all invoices and shall, when the default is cured, proceed with payment on the invoices. In the alternative, the City may, in its sole discretion, elect to pay some or all of the outstanding invoices during the period of default. If Consultant does not cure the default, the City may take necessary steps to terminate this Agreement under this Article. Any failure on the part of the City to give notice of the Consultant's default shall not be deemed to result in a waiver of the City's legal rights or any rights arising out of any provision of this Agreement.

7.3 Retention of Funds.

Consultant hereby authorizes City to deduct from any amount payable to Consultant (whether or not arising out of this Agreement) (i) any amounts the payment of which may be in dispute hereunder or which are necessary to compensate City for any losses, costs, liabilities, or damages suffered by City, and (ii) all amounts for which City may be liable to third parties, by reason of Consultant's acts or omissions in performing or failing to perform Consultant's obligation under this Agreement. In the event that any claim is made by a third party, the amount or validity of which is disputed by Consultant, or any indebtedness shall exist which shall appear to be the basis for a claim of lien, City may withhold from any payment due, without liability for interest because of such withholding, an amount sufficient to cover such claim. The failure of City to exercise such right to deduct or to withhold shall not, however, affect the obligations of the Consultant to insure, indemnify, and protect City as elsewhere provided herein.

7.4 Waiver.

Waiver by any party to this Agreement of any term, condition, or covenant of this Agreement shall not constitute a waiver of any other term, condition, or covenant. Waiver by any party of any breach of the provisions of this Agreement shall not constitute a waiver of any other provision or a waiver of any subsequent breach or violation of any provision of this Agreement. Acceptance by City of any work or services by Consultant shall not constitute a waiver of any of the provisions of this Agreement. No delay or omission in the exercise of any right or remedy by a non-defaulting party on any default shall impair such right or remedy or be construed as a waiver. Any waiver by either party of any default must be in writing and shall not be a waiver of any other default concerning the same or any other provision of this Agreement.

7.5 Rights and Remedies are Cumulative.

Except with respect to rights and remedies expressly declared to be exclusive in this Agreement, the rights and remedies of the parties are cumulative and the exercise by either party of one or more of such rights or remedies shall not preclude the exercise by it, at the same or different times, of any other rights or remedies for the same default or any other default by the other party.

7.6 Legal Action.

In addition to any other rights or remedies, either party may take legal action, in law or in equity, to cure, correct or remedy any default, to recover damages for any default, to compel specific performance of this Agreement, to obtain declaratory or injunctive relief, or to obtain any other remedy consistent with the purposes of this Agreement. Notwithstanding any contrary provision herein, Consultant shall file a statutory claim pursuant to Government Code Sections 905 et. seq. and 910 et. seq., in order to pursue a legal action under this Agreement.

7.7 Termination Prior to Expiration of Term.

This Section shall govern any termination of this Agreement except as specifically provided in the following Section for termination for cause. The City reserves the right to terminate this Agreement at any time, with or without cause, upon thirty (30) days' written notice to Consultant, except that where termination is due to the fault of the Consultant, the period of notice may be such shorter time as may be determined by the Contract Officer. In addition, Consultant may terminate this Agreement if and only if all of the following criteria are met: (i) City is in default under the terms of this Agreement; (ii) Consultant has given City thirty (30) days' written notice (or longer, if circumstances warrant) of the default and the reasons for the default; and (iii) City has failed to cure the default within said cure period. Upon receipt of any notice of termination, Consultant shall immediately cease all services hereunder except such as may be specifically approved by the Contract Officer. Except where the Consultant has initiated termination, the Consultant shall be entitled to compensation for all services rendered prior to the effective date of the notice of termination and for any services authorized by the Contract Officer thereafter in accordance with the Schedule of Compensation or such as may be approved by the Contract Officer, except as provided in Section 7.3. In the event the Consultant has initiated termination, the Consultant shall be entitled to compensation only for the reasonable value of the work product actually produced hereunder. In the event of City's termination without cause pursuant to this Section, the City need not provide the Consultant with the opportunity to cure pursuant to Section 7.2.

7.8 Termination for Default of Consultant.

If termination is due to the failure of the Consultant to fulfill its obligations under this Agreement, City may, after compliance with the provisions of Section 7.2, take over the work and prosecute the same to completion by contract or otherwise, and the Consultant shall be liable to the extent that the total cost for completion of the services required hereunder exceeds the compensation herein stipulated (provided that the City shall use reasonable efforts to mitigate such

damages), and City may withhold any payments to the Consultant for the purpose of set-off or partial payment of the amounts owed the City as previously stated.

7.9 Attorneys' Fees.

If either party to this Agreement is required to initiate or defend or made a party to any action or proceeding in any way connected with this Agreement, the prevailing party in such action or proceeding, in addition to any other relief which may be granted, whether legal or equitable, shall be entitled to reasonable attorney's fees. Attorney's fees shall include attorney's fees on any appeal, and in addition a party entitled to attorney's fees shall be entitled to all other reasonable costs for investigating such action, taking depositions and discovery and all other necessary costs the court allows which are incurred in such litigation. All such fees shall be deemed to have accrued on commencement of such action and shall be enforceable whether or not such action is prosecuted to judgment.

ARTICLE 8. CITY OFFICERS AND EMPLOYEES: NON-DISCRIMINATION

8.1 Non-liability of City Officers and Employees.

No officer or employee of the City shall be personally liable to the Consultant, or any successor in interest, in the event of any default or breach by the City or for any amount which may become due to the Consultant or to its successor, or for breach of any obligation of the terms of this Agreement.

8.2 Conflict of Interest.

Consultant covenants that neither it, nor any officer or principal of its firm, has or shall acquire any interest, directly or indirectly, which would conflict in any manner with the interests of City or which would in any way hinder Consultant's performance of services under this Agreement. Consultant further covenants that in the performance of this Agreement, no person having any such interest shall be employed by it as an officer, employee, agent or subcontractor without the express written consent of the Contract Officer. Consultant agrees to at all times avoid conflicts of interest or the appearance of any conflicts of interest with the interests of City in the performance of this Agreement.

No officer or employee of the City shall have any financial interest, direct or indirect, in this Agreement nor shall any such officer or employee participate in any decision relating to the Agreement which affects her/his financial interest or the financial interest of any corporation, partnership or association in which (s)he is, directly or indirectly, interested, in violation of any State statute or regulation. The Consultant warrants that it has not paid or given and will not pay or give any third party any money or other consideration for obtaining this Agreement.

8.3 Covenant Against Discrimination.

Consultant covenants that, by and for itself, its heirs, executors, assigns, and all persons claiming under or through them, that there shall be no discrimination against or segregation of, any person or group of persons on account of race, color, creed, religion, sex, gender, sexual orientation, marital status, national origin, ancestry or other protected class in the performance of

this Agreement. Consultant shall take affirmative action to insure that applicants are employed and that employees are treated during employment without regard to their race, color, creed, religion, sex, gender, sexual orientation, marital status, national origin, ancestry or other protected class.

8.4 Unauthorized Aliens.

Consultant hereby promises and agrees to comply with all of the provisions of the Federal Immigration and Nationality Act, 8 U.S.C.A. §§ 1101, *et seq.*, as amended, and in connection therewith, shall not employ unauthorized aliens as defined therein. Should Consultant so employ such unauthorized aliens for the performance of work and/or services covered by this Agreement, and should any liability or sanctions be imposed against City for such use of unauthorized aliens, Consultant hereby agrees to and shall reimburse City for the cost of all such liabilities or sanctions imposed, together with any and all costs, including attorneys' fees, incurred by City.

ARTICLE 9. MISCELLANEOUS PROVISIONS

9.1 Notices.

Any notice, demand, request, document, consent, approval, or communication either party desires or is required to give to the other party or any other person shall be in writing and either served personally or sent by prepaid, first-class mail, in the case of the City, to the City Manager and to the attention of the Contract Officer (with her/his name and City title), City of Carson, 701 East Carson, Carson, California 90745 and in the case of the Consultant, to the person(s) at the address designated on the execution page of this Agreement. Either party may change its address by notifying the other party of the change of address in writing. Notice shall be deemed communicated at the time personally delivered or in seventy-two (72) hours from the time of mailing if mailed as provided in this Section.

9.2 Interpretation.

The terms of this Agreement shall be construed in accordance with the meaning of the language used and shall not be construed for or against either party by reason of the authorship of this Agreement or any other rule of construction which might otherwise apply.

9.3 Counterparts.

This Agreement may be executed in any number of counterparts and each of such counterparts shall for all purposes be deemed to be an original, whether the signatures are originals, electronic, facsimiles or digital. All such counterparts shall together constitute but one and the same Agreement.

9.4 Integration; Amendment.

This Agreement including the attachments hereto is the entire, complete and exclusive expression of the understanding of the parties. It is understood that there are no oral agreements between the parties hereto affecting this Agreement and this Agreement supersedes and cancels any and all previous negotiations, arrangements, agreements and understandings, if any, between the parties, and none shall be used to interpret this Agreement. No amendment to or modification

of this Agreement shall be valid unless made in writing and approved by the Consultant and by the City Council. The parties agree that this requirement for written modifications cannot be waived and that any attempted waiver shall be void.

9.5 Severability.

In the event that any one or more of the phrases, sentences, clauses, paragraphs, or sections contained in this Agreement shall be declared invalid or unenforceable by a valid judgment or decree of a court of competent jurisdiction, such invalidity or unenforceability shall not affect any of the remaining phrases, sentences, clauses, paragraphs, or sections of this Agreement which are hereby declared as severable and shall be interpreted to carry out the intent of the parties hereunder unless the invalid provision is so material that its invalidity deprives either party of the basic benefit of their bargain or renders this Agreement meaningless.

9.6 Warranty & Representation of Non-Collusion.

No official, officer, or employee of City has any financial interest, direct or indirect, in this Agreement, nor shall any official, officer, or employee of City participate in any decision relating to this Agreement which may affect his/her financial interest or the financial interest of any corporation, partnership, or association in which (s)he is directly or indirectly interested, or in violation of any corporation, partnership, or association in which (s)he is directly or indirectly interested, or in violation of any State or municipal statute or regulation. The determination of "financial interest" shall be consistent with State law and shall not include interests found to be "remote" or "non-interests" pursuant to Government Code Sections 1091 or 1091.5. Consultant warrants and represents that it has not paid or given, and will not pay or give, to any third party including, but not limited to, any City official, officer, or employee, any money, consideration, or other thing of value as a result or consequence of obtaining or being awarded any agreement. Consultant further warrants and represents that (s)he/it has not engaged in any act(s), omission(s), or other conduct or collusion that would result in the payment of any money, consideration, or other thing of value to any third party including, but not limited to, any City official, officer, or employee, as a result of consequence of obtaining or being awarded any agreement. Consultant is aware of and understands that any such act(s), omission(s) or other conduct resulting in such payment of money, consideration, or other thing of value will render this Agreement void and of no force or effect.

Consultant's Authorized Initials _____

9.7 Corporate Authority.

The persons executing this Agreement on behalf of the parties hereto warrant that (i) such party is duly organized and existing, (ii) they are duly authorized to execute and deliver this Agreement on behalf of said party, (iii) by so executing this Agreement, such party is formally bound to the provisions of this Agreement, and (iv) the entering into this Agreement does not violate any provision of any other Agreement to which said party is bound. This Agreement shall be binding upon the heirs, executors, administrators, successors and assigns of the parties.

[SIGNATURES ON FOLLOWING PAGE]

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the date and year first-above written.

CITY:

CITY OF CARSON, a municipal corporation

_____
Lula Davis-Holmes, Mayor

ATTEST:

_____
Dr. Khaleah K. Bradshaw, City Clerk

APPROVED AS TO FORM:
ALESHIRE & WYNDER, LLP

_____
Sunny K. Soltani, City Attorney

CONSULTANT:

_____

By:_____
Name:
Title:

By:_____
Name:
Title:
Address:_____
_____
_____

Two corporate officer signatures required when Consultant is a corporation, with one signature required from each of the following groups: 1) Chairman of the Board, President or any Vice President; and 2) Secretary, any Assistant Secretary, Chief Financial Officer or any Assistant Treasurer. CONSULTANT'S SIGNATURES SHALL BE DULY NOTARIZED, AND APPROPRIATE ATTESTATIONS SHALL BE INCLUDED AS MAY BE REQUIRED BY THE BYLAWS, ARTICLES OF INCORPORATION, OR OTHER RULES OR REGULATIONS APPLICABLE TO CONSULTANT'S BUSINESS ENTITY.

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy or validity of that document.

STATE OF CALIFORNIA

COUNTY OF LOS ANGELES

On _____, 2026 before me, _____, personally appeared _____, proved to me on the basis of satisfactory evidence to be the person(s) whose names(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: _____

OPTIONAL

Though the data below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent reattachment of this form.

CAPACITY CLAIMED BY SIGNER

- ☐ INDIVIDUAL
- ☐ CORPORATE OFFICER

_____
TITLE(S)

- ☐ PARTNER(S) ☐ LIMITED ☐ GENERAL
- ☐ ATTORNEY-IN-FACT
- ☐ TRUSTEE(S)
- ☐ GUARDIAN/CONSERVATOR
- ☐ OTHER_____

_____

SIGNER IS REPRESENTING:
(NAME OF PERSON(S) OR ENTITY(IES))

_____

_____

DESCRIPTION OF ATTACHED DOCUMENT

_____
TITLE OR TYPE OF DOCUMENT

_____
NUMBER OF PAGES

_____
DATE OF DOCUMENT

_____
SIGNER(S) OTHER THAN NAMED ABOVE

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy or validity of that document.

STATE OF CALIFORNIA

COUNTY OF LOS ANGELES

On _____, 2026 before me, _____, personally appeared _____, proved to me on the basis of satisfactory evidence to be the person(s) whose names(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: _____

OPTIONAL

Though the data below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent reattachment of this form.

CAPACITY CLAIMED BY SIGNER

- ☐ INDIVIDUAL
- ☐ CORPORATE OFFICER

_____
TITLE(S)

- ☐ PARTNER(S) ☐ LIMITED ☐ GENERAL
- ☐ ATTORNEY-IN-FACT
- ☐ TRUSTEE(S)
- ☐ GUARDIAN/CONSERVATOR
- ☐ OTHER_____

_____

SIGNER IS REPRESENTING:
(NAME OF PERSON(S) OR ENTITY(IES))

_____

_____

DESCRIPTION OF ATTACHED DOCUMENT

_____
TITLE OR TYPE OF DOCUMENT

_____
NUMBER OF PAGES

_____
DATE OF DOCUMENT

_____
SIGNER(S) OTHER THAN NAMED ABOVE

EXHIBIT "A"
SCOPE OF SERVICES

I. Consultant will perform the following Services:

A.

B.

C.

II. As part of the Services, Consultant will prepare and deliver the following tangible work products to the City:

A.

B.

C.

III. In addition to the requirements of Section 6.2, during performance of the Services, Consultant will keep the City appraised of the status of performance by delivering the following status reports:

A.

B.

C.

IV. All work product is subject to review and acceptance by the City, and must be revised by the Consultant without additional charge to the City until found satisfactory and accepted by City.

V. Consultant will utilize the following personnel to accomplish the Services:

A.

B.

C.

EXHIBIT "B"
SPECIAL REQUIREMENTS
(Superseding Contract Boilerplate)

EXHIBIT "C"
SCHEDULE OF COMPENSATION

I. Consultant shall perform the following tasks at the following rates:

	RATE	TIME	SUB-BUDGET
A.	_____	_____	_____
B.	_____	_____	_____
C.	_____	_____	_____
D.	_____	_____	_____

II. Within the budgeted amounts for each Task, and with the approval of the Contract Officer, funds may be shifted from one Task sub-budget to another so long as the Contract Sum is not exceeded per Section 2.1, unless Additional Services are approved per Section 1.8.

III. The City will compensate Consultant for the Services performed upon submission of a valid invoice. Each invoice is to include:

A. Line items for all personnel describing the work performed, the number of hours worked, and the hourly rate.

B. Line items for all materials and equipment properly charged to the Services.

C. Line items for all other approved reimbursable expenses claimed, with supporting documentation.

D. Line items for all approved subcontractor labor, supplies, equipment, materials, and travel properly charged to the Services.

IV. The total compensation for the Services shall not exceed $_____ as provided in Section 2.1 of this Agreement.

V. The Consultant's billing rates for all personnel are attached as Exhibit C-1.

EXHIBIT "D"
SCHEDULE OF PERFORMANCE

I. Consultant shall perform all services timely in accordance with the following schedule:

		Days to Perform	Deadline Date
A.	**Task A**	_____	_____
B.	**Task B**	_____	_____
C.	**Task C**	_____	_____

II. Consultant shall deliver the following tangible work products to the City by the following dates.

A.

B.

C.

III. The Contract Officer may approve extensions for performance of the services in accordance with Section 3.2.

Purchasing Division
701 E. Carson Street
Carson, CA 90745

EXHIBIT C

COST FILE

Exhibit C contains the City's required Cost File template. Proposers must complete and submit this form in full; failure to do so may result in disqualification.

COST FILE
RFP 26-008
PROFESSIONAL ON-CALL OFFICIATING SERVICES FOR
ADULT & YOUTH SPORTS PROGRAMS

A. Cost proposals submitted should be all inclusive of services provided and shall include assignor fees, site checks, and official payments. Proposers shall complete cost proposal for all sports for which services are proposed. Rates provided shall be per official, per game; hourly rates will not be accepted. Proposers may provide two different rates for games requiring two officials where appropriate (e.g., baseball plate umpire rate and base umpire rate)

YOUTH SPORTS				
	Sport	**Rate per Official per Game**	**Officials per Game**	**Approx # of Total Games**
A.	**Youth Baseball/Softball**			**790**
	1A Division (Ages 9-10) – length of game approximately 1 hour 30 minutes		1	
	2A Division (Ages 11-12) – length of game approximately 1 hour 45 minutes		1	
	3A Division Baseball (Ages 13-14) – length of game approximately 2 hours		2 Plate/Base	
	4A Division Baseball (Ages 15-17) – length of game approximately 2 hours		2	
	3A Division Softball (Ages 13-15) – length of game approximately 2 hours		1	
B.	**Youth Flag Football**			**175**
	1A Division (Ages 9-10) – length of game approximately 1 hour		2	
	2A Division (Ages 11-12) – length of game approximately 1 hour		2	
	3A Division (Ages 13-14) – length of game approximately 1 hour		2	
	Rookie Division (Ages 7-8) – length of game approximately 1 hour		2	
	Sandlot Division (Ages 5-6) – length of game approximately 1 hour		2	
C.	**Youth Soccer**			**400**

	1A Division (Ages 9-10) – length of game approximately 1 hour		1	
	2A Division (Ages 11-12) – length of game approximately 1 hour		1	
	3A Division (Boys Ages 13-14) – length of game approximately 1 hour		1	
	3A Division (Girls Ages 13-15) – length of game approximately 1 hour		1	
	Rookie Division (Ages 7-8) – length of game approximately 1 hour		1	
D.	**Youth Basketball**			**600**
	1A Division (Ages 9-10) – length of game approximately 1 hour		2	
	2A Division (Ages 11-12) – length of game approximately 1 hour		2	
	3A Division (Boys Ages 13-14) – length of game approximately 1 hour		2	
	3A Division (Girls Ages 13-15) – length of game approximately 1 hour		2	
	4A Division (Boys Ages 15-17) – length of game approximately 1 hour		2	
	Rookie Division (Ages 7-8) – length of game approximately 45 minutes		2	
	Sandlot Division (Ages 5-6) – length of game approximately 45 minutes		1	

* If there is a discrepancy in the calculation, the rate will be based on the rate/official/game.

ADULT SPORTS

	Sport	Rate per Official per Game	Officials per Game	Approx # of Total Games
A.	**Adult Baseball**			**1100**
	Regular Season game – length of game approximately 2 hours 30 minutes		1	
	Playoff game approximately 3 hours		2	
B.	**Adult Softball**			**500**
	Coed and Men's Slowpitch Regular Season – length of game approximately 1 hour		1	
	Coed and Men's Slowpitch Playoff – length of game approximately 1 hour 10 minutes		2	
C.	**Adult Soccer**			**1400**
	Men's and Women's "11 on 11" Regular Season – length of game approximately		1	
	Men's and Women's "11 on 11" Playoffs – length of game approximately 1 hour		2	
	Men's and Women's "5 on 5" Regular Season – length of game approximately 1 hour		1	
	Men's and Women's "5 on 5" Playoffs – length of game approximately 1 hour		1	
D.	**Adult Basketball**			**600**
	Men's and Women's Regular Season – length of game approximately 1 hour		2	
	Men's and Women's Playoffs – length of game approximately 1 hour		2	

By signing below, I certify that I am an authorized representative of the company listed below

and that the prices provided herein are accurate and valid for a minimum of 90 days from the bid due date. I further acknowledge that all pricing submitted via this form and entered in the PlanetBids system is complete and binding, and that I have read and understood all requirements of this RFP.

Company Name: _____

Authorized Representative (Print): _____

Title: _____

Signature: _____

Date: _____

Phone: _____

Email: _____

CITY OF CARSON
BID REGISTER

NAME OF PROJECT: *RFP 25-008 – PROFESSIONAL ON-CALL OFFICIATING SERVICES FOR ADULT & YOUTH SPORTS PROGRAMS*

BID OPENING DATE: *02-12-26* **TIME:** *10:00 A.M.*

#	COMPANY	COMPANY CONTACT (If Applicable)	PLANET BID DATE/TIME RECEIVED	HARD COPY DATE/TIME RECEIVED		
1.	Sami's Referees, LLC	Navin Sami	2/12/26 1:47am	—		
2.						
3.						
4.						
5.						
6.						
7.						
8.						
9.						
10.						
11.						

Opened By: N/A (Print Legibly) SP (Initials)

Staff Present: Scott Griffee (Print Legibly) (Initials)

City Clerk: (Signature) Senior Clerk

PlanetBids Opened By: Anyar Lopez O. (Print Legibly) ALO (Initials)

To Whom It May Concern:

My name is Navin Sami. I am extremely passionate about the youth and adult sports referees in the city of Carson, California.

My passion was born as a child growing up in the great city of Carson playing soccer from age of three years old, which developed into me participating in four different sports throughout my childhood career.

Will Henderson, the trainer and senior sports official at the time, mentored me on the rules and standard procedures of refereeing the games efficiently.

Under the guidance of Will, I was able to have a successful twenty-three years as a proud referee.

In 2007, I became C-I-F certified.

In 2015, I started supplying referees for different tournaments throughout South Bay.

In 2017, I was privileged to become the referee coordinator for Redondo Beach Youth Basketball Organization.

Since then, I have been honored to supply them with referees, which include seventy-five games on a standard weekend.

In 2022, I created my business, "Sami's Referees," which is a supplies referees for adult and youth sports programs.

In 2022 I secured a contract with the City of Gardena for all youth sports programs, which we still provide services for

In 2023 I secured a contract with the City of Carson for all youth sports programs for 3 years, which we are currently finishing. I am hoping to secure this contract for the future.

Also, in 2023 I secured a contract the Boys & Girls club for Long Beach, San Pedro and the ports, which we still provide services for.

In 2025 I secured a contract with PVYBL, which we still provide services for.

Like I stated this is a passion of mine. Sports, especially with the youth, have been proven to be an effective tool in keeping them from falling into a cycle of violence, crime and drug use.

I want to continue to be a part of this solution and would be honored to be the on-call officiating services for adult and youth sports program for the city of Carson again.

SECTION 1 – YOUTH SPORTS OFFICIATING (5-YEAR MULTI-YEAR RATES)

(All rates are per official, per game.)

A. Youth Baseball / Softball

Division	Officials per Game	Year 1 Rate	Year 2 Rate	Year 3 Rate	Year 4 Rate	Year 5 Rate
1A Division (Ages 9–10) – approx. 1 hr 30 min	1	$75	$75	$75	$80	$80
2A Division (Ages 11–12) – approx. 1 hr 45 min	1	$80	$80	$80	$85	$85
3A Division Baseball (Ages 13–14) – approx. 2 hrs	2	$85	$85	$85	$85	$85
4A Division Baseball (Ages 15–17) – approx. 2 hrs	2	$85	$85	$85	$85	$85
3A Division Softball (Ages 13–15) – approx. 2 hrs	1	$90	$90	$90	$95	$95

B. Youth Flag Football

Division	Officials per Game	Year 1 Rate	Year 2 Rate	Year 3 Rate	Year 4 Rate	Year 5 Rate
1A Division (Ages 9–10) – approx. 1 hr	2	$70	$70	$70	$75	$75
2A Division (Ages 11–12) – approx. 1 hr	2	$70	$70	$70	$75	$75
3A Division (Ages 13–14) – approx. 1 hr	2	$70	$70	$70	$75	$75
Rookie Division (Ages 7–8) – approx. 1 hr	2	$65	$65	$65	$65	$65
Sandlot Division (Ages 5–6) – approx. 1 hr	2	$55	$55	$55	$55	$55

C. Youth Soccer

Division	Officials per Game	Year 1 Rate	Year 2 Rate	Year 3 Rate	Year 4 Rate	Year 5 Rate
1A Division (Ages 9–10) – approx. 1 hr	1	$75	$75	$75	$80	$80
2A Division (Ages 11–12) – approx. 1 hr	1	$75	$75	$75	$80	$80

Division	Officials per Game	Year 1 Rate	Year 2 Rate	Year 3 Rate	Year 4 Rate	Year 5 Rate
3A Division Boys (Ages 13–14) – approx. 1 hr	1	$75	$75	$75	$80	$80
3A Division Girls (Ages 13–15) – approx. 1 hr	1	$75	$75	$75	$80	$80
Rookie Division (Ages 7–8) – approx. 1 hr	1	$65	$65	$65	$65	$65

D. Youth Basketball

Division	Officials per Game	Year 1 Rate	Year 2 Rate	Year 3 Rate	Year 4 Rate	Year 5 Rate
1A Division (Ages 9–10) – approx. 1 hr	2	$70	$70	$70	$75	$75
2A Division (Ages 11–12) – approx. 1 hr	2	$70	$70	$70	$75	$75
3A Division Boys (Ages 13–14) – approx. 1 hr	2	$70	$70	$70	$75	$75
3A Division Girls (Ages 13–15) – approx. 1 hr	2	$70	$70	$70	$75	$75
4A Division Boys (Ages 15–17) – approx. 1 hr	2	$70	$70	$70	$75	$75
Rookie Division (Ages 7–8) – approx. 45 min	2	$60	$60	$60	$60	$60
Sandlot Division (Ages 5–6) – approx. 45 min	1	$50	$50	$50	$50	$50

YOUTH SPORTS ESTIMATED ANNUAL GAME VOLUMES (FOR REFERENCE ONLY)

Sport	Estimated Games per Year
Baseball / Softball	790
Flag Football	175
Soccer	400
Basketball	600

By signing below, I certify that I am an authorized representative of the company listed below and that the prices provided herein are accurate and valid for a minimum of 90 days from the bid due date. I further acknowledge that all pricing submitted via this form and entered in the PlanetBids system is complete and binding, and that I have read and understood all requirements of this RFP.

Company Name: SAMI'S REFEREES LLC

Authorized Representative (Print): NAVIN SAMI

Title: OWNER

Signature:

Date: 2/11/26

Phone: (310) 984-9959

Email: SAMISREFEREES@GMAIL.COM

CONTRACT SERVICES AGREEMENT

By and Between

CITY OF CARSON

and

SAMI'S REFEREES, LLC

AGREEMENT FOR CONTRACT SERVICES
BETWEEN THE CITY OF CARSON AND
SAMI'S REFEREES, LLC

THIS AGREEMENT FOR CONTRACT SERVICES (herein "Agreement") is made and entered into effective the 21st day of April, 2026, by and between the CITY OF CARSON, a California municipal corporation ("City") and SAMI'S REFEREES, LLC, a California limited liability company ("Consultant"). City and Consultant are sometimes hereinafter individually referred to as "Party" and hereinafter collectively referred to as the "Parties."

RECITALS

A. City has sought, by issuance of a Request for Proposals or Invitation for Bids, the performance of the services defined and described particularly in Article 1 of this Agreement.

B. Consultant, following submission of a proposal or bid for the performance of the services defined and described particularly in Article 1 of this Agreement, was selected by the City to perform those services.

C. Pursuant to the City of Carson's Municipal Code, City has authority to enter into and execute this Agreement.

D. The Parties desire to formalize the selection of Consultant for performance of those services defined and described particularly in Article 1 of this Agreement and desire that the terms of that performance be as particularly defined and described herein.

OPERATIVE PROVISIONS

NOW, THEREFORE, in consideration of the mutual promises and covenants made by the Parties and contained herein and other consideration, the value and adequacy of which are hereby acknowledged, the parties agree as follows:

ARTICLE 1. SERVICES OF CONSULTANT

1.1 Scope of Services.

In compliance with all terms and conditions of this Agreement, the Consultant shall provide those services specified in the "Scope of Services" attached hereto as Exhibit "A" and incorporated herein by this reference, which may be referred to herein as the "services" or "work" hereunder. As a material inducement to the City entering into this Agreement, Consultant represents and warrants that it has the qualifications, experience, and facilities necessary to properly perform the services required under this Agreement in a thorough, competent, and professional manner, and is experienced in performing the work and services contemplated herein. Consultant shall at all times faithfully, competently and to the best of its ability, experience and talent, perform all services described herein. Consultant covenants that it shall follow the highest professional standards in performing the work and services required hereunder and that all materials will be both of good quality as well as fit for the purpose intended. For purposes of this Agreement, the phrase "highest

professional standards" shall mean those standards of practice recognized by one or more first-class firms performing similar work under similar circumstances.

1.2 Consultant's Proposal.

The Scope of Service shall include the Consultant's scope of work or bid which shall be incorporated herein by this reference as though fully set forth herein. In the event of any inconsistency between the terms of such proposal and this Agreement, the terms of this Agreement shall govern.

1.3 Compliance with Law.

Consultant shall keep itself informed concerning, and shall render all services hereunder in accordance with, all ordinances, resolutions, statutes, rules, and regulations of the City and any Federal, State or local governmental entity having jurisdiction in effect at the time service is rendered.

1.4 Licenses, Permits, Fees and Assessments.

Consultant shall obtain at its sole cost and expense such licenses, permits and approvals as may be required by law for the performance of the services required by this Agreement. Consultant shall have the sole obligation to pay for any fees, assessments and taxes, plus applicable penalties and interest, which may be imposed by law and arise from or are necessary for the Consultant's performance of the services required by this Agreement, and shall indemnify, defend and hold harmless City, its officers, employees or agents of City, against any such fees, assessments, taxes, penalties or interest levied, assessed or imposed against City hereunder.

1.5 Familiarity with Work.

By executing this Agreement, Consultant warrants that Consultant (i) has thoroughly investigated and considered the scope of services to be performed, (ii) has carefully considered how the services should be performed, and (iii) fully understands the facilities, difficulties and restrictions attending performance of the services under this Agreement. If the services involve work upon any site, Consultant warrants that Consultant has or will investigate the site and is or will be fully acquainted with the conditions there existing, prior to commencement of services hereunder. Should the Consultant discover any latent or unknown conditions, which will materially affect the performance of the services hereunder, Consultant shall immediately inform the City of such fact and shall not proceed except at Consultant's risk until written instructions are received from the Contract Officer.

1.6 Care of Work.

The Consultant shall adopt reasonable methods during the life of the Agreement to furnish continuous protection to the work, and the equipment, materials, papers, documents, plans, studies and/or other components thereof to prevent losses or damages, and shall be responsible for all such damages, to persons or property, until acceptance of the work by City, except such losses or damages as may be caused by City's own negligence.

1.7 Further Responsibilities of Parties.

Both parties agree to use reasonable care and diligence to perform their respective obligations under this Agreement. Both parties agree to act in good faith to execute all instruments, prepare all documents and take all actions as may be reasonably necessary to carry out the purposes of this Agreement. Unless hereafter specified, neither party shall be responsible for the service of the other.

1.8 Additional Services.

City shall have the right at any time during the performance of the services, without invalidating this Agreement, to order extra work beyond that specified in the Scope of Services or make changes by altering, adding to or deducting from said work. No such extra work may be undertaken unless a written order is first given by the Contract Officer to the Consultant, incorporating therein any adjustment in (i) the Contract Sum for the actual costs of the extra work, and/or (ii) the time to perform this Agreement, which said adjustments are subject to the written approval of the Consultant. Any increase in compensation of up to ten percent (10%) of the Contract Sum or $25,000, whichever is less; or, in the time to perform of up to one hundred eighty (180) days, may be approved by the Contract Officer. Any greater increases, taken either separately or cumulatively, must be approved by the City Council. It is expressly understood by Consultant that the provisions of this Section shall not apply to services specifically set forth in the Scope of Services. Consultant hereby acknowledges that it accepts the risk that the services to be provided pursuant to the Scope of Services may be more costly or time consuming than Consultant anticipates and that Consultant shall not be entitled to additional compensation therefor. City may in its sole and absolute discretion have similar work done by other contractors. No claims for an increase in the Contract Sum or time for performance shall be valid unless the procedures established in this Section are followed.

1.9 Special Requirements.

Additional terms and conditions of this Agreement, if any, which are made a part hereof are set forth in the "Special Requirements" attached hereto as Exhibit "B" and incorporated herein by this reference. In the event of a conflict between the provisions of Exhibit "B" and any other provisions of this Agreement, the provisions of Exhibit "B" shall govern.

ARTICLE 2. COMPENSATION AND METHOD OF PAYMENT.

2.1 Contract Sum.

Subject to any limitations set forth in this Agreement, City agrees to pay Consultant the amounts specified in the "Schedule of Compensation" attached hereto as Exhibit "C" and incorporated herein by this reference. The total compensation, including reimbursement for actual expenses, shall not exceed **One Million One Hundred Twenty Thousand Dollars ($1,120,000.00)** (the "Contract Sum"), unless additional compensation is approved pursuant to Section 1.8.

2.2 Method of Compensation.

The method of compensation may include: (i) a lump sum payment upon completion; (ii) payment in accordance with specified tasks or the percentage of completion of the services; (iii) payment for time and materials based upon the Consultant's rates as specified in the Schedule of Compensation, provided that (a) time estimates are provided for the performance of sub tasks, (b) contract retention is maintained, and (c) the Contract Sum is not exceeded; or (iv) such other methods as may be specified in the Schedule of Compensation.

2.3 Reimbursable Expenses.

Compensation may include reimbursement for actual and necessary expenditures for reproduction costs, telephone expenses, and travel expenses approved by the Contract Officer in advance, or actual subcontractor expenses of an approved subcontractor pursuant to Section 4.5, and only if specified in the Schedule of Compensation. The Contract Sum shall include the attendance of Consultant at all project meetings reasonably deemed necessary by the City. Coordination of the performance of the work with City is a critical component of the services. If Consultant is required to attend additional meetings to facilitate such coordination, Consultant shall not be entitled to any additional compensation for attending said meetings.

2.4 Invoices.

Each month Consultant shall furnish to City an original invoice for all work performed and expenses incurred during the preceding month in a form approved by City's Director of Finance. By submitting an invoice for payment under this Agreement, Consultant is certifying compliance with all provisions of the Agreement. The invoice shall detail charges for all necessary and actual expenses by the following categories: labor (by sub-category), travel, materials, equipment, supplies, and sub-contractor contracts. Sub-contractor charges shall also be detailed by such categories. Consultant shall not invoice City for any duplicate services performed by more than one person.

City shall independently review each invoice submitted by the Consultant to determine whether the work performed and expenses incurred are in compliance with the provisions of this Agreement. Except as to any charges for work performed or expenses incurred by Consultant which are disputed by City, or as provided in Section 7.3, City will use its best efforts to cause Consultant to be paid within forty-five (45) days of receipt of Consultant's correct and undisputed invoice; however, Consultant acknowledges and agrees that due to City warrant run procedures, the City cannot guarantee that payment will occur within this time period. In the event any charges or expenses are disputed by City, the original invoice shall be returned by City to Consultant for correction and resubmission. Review and payment by City for any invoice provided by the Consultant shall not constitute a waiver of any rights or remedies provided herein or any applicable law.

2.5 Waiver.

Payment to Consultant for work performed pursuant to this Agreement shall not be deemed to waive any defects in work performed by Consultant.

ARTICLE 3. PERFORMANCE SCHEDULE

3.1 Time of Essence.

Time is of the essence in the performance of this Agreement.

3.2 Schedule of Performance.

Consultant shall commence the services pursuant to this Agreement upon receipt of a written notice to proceed and shall perform all services within the time period(s) established in the "Schedule of Performance" attached hereto as Exhibit "D" and incorporated herein by this reference. When requested by the Consultant, extensions to the time period(s) specified in the Schedule of Performance may be approved in writing by the Contract Officer but not exceeding one hundred eighty (180) days cumulatively.

3.3 Force Majeure.

The time period(s) specified in the Schedule of Performance for performance of the services rendered pursuant to this Agreement shall be extended because of any delays due to unforeseeable causes beyond the control and without the fault or negligence of the Consultant, including, but not restricted to, acts of God or of the public enemy, unusually severe weather, fires, earthquakes, floods, epidemics, quarantine restrictions, riots, strikes, freight embargoes, wars, litigation, and/or acts of any governmental agency, including the City, if the Consultant shall within ten (10) days of the commencement of such delay notify the Contract Officer in writing of the causes of the delay. The Contract Officer shall ascertain the facts and the extent of delay, and extend the time for performing the services for the period of the enforced delay when and if in the judgment of the Contract Officer such delay is justified. The Contract Officer's determination shall be final and conclusive upon the parties to this Agreement. In no event shall Consultant be entitled to recover damages against the City for any delay in the performance of this Agreement, however caused, Consultant's sole remedy being extension of the Agreement pursuant to this Section.

3.4 Term.

Unless earlier terminated in accordance with Article 7 of this Agreement, this Agreement shall continue in full force and effect until completion of the services but not exceeding five (5) years from the effective date hereof, except as otherwise provided in the Schedule of Performance (Exhibit "D").

ARTICLE 4. COORDINATION OF WORK

4.1 Representatives and Personnel of Consultant.

The following principals of Consultant ("Principals") are hereby designated as being the principals and representatives of Consultant authorized to act in its behalf with respect to the work specified herein and make all decisions in connection therewith:

Navin Sami	CEO
(Name)	(Title)

It is expressly understood that the experience, knowledge, capability and reputation of the foregoing principals were a substantial inducement for City to enter into this Agreement. Therefore, the foregoing principals shall be responsible during the term of this Agreement for directing all activities of Consultant and devoting sufficient time to personally supervise the services hereunder. All personnel of Consultant, and any authorized agents, shall at all times be under the exclusive direction and control of the Principals. For purposes of this Agreement, the foregoing Principals may not be replaced nor may their responsibilities be substantially reduced by Consultant without the express written approval of City. Additionally, Consultant shall utilize only competent personnel to perform services pursuant to this Agreement. Consultant shall make every reasonable effort to maintain the stability and continuity of Consultant's staff and subcontractors, if any, assigned to perform the services required under this Agreement. Consultant shall notify City of any changes in Consultant's staff and subcontractors, if any, assigned to perform the services required under this Agreement, prior to and during any such performance.

4.2 Status of Consultant.

Consultant shall have no authority to bind City in any manner, or to incur any obligation, debt or liability of any kind on behalf of or against City, whether by contract or otherwise, unless such authority is expressly conferred under this Agreement or is otherwise expressly conferred in writing by City. Consultant shall not at any time or in any manner represent that Consultant or any of Consultant's officers, employees, or agents are in any manner officials, officers, employees or agents of City. Neither Consultant, nor any of Consultant's officers, employees or agents, shall obtain any rights to retirement, health care or any other benefits which may otherwise accrue to City's employees. Consultant expressly waives any claim Consultant may have to any such rights.

4.3 Contract Officer.

The Contract Officer shall be Timothy Grierson, Recreation Superintendent, or such other person as may be designated by the City Manager. It shall be the Consultant's responsibility to assure that the Contract Officer is kept informed of the progress of the performance of the services and the Consultant shall refer any decisions which must be made by City to the Contract Officer. Unless otherwise specified herein, any approval of City required hereunder shall mean the approval of the Contract Officer. The Contract Officer shall have authority, if specified in writing by the City Manager, to sign all documents on behalf of the City required hereunder to carry out the terms of this Agreement.

4.4 Independent Consultant.

Neither the City nor any of its employees shall have any control over the manner, mode or means by which Consultant, its agents or employees, perform the services required herein, except as otherwise set forth herein. City shall have no voice in the selection, discharge, supervision or control of Consultant's employees, servants, representatives or agents, or in fixing their number, compensation or hours of service. Consultant shall perform all services required herein as an independent contractor of City and shall remain at all times as to City a wholly independent contractor with only such obligations as are consistent with that role. Consultant shall not at any time or in any manner represent that it or any of its agents or employees are agents or employees of City. City shall not in any way or for any purpose become or be deemed to be a partner of

Consultant in its business or otherwise or a joint venturer or a member of any joint enterprise with Consultant.

4.5 Prohibition Against Subcontracting or Assignment.

The experience, knowledge, capability and reputation of Consultant, its principals and employees were a substantial inducement for the City to enter into this Agreement. Therefore, Consultant shall not contract with any other entity to perform in whole or in part the services required hereunder without the express written approval of the City. In addition, neither this Agreement nor any interest herein may be transferred, assigned, conveyed, hypothecated or encumbered voluntarily or by operation of law, whether for the benefit of creditors or otherwise, without the prior written approval of City. Transfers restricted hereunder shall include the transfer to any person or group of persons acting in concert of more than twenty-five percent (25%) of the present ownership and/or control of Consultant, taking all transfers into account on a cumulative basis. In the event of any such unapproved transfer, including any bankruptcy proceeding, this Agreement shall be void. No approved transfer shall release the Consultant or any surety of Consultant of any liability hereunder without the express consent of City.

ARTICLE 5. INSURANCE AND INDEMNIFICATION

5.1 Insurance Coverages.

The Consultant shall procure and maintain, at its sole cost and expense, in a form and content satisfactory to City, during the entire term of this Agreement including any extension thereof, the following policies of insurance which shall cover all elected and appointed officers, employees and agents of City:

(a) General Liability Insurance (Coverage Form ISO CGL CG 00 01 or equivalent). A policy of comprehensive general liability insurance written on a per occurrence basis for bodily injury, personal injury and property damage. The policy of insurance shall be in an amount not less than $2,000,000.00 per occurrence or if a general aggregate limit is used, then the general aggregate limit shall be twice the occurrence limit.

(b) Worker's Compensation Insurance. A policy of worker's compensation insurance in such amount as will fully comply with the laws of the State of California and which shall indemnify, insure and provide legal defense for the Consultant against any loss, claim or damage arising from any injuries or occupational diseases occurring to any worker employed by or any persons retained by the Consultant in the course of carrying out the work or services contemplated in this Agreement, with Employer's Liability insurance coverage limits of at least $1,000,000.00.

(c) Automotive Insurance (Coverage Form ISO CA 00 01 including "any auto" and endorsement CA 0025 or equivalent). A policy of comprehensive automobile liability insurance written on a per occurrence for bodily injury and property damage in an amount not less than $1,000,000. Said policy shall include coverage for owned, non-owned, leased, hired cars and any automobile.

(d) Professional Liability. Professional liability insurance appropriate to the Consultant's profession, as determined by the City's Risk Manager, provided that the limits shall be no less than $1,000,000 per claim and no less than $1,000,000 general aggregate. This coverage may be written on a "claims made" basis, and must include coverage for contractual liability. The professional liability insurance required by this Agreement must be endorsed to be applicable to claims based upon, arising out of or related to services performed under this Agreement. The insurance must be maintained for at least 5 consecutive years following the completion of Consultant's services or the termination of this Agreement. During this additional 5-year period, Consultant shall annually and upon request of the City submit written evidence of this continuous coverage.

(e) Subcontractors. Consultant shall include all subcontractors as insureds under its policies or shall furnish separate certificates and certified endorsements for each subcontractor. All coverages for subcontractors shall include all of the requirements stated herein.

(f) Additional Insurance. Policies of such other insurance, as may be required in the Special Requirements in Exhibit "B".

(g) Broader Coverages and Higher Limits. Notwithstanding anything else herein to the contrary, if Consultant maintains broader coverages and/or higher limits than the minimums shown above, the City requires and shall be entitled to the broader coverages and/or higher limits maintained by Consultant.

5.2 General Insurance Requirements.

All of the above policies of insurance shall be primary insurance and shall name the City, its elected and appointed officers, employees and agents as additional insureds and any insurance maintained by City or its officers, employees or agents may apply in excess of, and not contribute with Consultant's insurance. The insurer is deemed hereof to waive all rights of subrogation and contribution it may have against the City, its officers, employees and agents and their respective insurers. Moreover, the insurance policy must specify that where the primary insured does not satisfy the self-insured retention, any additional insured may satisfy the self-insured retention.

All of said policies of insurance shall provide that said insurance may not be amended or cancelled by the insurer or any party hereto without providing thirty (30) days prior written notice by certified mail return receipt requested to the City. In the event any of said policies of insurance are cancelled, the Consultant shall, prior to the cancellation date, submit new evidence of insurance in conformance with Section 5.1 to the Contract Officer.

No work or services under this Agreement shall commence until the Consultant has provided the City with Certificates of Insurance, additional insured endorsement forms or appropriate insurance binders evidencing the above insurance coverages and said Certificates of Insurance or binders are approved by the City. City reserves the right to inspect complete, certified copies of and endorsements to all required insurance policies at any time. Any failure to comply with the reporting or other provisions of the policies including breaches or warranties shall not affect coverage provided to City.

All certificates shall name the City as additional insured (providing the appropriate endorsement) and shall conform to the following "cancellation" notice:

> CANCELLATION:
>
> SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATED THEREOF, THE ISSUING COMPANY SHALL MAIL THIRTY (30)-DAY ADVANCE WRITTEN NOTICE TO CERTIFICATE HOLDER NAMED HEREIN.
>
> [to be initialed] _____
> Consultant Initials

City, its respective elected and appointed officers, directors, officials, employees, agents and volunteers are to be covered as additional insureds as respects: liability arising out of activities Consultant performs; products and completed operations of Consultant; premises owned, occupied or used by Consultant; or any automobiles owned, leased, hired or borrowed by Consultant. The coverage shall contain no special limitations on the scope of protection afforded to City, and their respective elected and appointed officers, officials, employees or volunteers. Consultant's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.

Any deductibles or self-insured retentions must be declared to and approved by City. At the option of City, either the insurer shall reduce or eliminate such deductibles or self-insured retentions as respects City or its respective elected or appointed officers, officials, employees and volunteers or the Consultant shall procure a bond guaranteeing payment of losses and related investigations, claim administration, defense expenses and claims. The Consultant agrees that the requirement to provide insurance shall not be construed as limiting in any way the extent to which the Consultant may be held responsible for the payment of damages to any persons or property resulting from the Consultant's activities or the activities of any person or persons for which the Consultant is otherwise responsible nor shall it limit the Consultant's indemnification liabilities as provided in Section 5.3.

In the event the Consultant subcontracts any portion of the work in compliance with Section 4.5 of this Agreement, the contract between the Consultant and such subcontractor shall require the subcontractor to maintain the same policies of insurance that the Consultant is required to maintain pursuant to Section 5.1, and such certificates and endorsements shall be provided to City.

5.3 Indemnification.

To the full extent permitted by law, Consultant agrees to indemnify, defend and hold harmless the City, its officers, employees and agents ("Indemnified Parties") against, and will hold and save them and each of them harmless from, any and all actions, either judicial, administrative, arbitration or regulatory claims, damages to persons or property, losses, costs, penalties, obligations, errors, omissions or liabilities whether actual or threatened (herein "claims or liabilities") that may be asserted or claimed by any person, firm or entity arising out of or in

connection with the negligent performance of the work, operations or activities provided herein of Consultant, its officers, employees, agents, subcontractors, or invitees, or any individual or entity for which Consultant is legally liable ("indemnitors"), or arising from Consultant's or indemnitors' reckless or willful misconduct, or arising from Consultant's or indemnitors' negligent performance of or failure to perform any term, provision, covenant or condition of this Agreement, and in connection therewith:

(a) Consultant will defend any action or actions filed in connection with any of said claims or liabilities and will pay all costs and expenses, including legal costs and attorneys' fees incurred in connection therewith;

(b) Consultant will promptly pay any judgment rendered against the City, its officers, agents or employees for any such claims or liabilities arising out of or in connection with the negligent performance of or failure to perform such work, operations or activities of Consultant hereunder; and Consultant agrees to save and hold the City, its officers, agents, and employees harmless therefrom;

(c) In the event the City, its officers, agents or employees is made a party to any action or proceeding filed or prosecuted against Consultant for such damages or other claims arising out of or in connection with the negligent performance of or failure to perform the work, operation or activities of Consultant hereunder, Consultant agrees to pay to the City, its officers, agents or employees, any and all costs and expenses incurred by the City, its officers, agents or employees in such action or proceeding, including but not limited to, legal costs and attorneys' fees.

Consultant shall incorporate similar indemnity agreements with its subcontractors and if it fails to do so Consultant shall be fully responsible to indemnify City hereunder therefore, and failure of City to monitor compliance with these provisions shall not be a waiver hereof. This indemnification includes claims or liabilities arising from any negligent or wrongful act, error or omission, or reckless or willful misconduct of Consultant in the performance of professional services hereunder. The provisions of this Section do not apply to claims or liabilities occurring as a result of City's sole negligence or willful acts or omissions, but, to the fullest extent permitted by law, shall apply to claims and liabilities resulting in part from City's negligence, except that design professionals' indemnity hereunder shall be limited to claims and liabilities arising out of the negligence, recklessness or willful misconduct of the design professional. The indemnity obligation shall be binding on successors and assigns of Consultant and shall survive termination of this Agreement.

5.4 Sufficiency of Insurer.

Insurance required by this Agreement shall be satisfactory only if issued by companies qualified to do business in California, rated "A-" or better in the most recent edition of Best Rating Guide, The Key Rating Guide or in the Federal Register, and only if they are of a financial category Class VII or better, unless such requirements are waived by the Risk Manager of the City ("Risk Manager") due to unique circumstances. If this Agreement continues for more than 3 years duration, or in the event the risk manager determines that the work or services to be performed under this Agreement creates an increased or decreased risk of loss to the City, the Consultant

agrees that the minimum limits of the insurance policies may be changed accordingly upon receipt of written notice from the Risk Manager.

ARTICLE 6. RECORDS, REPORTS, AND RELEASE OF INFORMATION

6.1 Records.

Consultant shall keep, and require subcontractors to keep, such ledgers, books of accounts, invoices, vouchers, canceled checks, reports, studies or other documents relating to the disbursements charged to City and services performed hereunder (the "books and records"), as shall be necessary to perform the services required by this Agreement and enable the Contract Officer to evaluate the performance of such services. Any and all such documents shall be maintained in accordance with generally accepted accounting principles and shall be complete and detailed. The Contract Officer shall have full and free access to such books and records at all times during normal business hours of City, including the right to inspect, copy, audit and make records and transcripts from such records. Such records shall be maintained for a period of three (3) years following completion of the services hereunder, and the City shall have access to such records in the event any audit is required. In the event of dissolution of Consultant's business, custody of the books and records may be given to City, and access shall be provided by Consultant's successor in interest. Notwithstanding the above, the Consultant shall fully cooperate with the City in providing access to the books and records if a public records request is made and disclosure is required by law including but not limited to the California Public Records Act.

6.2 Reports.

Consultant shall periodically prepare and submit to the Contract Officer such reports concerning the performance of the services required by this Agreement as the Contract Officer shall require. Consultant hereby acknowledges that the City is greatly concerned about the cost of work and services to be performed pursuant to this Agreement. For this reason, Consultant agrees that if Consultant becomes aware of any facts, circumstances, techniques, or events that may or will materially increase or decrease the cost of the work or services contemplated herein or, if Consultant is providing design services, the cost of the project being designed, Consultant shall promptly notify the Contract Officer of said fact, circumstance, technique or event and the estimated increased or decreased cost related thereto and, if Consultant is providing design services, the estimated increased or decreased cost estimate for the project being designed.

6.3 Ownership of Documents.

All drawings, specifications, maps, designs, photographs, studies, surveys, data, notes, computer files, reports, records, documents and other materials (the "documents and materials") prepared by Consultant, its employees, subcontractors and agents in the performance of this Agreement shall be the property of City and shall be delivered to City upon request of the Contract Officer or upon the termination of this Agreement, and Consultant shall have no claim for further employment or additional compensation as a result of the exercise by City of its full rights of ownership use, reuse, or assignment of the documents and materials hereunder. Any use, reuse or assignment of such completed documents for other projects and/or use of uncompleted documents without specific written authorization by the Consultant will be at the City's sole risk and without

liability to Consultant, and Consultant's guarantee and warranties shall not extend to such use, reuse or assignment. Consultant may retain copies of such documents for its own use. Consultant shall have the right to use the concepts embodied therein. All subcontractors shall provide for assignment to City of any documents or materials prepared by them, and in the event Consultant fails to secure such assignment, Consultant shall indemnify City for all damages resulting therefrom. Moreover, with respect to any documents and materials that may qualify as "works made for hire" as defined in 17 U.S.C. § 101, such documents and materials are hereby deemed "works made for hire" for the City.

6.4 Confidentiality and Release of Information.

(a) All information gained or work product produced by Consultant in performance of this Agreement shall be considered confidential, unless such information is in the public domain or already known to Consultant. Consultant shall not release or disclose any such information or work product to persons or entities other than City without prior written authorization from the Contract Officer.

(b) Consultant, its officers, employees, agents or subcontractors, shall not, without prior written authorization from the Contract Officer or unless requested by the City Attorney, voluntarily provide documents, declarations, letters of support, testimony at depositions, response to interrogatories or other information concerning the work performed under this Agreement. Response to a subpoena or court order shall not be considered "voluntary" provided Consultant gives City notice of such court order or subpoena.

(c) If Consultant, or any officer, employee, agent or subcontractor of Consultant, provides any information or work product in violation of this Agreement, then City shall have the right to reimbursement and indemnity from Consultant for any damages, costs and fees, including attorneys fees, caused by or incurred as a result of Consultant's conduct.

(d) Consultant shall promptly notify City should Consultant, its officers, employees, agents or subcontractors be served with any summons, complaint, subpoena, notice of deposition, request for documents, interrogatories, request for admissions or other discovery request, court order or subpoena from any party regarding this Agreement and the work performed there under. City retains the right, but has no obligation, to represent Consultant or be present at any deposition, hearing or similar proceeding. Consultant agrees to cooperate fully with City and to provide City with the opportunity to review any response to discovery requests provided by Consultant. However, this right to review any such response does not imply or mean the right by City to control, direct, or rewrite said response.

ARTICLE 7. ENFORCEMENT OF AGREEMENT AND TERMINATION

7.1 California Law.

This Agreement shall be interpreted, construed and governed both as to validity and to performance of the parties in accordance with the laws of the State of California. Legal actions concerning any dispute, claim or matter arising out of or in relation to this Agreement shall be instituted in the Superior Court of the County of Los Angeles, State of California, or any other appropriate court in such county, and Consultant covenants and agrees to submit to the personal

jurisdiction of such court in the event of such action. In the event of litigation in a U.S. District Court, venue shall lie exclusively in the Central District of California, in the County of Los Angeles, State of California.

7.2 Disputes; Default.

In the event that Consultant is in default under the terms of this Agreement, the City shall not have any obligation or duty to continue compensating Consultant for any work performed after the date of default. Instead, the City may give notice to Consultant of the default and the reasons for the default. The notice shall include the timeframe in which Consultant may cure the default. This timeframe is presumptively thirty (30) days, but may be extended, though not reduced, if circumstances warrant. During the period of time that Consultant is in default, the City shall hold all invoices and shall, when the default is cured, proceed with payment on the invoices. In the alternative, the City may, in its sole discretion, elect to pay some or all of the outstanding invoices during the period of default. If Consultant does not cure the default, the City may take necessary steps to terminate this Agreement under this Article. Any failure on the part of the City to give notice of the Consultant's default shall not be deemed to result in a waiver of the City's legal rights or any rights arising out of any provision of this Agreement.

7.3 Retention of Funds.

Consultant hereby authorizes City to deduct from any amount payable to Consultant (whether or not arising out of this Agreement) (i) any amounts the payment of which may be in dispute hereunder or which are necessary to compensate City for any losses, costs, liabilities, or damages suffered by City, and (ii) all amounts for which City may be liable to third parties, by reason of Consultant's acts or omissions in performing or failing to perform Consultant's obligation under this Agreement. In the event that any claim is made by a third party, the amount or validity of which is disputed by Consultant, or any indebtedness shall exist which shall appear to be the basis for a claim of lien, City may withhold from any payment due, without liability for interest because of such withholding, an amount sufficient to cover such claim. The failure of City to exercise such right to deduct or to withhold shall not, however, affect the obligations of the Consultant to insure, indemnify, and protect City as elsewhere provided herein.

7.4 Waiver.

Waiver by any party to this Agreement of any term, condition, or covenant of this Agreement shall not constitute a waiver of any other term, condition, or covenant. Waiver by any party of any breach of the provisions of this Agreement shall not constitute a waiver of any other provision or a waiver of any subsequent breach or violation of any provision of this Agreement. Acceptance by City of any work or services by Consultant shall not constitute a waiver of any of the provisions of this Agreement. No delay or omission in the exercise of any right or remedy by a non-defaulting party on any default shall impair such right or remedy or be construed as a waiver. Any waiver by either party of any default must be in writing and shall not be a waiver of any other default concerning the same or any other provision of this Agreement.

7.5 Rights and Remedies are Cumulative.

Except with respect to rights and remedies expressly declared to be exclusive in this Agreement, the rights and remedies of the parties are cumulative and the exercise by either party of one or more of such rights or remedies shall not preclude the exercise by it, at the same or different times, of any other rights or remedies for the same default or any other default by the other party.

7.6 Legal Action.

In addition to any other rights or remedies, either party may take legal action, in law or in equity, to cure, correct or remedy any default, to recover damages for any default, to compel specific performance of this Agreement, to obtain declaratory or injunctive relief, or to obtain any other remedy consistent with the purposes of this Agreement. Notwithstanding any contrary provision herein, Consultant shall file a statutory claim pursuant to Government Code Sections 905 et. Seq. and 910 et. Seq., in order to pursue a legal action under this Agreement.

7.7 Termination Prior to Expiration of Term.

This Section shall govern any termination of this Agreement except as specifically provided in the following Section for termination for cause. The City reserves the right to terminate this Agreement at any time, with or without cause, upon thirty (30) days' written notice to Consultant, except that where termination is due to the fault of the Consultant, the period of notice may be such shorter time as may be determined by the Contract Officer. In addition, Consultant may terminate this Agreement if and only if all of the following criteria are met: (i) City is in default under the terms of this Agreement; (ii) Consultant has given City 30 days' written notice (or longer, if circumstances warrant) of the default and the reasons for the default; and (iii) City has failed to cure the default within said cure period. Upon receipt of any notice of termination, Consultant shall immediately cease all services hereunder except such as may be specifically approved by the Contract Officer. Except where the Consultant has initiated termination, the Consultant shall be entitled to compensation for all services rendered prior to the effective date of the notice of termination and for any services authorized by the Contract Officer thereafter in accordance with the Schedule of Compensation or such as may be approved by the Contract Officer, except as provided in Section 7.3. In the event the Consultant has initiated termination, the Consultant shall be entitled to compensation only for the reasonable value of the work product actually produced hereunder. In the event of City's termination without cause pursuant to this Section, the City need not provide the Consultant with the opportunity to cure pursuant to Section 7.2

7.8 Termination for Default of Consultant.

If termination is due to the failure of the Consultant to fulfill its obligations under this Agreement, City may, after compliance with the provisions of Section 7.2, take over the work and prosecute the same to completion by contract or otherwise, and the Consultant shall be liable to the extent that the total cost for completion of the services required hereunder exceeds the compensation herein stipulated (provided that the City shall use reasonable efforts to mitigate such

damages), and City may withhold any payments to the Consultant for the purpose of set-off or partial payment of the amounts owed by City therefor.

7.9 Attorneys' Fees.

If either party to this Agreement is required to initiate or defend or made a party to any action or proceeding in any way connected with this Agreement, the prevailing party in such action or proceeding, in addition to any other relief which may be granted, whether legal or equitable, shall be entitled to reasonable attorney's fees. Attorney's fees shall include attorney's fees on any appeal, and in addition a party entitled to attorney's fees shall be entitled to all other reasonable costs for investigating such action, taking depositions and discovery and all other necessary costs the court allows which are incurred in such litigation. All such fees shall be deemed to have accrued on commencement of such action and shall be enforceable whether or not such action is prosecuted to judgment.

ARTICLE 8. CITY OFFICERS AND EMPLOYEES: NON-DISCRIMINATION

8.1 Non-liability of City Officers and Employees.

No officer or employee of the City shall be personally liable to the Consultant, or any successor in interest, in the event of any default or breach by the City or for any amount which may become due to the Consultant or to its successor, or for breach of any obligation of the terms of this Agreement.

8.2 Conflict of Interest.

Consultant covenants that neither it, nor any officer or principal of its firm, has or shall acquire any interest, directly or indirectly, which would conflict in any manner with the interests of City or which would in any way hinder Consultant's performance of services under this Agreement. Consultant further covenants that in the performance of this Agreement, no person having any such interest shall be employed by it as an officer, employee, agent or subcontractor without the express written consent of the Contract Officer. Consultant agrees to at all times avoid conflicts of interest or the appearance of any conflicts of interest with the interests of City in the performance of this Agreement.

No officer or employee of the City shall have any financial interest, direct or indirect, in this Agreement nor shall any such officer or employee participate in any decision relating to the Agreement which affects her/his financial interest or the financial interest of any corporation, partnership or association in which (s)he is, directly or indirectly, interested, in violation of any State statute or regulation. The Consultant warrants that it has not paid or given and will not pay or give any third party any money or other consideration for obtaining this Agreement.

8.3 Covenant Against Discrimination.

Consultant covenants that, by and for itself, its heirs, executors, assigns, and all persons claiming under or through them, that there shall be no discrimination against or segregation of, any person or group of persons on account of race, color, creed, religion, sex, gender, sexual orientation, marital status, national origin, ancestry or other protected class in the performance of

this Agreement. Consultant shall take affirmative action to insure that applicants are employed and that employees are treated during employment without regard to their race, color, creed, religion, sex, gender, sexual orientation, marital status, national origin, ancestry or other protected class.

8.4 Unauthorized Aliens.

Consultant hereby promises and agrees to comply with all of the provisions of the Federal Immigration and Nationality Act, 8 U.S.C.A. §§ 1101, *et seq.*, as amended, and in connection therewith, shall not employ unauthorized aliens as defined therein. Should Consultant so employ such unauthorized aliens for the performance of work and/or services covered by this Agreement, and should any liability or sanctions be imposed against City for such use of unauthorized aliens, Consultant hereby agrees to and shall reimburse City for the cost of all such liabilities or sanctions imposed, together with any and all costs, including attorneys' fees, incurred by City.

ARTICLE 9. MISCELLANEOUS PROVISIONS

9.1 Notices.

Any notice, demand, request, document, consent, approval, or communication either party desires or is required to give to the other party or any other person shall be in writing and either served personally or sent by prepaid, first-class mail, in the case of the City, to the City Manager and to the attention of the Contract Officer (with her/his name and City title), City of Carson, 701 East Carson, Carson, California 90745 and in the case of the Consultant, to the person(s) at the address designated on the execution page of this Agreement. Either party may change its address by notifying the other party of the change of address in writing. Notice shall be deemed communicated at the time personally delivered or in seventy-two (72) hours from the time of mailing if mailed as provided in this Section.

9.2 Interpretation.

The terms of this Agreement shall be construed in accordance with the meaning of the language used and shall not be construed for or against either party by reason of the authorship of this Agreement or any other rule of construction which might otherwise apply.

9.3 Counterparts.

This Agreement may be executed in any number of counterparts and each of such counterparts shall for all purposes be deemed to be an original, whether the signatures are originals, electronic, facsimiles or digital. All such counterparts shall together constitute but one and the same Agreement.

9.4 Integration; Amendment.

This Agreement including the attachments hereto is the entire, complete and exclusive expression of the understanding of the parties. It is understood that there are no oral agreements between the parties hereto affecting this Agreement and this Agreement supersedes and cancels any and all previous negotiations, arrangements, agreements and understandings, if any, between the parties, and none shall be used to interpret this Agreement. No amendment to or modification

of this Agreement shall be valid unless made in writing and approved by the Consultant and by the City Council. The parties agree that this requirement for written modifications cannot be waived and that any attempted waiver shall be void.

9.5 Severability.

In the event that any one or more of the phrases, sentences, clauses, paragraphs, or sections contained in this Agreement shall be declared invalid or unenforceable by a valid judgment or decree of a court of competent jurisdiction, such invalidity or unenforceability shall not affect any of the remaining phrases, sentences, clauses, paragraphs, or sections of this Agreement which are hereby declared as severable and shall be interpreted to carry out the intent of the parties hereunder unless the invalid provision is so material that its invalidity deprives either party of the basic benefit of their bargain or renders this Agreement meaningless.

9.6 Warranty & Representation of Non-Collusion.

No official, officer, or employee of City has any financial interest, direct or indirect, in this Agreement, nor shall any official, officer, or employee of City participate in any decision relating to this Agreement which may affect his/her financial interest or the financial interest of any corporation, partnership, or association in which (s)he is directly or indirectly interested, or in violation of any corporation, partnership, or association in which (s)he is directly or indirectly interested, or in violation of any State or municipal statute or regulation. The determination of "financial interest" shall be consistent with State law and shall not include interests found to be "remote" or "non-interests" pursuant to Government Code Sections 1091 or 1091.5. Consultant warrants and represents that it has not paid or given, and will not pay or give, to any third party including, but not limited to, any City official, officer, or employee, any money, consideration, or other thing of value as a result or consequence of obtaining or being awarded any agreement. Consultant further warrants and represents that (s)he/it has not engaged in any act(s), omission(s), or other conduct or collusion that would result in the payment of any money, consideration, or other thing of value to any third party including, but not limited to, any City official, officer, or employee, as a result of consequence of obtaining or being awarded any agreement. Consultant is aware of and understands that any such act(s), omission(s) or other conduct resulting in such payment of money, consideration, or other thing of value will render this Agreement void and of no force or effect.

Consultant's Authorized Initials _____

9.7 Corporate Authority.

The persons executing this Agreement on behalf of the parties hereto warrant that (i) such party is duly organized and existing, (ii) they are duly authorized to execute and deliver this Agreement on behalf of said party, (iii) by so executing this Agreement, such party is formally bound to the provisions of this Agreement, and (iv) the entering into this Agreement does not violate any provision of any other Agreement to which said party is bound. This Agreement shall be binding upon the heirs, executors, administrators, successors and assigns of the parties.

[SIGNATURES ON FOLLOWING PAGE]

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the date(s) and year set forth below, with express intent that this Agreement shall be effective on the date and year first-above written.

CITY:

CITY OF CARSON, a municipal corporation

_____
Lula Davis-Holmes, Mayor

Date: _____, 2026

ATTEST:

_____
Dr. Khaleah K. Bradshaw, City Clerk

APPROVED AS TO FORM:
ALESHIRE & WYNDER, LLP

_____
Sunny K. Soltani, City Attorney
[pks]

CONSULTANT:

SAMI'S REFEREES, a California limited liability company

By:_____
Name: Navin Sami
Title: CEO; Manager
Address: 21526 Nicolle Ave
Carson, CA 90745

Date: _____, 2026

If Consultant is a limited liability company, any one of the following options will satisfy City's signature requirements pursuant to the Corporations Code. Option A: One signature required from each of the following groups: 1) Chairman of the Board, President or any Vice President; and 2) Secretary, any Assistant Secretary, Chief Financial Officer or any Assistant Treasurer. Option B: Signatures required from two managers unless the LLC is managed by one manager per its articles of organization, in which case only one signature from that manager is required. Option C: One signature required from any member unless the LLC is manager-managed per its articles of organization. Option D: One signature required from any manager if the LLC is manager-managed per its articles of organization. APPROPRIATE ATTESTATIONS SHALL BE INCLUDED AS MAY BE REQUIRED BY THE BYLAWS, ARTICLES OF INCORPORATION, OR OTHER RULES OR REGULATIONS APPLICABLE TO CONSULTANT'S BUSINESS ENTITY.

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy or validity of that document.

STATE OF CALIFORNIA

COUNTY OF LOS ANGELES

On _____, 2026 before me, _____, personally appeared _____, proved to me on the basis of satisfactory evidence to be the person(s) whose names(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: _____

OPTIONAL

Though the data below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent reattachment of this form.

CAPACITY CLAIMED BY SIGNER

- ☐ INDIVIDUAL
- ☐ CORPORATE OFFICER

_____
TITLE(S)

- ☐ PARTNER(S) ☐ LIMITED ☐ GENERAL
- ☐ ATTORNEY-IN-FACT
- ☐ TRUSTEE(S)
- ☐ GUARDIAN/CONSERVATOR
- ☐ OTHER_____

_____

SIGNER IS REPRESENTING:
(NAME OF PERSON(S) OR ENTITY(IES))

DESCRIPTION OF ATTACHED DOCUMENT

TITLE OR TYPE OF DOCUMENT
NUMBER OF PAGES
DATE OF DOCUMENT

SIGNER(S) OTHER THAN NAMED ABOVE

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy or validity of that document.

STATE OF CALIFORNIA

COUNTY OF LOS ANGELES

On _____, 2026 before me, _____, personally appeared _____, proved to me on the basis of satisfactory evidence to be the person(s) whose names(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: _____

OPTIONAL

Though the data below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent reattachment of this form.

CAPACITY CLAIMED BY SIGNER

- ☐ INDIVIDUAL
- ☐ CORPORATE OFFICER

_____
TITLE(S)

- ☐ PARTNER(S) ☐ LIMITED ☐ GENERAL
- ☐ ATTORNEY-IN-FACT
- ☐ TRUSTEE(S)
- ☐ GUARDIAN/CONSERVATOR
- ☐ OTHER_____

_____

SIGNER IS REPRESENTING:
(NAME OF PERSON(S) OR ENTITY(IES))

DESCRIPTION OF ATTACHED DOCUMENT

TITLE OR TYPE OF DOCUMENT
NUMBER OF PAGES
DATE OF DOCUMENT

SIGNER(S) OTHER THAN NAMED ABOVE

EXHIBIT "A"
SCOPE OF SERVICES

I. Consultant will perform the following Services on an on-call basis:

A. Professional officiating services for the City's youth sports programs (including youth flag football, youth basketball, youth baseball/softball, and youth soccer) in an unbiased, professional manner that is consistent with set City league rules, code, and guidelines.

B. Games may be held at any or all of the following locations:

1. Calas Park
   1000 E. 220th Street
   Carson, CA 90745

2. Carriage Crest Park
   23800 S. Figueroa Street
   Carson, CA 90745

3. Carson Park
   21411 S. Orrick Avenue
   Carson, CA 90745

4. Del Amo Park
   703 E. Del Amo Boulevard
   Carson, CA 90746

5. Dolphin Park
   21205 Water Street
   Carson, CA 90745

6. Dominguez Park
   21330 Santa Fe Avenue
   Carson, CA 90810

7. Hemingway Park
   700 E. Gardena Boulevard
   Carson CA 90746

8. James M. Foisia Park
   23410 Catskill Avenue
   Carson, CA 90745

9. Stevenson Park
   17400 Lysander Drive
   Carson, CA 90746

10. Veterans Park/Veteran Sports Complex
22400 Moneta Avenue
Carson, CA 90745

11. Carson High School
22328 S. Main Street
Carson, CA 90745

12. Rancho Dominguez Preparatory
4110 Santa Fe Avenue
Long Beach, CA 90810

13. Curtiss Middle School
1254 E. Helmick Street
Carson, CA 90746

14. Stephen White Middle School
22102 Figueroa Street
Carson, CA 90745

C. Youth Baseball/Softball Season: There will be a maximum of 600 games, including playoffs, for the season starting no earlier than April 1st and ending no later than July 15th. Additionally, there will be a maximum of 190 games, including playoffs, for the Dodger Dreamteam Summer League, starting no earlier than July 1st and ending no later than August 31st. Tournaments may be added by City after the conclusion of the regular season.

D. Youth Flag Football: There will be a maximum of 150 games, including playoffs, for the season, starting no earlier than September 1st and ending no later than December 15th. Tournaments may be added by City after the conclusion of the regular season.

E. Youth Soccer: There will be a maximum of 400 games, including playoffs, for the season, starting no earlier than September 1st and ending no later than December 15th. Tournaments may be added by City after the conclusion of the regular season.

F. Youth Basketball Season: There will be a maximum of 650 games, including playoffs, for the season, starting no earlier than December 1st and ending no later February 28th. There will be a maximum of 50 games for the Summer Run League, starting no earlier than July 1st and ending no later than August 31. Tournaments may be added by City after the conclusion of the regular season.

G. Youth clinic games for the Rookie & Sandlot divisions consist of a maximum 300 games for basketball, a maximum of 75 games for football, and a maximum of 350 games for soccer.

H. Unless otherwise directed or approved by the Contract Officer, Consultant shall provide, at the game site, one (1) umpire for each assigned 1A/2A division baseball

and all softball games, two (2) umpires for each assigned 3A division baseball game, two (2) officials for each assigned flag football game, one (1) official for each assigned soccer game, and two (2) officials for each assigned basketball game except for youth clinic Sandlot games, which shall be one (1) official for each assigned game. Consultant shall supply the required number of officials/umpires as specified above to cover all scheduled games as assigned by the City (vis its Contract Officer). Upon a 24 hours' notice, additional officials/umpires may be requested by City for any and all games, including playoffs and tournament games.

I. In the case of a game protested over a misapplication of a rule, and such protest is upheld, that game will be replayed from the point of protest at no additional charge to the City. The resumption of play shall take place on a date/time determined by the Contract Officer.

J. City's Contract Officer or the Youth Sports Coordinators will assign, and may add or delete, games as necessary, and charges or reductions for added or deleted games will be pursuant to Exhibit "C." The number of games scheduled in total shall be in the sole discretion of the Contract Officer, and may involve consideration of the number of participants registered and the number of scheduled games assigned to each on-call officiating services vendor under contract with the City, if the City has multiple vendors under contract at the relevant time. City staff will make best efforts to provide updated assigned game schedules to Consultant as soon as they become available.

K. Staffing:

1. Consultant must maintain sufficient qualified staff over the age of 18 available to perform the officiating services for all of the maximum total sports/seasons/games referenced above at all dates/times referenced in Exhibit "D," although the City is not obligated to assign all or any such games to Consultant.

2. Completion of the City's mandated background screening check is required for all of Consultant's personnel associated with provision of the professional officiating services under this Agreement.

3. Consultant is responsible for providing the City with officials that have the knowledge and experience to officiate youth games effectively, confidently and objectively at all City locations specified above.

4. Consultant is required to ensure that all game officials have the required experience and background to officiate at a level that is equivalent to being CIF (California Interscholastic Federation) or NFHS (National Federation of State High School) certified.

5. Consultant agrees that City staff members have the right to evaluate game officials on a random basis throughout the course of the regular season and tournament play and, when deemed justified by City, refuse the services of

any game official at any time. Written justification will be provided to Consultant explaining why a game official was precluded from performing services on that basis. Evaluations will be discussed with Consultant when deemed necessary by City. Consultant agrees that the City may terminate this Agreement for cause based upon (without limitation) game officials not meeting an acceptable level of evaluation standards as determined by City staff.

6. Consultant is responsible for ensuring that all scheduled game officials are knowledgeable and familiar with the City's rules and modifications for each sport and that these rules will be properly enforced at each assigned game throughout each season. Upon request and with just cause as determined by City based on demonstrated poor knowledge or familiarity with the foregoing, City may request or require that Consultants not schedule a specific game official.

7. All game officials are required to wear the correct uniform. Uniforms are to meet the standards set by the California Interscholastic Federation (CIF) and the City.

8. Consultant will be notified of a game official's late arrival. City may request or require that Consultant not schedule a specific game official that has repeatedly arrived after the designated starting time of their scheduled game(s).

9. Consultant is responsible for ensuring that all game officials are aware that their presence and actions, while officiating, or while on City premises in connection with officiating, will be visible to participants and the general public including residents and guests of the City, and therefore reflect the highest level of personal conduct and professionalism.

L. Financial Responsibility:

1. Consultant is responsible to fiscally manage the officiating services for youth sports leagues/games assigned to it in coordination with the City Recreation Division, and to maintain complete accounting records and implement appropriate accounting controls consistent with standard business practices for all of the services. Accounting records shall be available for audit/inspection by the City during regular working hours.

2. Consultant shall adhere to Federal and State financial reporting requirements, and provide financial statements on a monthly, quarterly and annual basis to the City Finance Department within 30 days of the period end.

3. Consultant shall secure and maintain, at its sole expense, all licenses necessary to do business in Los Angeles County, California, City of Carson, and State of California.

4. Consultant is responsible for payment of any and all pertinent federal, state, or local self-employment, Workers Compensation, or income taxes, or other assessments levied by governmental authorities on any monies earned as a result of this Agreement. The City is to be indemnified and reimbursed for any claim or assessment, including interest and penalties, by any taxing authority arising out of Consultant's failure to fulfill the foregoing responsibilities.

II. Consultant must perform all on-call Services in compliance with the following requirements:

A. Each task shall be indicated by a written request ("Task Order") produced by the Contract Officer with a description of the work to be performed, and the time desired for completion. All tasks shall be carried out in conformity with all provisions of this Agreement. Task Orders may include multiple games (e.g., a full regular season schedule) collectively within one Task Order, or may be issued for just an individual game.

B. Consultant must promptly prepare a written description of the requested tasks including all components and subtasks; the compensation to perform the task, using the itemized fees/rates in Section I of Exhibit "C" ("Task Budget"); an explanation of how the compensation was determined; and, a schedule for completion of the task ("Task Completion Date"); which shall all collectively be referred to as the "Task Proposal."

C. Contract Officer shall in writing approve, modify, or reject the Task Proposal, and may issue a Notice to Proceed.

D. The task shall be performed at a cost not to exceed the Task Budget.

E. Consultant shall complete the task and deliver all deliverables to Contract Officer by the Task Completion Date.

III. As part of the Services, Consultant will prepare and deliver the following tangible work products to the City:

A. Game officials shall sign and properly complete score cards during each assigned baseball, softball, flag football and soccer game. The following information must be recorded on each score card: List of players for each team, names of the teams playing, current date, actual starting and ending game times, name(s) of official(s), location of game, the results of any pre-game coin toss; indication of when substitutes have entered/exited the game, number of runs, touchdowns or goals scored, last out of inning per team, number of innings pitched by pitcher, number of timeouts taken and the final game score for each team. Game officials are required to document all necessary game information related to a protest on the game score card, as outlined in the section titled 'Protests' in the City of Carson Youth Sports Rule Book for each sport. In the event that any of Consultant's game officials fail to comply with this requirement, City would need to track

down/reconstruct this information. This information must be tracked and recorded as it would be needed in the event of a protested game, and tracking this information in real time is the responsibility of Consultant's game officials. As such, City and Consultant agree that: (i) it is impracticable or extremely difficult to determine what the actual damages to City would be for a violation of this requirement by Consultant, and how those damages might be calculated; (ii) they have made a reasonable endeavor to estimate fair compensation for such a violation; and (iii) upon doing so, they have concluded that 50% of the contracted game fee for each score card that game officials fail to comply with this requirement represents a fair and reasonable estimate of such damages. Accordingly, Consultant will be assessed liquidated damages equal to 50% of the contracted game fee for each score card for which game officials fail to comply with this requirement.

IV. In addition to the requirements of Section 6.2, during performance of the Services, Consultant will keep the City apprised of the status of performance by delivering the following status reports:

A. Consultant shall notify and submit a written statement of reported information to the City's Contract Officer and the Youth Sports Coordinator on any protest that is brought to the game official's attention within 24-hours of the conclusion of the game. Any coach, player or spectator ejections shall also be reported to the Contract Officer or Youth Sports Coordinator within 24-hours of the conclusion of the game. Game officials must submit a written statement describing the incident and the action that was taken by the official.

B. Consultant shall require game officials to cooperate with City staff concerning any incident or injury situations, and shall provide the name(s) and phone number(s) of any official(s) upon request. Game officials will supply any and all information necessary for proper documentation by site supervisor regarding incident or injury situations.

V. All work product is subject to review and acceptance by the City, and must be revised by the Consultant without additional charge to the City until found satisfactory and accepted by City.

VI. Consultant will utilize the following personnel to accomplish the Services:

A. Navin Sami, CEO

B. Duly qualified officials of Consultant.

EXHIBIT "B"
SPECIAL REQUIREMENTS
(Superseding Contract Boilerplate)

(additions shown in ***bold italics***, deletions in ~~strikethrough~~)

I. The first paragraph of Section 2.4 (Invoices) is hereby deleted in its entirety and replaced with the following:

"Consultant shall furnish to City original invoices for all work performed and expenses incurred, as further detailed below. By submitting an invoice for payment under this Agreement, Consultant is certifying compliance with all provisions of the Agreement. Consultant shall not invoice City for any duplicate services performed by more than one person. Unless otherwise directed by the Contract Officer, for Youth Sports officiating services, invoice to the attention of Youth Sports Coordinator, Nancy Rusas. Invoices shall reflect all work performed and expenses incurred during the preceding two weeks, shall be in a form approved by the Director of Finance, and shall comply with the requirements of Exhibit "C" (Schedule of Compensation)."

II. Subsection (a) (General Liability) of Section 5.1 (Insurance Coverage) is hereby amended to read as follows:

"(a) General Liability Insurance (Coverage Form ISO CGL CG 00 01 or equivalent). A policy of comprehensive general liability insurance written on a per occurrence basis for bodily injury, personal injury and property damage. The policy of insurance shall be in an amount not less than $2,000,000.00 per occurrence or if a general aggregate limit is used, then the general aggregate limit shall be twice the occurrence limit. ***The General Liability Insurance policy must include coverage for Sexual and /or Physical Abuse or Molestation. Or, a separate insurance policy must be provided with a $1,000,000 limit per claim. Evidence of Sexual and/or Physical Abuse or Molestation coverage must be provided with the certificate of insurance."***

III. Subsection (d) (Professional Liability) of Section 5.1 (Insurance Coverage) is hereby amended to read as follows:

" (d) Professional Liability. ***Referee/Umpire*** Professional liability insurance appropriate to the Consultant's profession, as determined by the City's Risk Manager, provided that the limits shall be no less than $1,000,000 per claim and no less than $1,000,000 general aggregate. This coverage may be written on a "claims made" basis, and must include coverage for contractual liability. The professional liability insurance required by this Agreement must be endorsed to be applicable to claims based upon, arising out of or related to services performed under this Agreement. The insurance must be maintained for at least 5 consecutive years following the completion of Consultant's services or the termination of this Agreement. During this additional 5-year period, Consultant shall annually and upon request of the City submit written evidence of this continuous coverage."

IV. Subsection (e) (Subcontractors) of Section 5.1 (Insurance Coverage) is hereby amended to read as follows:

"(e) Subcontractors. Consultant shall include all subcontractors as insureds under its policies or shall furnish separate certificates and certified endorsements for each subcontractor. All coverages for subcontractors shall include all of the requirements stated herein. ***Consultant and its subcontractors shall have insurance prior to the Consultant or its subcontractors being assigned to provide services pursuant to this Agreement. Consultant shall not use uninsured officials unless authorized in writing by the Contract Officer. Consultant's officials are required to obtain their own accident/injury policies. The City of Carson is not responsible for any accident or injury sustained by Consultant's officials.***"

EXHIBIT "C"
SCHEDULE OF COMPENSATION

I. Consultant shall perform the following tasks at the following rates (all rates are per official, per game):

A. Youth Baseball / Softball

Division	Officials Per Game	Year 1 Rate	Year 2 Rate	Year 3 Rate	Year 4 Rate	Year 5 Rate
1A Division (Ages 9-10) – Approx.1 hr 30 min	1	$75.00	$75.00	$75.00	$80.00	$80.00
2A Division (Ages 11-12) – Approx.1 hr 45 min	1	$80.00	$80.00	$80.00	$85.00	$85.00
3A Division Baseball (Ages 13-14) – Approx. 2 hrs	2	$85.00	$85.00	$85.00	$85.00	$85.00
4A Division Baseball (Ages 15-17) – Approx. 2 hrs	2	$85.00	$85.00	$85.00	$85.00	$85.00
3A Division Softball (Ages 13-15) – Approx. 2 hrs	1	$90.00	$90.00	$90.00	$95.00	$95.00

B. Youth Flag Football

Division	Officials Per Game	Year 1 Rate	Year 2 Rate	Year 3 Rate	Year 4 Rate	Year 5 Rate
1A Division (Ages 9-10) – Approx.1 hr	2	$70.00	$70.00	$70.00	$75.00	$75.00
2A Division (Ages 11-12) – Approx.1 hr	2	$70.00	$70.00	$70.00	$75.00	$75.00
3A Division (Ages 13-14) – Approx. 1 hr	2	$70.00	$70.00	$70.00	$75.00	$75.00
Rookie Division (Ages 7-8) – Approx. 1 hr	2	$65.00	$65.00	$65.00	$65.00	$65.00
Sandlot Division (Ages 5-6) – Approx. 1 hr	2	$55.00	$55.00	$55.00	$55.00	$55.00

C. Youth Soccer

Division	Officials Per Game	Year 1 Rate	Year 2 Rate	Year 3 Rate	Year 4 Rate	Year 5 Rate

1A Division (Ages 9-10) – Approx.1 hr	1	$75.00	$75.00	$75.00	$80.00	$80.00
2A Division (Ages 11-12) – Approx.1 hr	1	$75.00	$75.00	$75.00	$80.00	$80.00
3A Division Boys (Ages 13-14) – Approx. 1 hr	1	$75.00	$75.00	$75.00	$80.00	$80.00
3A Division Girls (Ages 13-15) – Approx. 1 hr	1	$75.00	$75.00	$75.00	$80.00	$80.00
Rookie Division (Ages 7-8) – Approx. 1 hr	1	$65.00	$65.00	$65.00	$65.00	$65.00

D. Youth Basketball

Division	**Officials Per Game**	**Year 1 Rate**	**Year 2 Rate**	**Year 3 Rate**	**Year 4 Rate**	**Year 5 Rate**
1A Division (Ages 9-10) – Approx.1 hr	2	$70.00	$70.00	$70.00	$75.00	$75.00
2A Division (Ages 11-12) – Approx.1 hr	2	$70.00	$70.00	$70.00	$75.00	$75.00
3A Division Boys (Ages 13-14) – Approx. 1 hr	2	$70.00	$70.00	$70.00	$75.00	$75.00
3A Division Girls (Ages 13-15) – Approx. 1 hr	2	$70.00	$70.00	$70.00	$75.00	$75.00
4A Division Boys (Ages 15-17) – Approx. 1 hr	2	$70.00	$70.00	$70.00	$75.00	$75.00
Rookie Division (Ages 7-8) – Approx. 45 min	2	$60.00	$60.00	$60.00	$60.00	$60.00
Sandlot Division (Ages 5-6) – Approx. 45 min	1	$50.00	$50.00	$50.00	$50.00	$50.00

II. Within the budgeted amounts for each Task or annual year, and with the approval of the Contract Officer, funds may be shifted from one Task sub-budget to another so long as the Contract Sum is not exceeded per Section 2.1, unless additional services are approved per Section 1.8.

III. Fees; Cancellations

A. The City will give Consultant a 2-hour minimum advance notice (via email to an address provided by Consultant to the Contract Officer) of any cancelled or rescheduled games. This allows time for Consultant to notify its officials that game/games are cancelled, which Consultant shall do within 30 minutes of receiving City's email notice. If the City fails to provide the 2-hour notice of cancellation, a one game fee will be paid. No other fees shall be charged.

B. For games that are cancelled at the scheduled starting time due to bad weather, Consultant will be paid a one game fee as noted above. If any subsequent games are scheduled for that day, game officials are to remain on site, unless dismissed by a site supervisor, at no additional charge.

C. If City gives Consultant more than a 2-hour notice from City that any game(s) have been cancelled or rescheduled, then City will pay Consultant a cancellation/rescheduling fee of $10 per subject game. No other fees will be paid for the cancellation or rescheduling, although if/when rescheduled and held, the subject game would be compensated accordingly to the applicable rates set forth in Section I above.

D. In the event there is a scheduling error by the Consultant or a no-show by game officials that results in the cancellation of any scheduled game(s), the Consultant will not be paid for the cancelled game(s) and will be assessed liquidated equal to 50% of the contracted per game fee for each cancelled game. City and Consultant agree that: (i) it is impracticable or extremely difficult to determine what the actual damages to City would be for a violation of this requirement by Consultant, and how those damages might be calculated; (ii) they have made a reasonable endeavor to estimate fair compensation for such a violation; and (iii) upon doing so, they have concluded that 50% of the contracted game fee for a scheduling error by the Consultant or no-show by game officials that results in the cancellation of any scheduled game represents a fair and reasonable estimate of such damages. No other fees will be paid.

E. Consultant will be assessed liquidated damages equal to 50% of the contracted game fee for each score card that fails to comply with the requirements of Section III of Exhibit "A" as further detailed in that section.

IV. Consultant shall not incur any costs or expenses on behalf of the City, except as specifically approved in advance and in writing by the City. Consultant shall maintain complete and adequate accounting records supporting all charges, fees, expenses, and costs associated with this Agreement.

V. The City will compensate Consultant for the Services performed upon submission of a valid invoice. Each invoice is to include:

A. Line items for all personnel describing the work performed, the number of hours worked, and the hourly rate.

B. Line items for all materials and equipment properly charged to the Services.

C. Line items for all other approved reimbursable expenses claimed, with supporting documentation.

D. Line items for all approved subcontractor labor, supplies, equipment, materials, and travel properly charged to the Services.

VI. The total compensation for the Services shall not exceed $1,120,000, as provided in Section 2.1 of this Agreement.

EXHIBIT "D"
SCHEDULE OF PERFORMANCE

I. Consultant shall perform all services timely in accordance with the schedule of assigned games established pursuant to Exhibit "A" and the following:

A. All games will be played weeknights starting as early as 5:00 p.m. and going as late as 10:30 p.m. Games on weekends can start as early as 8:00 a.m. and go as late as 10:00 p.m. Games may be rescheduled by City staff at any time.

B. Youth Baseball/Spring Softball season starts no earlier than April 1st and ends no later than July 15th. For the Dodger Dreamteam Summer League, the season starts no earlier than July 1st and ends no later than August 31st, excluding any tournaments which may be added by City after the conclusion of each season.

C. Youth Flag Football/Soccer season starts no earlier than September 1st and ends no later than December 15th, excluding any tournaments which may be added by City after the conclusion of each season.

D. Youth Basketball Season starts no earlier than December 1st and ends no later than February 28th. For the Summer Run Leage, the season starts no earlier than July 1st and ends no later than August 31st, excluding tournaments which may be added by City after the conclusion of each season.

E. Consultant shall require each game official to be at the assigned game location no less than 15 minutes prior to the scheduled game time. Game officials are not to leave the facility during the time frame in which they are assigned to officiate and must remain on site during any forfeited game(s), unless dismissed by a site supervisor, at no additional charge. Consultant must notify the Youth Sports Coordinator of any games that were forfeited and the reason for the forfeiture.

II. Consultant shall deliver the following tangible work products to the City by the following dates.

A. Completed score cards – Immediately after each assigned game, unless otherwise approved by the Contract Officer.

III. The Contract Officer may approve extensions for performance of the services in accordance with Section 3.2.

Report to Honorable Mayor and City Council

Tuesday, March 17, 2026, 5:00 PM

CONSENT 20.

To: Honorable Mayor and City Council

From: Dr. Arlington Rodgers, Director of Public Works PW Engineering

Subject: CONSIDER APPROVING MEMORANDUM OF UNDERSTANDING (MOU) WITH LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY (LACMTA) FOR THE CITY OF CARSON TO BECOME A MEMBER OF THE REGIONAL INTEGRATION OF INTELLIGENT TRANSPORTATION SYSTEMS (RIITS) (CITY COUNCIL)

I. SUMMARY

The Configuration Management Committee (CMC) that oversees the Regional Integration of Intelligent Transportation System (RIITS) approved Carson to join the CMC as a voting member on the condition that Carson exchange information through RIITS infrastructure and operational resources. The RIITS was established for the purpose of exchanging infrastructure and operational resources, including, but not limited to, near real time traffic, transit, video, and other data relating to all modes of transportation.

The City Council is requested to approve the Memorandum of Understanding (MOU) between the City of Carson and LACMTA (Exhibit No. 1) to allow Carson to become a member of the CMC that oversees the RIITS, and to exchange information to be used for transportation related system management.

II. RECOMMENDATION

TAKE the following actions:

1. APPROVE Memorandum of Understanding between the City of Carson and LACMTA.
2. AUTHORIZE the Mayor to execute Memorandum of Understanding between the City of Carson and LACMTA, following approval as to form by the City Attorney.

III. ALTERNATIVES

1. DO NOT APPROVE the above recommendations.
2. TAKE any other action the City Council deems appropriate and is consistent with the requirements of the law.

IV. BACKGROUND

In April 2004, the State of California, Department of Transportation for District 7 (Caltrans), the City of Los Angeles, Department of Transportation (LADOT), and the Los Angeles County Metropolitan Transportation Administration (LACMTA) entered into an Interagency Memorandum of Understanding (MOU) to establish the Regional Integration of Intelligent Transportation Systems (RIITS) for the purpose of exchanging infrastructure and operation resources, including, but not limited to, near real time traffic, transit, video, and other data relating to all modes of transportation. In December 2004, LACMTA, Caltrans, and LADOT named LACMTA as the Administrator of the RIITS, and established a Configuration Management Committee (CMC) to oversee the RIITS. On September 25, 2025, the CMC voted and approved Carson to join the CMC as a voting member on the condition that Carson exchanges information through RIITS.

The City of Carson becoming a member of the CMC and exchanging information on the RIITS will increase collaboration with neighboring agencies for the purposes of transportation management and planning, which is increasingly important as the City prepares for hosting the 2028 Olympic and Paralympic Games.

The City Council is requested to approve the MOU between the City of Carson and LACMTA to allow Carson to become a member of the CMC that oversees the RIITS, and to exchange information to be used for transportation related system management.

V. FISCAL IMPACT

There is no fiscal impact related to the proposed MOU. The MOU agreement is not a cost Agreement and neither Party shall incur any cost from the other or charge anything related to this Agreement.

VI. EXHIBITS

1. Memorandum of Understanding

Attachments

Exhibit 1 - Memorandum of Understanding

INTERAGENCY MEMORANDUM OF UNDERSTANDING

between

Los Angeles County Metropolitan Transportation Authority, in its capacity as the Administrator of the Regional Integration of Intelligent Transportation Systems ("RIITS"), located at 1 Gateway Plaza, Los Angeles, California 90012

and

City of Carson ("Carson"), located at 701 E Carson Street, Carson, CA 90745

This Interagency Memorandum of Understanding (the "Agreement") between the Los Angeles County Metropolitan Transportation Administration in its capacity as the RIITS Administrator ("Administrator") and Carson sets forth the obligations and rights of membership in the Configuration Management Committee that oversees RIITS. Administrator and Carson may be referred to individually as a "Party" and collectively as "Parties". This is a no cost Agreement. Neither Party shall incur any cost from the other or charge for anything related to this Agreement. This Agreement will be effective on the last date of signatures below (the "Effective Date").

RECITALS

WHEREAS, on or about April 15, 2004, the State of California, Department of Transportation for District 7 ("Caltrans"), the City of Los Angeles, Department of Transportation ("LADOT"), and the Los Angeles County Metropolitan Transportation Administration ("LACMTA") entered into an interagency memorandum of understanding (the "RIITS MOU") to establish the Regional Integration of Intelligent Transportation Systems ("RIITS") for the purpose of exchanging infrastructure and operational resources, including, but not limited to, near real time traffic, transit, video, and other data relating to all modes of transportation;

WHEREAS, on or about December 1, 2004, LACMTA, Caltrans, and LADOT entered into Amendment No. 1 to the RIITS MOU to:

- name LACMTA as the Administrator and delegate authority to LACMTA to administer, maintain, operate, manage and monitor RIITS access, codify system changes, process Member, Associate, and User agreements, and enforce the terms and conditions of the processed agreements; and

- establish a Configuration Management Committee ("CM Committee") to oversee RIITS;

WHEREAS, the CM Committee adopted bylaws (the "Bylaws") to establish among other things, rules of membership, roles and responsibilities of Members and officers of the CM Committee, and the voting process by which the CM Committee may take action as the governing body of RIITS;

WHEREAS, to participate in RIITS, each Member and/or Associate must first enter into an Interagency Memorandum of Understanding substantially similar to this Agreement and authorize the Administrator to exchange data through RIITS;

WHEREAS, on September 25, 2025, the CMC voted and approved Carson to join the CM Committee as a voting Member on the condition that Carson exchanges Information through RIITS; and

WHEREAS, Carson desires to join the CM Committee as a voting Member and exchange Information through RIITS infrastructure and operational resources;

NOW, THEREFORE, in consideration for the promises set forth herein, the receipt and adequacy of which is hereby acknowledged, the Parties hereto agree as follows:

1. DEFINITIONS

1.1. "Information" means any and all data, records, materials, including specifically but not limited to near or real time traffic, transit, video, and other data relating to all modes of transportation. As defined herein below, a subset of Information is RIITS Data, and a subset of RIITS Data is Transportation Data.

1.2. “Interagency Memorandum of Understanding” means an agreement entered into between Administrator and a public agency setting forth the terms and conditions of the agency’s membership in the CM Committee.

1.3. “Member” or “Members” means any entity that has been approved by the CM Committee to be a voting member of the CM Committee and has entered into an Interagency Memorandum of Understanding.

1.4. “Associate” or “Associates” means any entity that has been approved by the CM Committee to be a non-voting member of the CM Committee and has entered into an Interagency Memorandum of Understanding.

1.5. “Users” means non-members that have access to Transportation Data Members and Associates authorize Administrator to make available.

1.6. “RIITS Data” means Information available through RIITS and any other data that RIITS Administrator makes available under this Agreement during the Term from sources of data supplied through RIITS, including, but not limited to, data provided via Members’ and Associate’s infrastructure and operational resources. Members and Associates may have login access to RIITS Data and access to operational and infrastructure resources that may not be available to Users or the general public.

1.7. “Transportation Data” means a subset of the RIITS Data that the Member which is the source of the Information authorizes to be incorporated into the public facing section of www.riits.net, shared or exchanged with Users, and that may be included in the public facing applications of Members, Associates, and Users.

2. MEMBERSHIP

2.1. Upon execution of this Agreement by both Parties, Carson will become a Member.

2.2. As a Member, Carson agrees to abide by and uphold the Bylaws and jointly with other Members, develop, review, and approve additional Bylaws, guidelines, protocols, terms and conditions, agreements, memorandum of understandings between and for Members, Associates, and Users and/or licensees. To the extent a conflict may arise between this Agreement and the Bylaws, the Bylaws shall govern.

2.3. Carson understands that Information accessed via RIITS is to be used for transportation related system management purposes only. RIITS Data shall only be used to provide general information about transportation and to assist Members and Associates in transportation management operations. RIITS Data shall not be used for any non-transportation related system management purposes, including but not limited to, law enforcement, except law enforcement and emergency management agencies may use the RIITS Data for the purpose of situational awareness, tactical planning, infrastructure protection, or incident response. RIITS Data shall not be recorded in any manner without the prior approval of the source of the RIITS Data.

2.4. Members may exchange Information per this Agreement. Members may choose to add or remove infrastructure and operational resources, including Information exchanged through RIITS by Member's written notice to Administrator. As a Member, Carson may have access to Information and may use RIITS Data according to this Agreement. Carson acknowledges and agrees that Members and Associates may access and use Information provided by Carson as RIITS Data subject to this Agreement.

2.5. Carson is responsible for the procurement, maintenance, and upgrade of its equipment required for transmitting, receiving, and displaying the RIITS Data.

2.6. Carson may enter into third party contracts on behalf of RIITS to obtain and provide transportation and related data, service, or maintenance agreements for the benefit of Carson and RIITS Members and Associates, with Administrator approval.

3. DISSEMINATION OF THE DATA

3.1. With the approval of the voting Members of the CM Committee and the execution of a written agreement, Transportation Data may be licensed to Users.

3.2. At any time, the source of Information may:

3.2.1. Revoke the authority to use its Transportation Data in public facing applications and the public facing www.riits.net website.

3.2.2. Revoke the authority to license its Transportation Data to Users.

3.2.3. Cause the Administrator to remove from RIITS the RIITS Data it has provided.

3.3. Carson shall prevent any unauthorized use of the RIITS Data by its personnel.

3.4. As between the Administrator and/or any and all Members and/or Associates, on the one side, and the Party providing its Information and access to operational and infrastructure resources, on the other, the Party providing Information and access to operational and infrastructure resources retains ownership and control of said Information and access to operational and infrastructure resources.

4. COMPENSATION

This is a no cost Agreement. Neither Party shall incur any cost from the other or charge for anything related to this Agreement. However, Members may enter into a separate written agreement for the provision of hardware, software, license, training, warranty, service, product, and other work provided by Members and Associates.

5. AMENDMENTS

No amendment, modification, alteration or variation of the terms of this Agreement shall be valid unless made in writing and signed by the Parties hereto.

6. PUBLIC RECORDS ACT

6.1 Each Party understands and agrees that any and all Information is subject to the provisions of the California Public Records Act, California Government Code sections 7920.000, *et seq.* ("CPRA") and/or the Federal Freedom of Information Act, Title 5 USC 552 ("FOIA")

6.2 Administrator will not advise as to the nature or content of Information entitled to protection from disclosure under the CPRA or FOIA but will use best efforts to provide the source Party timely notification of any third-party request for disclosure.

6.3 The source Party shall timely (1) notify Administrator in writing whether and to the extent it objects to disclosure of Information and (2) seek the appropriate judicial relief under the CPRA or FOIA.

6.4 If the source Party does not timely notify Administrator of any objection to disclosure and obtain judicial instruction or relief, then Administrator may comply with the request to the extent required by the CPRA or FOIA.

6.5 In the event of any judicial proceeding or action concerning or seeking the disclosure of any Information, the source Party understands and agrees that Administrator's sole involvement will be as a custodial stakeholder to retain the Information until otherwise ordered by a court of competent jurisdiction. The source Party, at its sole expense and risk, shall be responsible for any and all fees for prosecuting or defending any proceeding or action concerning Information, and shall indemnify, defend, and hold Administrator harmless from all liability, including attorney's fees, costs, and expenses, in connection with any such proceeding or action.

7. CONFIDENTIALITY

7.1. Parties agree that for and during the entire term of the Agreement, all information, except Transportation Data, including, but not limited to data, figures, records, findings and the like received or generated by the Agreement and in the performance of the Agreement, shall be considered and kept private and confidential and shall not be divulged to any person, firm, corporation, or other entity, unless required by the California Public Records Act or any other applicable law.

7.2. Upon termination of the Agreement for any cause, Parties agree that they will continue to treat as private and confidential any information other than Transportation Data, including but not limited to, data, figures, records and the like, and will not release any such information to any person, firm, corporation or other entity, unless required by the California Public Records Act or any other applicable law.

8. REPRESENTATIONS AND WARRANTIES

8.1. Neither Administrator nor any of the Members and Associates, nor any of their respective employees, officers, agents, or consultants makes any warranty, express or implied, with respect to infrastructure and operational resources, sources of data and Information, nor with respect to the accuracy, sufficiency or completeness thereof, nor with respect to any of the software or other systems provided by Administrator or any Member or Associate under this Agreement. RIITS is provided on an "as is" and "with all faults" basis, with Carson using RIITS at its own risk.

8.2. Neither Administrator, Members, nor Associates make any representations or warranties, express or implied, that the RIITS Data will perform on Carson's equipment. Further, Administrator makes no representations or warranties, express or implied, that RIITS Data will be suitable for the purposes for which it is permitted to be used under the terms of this Agreement. THE IMPLIED WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY EXPRESSLY WAIVED BY THE PARTIES.

8.3. Carson warrants that all work necessary to transmit its Information through RIITS has been completed. In the event of breach of this warranty, Carson shall take the necessary actions to correct the breach and the consequences thereof, at Carson's sole expense, in the most expeditious manner as permitted by existing circumstances. Upon notification from Administrator of Carson's breach, if Carson does not promptly take steps to correct the breach, Administrator may: 1) Correct the breach or cause others to do so upon written consent of Carson. Administrator may require Carson to reimburse Administrator for any work that is completed by Administrator or others to correct the breach; 2) disconnect Carson from RIITS; or 3) terminate this Agreement and Carson's Membership. The remedies described above are non-exclusive and Administrator's use of these remedies does not waive any other rights or remedies it may have at law or otherwise.

9. LIMITATION OF LIABILITY

9.1. Except for Indemnity obligations set forth in section 10, neither Carson, Administrator, any Member, or any Associate, or any of their respective employees, officers, agents, or consultants shall be liable for any damages, claim or loss incurred by a Member or Associate (including without limitation, compensatory, incidental, indirect, special, consequential, or exemplary damages, lost profits, lost sales or business, expenditures, investments or commitments in connection with any business, or loss of goodwill) resulting from the RIITS Data or inability to use the provided RIITS Data irrespective of whether Administrator, Carson, Members and/or Associates have been informed of, knew of, or should have known of the likelihood of such damages, claim, or loss.

9.2. Members and Associates assume no liability or responsibility for Carson equipment.

9.3. Carson will not hold any Member or Associate liable or responsible in any way for unforeseen interruptions in providing the RIITS Data regardless of cause.

9.4. Carson, on behalf of itself and its agents, sub-licensees, employees, clients, and customers, hereby waives and releases Administrator and all Members and Associates from any and all liability, including but not limited to claims, causes of action, losses, costs, damages, and expenses of any kind or nature whatsoever, whether known or unknown, to the extent caused by or attributable to RIITS, this Agreement, or the use of RIITS Data by Carson .

Carson (for itself and its clients, customers and employees) expressly waives the benefit of Section 1542 of the California Civil Code, which provides as follows: “a general release does not extend to claims which the creditor does not know or suspect to exist in his or her favor at the time of executing the release, which if known by him or her must have materially affected his or her settlement with the debtor”.

(Carson’s Initials) _____

10. INDEMNIFICATION

10.1. To the fullest extent permitted by law, and with counsel approved by the Administrator, Carson shall defend, indemnify, and hold harmless the Administrator, Members, and Associates, including the respective agents, employees, directors, or officers of each (the "Indemnified Parties"), from and against any and all liability, to the extent arising out of, connected with, or resulting from any act or omission of Carson or any of its officers, authorized representative, employees, subcontractors or suppliers, or any person or organization directly or indirectly employed by any of them, which liability includes but is not limited to claims, actions, suits (including but not limited to workers' compensation suits and breaches of contract claims made by employees of Carson against Indemnified Parties), demands, costs, judgments, liens, penalties, damages, losses, and/or expenses, including but not limited to any fees of accountants, attorneys or other professionals.

10.2. The indemnification specified in this Section shall survive termination or closeout of the Agreement hereunder and is in addition to any other rights or remedies that Members and Associates may have under the law or under this Agreement.

10.3. Parties acknowledge that all Members and Associates enter into an Interagency Memorandum of Understanding with substantially similar indemnification language under which Carson shall be indemnified as a Member.

10.4. Claims against the indemnified Members and/or Associates by any employee of the Members and/or Associates, its subcontractors, suppliers, anyone directly or indirectly employed by any of them, and/or anyone for whose acts any of them may be liable shall not in any way limit Carson's indemnification obligation as set forth above, including the Agreement and/or type of damages, compensation, and/or benefits payable by or for Carson or its subcontractors under workers' compensation acts, disability benefit acts, and/or other employee benefit acts and/or insurances.

11. NO WAIVER

11.1. Failure of Administrator to enforce at any time, or from time to time, any provision of the Agreement shall not be construed as a waiver thereof.

11.2. No waiver by Administrator of any breach of any provision of the Agreement shall constitute a waiver of any other breach or of such provision.

11.3. Failure or delay by Administrator to insist upon strict performance of any terms or conditions of the Agreement, or to exercise any rights or remedies provided by law, shall not be deemed a waiver of any right of Administrator to insist upon performance of Carson's obligations set forth in the Agreement, or rights or remedies as to any prior or subsequent default hereunder.

12. TERM OF THE AGREEMENT

12.1. The term of the Agreement shall begin upon the date of the last Party to sign this Agreement and shall continue for one (1) year (the "Initial Term").

12.2. The Agreement shall automatically renew month to month (each a "Renewal Term"), unless either Party sends written notice to the other Party at least thirty (30) days before expiration of the Initial Term or any Renewal Term that it does not wish to renew the Agreement.

12.3. The term of the Agreement shall consist of the Initial Term and any Renewal Term (the "Term").

13. TERMINATION

13.1. If Carson fails to comply with any of the terms and conditions contained within this Agreement, Administrator may revoke Carson's access privileges to RIITS Data and, upon written notification, terminate this Agreement immediately. In addition, Administrator shall have the right to enforce any and all rights and remedies herein or which may be now or hereafter available at law or in equity.

13.2. Except as provided in the preceding paragraph, CM Committee reserves the right to revoke Carson's access privileges to RIITS and terminate this Agreement at any time, upon thirty (30) days prior written notice to Carson.

13.3. Carson may terminate this Agreement upon thirty (30) days prior written notice to Administrator.

14. OTHER TERMS AND CONDITIONS

14.1. This Agreement may be executed in counterparts, each of which shall be deemed an original, but all of which taken together shall constitute one and the same instrument.

14.2. Each Member and Associate of the CM Committee is an express third-party beneficiary of this Agreement.

14.3. The persons executing this Agreement on behalf of the Parties shall be duly authorized to execute this Agreement on behalf of its respective Party.

15. ASSIGNMENT

Carson shall not assign, transfer, convey, or otherwise dispose of the Agreement (or the right, title, or interest in it or any part of it) without the prior written consent of the CM Committee and endorsement of the Administrator, which consent shall not be unreasonably withheld.

16. AUTHORITY TO ENTER AGREEMENTS AND MANAGEMENT OF RIITS

16.1. LACMTA as the Administrator is authorized to execute Member, Associate, and User agreements which contain provisions regarding guidelines, protocols, terms and conditions on use of RIITS that have been approved by the CM Committee on behalf of all Members and Associates, including Carson.

16.2. Carson hereby acknowledges that Administrator or any successor Administrator selected by the CM Committee is delegated authority to provide for the day-to-day operation, maintenance, management, and monitoring of RIITS, codify system changes, provide administrative support to the CM Committee, execute related agreements, and enforce the terms and conditions of agreements.

17. GOVERNING LAW

The Agreement has been negotiated, entered into, and shall be performed, within the State of California, and as such California substantive and procedural law shall apply, except to the extent preempted or superseded by federal law. By entering into the Agreement, the Parties consent and submit to the jurisdiction of the courts of the State of California, County of Los Angeles, over any action at law, suit in equity, and/or other proceeding that may arise out of the Agreement.

18. SEVERABILITY

In the event any article, section, sub-article, paragraph, sentence, clause, phrase contained in the Agreement shall be determined, declared, adjudged invalid, illegal, unconstitutional, or otherwise void, such determination, declaration, or adjudication shall in no manner affect the other articles, sections, sub-articles, paragraphs, sentences, clauses, or phrases of the Agreement, which shall remain in full force and effect as if the article, section, sub-article, paragraph, sentence, clause, or phrase declared, determined, or adjudged invalid, illegal, unconstitutional, or otherwise void, was not originally contained in the Agreement.

19. ENTIRE AGREEMENT

This Agreement constitutes the entire understanding between Carson and the Administrator regarding RIITS, and supersedes any and all previous and contemporaneous agreements, whether written or oral, and all communications between the Parties regarding RIITS.

20. BINDING ON SUCCESSORS AND ASSIGNS

This Agreement shall run to the benefit of and be binding upon any successors and assigns.

21. CONTACT INFORMATION

Notices under this Agreement shall be sent by first-class U.S. mail, postage prepaid, to the Carson contact and to the Administrator, at the address specified. Each Party will notify the other in writing of changes to their designated contact person. Notices shall be deemed effective five business days after such mailing.

Contact information regarding any aspects of this Agreement is as follows:

21.1. Carson Contact Information

Carson may provide a primary and a technical contact. Carson contact information is as follows:

21.1.1. Primary Contact Name

Name:	City of Carson
Contact Name:	Mr. Ian Holst
Title:	Associate Civil Engineer
Address:	701 E Carson Street Carson, CA 90745
Telephone:	(310) 847-3539
Email:	iholst@carsonca.gov

21.1.2. Technical Contact Name

Name:	City of Carson
Contact Name:	Mr. Gilbert M. Marquez
Title:	City Engineer
Address:	701 E Carson Street Carson, CA 90745
Telephone:	(310) 952-1700 x1713
Email:	gmarquez@carsonca.gov

21.2. LACMTA in its capacity as RIITS Administrator Contact

Agency Name:	Los Angeles County Metropolitan Transportation Authority
Contact Name:	Mr. Kali Fogel
Title:	RIITS Administrator
Address:	1 Gateway Plaza Los Angeles, CA 90012
Telephone:	(213) 922-2665
Email:	fogelk@metro.net

22. ELECTRONIC SIGNATURES

Each Party agrees that electronic signatures, whether digital or encrypted, of the Parties included in this Agreement are intended to authenticate this writing and to have the same force and effect as manual signatures. Delivery of a copy of this Agreement or any other document contemplated hereby bearing an original or electronic signature by facsimile, by electronic mail in "portable document format" (".pdf") form, or by any other electronic means intended to preserve the original graphic and pictorial appearance of a document, will have the same effect as physical delivery of the paper document bearing an original or electronic signature.

IN WITNESS WHEREOF, the Parties have caused this Agreement to be executed by their duly authorized representatives as of the dates indicated below.

Los Angeles County Metropolitan Transportation Authority, in its capacity as the duly authorized RIITS Administrator

STEPHANIE WIGGINS
CHIEF EXECUTIVE OFFICER

By:

Steven Gota Date
Executive Officer

City of Carson

Lula Davis-Holmes Date
Mayor

Report to Honorable Mayor and City Council

Tuesday, March 17, 2026, 5:00 PM

CONSENT 21.

To: Honorable Mayor and City Council

From: Dr. Arlington Rodgers, Director of Public Works PW Engineering

Subject: CONSIDER AUTHORIZING STAFF TO ADVERTISE FOR CONSTRUCTION BIDS FOR PROJECT NO. 1776 - CALAS PARK STORMWATER AND WATER QUALITY IMPROVEMENTS SUPPLEMENTAL ENVIRONMENTAL PROJECT, APPROVE REQUIRED CEQA ACTIONS, AND APPROVE A USE AND MAINTENANCE AGREEMENT WITH THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT (CITY COUNCIL)

I. SUMMARY

Project No. 1776, titled the Calas Park Stormwater and Water Quality Improvements - Supplemental Environmental Project, is part of the City's Capital Improvement Program (CIP). The CIP is the City's program for planning and building major public improvements such as park upgrades, roadway repairs, and infrastructure projects that benefit the community. This project is funded through an Administrative Civil Liability payment from the Los Angeles County Sanitation Districts (Exhibit No. 1). This funding source results from a regulatory settlement and must be used for projects that improve stormwater quality and help protect local waterways and the environment.

The purpose of this project is to improve how stormwater/rainwater that runs off streets, sidewalks, and other hard surfaces, is captured and treated before it is released into the regional drainage system. The project includes the installation of underground stormwater diversion systems that will redirect runoff into a treatment chamber located beneath the baseball field at Calas Park. Inside this underground chamber, the stormwater will pass through filtration and treatment systems designed to remove pollutants and debris before the water is discharged by the City into the storm drain system. These improvements will help improve local water quality and support the City's compliance with state and regional stormwater regulations. In addition to the stormwater treatment improvements, the project also includes several park enhancements intended to improve accessibility, safety, and the overall appearance of the park. These improvements include constructing a new landscaped planter area near the tennis courts, installing a new walkway to improve access within the park, upgrading fencing in certain areas, and planting new trees to enhance the park environment.

The Plans, Specifications, and Engineer's Estimates (PS&E) for Project No. 1776 have been completed and the project is ready to move forward to the construction bidding phase. The PS&E are the detailed engineering drawings and technical construction documents that contractors use to prepare their bids and build the project according to the City's requirements. These documents are on file in the City Engineer's office. The estimated construction cost for the project is $6,102,502, which includes a 10 percent contingency to cover potential unforeseen conditions that may arise during construction.

The project has also completed the required environmental review under the California Environmental Quality Act (CEQA), which is a state law that requires public agencies to evaluate potential environmental impacts of proposed projects. Compliance with CEQA for this project was achieved through preparation of an Initial Study and Mitigated Negative Declaration (Exhibit No. 2). This environmental document concluded that the project will not have significant environmental impacts if certain mitigation measures are implemented. Following project approval, the City will file a Notice of Determination with the Los Angeles County Clerk and the State Clearinghouse (Exhibit No. 3). Filing this notice formally documents that the City has completed the CEQA review process.

Because several of the stormwater diversion connections will link to storm drains that are owned and operated by the Los Angeles County Flood Control District (LACFCD), the City must obtain permits from that agency before construction can begin. In order to obtain these permits, the City must enter into a Use and Maintenance Agreement with LACFCD (Exhibit No. 4). This agreement establishes the City's responsibility for operating and maintaining the stormwater diversion improvements after they are constructed.

At this time, City Council is being asked to authorize staff to move forward with the next steps needed to implement the project. Specifically, the City Council is requested to authorize staff to advertise the project for construction bids, authorize the execution and recording of the required CEQA documents, and approve the Use and Maintenance Agreement with the Los Angeles County Flood Control District so that the project may proceed to construction.

II. RECOMMENDATION

TAKE the following actions:

1. AUTHORIZE staff to advertise the project and invite construction bids for Project No. 1776 – Calas Park Stormwater and Water Quality Improvements Supplemental Environmental Project;
2. APPROVE the California Environmental Quality Act (CEQA) Initial Study and Mitigated Negative Declaration (MND) for the proposed project, which confirms that the project will not have significant environmental impacts when required mitigation measures are implemented;
3. AUTHORIZE staff to file and record a Notice of Determination for the project with the Los Angeles County Clerk and the State Clearinghouse at the Governor's Office of Planning and Research, as required under CEQA following project approval;
4. APPROVE the Use and Maintenance Agreement with the Los Angeles County Flood Control District, which allows the project to connect to and utilize the County's storm drain system and establishes the City's responsibility for maintaining the related stormwater improvements; and,
5. AUTHORIZE the Mayor to execute the Use and Maintenance Agreement with the Los Angeles County Flood Control District, subject to approval as to form by the City Attorney.

III. ALTERNATIVES

1. DO NOT APPROVE the above recommendations. However, staff will not be able to proceed with the construction of the project.
2. TAKE another action the City Council deems appropriate, consistent with the requirements of the law.

IV. BACKGROUND

Project No. 1776, titled Calas Park Stormwater and Water Quality Improvements, is included in the City's Capital Improvement Program (CIP) for Fiscal Year 2025-2026. The CIP is the City's long-term program used to plan and construct major public improvements such as park upgrades, roadway repairs, and infrastructure projects that serve the community. This project is funded through the Los Angeles County Sanitation Districts as part of a Supplemental Environmental Project, and the estimated cost to construct the improvements is $6,102,502.

The primary purpose of Project No. 1776 is to improve stormwater management and water quality within the City. Stormwater is rainwater that flows off streets, sidewalks, parking lots, and other hard surfaces and can carry pollutants such as trash, oil, and sediment into the storm drain system and nearby waterways. The project includes the installation of underground stormwater diversion systems, which will capture runoff and direct it into a treatment chamber located beneath the baseball field at Calas Park. Within this chamber, the stormwater will be temporarily detained and filtered to remove pollutants before being released into the Dominguez Channel, a regional waterway that ultimately conveys water to the Pacific Ocean.

In addition to the underground stormwater treatment system, the project will include a new landscaped planter area designed to collect stormwater runoff from nearby streets. This planter area will allow water to naturally filter through soil and vegetation, which helps remove pollutants before the water enters the storm drain system. The project also includes several above-ground improvements that will enhance park accessibility, safety, and overall usability. These improvements include the construction of a new pedestrian pathway within the park, repairs to an existing pathway located near the underground treatment chamber, installation of a taller fence around the baseball field, and the planting of new trees throughout the project area to enhance the park environment.

On July 2, 2024, the City Council awarded a professional services contract to Craftwater Engineering to prepare the project's Plans, Specifications, and Engineer's Estimates (commonly referred to as PS&E). These documents include the detailed engineering drawings and technical requirements that contractors use to prepare construction bids and build the project according to the City's design standards. Craftwater Engineering has completed the PS&E, which have been reviewed and approved by the Engineering Services Division of the Public Works Department. The project is now ready to move forward to the construction bidding phase. Craftwater Engineering will also continue to support the City during construction by providing engineering and technical assistance as needed.

The project has completed the required environmental review under the California Environmental Quality Act (CEQA), which is a state law that requires public agencies to evaluate the potential environmental impacts of proposed projects. The environmental review concluded that the project will not result in significant environmental impacts when mitigation measures are implemented. This determination was documented through the preparation of an Initial Study and Mitigated Negative Declaration (MND). The MND was circulated for a required 30-day public review and comment period, which concluded on November 24, 2025. During this review period, the City received one public comment, which has since been addressed.

Because the project will connect to existing storm drain facilities owned and operated by the Los Angeles County Flood Control District (LACFCD), the City must obtain permits from LACFCD before construction can begin. As part of the permitting process, the City is required to accept LACFCD's terms for using the storm drain system and enter into a Use and Maintenance Agreement with LACFCD. Under this agreement, the City agrees to operate and maintain the new stormwater diversion structures once they are constructed. The agreement has been reviewed and approved by the City Attorney and is now ready for City Council consideration and approval.

At this time, City Council is being asked to authorize staff to move forward with the next steps necessary to implement the project. Specifically, staff is requesting authorization to advertise the project for construction bids, authorize the signing and recording of documents required to complete the CEQA process, and approve the Use and Maintenance Agreement with the Los Angeles County Flood Control District so that the project may proceed to construction.

V. FISCAL IMPACT

No funding approval is being requested as part of this staff report at this time. Instead, staff is requesting authorization from the City Council to advertise the project for construction bids. The current preliminary estimate for construction of the project is $6,102,502. Funding for this project is primarily being provided through a regulatory settlement associated with stormwater compliance. On January 17, 2024, the California Regional Water Quality Control Board - Los Angeles Region issued Order No. R4-2023-0088, which established an Administrative Civil Liability (ACL) Order related to stormwater management requirements. Under this order, the Los Angeles County Flood Control District (LACFCD) agreed to provide $5,980,000 to the City of Carson to implement Project No. PW1776 - Calas Park Stormwater and Water Quality Improvements Supplemental Environmental Project. These funds are being held and distributed through an escrow agreement (Exhibit No. 5), which ensures that the funding is used specifically for the approved environmental improvement project. A portion of the ACL funding has already been used to complete the project design. The City previously awarded a design contract to Craftwater Engineering to prepare the project's detailed engineering plans, specifications, and cost estimates. The design contract totaled $719,942, which was paid from the ACL funds. After accounting for this design cost, approximately $5,260,058 remains available from the ACL funding source to support construction of the project. If the final construction cost exceeds the remaining ACL funds, any additional costs will be covered using Measure W funding. Measure W is a voter-approved funding program in Los Angeles County that supports projects designed to improve stormwater capture, water quality, and regional water sustainability.

Construction of the project is currently anticipated to begin in summer 2026, following completion of the bidding process and award of a construction contract. The construction funding for this project will be formally incorporated into the City's Fiscal Year 2026-2027 Capital Improvement Program (CIP) budget as part of the City's annual budget development and approval process.

VI. EXHIBITS

1. Location Map
2. Initial Study/Mitigated Negative Declaration
3. Notice of Determination
4. Use and Maintenance Agreement
5. Calas Park SEP Escrow Agreement

Attachments

Exhibit 1 - Location Map

Exhibit 2 - Initial Study/Mitigated Negative Declaration

Exhibit 3 - Notice of Determination

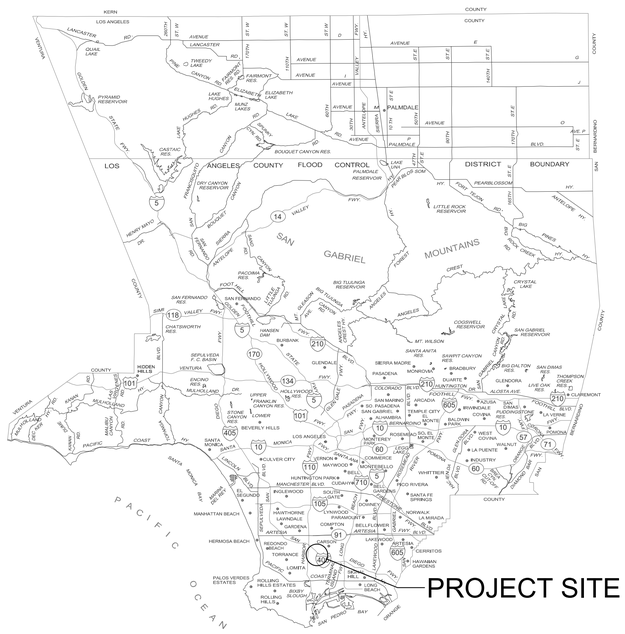
Exhibit 4 - Use and Maintenance Agreement

Exhibit 5 - Calas Park SEP Escrow Agreement

REVIEWED & RECOMMENDED BY:	APPROVED BY:
ROLAND JEN, PE – STORMWATER ENGINEER DATE	GILBERT M. MARQUEZ, PE – CITY ENGINEER DATE

CITY OF CARSON

CALAS PARK STORMWATER AND WATER QUALITY IMPROVEMENTS
SUPPLEMENTAL ENVIRONMENTAL PROJECT



VICINITY MAP

NOT TO SCALE

LOCATION MAP

1" = 100'

SHEET INDEX

PAGE #	SHEET #	SHEET TITLE
1	G-01	TITLE SHEET
2	G-02	GENERAL NOTES
3	V-01	EXISTING CONDITIONS
4	C-01	SITE PLAN
5	C-02	DEMOLITION PLAN
6	C-03	EROSION CONTROL PLAN
7	C-04	HORIZONTAL CONTROL PLAN
8	C-05	GRADING PLAN
9	C-06	BIOSWALE GRADING PLAN
10	C-07	UTILITY PLAN & PROFILE - ALIGNMENT A (I)
11	C-08	UTILITY PLAN & PROFILE - ALIGNMENT A (II)
12	C-09	UTILITY PLAN & PROFILE - ALIGNMENTS B & C
13	C-10	DETAILS 1
14	C-11	DETAILS 2
15	C-12	DETAILS 3
16	C-13	DETAILS 4
17	C-14	DETAILS 5
18	IR-01	IRRIGATION NOTES AND LEGEND
19	IR-02	IRRIGATION PLAN
20	ID-03	IRRIGATION DETAILS
21	ID-04	IRRIGATION DETAILS
22	LP-01	PLANTING NOTES AND LEGEND
23	LP-02	LANDSCAPE PLAN
24	LD-03	LANDSCAPE DETAILS
25	LD-04	LANDSCAPE DETAILS
26	E-01	GENERAL ELECTRICAL NOTES
27	E-02	ELECTRICAL LEGEND & ABBREVIATIONS
28	E-03	SINGLE LINE DIAGRAM
29	E-04	PANEL SCHEDULE AND LOADS
30	E-05	POWER & CONTROL PLAN VIEW
31	E-06	GROUNDING PLAN VIEW
32	E-07	CABLE & CONDUIT SCHEDULE
33	E-08	ELECTRICAL DETAILS I
34	E-09	ELECTRICAL DETAILS II
35	S-01	STRUCTURAL GENERAL NOTES AND LOAD CRITERIA
36	S-02	STRUCTURAL ABBREVIATIONS AND SPECIAL INSPECTIONS
37	S-03	STANDARD DETAILS
38	S-04	DIVERSION STRUCTURE PLANS
39	S-05	DIVERSION STRUCTURE SECTIONS
40	I-01	PID
41	I-02	DETAIL

100% PLANS

REGISTERED PROFESSIONAL ENGINEER
COURTNEY SEMLOW
C 94417
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED BY:

CRAFTWATER

BENCHMARK:

LOS ANGELES COUNTY BENCHMARK 7Y12504, ELEVATION 31.30 FEET (NAVD 88). L&SPK S'LY END C.B. 24FT S/O BCR @ SE COR AVALON BLVD & 223RD ST.

REVISIONS			
NO	DESCRIPTION	APPROVE	DATE

CITY OF CARSON

ENGINEERING SERVICES DIVISION

TITLE SHEET
CALAS PARK STORMWATER CAPTURE PROJECT

PROJECT NO.	SHEET	PLAN NO.
1776	1 of 41	G-01

Initial Study/Mitigated Negative Declaration

Calas Park Stormwater and Water Quality Improvements Supplemental Environmental Project

DECEMBER 2025

Prepared for:

CITY OF CARSON
Public Works Department
701 East Carson Street
Carson, California 90745
Contact: Roland Jen

Prepared by:

DUDEK

2280 Historic Decatur Road, Suite 200
San Diego, California 92106
Contact: Hayley Rundle

Table of Contents

SECTION **PAGE**

Acronyms and Abbreviations v

1 Introduction 1
- 1.1 Project Background and Overview 1
- 1.2 Purpose and Need 2
- 1.3 California Environmental Quality Act Compliance 2
  - 1.3.1 Authority to Prepare an MND 2
  - 1.3.2 Public Review and Final MND Process 2

2 Project Description 5
- 2.1 Project Location and Environmental Setting 5
- 2.2 Project Characteristics 5
  - 2.2.1 Stormwater Capture System 5
  - 2.2.2 Park Improvements 7
  - 2.2.3 Temporary Construction Access, Staging, and Park Closure 7
- 2.3 Construction Phasing and Schedule 7
- 2.4 Project Operation 8
- 2.5 Permits and Approvals 9

3 Initial Study Checklist 11
- 3.1 Aesthetics 15
- 3.2 Agriculture and Forestry Resources 17
- 3.3 Air Quality 18
- 3.4 Biological Resources 34
- 3.5 Cultural Resources 38
- 3.6 Energy 44
- 3.7 Geology and Soils 46
- 3.8 Greenhouse Gas Emissions 51
- 3.9 Hazards and Hazardous Materials 57
- 3.10 Hydrology and Water Quality 61
- 3.11 Land Use and Planning 64
- 3.12 Mineral Resources 65
- 3.13 Noise 65
- 3.14 Population and Housing 70
- 3.15 Public Services 72
- 3.16 Recreation 73
- 3.17 Transportation 74
- 3.18 Tribal Cultural Resources 80

3.19 Utilities and Service Systems 82
3.20 Wildfire 84
3.21 Mandatory Findings of Significance 86

4 References and Preparers 89
4.1 References Cited 89
4.2 List of Preparers 94

APPENDICES

A Air Quality and Greenhouse Gas Modeling
B Construction Health Risk Assessment Modeling
C Biological Resources Species List
D Calas Park Cultural Resources Inventory Report
E Energy Calculations
F Confidential Paleontological Resources Record Search
G Noise Assessment Data

FIGURES

1 Project Location 95
2 Project Site and Existing Features 97
3 Project Stormwater Capture and Treatment System 99
4 Vegetation Communities and Land Cover Types 101
5 Noise Measurement Locations 103

TABLES

2-1 Anticipated Construction Phasing and Equipment 8
3.3-1 SCAQMD Air Quality Significance Thresholds 21
3.3-2 Construction Scenario Assumptions 23
3.3-3 Estimated Maximum Daily Construction Criteria Air Pollutant Emissions - Unmitigated 25
3.3-4 Estimated Maximum Daily Operational Criteria Air Pollutant Emissions - Unmitigated 25
3.3-5 Construction Localized Significance Thresholds Analysis - Unmitigated 28
3.3-6 American Meteorological Society/Environmental Protection Agency Regulatory Model Principal Parameters 30
3.3-7 Construction Health Risk Assessment Results – Unmitigated 31
3.3-8 Construction Health Risk Assessment Results – Mitigated 32
3.5.1 Previous Technical Studies Within 1 Mile of the Project Site 39
3.5-2 Previously Recorded Cultural Resources Within 1 Mile of the Project Area 40
3.6-1 Total Proposed Project Construction Petroleum Demand 45

3.8-1 Estimated Annual Construction Greenhouse Gas Emissions 54
3.8-2 Estimated Annual Operational Greenhouse Gas Emissions 54
3.13-1 Measured Samples of Existing Outdoor Ambient Sound Level 66

INTENTIONALLY LEFT BLANK

Acronyms and Abbreviations

Acronym/Abbreviation	Definition
AB	Assembly Bill
AERMOD	American Meteorological Society/Environmental Protection Agency Regulatory Model
AQMP	air quality management plan
BMP	best management practice
CAAQS	California Ambient Air Quality Standards
CalEEMod	California Emissions Estimator Model
CAL FIRE	California Department of Forestry and Fire Protection
CARB	California Air Resources Board
CEQA	California Environmental Quality Act
CH_4	methane
CHRIS	California Historical Resources Information System
City	City of Carson
CO	carbon monoxide
CO_2	carbon dioxide
CO_2e	carbon dioxide equivalent
dBA	A-weighted decibel
DC WMG	Dominguez Channel Watershed Management Area Group
DPM	diesel particulate matter
EPA	U.S. Environmental Protection Agency
EWMP	Enhanced Watershed Management Program
FEMA	Federal Emergency Management Agency
GHG	greenhouse gas
GWP	global warming potential
HARP2	Hotspots Analysis and Reporting Program Version 2
HRA	health risk assessment
I	Interstate
ips	inches per second
IS	initial study
LCI	Governor's Office of Land Use and Climate Innovation
L_{eq}	equivalent noise level over a given period
LOS	level of service
LST	localized significance threshold
MM	Mitigation Measure
MND	mitigated negative declaration
MS4	Municipal Separate Storm Sewer System
MT	metric tons
N_2O	nitrous oxide
NAAQS	National Ambient Air Quality Standards
NAHC	Native American Heritage Commission

Acronym/Abbreviation	Definition
NHMLA	Natural History Museum of Los Angeles County
NO_2	nitrogen dioxide
NO_x	oxides of nitrogen
O_3	ozone
PM_{10}	particulate matter with an aerodynamic diameter equal to or less than 10 microns
$PM_{2.5}$	particulate matter with an aerodynamic diameter equal to or less than 2.5 microns
ppm	parts per million
PPV	peak particle velocity
PRC	California Public Resources Code
RTP/SCS	Regional Transportation Plan/Sustainable Communities Strategy
SB	Senate Bill
SCAB	South Coast Air Basin
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SCCIC	South Central Coastal Information Center
SLF	Sacred Lands File
SO_2	sulfur dioxide
SO_x	sulfur oxides
SWPPP	stormwater pollution prevention plan
TAC	toxic air contaminant
TCR	tribal cultural resource
VMT	vehicle miles traveled
VOC	volatile organic compound

1 Introduction

The City of Carson (City) has prepared this mitigated negative declaration (MND) to assess and disclose the potential impacts on the environment of the Calas Park Stormwater and Water Quality Improvements Supplemental Environmental Project (project) pursuant to the California Environmental Quality Act (CEQA) (California Public Resources Code [PRC] Section 21000, et. seq). This section of the MND provides information on project background, explains the project's purpose and need, and describes the City's CEQA obligations associated with approving and implementing the project.

1.1 Project Background and Overview

Calas Park is a public recreational facility maintained by the City's Parks and Recreation Department, located west of the Dominguez Channel. It is located in the southern portion of the City at 1000 East 220th Street, south of East 220th Street between Bonita Street and South Edgar Street. Additional information regarding Calas Park is provided in Section 2.1, Project Location and Environmental Setting. Calas Park amenities include a community center with an activity room and recreation room, playground equipment, two tennis courts, a basketball court, a soccer field, two baseball/softball fields, a wading pool, and restroom facilities. The majority of Calas Park is owned by the City, and the west side of Calas Park is in a utility easement maintained by Los Angeles City Department of Water and Power.

The project would divert and capture stormwater runoff from existing storm drains into a subterranean concrete basin proposed beneath the northeast corner of the baseball/softball and soccer outfields in the park. Prior to flowing into the subsurface basin, runoff would be directed through a pre-treatment device that would remove trash, sediments, and solids present in the runoff. An electric pump would be installed to return treated stormwater back to the existing catch basin. Other improvements associated with the stormwater capture infrastructure include installation of a vegetated bioswale north of the tennis courts to capture street runoff, planting of 11 new trees, and reconstructing the sidewalk and drain immediately west of the tennis courts to repair surface lifting and damage, and the accompanying drain on its edge.

Once the proposed stormwater capture and filtration facility is installed, the existing baseball/softball and soccer outfields would be replaced. The existing outfield fence along East 220th Street would be replaced with a 12-foot fence and ballfield turf removed for construction of the project would be replaced with city-provided soil and sod specifications, and a new booster pump to assist the existing irrigation system would be evaluated

The project is the result of the 2023 Settlement Agreement and Stipulation Order No. R4-2023-0088 (Stipulated Order) between the Sanitation Districts and the Los Angeles Regional Water Quality Control Board. The Sanitation Districts have agreed to provide funding for the City to implement the project workplan in response to violations occurring from discharge of untreated wastewater into the Dominguez Channel. The performance goal included in the Stipulated Order is for the project to capture and pre-treat 2.8 acre-feet of stormwater annually and infiltrate the stormwater onsite through the use of underground storage vaults, bioswales, rain gardens, and infiltration galleries.

The City is a member of the Dominguez Channel Watershed Management Area Group (DC WMG). The DC WMG formed to plan, implement, and manage water quality control projects in the Dominguez Channel watershed. The DC WMG is a collaborative effort of eight municipalities[1] and the Los Angeles County Flood Control District, which

[1] The DC WMG municipalities are County of Los Angeles, City of Los Angeles, City of Hawthorne, City of Inglewood, City of El Segundo, City of Lomita, City of Carson, and City of Lawndale.

respectively are governed by the Los Angeles County Municipal Separate Storm Sewer System (MS4) Permit (Order No. R4-2012-0175). The DC WMG prepared the Enhanced Watershed Management Program (EWMP) in 2016 (revised in June 2021) to plan and prioritize projects implementing the requirements of the MS4 permits on a watershed scale (DC WMG 2016). The MS4 permit sets effluent and receiving water limitations for municipal drainage systems in Los Angeles County, and requires permittees to establish plans to meet specific total maximum daily load requirements for discharge of pollutants in their respective receiving waters. This project has the potential to offer runoff storage and water quality benefits for the City and other DC WMG members, helping to achieve EWMP goals and MS4 permit compliance.

The City is implementing the project in their capacity as a result of the Stipulated Order between the Sanitation Districts and the Los Angeles Regional Water Quality Control Board and would be responsible for operating and maintaining the project facilities.

1.2 Purpose and Need

The project's primary purpose is to decrease the amount of pollutants in stormwater and dry-weather runoff entering the Dominguez Channel. The City's objectives in implementing the project are as follows:

- Comply with the requirements of the Stipulated Order
- Improve water quality within the Dominguez Channel
- Restore and rehabilitate park facilities
- Educate the public on the local stormwater issues

1.3 California Environmental Quality Act Compliance

1.3.1 Authority to Prepare an MND

Approval by the Carson City Council to issue a construction contract for the project constitutes a discretionary action that triggers environmental review requirements pursuant to CEQA, with the City serving as lead agency. The City prepared a CEQA initial study (IS) to analyze and consider the environmental impacts of implementing the project, which is included as Chapter 3 of this document. Based on the results of the IS, the City determined that an MND is the appropriate environmental document for compliance with CEQA. As stated in Section 21064 of the CEQA statute, an MND may be prepared for a project subject to CEQA when an IS has identified no potentially significant effects on the environment when mitigation is identified that can reduce impacts to less-than-significant levels.

1.3.2 Public Review and Final MND Process

The City is making the MND available for public review and comment pursuant to Section 15073 of the CEQA Guidelines. A physical copy of the MND may be reviewed at Carson City Hall, Planning Division, during regular business hours at 701 East Carson Street, California 90745. The MND and supporting appendices are also available for review on the City's website (https://ci.carson.ca.us/PublicWorks/CEQA.aspx). The City has identified a 30-day review and comment period for the MND commencing October 24, 2025 and terminating November 24, 2025.

Comments on the MND may be submitted to the City in writing before the end of the public review period. In reviewing and commenting on the MND, interested public agencies and members of the public should focus on the adequacy of the document in identifying and analyzing the project's potential impacts on the environment. Written comments on the IS/MND will be accepted in hard copy or email format, and should be received at the following street address or email address by 5:00 p.m., November 24, 2025:

City of Carson
701 East Carson Street
Carson, California 90745
Contact: Roland Jen
Email: rjen@ccarsonca.gov

Following the close of the public comment period, City staff will review all comments and may revise the MND if necessary to clarify the document's content. City staff will then prepare a final version of the MND that includes all comment letters received during the public review period and will send the MND to the City Council for adoption and consideration in their decision to approve the project.

The environmental impact review presented in this MND is based on an initial design of the stormwater capture project (90% design). As additional design is completed following the City Council's adoption of the MND, City staff will review project details, compare them to the information presented in the MND, and determine conformance with the project's CEQA record. Minor deviations from the design assumed in the MND may be addressed either by a consistency determination by City staff or by an addendum to the MND. If subsequent changes in the project are substantial to the extent that they "require major revisions of the previous…negative declaration due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects," then the City would be required by Section 15162 of the CEQA Guidelines to prepare a subsequent MND, initiate an additional CEQA public review period, and send the subsequent MND to the City Council for adoption.

INTENTIONALLY LEFT BLANK

2 Project Description

2.1 Project Location and Environmental Setting

The project is located in the southern portion of the City, which is in southwestern Los Angeles County, as shown in Figure 1, Project Location. The project site includes portions of East 220th Street between Bonita Street and South Edgar Street and covers approximately 5.87 acres, including the two baseball/softball outfields, the soccer field, the tennis courts, the basketball court, and the parking area at Calas Park. The park is in a developed part of the City that primarily features residential, commercial, office, and light industrial/warehousing uses and schools. The park is upside down L-shaped with a transmission line corridor running along the western portion of the park. The primary components of the park are concentrated in the north and northeast areas of the park. To the north, the park is bounded by East 220th Street, followed by Carnegie Middle School, a grassy area containing the transmission line corridor, and residential uses. To the south, the park is bounded by East Jay Street, followed by residential uses, and East 223rd Street, followed by light industrial/warehousing, office, and commercial uses. To the east, the park is bounded by South Edgar Street, followed by residential uses. To the west, the park is bounded by residential uses. Regional access to the park is from Interstate (I)-405, which is approximately 0.18 miles to the east; State Route 47, which is approximately 1.55 miles to the east; and I-110, which is 1.60 miles to the west; and I-710, which is approximately 2.72 miles to the east. The site is designated as Park/Open Space in the City General Plan Land Use Policy Map (City of Carson 2023) and is zoned as Open Space in the City Zoning Map (City of Carson 2017).

Calas Park features flat terrain and is approximately 8.80 acres. Existing park uses are shown in Figure 2, Project Site and Existing Features. The majority of the park is made up of baseball/softball fields, a soccer field that is configured in the outfield areas of the baseball/softball fields, the tennis courts, and the basketball court. An asphalt parking lot is located in the northeastern portion of the park accessed from East 220th Street, and features 16 regular parking spaces and two ADA parking spaces. There are paved walking paths, benches, and picnic tables throughout the park. Field lighting is provided from a series of light poles situated around the fields. Mature trees grow in various areas around the park. An irrigation system with underground pipes and sprinkler heads is in place throughout the park. The grass fields are currently used for formal sports leagues for youth and adults year-round.

2.2 Project Characteristics

The project entails constructing and operating a stormwater capture and treatment facility within the northern portion of Calas Park, as well as other ancillary park improvements. The project is currently in the final design phase, and the City has developed certain design and engineering assumptions for purposes of defining the project for informational purposes and conducting environmental impact review pursuant to CEQA. Actual details of the project may vary from the information provided below.

2.2.1 Stormwater Capture System

The stormwater capture and treatment facility would intercept stormwater and dry-weather flow from three existing underground storm drains, one north of the intersection of East 220th Street and Bonita Street; one along East 220th Street; and one north of the existing tennis courts where the proposed bioswale would be located, and a box culvert storm drain in East 220th Street and convey flows into an underground storage reservoir that would be

installed beneath the northeast corner of the baseball/softball and soccer outfields area. An electric pump would be installed to return treated stormwater back to the existing catch basin. The stormwater capture project features are shown in Figure 3, Proposed Stormwater Capture and Treatment System.

Stormwater Diversion Infrastructure and Pretreatment Devices

A 5.6 cubic feet per second concrete diversion pipeline with manhole access would be constructed within East 220th Street running from the intersection of East 220th Street and Bonita Street to north of the tennis courts at Calas Park. The diversion pipeline would be constructed to connect the proposed system to the existing 42-inch storm drain north of the intersection of East 220th Street and Bonita Street, the existing 24-inch storm drain located south of the intersection of East 220th Street and Foley Avenue intersection underneath Calas Park, and the existing 6' × 2.25' box culvert storm drain located west of the East 220th Street and Foley Avenue intersection under the north sidewalk. Diversion structures along the diversion pipeline would be underground concrete vaults encasing the existing storm drains and connecting the existing storm drains to the 18-inch-diameter underground diversion pipeline. The diversion structures would have a manhole for personnel and equipment access. The diversion structures and pipeline would carry water by gravity into an underground pretreatment unit installed along the diversion pipeline alignment inside a concrete vault with a manhole for personnel and equipment access. The pretreatment device is a 5.6 cubic feet per second hydrodynamic separator, which directs water through a screen to filter out large debris and into a cylindrical separation chamber where water swirls and forces particles out of the runoff, settling them in an isolated sump. Hydrocarbons float to the top of the water surface and are prevented from being transported downstream.

Storage Reservoir and Infiltration Galleries

After pretreatment, water would flow into a filter along the diversion line and then into an underground storage reservoir installed beneath the northeast corner of the baseball and soccer fields area. The underground storage reservoir would have a capacity of 1 acre-foot and would have an area of approximately 0.14 acres according to preliminary design information. The field surface would be removed, and earth material would be excavated, removed, and hauled off site for reuse or disposal. The excavation is anticipated to be 20 feet deep. The underground stormwater storage system would be formed as a series of precast cells made of reinforced, high-strength concrete that would be hauled to the site on flatbed trucks, lowered into place by a crane, and grouted together to form a single chamber. Once the system is installed and tested, the baseball/softball and soccer fields surfaces would be replaced and would continue to function as under current conditions.

A geotechnical evaluation of the project site concluded that soils beneath Calas Park are of insufficient infiltrative capability to allow for subgrade percolation (Ninyo & Moore 2025). The reservoir will be designed to facilitate filtration of captured stormwater. The storage reservoir will be supported on spread footings on compacted fill, in accordance with the geotechnical evaluation (Ninyo & Moore 2025).

Discharge System and Treatment

A pump station with an electric pump would be installed to pump treated stormwater to the existing catch basin. Water flowing back into the storm drain would be cleaner than when originally diverted, having been through a pre-treatment hydrodynamic separator system and cartridge filter system, as well as having been clarified while retained in the reservoir.

Bioswale

A vegetated bioswale would be installed north of the park's tennis courts and south of East 220th Street, featuring native vegetation and decorative boulders. The bioswale and permavoid located beneath the bioswale would capture and detain surface storm runoff from East 220th Street and a portion of the park and carry it to an inlet pipe connecting to the diversion pipeline to be filtered and stored within the stormwater capture system.

2.2.2 Park Improvements

The proposed park improvements would replace existing amenities with improved features that would allow for similar active and passive recreation uses as under existing conditions, but with an enhanced experience for park users. Once the stormwater capture system is installed, the existing baseball/softball and soccer outfields would be replaced. The existing outfield fence along East 220th Street would be replaced with a 12-foot fence and ballfield turf removed for construction of the project would be replaced with city-provided soil and fescue specifications, and a new booster pump to assist the existing irrigation system would be evaluated. The project would reconstruct the sidewalk and drain immediately west of the tennis courts to repair surface lifting and damage, and the accompanying drain on its eastern edge. A decomposed granite path would be installed on the east side of the tennis courts to provide a connection from the sidewalk into the park. A new landscaped area would be installed adjacent to the decomposed granite path between the tennis courts and parking lot. Two new benches would be installed adjacent to the bioswale area north of the tennis courts and 11 new trees would be planted within the project area.

2.2.3 Temporary Construction Access, Staging, and Park Closure

Construction access would be provided from East 220th Street. Temporary equipment staging and construction trailers would be established within the existing park boundary, with no additional off-site staging anticipated to be needed. The baseball and soccer fields are expected to be closed to the public for the duration of project construction, which is anticipated to be 14 months. The remaining portions of the park (tennis courts, basketball courts, the parking lot, and the existing structures) would be open to the public during construction.

2.3 Construction Phasing and Schedule

Table 2-1 presents the anticipated construction phasing, equipment usage, and duration assumed for the project for purposes of environmental impact analysis in this MND. These assumptions were developed in consultation with the project design engineers for consideration in Section 3.3, Air Quality; Section 3.6, Energy; Section 3.8, Greenhouse Gas Emissions; and Section 3.13, Noise. The total duration of project construction is anticipated to be approximately 14 months, with some phases overlapping. Typical construction work hours would be Monday through Friday, 7:00 a.m. to 6:00 p.m. Night work is not anticipated. Temporary partial road closures for construction of the project would be performed pursuant to a traffic control plan prepared by the construction contractor and subject to City approval. Construction is anticipated to begin in October 2026 with a duration of approximately 14 months.

Table 2-1. Anticipated Construction Phasing and Equipment

Construction Phase	Anticipated Equipment	Estimated Duration
Demolition of existing field and structures	Dozer	10 weeks
	Grader	
	Skid steer loader	
	Haul trucks	
Site preparation, clearing, and grubbing	Dozer	4 weeks
	Tractor/loader/backhoe	
	Jack hammer	
	Haul trucks	
Reservoir excavation	Dozer	14 weeks
	Tractor/loader/backhoe	
	Skid steer loader	
	Haul trucks	
Reservoir construction	Crane	10 weeks
	Dozer	
	Skid steer loader	
Installation of pipe, diversion structures, pre-treatment facility, pump, and bioswale overflow inlet	Crane	10 weeks
	Trencher	
	Skid steer loader	
	Haul trucks	
Outlet line construction	Dozer	4 weeks
	Skid steer loader	
	Tractor/loader/backhoe	
Field replacement, bioswale planting/landscaping, and other site improvement	Grader	16 weeks
	Skid steer loader	
	Pavers	
	Paving equipment	
	Rollers	
	Turf aerator	
	Spreader sprayer	
	Telehandler	
	Cement mixer	
	Boom lift	

2.4 Project Operation

Once construction is complete, project operation is anticipated to entail routine maintenance performed by the City at the stormwater capture facility and other park features. Routine maintenance and operations would require up to two workers. Reservoir maintenance would entail removal of debris and pollutant constituents from the treatment devices, pump testing and calibration, and cleaning the storage reservoir.

2.5 Permits and Approvals

The City of Carson is the CEQA lead agency, with the Carson City Council holding primary responsibility for adopting this MND and approving commencement of project construction. The project will also require the issuance of an excavation permit and an encroachment permit by the City for the proposed digging and construction within the public right-of-way. Other public agency approvals include the following:

- A Major Modification Permit issued by the Los Angeles County Flood Control District
- The State Water Resources Control Board will serve as a responsible agency under CEQA for their approval of a stormwater pollution prevention plan (SWPPP) in compliance with the Construction General Permit.

INTENTIONALLY LEFT BLANK

3 Initial Study Checklist

1. **Project title:**

   Calas Park Stormwater and Water Quality Improvements Supplemental Environmental Project

2. **Lead agency name and address:**

   City of Carson
   701 East Carson Street
   Carson, California 90745

3. **Contact person and phone number:**

   Roland Jen
   Public Works Department
   701 East Carson Street
   Carson, California 90745

4. **Project location:**

   The project is located in the southern portion of the City of Carson within a portion of the existing Calas Park at 1000 East 220th Street, Carson, California.

5. **Project sponsor's name and address:**

   City of Carson
   701 East Carson Street
   Carson, California 90745

6. **General plan designation:**

   Park/Open Space

7. **Zoning:**

   Open Space

8. **Description of project. (Describe the whole action involved, including but not limited to later phases of the project, and any secondary, support, or off-site features necessary for its implementation. Attach additional sheets if necessary):**

   Refer to Chapter 2, Project Description, above.

9. **Surrounding land uses and setting: Briefly describe the project's surroundings:**

   Refer to Section 2.1, Project Location and Environmental Setting, above.

10. **Other public agencies whose approval is required (e.g., permits, financing approval, or participation agreement):**

    Los Angeles County Flood Control District; State Water Resources Control Board

11. **Have California Native American tribes traditionally and culturally affiliated with the project area requested consultation pursuant to Public Resources Code section 21080.3.1? If so, is there a plan for consultation that includes, for example, the determination of significance of impacts to tribal cultural resources, procedures regarding confidentiality, etc.?**

    Refer to Sections 3.5 and 3.18, below.

Environmental Factors Potentially Affected

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact," as indicated by the checklist on the following pages.

☐ Aesthetics	☐ Agriculture and Forestry Resources	☐ Air Quality
☐ Biological Resources	☐ Cultural Resources	☐ Energy
☐ Geology and Soils	☐ Greenhouse Gas Emissions	☐ Hazards and Hazardous Materials
☐ Hydrology and Water Quality	☐ Land Use and Planning	☐ Mineral Resources
☐ Noise	☐ Population and Housing	☐ Public Services
☐ Recreation	☐ Transportation	☐ Tribal Cultural Resources
☐ Utilities and Service Systems	☐ Wildfire	☐ Mandatory Findings of Significance

Determination (To be completed by the Lead Agency)

On the basis of this initial evaluation:

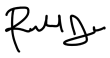
☐ I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.

☒ I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.

☐ I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.

☐ I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect (1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and (2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.

☐ I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier ENVIRONMENTAL IMPACT REPORT or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier ENVIRONMENTAL IMPACT REPORT or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.



Signature

10/08/2025

Date

Evaluation of Environmental Impacts

1. A brief explanation is required for all answers except "No Impact" answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A "No Impact" answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A "No Impact" answer should be explained where it is based on project-specific factors as well as general standards (e.g., the project would not expose sensitive receptors to pollutants, based on a project-specific screening analysis).
2. All answers must take account of the whole action involved, including off-site as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.
3. Once the lead agency has determined that a particular physical impact may occur, then the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. "Potentially Significant Impact" is appropriate if there is substantial evidence that an effect may be significant. If there are one or more "Potentially Significant Impact" entries when the determination is made, an Environmental Impact Report (EIR) is required.
4. "Negative Declaration: Less Than Significant With Mitigation Incorporated" applies where the incorporation of mitigation measures has reduced an effect from "Potentially Significant Impact" to a "Less Than Significant Impact." The lead agency must describe the mitigation measures, and briefly explain how they reduce the effect to a less than significant level.
5. Earlier analyses may be used where, pursuant to the tiering, program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or negative declaration. Section 15063(c)(3)(D). In this case, a brief discussion should identify the following:
    a. Earlier Analysis Used. Identify and state where they are available for review.
    b. Impacts Adequately Addressed. Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.
    c. Mitigation Measures. For effects that are "Less Than Significant With Mitigation Measures Incorporated," describe the mitigation measures which were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the project.
6. Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g., general plans, zoning ordinances). Reference to a previously prepared or outside document should, where appropriate, include a reference to the page or pages where the statement is substantiated.
7. Supporting Information Sources: A source list should be attached, and other sources used or individuals contacted should be cited in the discussion.
8. This is only a suggested form, and lead agencies are free to use different formats; however, lead agencies should normally address the questions from this checklist that are relevant to a project's environmental effects in whatever format is selected.
9. The explanation of each issue should identify:
    a. the significance criteria or threshold, if any, used to evaluate each question; and
    b. the mitigation measure identified, if any, to reduce the impact to less than significance

3.1 Aesthetics

		Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
I.	**AESTHETICS** – Except as provided in Public Resources Code Section 21099, would the project**:**				
a)	Have a substantial adverse effect on a scenic vista?	☐	☐	☒	☐
b)	Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?	☐	☐	☐	☒
c)	In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?	☐	☐	☐	☒
d)	Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	☐	☐	☒	☐

a) Would the project have a substantial adverse effect on a scenic vista?

Less-than-Significant Impact. Scenic vistas generally refer to views of expansive open space areas or other natural features, such as mountains, undeveloped hillsides, large natural water bodies, or coastlines. Certain urban settings or features, such as a striking or renowned skyline, may also represent a scenic vista. Scenic vistas are generally accessible from public vantage points, such as public roadways and parks. The City's General Plan Open Space and Environmental Conservation Element, which provides guidance and policies for the management of the City's natural resources, does not specifically list or identify any designated scenic vistas or specific scenic resources within the City. Calas Park is in a predominantly residential area of the City that features a single-family residential development, interspersed with commercial, industrial, and public uses. Project construction would result in temporary visual changes to the park, including the presence of excavated areas and staging of construction equipment. Upon completion of construction, these temporary visual changes would cease, and the visual quality of the project site would return to conditions similar to pre-construction conditions. The project's infrastructure would mostly be located underground and would not be visible during project operation. Other project components would include replacement of existing amenities with improved features, as described in Section 2.2.2, Park Improvements, which are intended in part as improvements to the visual environment. As such, impacts would be **less than significant**.

b) Would the project substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?

No Impact. There are no designated state scenic highways in the vicinity of the project site. The nearest eligible scenic highway is a segment of Highway 1 located approximately 7 miles southeast of the project site (Caltrans 2024). Due to intervening development and distance, the project site is not visible from this segment of Highway 1. Therefore, the project would not substantially damage scenic resources within a state scenic highway and **no impact** would occur.

c) In non-urbanized areas, would the project substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?

No Impact. Per PRC Section 21071, an "urbanized area" is defined as "(a) An incorporated city that meets either of the following criteria: (1) Has a population of at least 100,000 persons. [or] (2) Has a population of less than 100,000 persons if the population of that city and not more than two contiguous incorporated cities combined equals at least 100,000 persons." The project site is located in the incorporated City of Carson, which has a population of 95,558 persons as of the 2020 census (U.S. Census Bureau 2020). However, with the incorporation of the population of a contiguous city such as the City of Compton, which has a population of 95,740 as of the 2020 census, the project site is considered to be located in an urbanized area (U.S. Census Bureau 2020).

As discussed in Section 3.1(a), Aesthetics, above, the project site is not visible from any prominent public viewpoints. Temporary visible elements associated with the project include construction equipment, staging activities, and temporary fencing to be included for safety and security purposes. Visual impacts resulting from construction activities would be temporary, ceasing upon completion of construction.

The project would comply with any applicable zoning or other regulations governing scenic quality. The project site is not subject to overlay zones or other such designations specific to scenic resources or quality. The proposed stormwater capture and treatment facility would be located primarily underground. In addition, the project would include replacement of existing amenities with improved features as described in Section 2.2.2, Park Improvements, which would enhance the park's visual quality. The project would result in the continued use of the site as a park and would not substantially differ visually from its current use. Implementation of the project would not conflict with the applicable zoning and other regulations governing scenic quality. **No impact** would occur.

d) Would the project create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?

Less-than-Significant Impact. The project is located in an urban area with existing sources of nighttime lighting from roadways, residences, and the existing Calas Park. Existing lighting at Calas Park consists of lighting within facilities, including existing field lighting, and along pedestrian pathways for safety and security. No nighttime work would occur during construction of the project; therefore, construction activities would not result in a new source of nighttime light. The proposed project would not include removal, replacement, or installation of any lighting. The materials that would be used for the project would not be reflective in nature and would not serve as a new source of glare (such as large areas of glass). Therefore, impacts would be **less than significant**.

3.2 Agriculture and Forestry Resources

		Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
II.	**AGRICULTURE AND FORESTRY RESOURCES** – In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Dept. Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. Would the project:				
a)	Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?	☐	☐	☐	☒
b)	Conflict with existing zoning for agricultural use, or a Williamson Act contract?	☐	☐	☐	☒
c)	Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code Section 12220(g)), timberland (as defined by Public Resources Code Section 4526), or timberland zoned Timberland Production (as defined by Government Code Section 51104(g))?	☐	☐	☐	☒
d)	Result in the loss of forest land or conversion of forest land to non-forest use?	☐	☐	☐	☒
e)	Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?	☐	☐	☐	☒

a) ***Would the project convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?***

No Impact. According to the California Important Farmland Finder database, the project site and its immediate surroundings are classified as "Urban and Built-Up Land" (DOC 2025a). The project would not be located on land classified as Farmland pursuant to the Farmland Mapping and Monitoring Program and would therefore not convert any Farmland to non-agricultural use. **No impact** would occur.

b) Would the project conflict with existing zoning for agricultural use, or a Williamson Act contract?

No Impact. The project site is zoned Open Space. Surrounding Calas Park are areas zoned Residential – Single Family (City of Carson 2017). The City does not contain any lands zoned for agricultural use. There are no existing lands under a Williamson Act contract within the City. Therefore, the project would not conflict with existing zoning for agricultural use or a Williamson Act contract. **No impact** would occur.

c) Would the project conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code Section 12220(g)), timberland (as defined by Public Resources Code Section 4526), or timberland zoned Timberland Production (as defined by Government Code Section 51104(g))?

No Impact. The project site and surrounding areas are entirely urbanized, and are not zoned for nor contain any forest land or timberland. Therefore, the project would not conflict with or cause the rezoning or conversion of forest land or timberland. **No impact** would occur.

d) Would the project result in the loss of forest land or conversion of forest land to non-forest use?

No Impact**.** Refer to Section 3.2(c), Agriculture and Forestry Resources. **No impact** would occur.

e) Would the project involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?

No Impact. Refer to Sections 3.2(a) through 3.2(d). The project site is located in an urbanized area with no existing agricultural uses, Farmland, or forest lands in the vicinity. The City does not contain any lands zoned for agricultural uses. Therefore, the project would not involve other changes that could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use. **No impact** would occur.

3.3 Air Quality

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
III. AIR QUALITY – Where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to make the following determinations. Would the project:				
a) Conflict with or obstruct implementation of the applicable air quality plan?	☐	☐	☒	☐
b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?	☐	☐	☒	☐

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
c) Expose sensitive receptors to substantial pollutant concentrations?	☐	☒	☐	☐
d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	☐	☐	☒	☐

This section is based on technical analysis conducted by Dudek, including quantitative estimates of air pollutant emissions based on assumptions developed in consultation with the project design engineers. The results of the emissions estimates are provided as Appendix A, Air Quality and Greenhouse Gas Modeling, and Appendix B, Construction Health Risk Assessment Modeling, to this MND.

a) Would the project conflict with or obstruct implementation of the applicable air quality plan?

Less-than-Significant Impact. The project site is located within the South Coast Air Basin (SCAB), which includes all of Orange County and the western, non-desert portions of Los Angeles, Riverside, and San Bernardino Counties. The site is within the jurisdictional boundaries of the South Coast Air Quality Management District (SCAQMD).

The SCAQMD administers the SCAB's air quality management plan (AQMP), which is a comprehensive document outlining an air pollution control program for attaining the California Ambient Air Quality Standards (CAAQS) and National Ambient Air Quality Standards (NAAQS). The most recently adopted AQMP for the SCAB is the 2022 AQMP (SCAQMD 2022). The 2022 AQMP provides the regional path towards improving air quality and meeting federal standards for air pollutants. The 2022 AQMP builds upon measures already in place from previous AQMPs. It also includes a variety of additional strategies such as regulation, accelerated deployment of available cleaner technologies (e.g., zero emissions technologies, when cost-effective and feasible, and low oxides of nitrogen [NO_x] technologies in other applications), best management practices (BMPs), co-benefits from existing programs (e.g., climate and energy efficiency), incentives, and other Clean Air Act measures to achieve the 2015 federal ozone (O_3) standard by 2037 (SCAQMD 2022).

The purpose of a consistency finding with regard to the AQMP is to determine if a project is consistent with the assumptions and objectives of the 2022 AQMP, and if it would interfere with the region's ability to comply with federal and state air quality standards. The SCAQMD has established criteria for determining consistency with the currently applicable AQMP in Chapter 12, Sections 12.2 and 12.3 of the SCAQMD CEQA Air Quality Handbook. These criteria are as follows (SCAQMD 1993):

- Consistency Criterion No. 1: Whether the project would result in an increase in the frequency or severity of existing air quality violations, cause or contribute to new violations, or delay timely attainment of the ambient air quality standards or interim emission reductions in the AQMP.
- Consistency Criterion No. 2: Whether the project would exceed the assumptions in the AQMP or increments based on the year of project buildout and phase.

To address the first criterion, project-generated criteria air pollutant emissions have been estimated and analyzed for significance and are addressed under Section 3.3(b), Air Quality. Detailed results of this analysis are included in Appendix A, Air Quality and Greenhouse Gas Modeling. As presented in that analysis and summarized in Section 3.3(b), Air Quality, the proposed project would not generate construction or operational criteria air pollutant emissions that exceed the SCAQMD's thresholds, and the project would therefore be consistent with Criterion No. 1.

The second criterion regarding the potential of the proposed project to exceed the assumptions in the AQMP or increments based on the year of project buildout and phase is primarily assessed by determining consistency between the proposed project's land use designations and its potential to generate population growth. In general, projects are considered consistent with, and not in conflict with or obstructing implementation of, the AQMP if the growth in socioeconomic factors is consistent with the underlying regional plans used to develop the AQMP (SCAQMD 1993). The SCAQMD primarily uses demographic growth forecasts for various socioeconomic categories (e.g., population, housing, and employment by industry) developed by the Southern California Association of Governments (SCAG) for its Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS). Thus, demographic growth forecasts for various socioeconomic categories (e.g., population, housing, employment by industry) developed by SCAG for their 2020–2045 Regional Transportation Plan/Sustainable Community Strategy (RTP/SCS) were used to estimate future emissions in the 2022 AQMP (SCAQMD 2022; SCAG 2020).[2,3] The SCAG 2020–2045 RTP/SCS, and associated Regional Growth Forecast, are generally consistent with the local plans; therefore, the 2022 AQMP is generally consistent with local government plans.

The project would not change the existing use of Calas Park and would be consistent with the underlying land use and zoning designations. Upon completion, project operation is anticipated to entail routine maintenance, which would require up to two workers for operations and maintenance. Therefore, the project would not result in substantial unplanned population growth in the area. Accordingly, the project does not conflict with the SCAG RTP/SCS forecasts used in the SCAQMD AQMP development and does not propose activities that would induce additional population in the project area. Impacts would be **less than significant**.

b) Would the project result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?

Less-than-Significant Impact. Air pollution is largely a cumulative impact. The nonattainment status of regional pollutants is a result of past and present development, and the SCAQMD develops and implements plans for future attainment of ambient air quality standards. Based on these considerations, project-level thresholds of significance for criteria pollutants are used to determine whether a project's individual emissions would have a cumulatively considerable contribution to air quality. If a project's emissions would

2 SCAG adopted Connect SoCal 2024, the 2024–2050 RTP/SCS (SCAG 2024), but the growth projections therein have not yet been incorporated into an adopted AQMP.

3 Information necessary to produce the emission inventory for the SCAB is obtained from the SCAQMD and other governmental agencies, including CARB, the California Department of Transportation, and SCAG. Each of these agencies is responsible for collecting data (e.g., industry growth factors, socioeconomic Projections, travel activity levels, emission factors, emission speciation profile, and emissions) and developing methodologies (e.g., model and demographic forecast improvements) required to generate a comprehensive emissions inventory. SCAG incorporates these data into their Travel Demand Model for estimating/projecting vehicle miles traveled and driving speeds. SCAG's socioeconomic and transportation activities Projections in their 2020–2045 RTP/SCS are integrated in the 2022 AQMP (SCAQMD 2022).

exceed the SCAQMD significance thresholds, it would be considered to have a cumulatively considerable contribution. Conversely, projects that do not exceed the project-specific thresholds are generally not considered to be cumulatively significant (SCAQMD 2003).

A quantitative analysis was conducted to determine whether the proposed project might result in emissions of criteria air pollutants that may cause exceedances of the NAAQS or CAAQS, or cumulatively contribute to existing nonattainment ambient air quality standards. Criteria air pollutants include O_3, nitrogen dioxide (NO_2), carbon monoxide (CO), sulfur dioxide (SO_2), particulate matter with an aerodynamic diameter less than or equal to 10 microns (PM_{10}), particulate matter with an aerodynamic diameter less than or equal to 2.5 microns ($PM_{2.5}$), and lead. Pollutants that are evaluated herein include volatile organic compounds (VOCs) and NO_x, which are important because they are precursors to O_3, as well as CO, sulfur oxides (SO_x), PM_{10}, and $PM_{2.5}$.

Regarding NAAQS and CAAQS attainment status,[4] the SCAB is designated as a nonattainment area for national and California O_3 standards and $PM_{2.5}$ standards. The SCAB is designated as a nonattainment area for California PM_{10} standards; however, it is designated as an attainment area for national PM_{10} standards. The SCAB is designated as an attainment area for national and California CO standards, national and California NO_2 standards, and national and California SO_2 standards (EPA 2025; CARB 2023). Although southern Los Angeles County, where the project is located, has been designated as nonattainment for the federal rolling 3-month average lead standard, it is designated attainment for the state lead standard.[5]

The proposed project would result in emissions of criteria air pollutants for which the California Air Resources Board (CARB) and U.S. Environmental Protection Agency (EPA) have adopted ambient air quality standards (i.e., the NAAQS and CAAQS). Projects that emit these pollutants have the potential to cause, or contribute to, violations of these standards. SCAQMD has established Air Quality Significance Thresholds, as revised in March 2023, that set forth quantitative emission significance thresholds below which a project would not have a significant impact on ambient air quality (SCAQMD 2023). The quantitative air quality analysis provided herein applies the SCAQMD thresholds identified in Table 3.3-1 to determine the potential for the project to result in a significant impact under CEQA.

Table 3.3-1. SCAQMD Air Quality Significance Thresholds

Criteria Pollutants Mass Daily Thresholds		
Pollutant	**Construction (pounds per day)**	**Operation (pounds per day)**
VOCs	75	55
NO_x	100	55
CO	550	550
SO_x	150	150
PM_{10}	150	150

[4] An area is designated as in attainment when it is in compliance with the NAAQS and/or the CAAQS. These standards for the maximum level of a given air pollutant that can exist in the outdoor air without unacceptable effects on human health or the public welfare are set by the EPA and CARB, respectively. Attainment = meets the standards; attainment/maintenance = achieves the standards after a nonattainment designation; nonattainment = does not meet the standards.

[5] Re-designation of the lead NAAQS designation to attainment for the Los Angeles County portion of the SCAB is expected based on current monitoring data. The phase-out of leaded gasoline started in 1976. Since gasoline no longer contains lead, the project is not anticipated to result in impacts related to lead; therefore, it is not discussed in this analysis.

Table 3.3-1. SCAQMD Air Quality Significance Thresholds

Criteria Pollutants Mass Daily Thresholds		
$PM_{2.5}$	55	55
Lead[a]	3	3
Toxic Air Contaminants (TACs) and Odor Thresholds		
TACs[b]	Maximum incremental cancer risk ≥10 in 1 million Cancer Burden > 0.5 excess cancer cases (in areas ≥1 in 1 million) Chronic and acute hazard index ≥1.0 (Project increment)	
Odor	Project creates an odor nuisance pursuant to SCAQMD Rule 402	
Ambient Air Quality Standards for Criteria Pollutants[c]		
NO_2 1-hour average NO_2 annual arithmetic mean	SCAQMD is in attainment; Project is significant if it causes or contributes to an exceedance of the following attainment standards: 0.18 ppm (state) 0.030 ppm (state) and 0.0534 ppm (federal)	
CO 1-hour average CO 8-hour average	SCAQMD is in attainment; Project is significant if it causes or contributes to an exceedance of the following attainment standards: 20 ppm (state) and 35 ppm (federal) 9.0 ppm (state/federal)	
PM_{10} 24-hour average PM_{10} annual average	10.4 μg/m³ (construction)[d] 2.5 μg/m³ (operation) 1.0 μg/m³	
$PM_{2.5}$ 24-hour average	10.4 μg/m³ (construction)[d] 2.5 μg/m³ (operation)	

Source: SCAQMD 2023.
Notes: SCAQMD = South Coast Air Quality Management District; VOC = volatile organic compounds; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; TAC = toxic air contaminant; NO_2 = nitrogen dioxide; ppm = parts per million by volume; μg/m³ = micrograms per cubic meter.
greenhouse gas emissions thresholds for industrial Projects, as added in the March 2015 revision to the SCAQMD Air Quality Significance Thresholds, were not include included in this table as they are addressed within the greenhouse gas emissions analysis and not the air quality analysis.

[a] The phaseout of leaded gasoline started in 1976. Since gasoline no longer contains lead, the Project is not anticipated to result in impacts related to lead; therefore, it is not discussed in this analysis.
[b] TACs include carcinogens and noncarcinogens.
[c] Ambient air quality standards for criteria pollutants are based on SCAQMD Rule 1303, Table A-2, unless otherwise stated.
[d] Ambient air quality threshold are based on SCAQMD Rule 403.

A project would result in a cumulatively considerable net increase for O_3, which is a nonattainment pollutant, if the proposed project's construction or operational emissions would exceed the SCAQMD VOC or NO_x thresholds shown in Table 3.3-1. These emission-based thresholds for O_3 precursors are intended to serve as a surrogate for an O_3 significance threshold (i.e., the potential for adverse O_3 impacts to occur) because O_3 itself is not emitted directly, and the effects of an individual project's emissions of O_3 precursors (i.e., VOCs and NO_x) on O_3 levels in ambient air cannot be determined reliably or meaningfully through air quality models or other quantitative methods.

California Emissions Estimator Model (CalEEMod) Version 2022.1.1.29 was used to estimate emissions from construction and operation of the project. CalEEMod is a statewide computer model developed in cooperation with air districts throughout the state to quantify criteria air pollutant emissions associated

with construction and operational activities from a variety of land use projects, including recreational development. The following discussion summarizes the quantitative project-generated construction and operational emissions and impacts that would result from implementation of the proposed project.

Construction Emissions

Construction of the proposed project would include demolition, site preparation, reservoir excavation, reservoir construction, pipeline/diversion/treatment facility installation, outlet line construction, and field replacement/bioswale planting and landscaping. These construction activities would result in the temporary addition of pollutants to the local airshed caused by on-site sources (e.g., off-road construction equipment, and soil disturbance) and off-site sources (e.g., vendor trucks, haul trucks, and worker vehicle trips). Specifically, entrained dust results from the exposure of earth surfaces to wind from the direct disturbance and movement of soil, resulting in PM_{10} and $PM_{2.5}$ emissions. Internal combustion engines used by construction equipment, haul trucks, vendor trucks (i.e., delivery trucks), and worker vehicles would result in emissions of VOC, NO_x, CO, PM_{10}, and $PM_{2.5}$. Construction emissions can vary substantially from day to day depending on the level of activity; the specific type of operation; and, for dust, the prevailing weather conditions.

Proposed project construction emissions were estimated using a combination of CalEEMod default assumptions and information provided by the project engineer. It was assumed that approximately 3,980 cubic yards of soil would be exported during reservoir excavation. In addition, demolition of the existing asphalt pavement and concrete sidewalks was estimated to result in approximately 141 tons of material that would be hauled off site. Air quality emissions modeling assumed that construction of the project would commence in October 2026 and would last approximately 14 months. Default values for horsepower and load factor provided in CalEEMod were used for all construction equipment, and the equipment mix was provided by the project engineer. For the analysis, it was generally assumed that heavy-duty construction equipment would be operating at the site 5 days per week, up to a maximum of 8 hours per day. It was assumed that some construction phases would overlap. Construction modeling assumptions are provided in Table 3.3-2.

Table 3.3-2. Construction Scenario Assumptions

Construction Phase	Average Daily One-Way Vehicle Trips			Equipment		
	Worker Trips	Vendor Truck Trips	Haul Truck Trips	Equipment Type	Quantity	Daily Usage Hours
Demolition of existing field and structures	18	4	4	Rubber Tired Dozers	2	8
				Skid Steer Loader	1	8
				Graders	2	8
Site preparation, clearing and grubbing	26	4	4	Rubber Tired Dozers	3	8
				Jack Hammers	1	8
				Tractors/Loaders/Backhoes	4	8
Reservoir excavation	24	4	8	Rubber Tired Dozers	2	8
				Skid Steer Loaders	2	8
				Tractors/Loaders/Backhoes	3	8

Table 3.3-2. Construction Scenario Assumptions

Construction Phase	Average Daily One-Way Vehicle Trips			Equipment		
	Worker Trips	Vendor Truck Trips	Haul Truck Trips	Equipment Type	Quantity	Daily Usage Hours
Reservoir construction	14	2	0	Cranes	1	8
				Rubber Tired Dozers	2	8
				Skid Steer Loaders	2	8
Installation of pipe, diversion structures, pre-treatment facility, pump, and bioswale overflow inlet	18	2	4	Cranes	1	8
				Trenchers	2	8
				Skid Steer Loaders	2	8
Outlet line	18	4	0	Rubber Tired Dozers	2	8
				Skid Steer Loaders	2	8
				Tractors/Loaders/Backhoes	3	8
Field replacement, bioswale planting/ landscaping, and other site improvements	26	2	0	Graders	1	8
				Skid Steer Loaders	1	8
				Pavers	1	8
				Paving Equipment	1	8
				Rollers	1	8
				Turf Aerators	1	8
				Spreader Sprayers	1	8
				Telehandlers	1	8
				Cement and Mortar Mixers	1	8
				Aerial Lifts	1	8

Notes: Appendix A, Air Quality and Greenhouse Gas Modeling.

Emissions generated during construction and operation of the project are subject to the rules and regulations of the SCAQMD. Rule 403, Fugitive Dust,[6] requires the implementation of measures to control the emission of visible fugitive/nuisance dust, such as wetting soils that would be disturbed. It was assumed that the active sites would be watered at least two times daily, resulting in an approximately 61% reduction of fugitive dust (CalEEMod default value), to represent compliance with SCAQMD standard dust control measures in Rule 403.

[6] SCAQMD Rule 403 requires implementation of various best available fugitive dust control measures for different sources for all construction activity sources within its jurisdictional boundaries. Dust control measures include, but are not limited to, maintaining stability of soil through pre-watering of site prior to clearing, grubbing, cut and fill, and earth-moving activities; stabilizing soil during and immediately after clearing, grubbing, cut and fill, and other earth-moving activities; stabilizing backfill during handling and at completion of activity; and pre-watering material prior to truck loading and ensuring that freeboard exceeds 6 inches. Although SCAQMD Rule 403 requires fugitive dust control beyond watering control measures, compliance with Rule 403 is represented in CalEEMod by assuming twice daily watering of active sites (61% reduction in PM_{10} and $PM_{2.5}$ [CAPCOA 2022]).

CalEEMod calculates maximum daily emissions for summer and winter periods. As such, the estimated maximum daily construction emissions for both summer and winter periods are summarized in Table 3.3-3. Detailed construction model outputs are presented in Appendix A, Air Quality and Greenhouse Gas Modeling.

Table 3.3-3. Estimated Maximum Daily Construction Criteria Air Pollutant Emissions - Unmitigated

Year	VOC	NO_x	CO	SO_x	PM_{10}	$PM_{2.5}$
	Pounds per Day					
Summer						
2027	4.59	42.41	49.22	0.08	7.36	4.34
Winter						
2026	6.04	54.66	55.69	0.10	10.66	6.26
2027	4.58	42.46	44.07	0.08	7.36	4.34
Maximum Daily Emissions	**6.04**	**54.66**	**55.69**	**0.10**	**10.66**	**6.26**
SCAQMD Threshold	*75*	*100*	*550*	*150*	*150*	*55*
Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**

Source: Appendix A, Air Quality and Greenhouse Gas Modeling.
Notes: VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; SCAQMD = South Coast Air Quality Management District.
Emissions estimates include watering of the active sites two times per day per Rule 403 compliance.

As shown in Table 3.3-3, the proposed project's maximum daily construction emissions would not exceed SCAQMD thresholds for any criteria pollutant and impacts would be less than significant.

Operational Emissions

The first full year of project operations would be in 2028. Once construction is complete, project operation is anticipated to entail routine maintenance performed by the City at the stormwater capture facility and other park features. Reservoir maintenance would entail removal of debris and pollutant constituents from the treatment devices, pump testing and calibration, and cleaning the storage reservoir. During long-term operations, the project would generate air pollutants from mobile sources, including maintenance workers accessing the site, and area sources, including consumer products and architectural coatings. CalEEMod was used to estimate emissions from these sources. Table 3.3-4 summarizes the maximum daily emissions of criteria pollutants that would be generated by the proposed project and compares the emissions to the SCAQMD's operational thresholds.

Table 3.3-4. Estimated Maximum Daily Operational Criteria Air Pollutant Emissions - Unmitigated

Source	VOC	NO_x	CO	SO_x	PM_{10}	$PM_{2.5}$
	Pounds per Day					
Summer						
Mobile	0.01	0.01	0.18	<0.01	0.05	0.01
Area	0.01	0.00	0.00	0.00	0.00	0.00

Table 3.3-4. Estimated Maximum Daily Operational Criteria Air Pollutant Emissions - Unmitigated

Source	VOC	NO_x	CO	SO_x	PM_{10}	$PM_{2.5}$
	Pounds per Day					
Total	**0.02**	**0.01**	**0.18**	**<0.01**	**0.05**	**0.01**
Winter						
Mobile	0.01	0.02	0.16	<0.01	0.05	0.01
Area	<0.01	0.00	0.00	0.00	0.00	0.00
Total	**0.01**	**0.02**	**0.16**	**<0.01**	**0.05**	**0.01**
SCAQMD Threshold	*55*	*55*	*550*	*150*	*150*	*55*
Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**

Source: Appendix A, Air Quality and Greenhouse Gas Modeling.
Notes: VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; <0.01 = value is less than 0.005; SCAQMD = South Coast Air Quality Management District.

As shown in Table 3.3-4, the proposed project's maximum daily operational emissions would not exceed SCAQMD thresholds for any criteria pollutant and impacts would be less than significant.

Cumulative Impacts

Cumulative localized impacts would potentially occur if a project were to occur concurrently with another off-site project. Schedules for potential future projects near the project area are currently unknown; therefore, potential impacts associated with two or more simultaneous projects would be considered speculative.[7] However, the project is located in an already developed urban area and any future projects would be subject to CEQA and would require air quality analysis and, where necessary, mitigation. Criteria air pollutant emissions associated with construction activity of future projects would be reduced through implementation of control measures required by the SCAQMD. Cumulative PM_{10} and $PM_{2.5}$ emissions would be reduced because all future projects would be subject to SCAQMD Rule 403, Fugitive Dust, which sets forth general and specific requirements for all sites in the SCAQMD.

Therefore, the proposed project would not result in a cumulatively considerable increase in emissions of nonattainment pollutants and impacts would be **less than significant** during construction and operation.

c) Would the project expose sensitive receptors to substantial pollutant concentrations?

Less-than-Significant Impact with Mitigation Incorporated. Sensitive receptors are those individuals more susceptible to the effects of air pollution than the population at large. People most likely to be affected by air pollution include children, the elderly, and people with cardiovascular and chronic respiratory diseases. According to SCAQMD, sensitive receptors include residences, schools, playgrounds, childcare centers, long-term healthcare facilities, rehabilitation centers, convalescent centers, and retirement homes (SCAQMD 1993).

7 The CEQA Guidelines state that if a particular impact is too speculative for evaluation, the agency should note its conclusion and terminate discussion of the impact (14 CCR 15145).

The closest off-site sensitive receptors to the project site are single-family residences adjacent to the south and west of the project site, Bonita Street Elementary School adjacent to the northwest of the project site, and Carnegie Middle School adjacent to the north of the project site.

Localized Significance Thresholds

The SCAQMD recommends a localized significance threshold (LST) analysis to evaluate the potential of localized air quality impacts to sensitive receptors in the immediate vicinity of a proposed project from construction and operation; however, an operational LST analysis is not required for the project due to no substantial on-site sources of localized emissions. For projects that disturb 5 acres or less per day, the SCAQMD *Final Localized Significance Threshold Methodology* (SCAQMD 2008a) includes lookup tables that can be used to determine the maximum allowable daily emissions that would satisfy the localized significance criteria (i.e., the emissions would not cause an exceedance of the applicable concentration limits for NO_2, CO, PM_{10}, and $PM_{2.5}$) without performing project-specific dispersion modeling.

The LST significance thresholds for NO_2 and CO represent the allowable increase in concentrations above background levels in the vicinity of a project that would not cause or contribute to an exceedance of the relevant ambient air quality standards, while the threshold for PM_{10} represents compliance with Rule 403 (Fugitive Dust). The LST significance threshold for $PM_{2.5}$ is intended to ensure that construction emissions do not contribute substantially to existing exceedances of the $PM_{2.5}$ ambient air quality standards. The allowable emission rates depend on the following parameters:

1. Source-Receptor Area in which the project is located
2. Size of the project site
3. Distance between the project site and the nearest sensitive receptor (e.g., residences, schools, hospitals)

The proposed project site is located in Source-Receptor Area 4 (South Coastal LA County). The maximum number of acres disturbed on the peak day was estimated using the *Fact Sheet for Applying CalEEMod to Localized Significance Thresholds* (SCAQMD n.d.), which provides estimated acres per 8-hour per day per piece of earth-moving equipment. Based on the SCAQMD guidance, it was estimated that the maximum acres on the project site that would be disturbed by off-road equipment would be 3.5 acres per day; therefore, LSTs for a 3.5-acre disturbed area were interpolated from the SCAQMD 2- and 5-acre LST thresholds. The nearest sensitive receptor land use is located adjacent to the project site. Accordingly, the distance in the LST lookup table of 25 meters is assumed.

According to the *Final Localized Significance Threshold Methodology*, "off-site mobile emissions from the project should not be included in the emissions compared to the LSTs" (SCAQMD 2008a). Trucks and worker trips associated with the project are not expected to cause substantial air quality impacts to sensitive receptors along off-site roadways since emissions would be relatively brief in nature and would cease once the vehicles pass through the main streets. Nonetheless, vehicle activity may occur within the project boundary (i.e., fence line); therefore, a small portion (i.e., 0.25 miles) of the off-site vehicle travel for worker vehicles, vendor trucks, and haul trucks was conservatively assumed as on-site emissions for the LST analysis.

The maximum daily on-site emissions generated from construction of the proposed project are presented in Table 3.3-5 and are compared to the SCAQMD localized significance criteria to determine whether project-generated on-site emissions would result in potential LST impacts.

Table 3.3-5. Construction Localized Significance Thresholds Analysis - Unmitigated

Year	NO_x	CO	PM_{10}	$PM_{2.5}$
	Pounds per Day			
Summer				
2027	41.71	46.88	6.84	4.21
Winter				
2026	53.84	54.09	10.07	6.10
2027	41.72	42.78	6.84	4.21
Maximum Daily Emissions	**53.84**	**54.09**	**10.07**	**6.10**
SCAQMD LST Criteria[a]	*102.5*	*1,186.0*	*10.5*	*6.5*
Threshold exceeded?	**No**	**No**	**No**	**No**

Source: Appendix A, Air Quality and Greenhouse Gas Modeling.
Notes: NO_x = oxides of nitrogen; CO = carbon monoxide; PM_{10} = particulate matter with a diameter less than or equal to 10 microns; $PM_{2.5}$ = particulate matter with a diameter less than or equal to 2.5 microns; SCAQMD = South Coast Air Quality Management District; LST = localized significance threshold.
The values shown are the maximum summer or winter daily emissions results from CalEEMod. The total values may not add up exactly due to rounding. Emissions estimates include watering of the active sites two times per day per Rule 403 compliance.
[a] Localized significance thresholds are shown for a 3.5-acre disturbed area for a sensitive receptor distance of 25 meters in Source-Receptor Area 4 (South Coastal LA County).

As shown in Table 3.3-5, proposed construction activities would not generate emissions that would exceed the site-specific LST criteria, and impacts would be less than significant.

CO Hotspots

Traffic-congested roadways and intersections have the potential to generate localized high levels of CO. Localized areas where ambient concentrations exceed federal and/or state standards for CO are termed CO "hotspots." CO transport is extremely limited and disperses rapidly with distance from the source. Under certain extreme meteorological conditions, however, CO concentrations near a congested roadway or intersection may reach unhealthy levels affecting sensitive receptors. Typically, high CO concentrations are associated with severely congested intersections operating at an unacceptable level of service (LOS) (LOS E or worse is unacceptable). Projects contributing to adverse traffic impacts may result in the formation of a CO hotspot. Additional analysis of CO hotspot impacts would be conducted if a project would result in a significant impact or contribute to an adverse traffic impact at a signalized intersection that would potentially subject sensitive receptors to CO hotspots.

At the time that the SCAQMD Handbook (1993) was published, the SCAB was designated nonattainment under the CAAQS and NAAQS for CO. In 2007, the SCAQMD was designated in attainment for CO under both the CAAQS and NAAQS as a result of the steady decline in CO concentrations in the SCAB due to turnover of older vehicles, introduction of cleaner fuels, and implementation of control technology on

industrial facilities. The SCAQMD conducted CO modeling for the 2003 AQMP[8] (SCAQMD 2003) for the four worst-case intersections in the SCAB: (1) Wilshire Boulevard and Veteran Avenue, (2) Sunset Boulevard and Highland Avenue, (3) La Cienega Boulevard and Century Boulevard, and (4) Long Beach Boulevard and Imperial Highway. At the time, the 2003 AQMP was prepared, the intersection of Wilshire Boulevard and Veteran Avenue was the most congested intersection in Los Angeles County, with an average daily traffic volume of about 100,000 vehicles per day. The 2003 AQMP also projected 8-hour CO concentrations at these four intersections for 1997 and from 2002 through 2005. From years 2002 through 2005, the maximum 8-hour CO concentration was 3.8 ppm at the Sunset Boulevard and Highland Avenue intersection in 2002; the maximum 8-hour CO concentration was 3.4 ppm at the Wilshire Boulevard and Veteran Avenue in 2002. Accordingly, CO concentrations at congested intersections would not exceed the 1-hour or 8-hour CO CAAQS unless projected daily traffic would be at least over 100,000 vehicles per day. The project's anticipated increase in trips is minimal and is not of a magnitude expected to raise the traffic volumes at intersections within proximity of the proposed project to the 100,000 vehicles per day that could result in a CO hotspot.

Additionally, ambient CO levels are monitored at the air quality monitoring station located at 700 North Bullis Road, Compton, which is approximately 6 miles northeast of the project site and represents ambient air quality in the project area. Ambient CO levels monitored at this representative monitoring station indicate that the highest recorded 1-hour concentration of CO is 3.5 ppm (the State standard is 20 ppm) and highest 8-hour concentration is 3.1 ppm (the State standard is 9 ppm) during the past 3 years of available data (EPA 2025a). As discussed above, the highest CO concentrations typically occur during peak traffic hours, so CO impacts calculated under peak traffic conditions represent a worst-case analysis. Given the considerably low level of CO concentrations in the project area, and the minimal increase in daily trips, project-related mobile emissions are not expected to contribute significantly to CO concentrations, and a CO hotspot is not anticipated to occur. Finally, due to continued improvement in vehicular emissions at a rate faster than the rate of vehicle growth and/or congestion, the potential for CO hotspots in the SCAB is steadily decreasing. Based on these considerations, the proposed project would result in a less-than-significant impact regarding potential CO hotspots.

Toxic Air Contaminants

The greatest potential for toxic air contaminant (TAC) emissions during project construction would be diesel particulate matter (DPM) emissions from heavy equipment operations and heavy-duty trucks. Use of heavy-duty construction equipment is subject to a CARB Airborne Toxics Control Measure for in-use diesel construction equipment to reduce diesel particulate emissions; use of diesel trucks is also subject to an Airborne Toxics Control Measure. Based on the adjacent residential and school receptors, a quantitative health risk assessment (HRA) was prepared for the project. The following discussion summarizes the dispersion modeling, HRA methodology, and results for the proposed project; supporting HRA documentation, including detailed assumptions, is presented in Appendix B.

SCAQMD has adopted a cancer risk threshold of 10 in a million (SCAQMD 2023), which indicates that a person has an additional risk of 10 chances in a million (0.001%) of developing cancer during their lifetime as a result of the air pollution scenario being evaluated. For context, the National Cancer Institute estimates that approximately 38.9% of people will be diagnosed with cancer during their lifetimes (National Cancer

[8] SCAQMD's CO hotspot modeling guidance has not changed since 2003.

Institute 2025). The SCAQMD has also adopted a hazard index less than 1.0, below which indicates that people are not likely to experience any non-cancer health effects (SCAQMD 2023).

The SCAQMD's Modeling Guidance for American Meteorological Society/EPA Regulatory Model (AERMOD) (SCAQMD 2025a) provides guidance to perform dispersion modeling for use in HRAs within the SCAB. The cancer risk parameters for exposure to TACs, such as age-sensitivity factors, daily breathing rates, exposure period, fraction of time at home, and cancer potency factors used in the analysis herein are based on the values and data recommended by the Office of Environmental Health Hazard Assessment *Air Toxics Hot Spots Program Risk Assessment Guidelines Guidance Manual for Preparation of Health Risk Assessments 2015* (2015 Risk Assessment Guidelines Manual) (OEHHA 2015), as implemented in the Hotspots Analysis and Reporting Program Version 2 (HARP2). Accordingly, this HRA evaluates and reflects conservative, health-protective methodologies to assess health impacts to adults, as well as infants, children, and other sensitive subpopulations.

For risk assessment purposes, PM_{10} in diesel exhaust is considered DPM, originating mainly from off-road equipment operating at a defined location for a given length of time at a given distance from sensitive receptors. Less-intensive, more-dispersed emissions result from on-road vehicle exhaust (e.g., heavy-duty diesel trucks).

Air dispersion modeling was performed using the EPA's AERMOD Version 24142 modeling system (computer software) with the Lakes Environmental Software implementation/user interface, AERMOD View Version 13.0. The dispersion modeling included the use of standard regulatory default options. AERMOD parameters were selected as representative of the project site and project activities. Principal parameters of this modeling are presented in Table 3.3-6.

Table 3.3-6. American Meteorological Society/Environmental Protection Agency Regulatory Model Principal Parameters

Parameter	Details
Meteorological Data	AERMOD-specific meteorological data for the Long Beach/Daugherty Field/Airport air monitoring station (KLGB) was used for the dispersion modeling (SCAQMD 2025b). A meteorological data set from 2015-2019 was obtained from the SCAQMD in a preprocessed format suitable for use in AERMOD.
Urban versus Rural Option	Urban areas typically have more surface roughness as well as structures and low-albedo surfaces that absorb more sunlight—and thus more heat—relative to rural areas. According to SCAQMD guidelines, the urban dispersion option was selected (SCAQMD 2025a).
Terrain Characteristics	Digital elevation data were imported into AERMOD and elevations were assigned to receptors and emission sources, as necessary. Digital elevation data were obtained through the AERMOD View in the U.S. Geological Survey's National Elevation Dataset format with a resolution of 1 arc-second resolution. The elevation of the modeled site is 9.65 meters above sea level.
Source Release Characterizations	Off-road equipment and trucks were modeled as a line of adjacent volume sources across the project site with a release height of 5 meters, a plume height of 10 meters, and plume width of 10 meters (SCAQMD 2008a).
Receptors	A nested grid of receptors was centered over the project site with the following resolutions: ▪ 20-meter spacing from the project site out to 200 meters; ▪ 50-meter spacing from 200 meters to 500 meters;

Table 3.3-6. American Meteorological Society/Environmental Protection Agency Regulatory Model Principal Parameters

Parameter	Details
	▪ 100-meter spacing from 500 meters to 1,000 meters; ▪ 200-meter spacing from 1,000 meters to 2,000 meters; ▪ 500-meter spacing from 2,000 meters to 5,000 meters.

Source: SCAQMD 2008a; SCAQMD 2025a; SCAQMD 2025b.
Notes: AERMOD = American Meteorological Society/Environmental Protection Agency Regulatory Model; SCAQMD = South Coast Air Quality Management District.
See Appendix B, Construction Health Risk Assessment Modeling, for complete model parameter inputs.

AERMOD was run with the line source emitting unit emissions (1 gram per second) to obtain the necessary input values for HARP2. The ground-level concentration plot files were then used to estimate the long-term cancer health risk to an individual, and the noncancerous chronic health indices. There is no reference exposure level for acute health impacts from diesel particulate matter, and, thus, acute risk was not evaluated.

Cancer risk is defined as the increase in probability (chance) of an individual developing cancer due to exposure to a carcinogenic compound, typically expressed as the increased chances in 1 million. For the construction HRA, the TAC exposure parameters are described below:

- Maximally Exposed Individual Resident (MEIR): For residential receptors during project construction and operation, TAC exposure was assumed to begin in the 3rd trimester of pregnancy (assumed to be the worst-case scenario for cancer risk) for a duration of 1.17 years (construction).
- School: For school children at Bonita Street Elementary School and Carnegie Middle School during project construction, TAC exposure was assumed to begin at 4 years old for a duration of 1.17 years (construction).

The SCAQMD has also established noncarcinogenic risk parameters for use in HRAs since some TACs increase noncancerous health risk due to long-term (chronic) exposures and some TACs increase noncancerous health risk due to short-term (acute) exposures. Chronic exposure is evaluated in the construction HRA. Noncarcinogenic risks are quantified by calculating a hazard index, expressed as the ratio between the ambient pollutant concentration and its toxicity or reference exposure level, which is a concentration at or below which health effects are not likely to occur. The chronic hazard index is the sum of the individual substance chronic hazard indices for all TACs affecting the same target organ system. A hazard index less than 1.0 means that adverse health effects are not expected.

Results of the construction HRA without mitigation are presented in Table 3.3-7.

Table 3.3-7. Construction Health Risk Assessment Results – Unmitigated

Impact Parameter	Units	Project Impact	CEQA Threshold	Level of Significance
Cancer Risk – MEIR	Per Million	59.8	10	**Potentially Significant**
Chronic Hazard Index – MEIR	Index Value	0.06	1.0	Less than Significant
Cancer Risk – School	Per Million	1.6	10	Less than Significant

Table 3.3-7. Construction Health Risk Assessment Results – Unmitigated

Impact Parameter	Units	Project Impact	CEQA Threshold	Level of Significance
Chronic Hazard Index – School	Index Value	0.01	1.0	Less than Significant

Source: Appendix B, Construction Health Risk Assessment Modeling.
Notes: CEQA = California Environmental Quality Act; MEIR = maximally exposed individual resident.

As shown in Table 3.3-7, the results of the construction HRA for the project demonstrate that the unmitigated construction DPM emissions would result in a potential maximum cancer risk at the MEIR that would exceed the 10 in a million-cancer risk threshold; however, construction DPM emissions would be below the Chronic Hazard Index threshold. Unmitigated construction DPM emissions would result in a health risk at the nearby schools that would be less than both the cancer risk threshold and the Chronic Hazard Index threshold. Therefore, TAC emissions from construction of the project would result in a potentially significant impact. Mitigation Measure (MM)-AQ-1, which requires use of Level 3 diesel particulate filters for off-road equipment to reduce DPM emissions during project construction, is detailed below.

Table 3.3-8 summarizes the results of the HRA after implementation of **MM-AQ-1** for construction of the proposed project.

Table 3.3-8. Construction Health Risk Assessment Results – Mitigated

Impact Parameter	Units	Project Impact	CEQA Threshold	Level of Significance
Cancer Risk – MEIR	Per Million	9.0	10	Less than Significant
Chronic Hazard Index – MEIR	Index Value	0.009	1.0	Less than Significant
Cancer Risk – School	Per Million	0.02	10	Less than Significant
Chronic Hazard Index – School	Index Value	0.001	1.0	Less than Significant

Source: Appendix B, Construction Health Risk Assessment Modeling.
Note: CEQA = California Environmental Quality Act.; MEIR = maximally exposed individual resident.
Includes implementation of MM-AQ-1.

After mitigation, TAC exposure from construction diesel exhaust emissions would result in a residential cancer risk below the 10 in 1 million threshold and the Chronic Hazard Index would still be less than the 1.0 threshold. The health risk at the nearby schools would be further reduced below thresholds. Therefore, after mitigation, the project would result in a less-than-significant impact related to exposure to TAC emissions during construction.

Health Effects of Criteria Pollutants

Short-term project construction would not exceed the significance thresholds for any criteria air pollutants. In addition, long-term project operational emissions would not exceed any significance thresholds.

VOCs and NO_x are precursors to O_3, for which the SCAB is designated as nonattainment with respect to the NAAQS and CAAQS. The health effects associated with O_3 include respiratory symptoms, worsening of lung disease leading to premature death, and damage to lung tissue (CARB 2025a). The contribution of VOCs and NO_x to regional ambient O_3 concentrations is the result of complex photochemistry. The increases in O_3 concentrations in the SCAB due to O_3 precursor emissions tend to be found downwind from the source

location to allow time for the photochemical reactions to occur. However, the potential for exacerbating excessive O_3 concentrations would also depend on the time of year that the VOC emissions would occur because exceedances of the O_3 CAAQS/NAAQS tend to occur between April and October when solar radiation is highest. The holistic effect of a single project's emissions of O_3 precursors is speculative due to the lack of quantitative methods to reliably and meaningfully assess this impact. However, the project would not exceed the significance thresholds for VOC or NO_x; therefore, implementation of the project would contribute minimally to regional O_3 concentrations and the associated health effects.

Health effects associated with NO_x and NO_2 (which is a constituent of NO_x) include lung irritation and enhanced allergic responses (CARB 2025b). However, because project-generated NO_x emissions would not exceed the significance threshold during construction or operations, the project would not result in potential health effects associated with NO_2 and NO_x.

Health effects associated with CO include chest pain in patients with heart disease, headache, light-headedness, and reduced mental alertness (CARB 2025c). CO tends to be a localized impact associated with congested intersections. The associated potential for CO hotspots were discussed previously and are determined to be a less-than-significant impact. Thus, the project's CO emissions would not contribute to significant health effects associated with this pollutant.

Health effects associated with particulate matter include premature death and hospitalization, primarily for worsening of respiratory disease (CARB 2025d). Construction of the project would not exceed the LSTs for PM_{10} or $PM_{2.5}$ and would not contribute to exceedances of the NAAQS and CAAQS for particulate matter or obstruct the SCAB from coming into attainment for these pollutants. Due to the minimal contribution of particulate matter during construction and operation, the project is not anticipated to result in health effects associated with PM_{10} or $PM_{2.5}$.

In summary, because implementation of the project would not result in exceedances of the SCAQMD significance thresholds during construction and operation, the potential health effects associated with criteria air pollutants are considered **less than significant with mitigation incorporated**.

MM-AQ-1 Construction Equipment Diesel Particulate Exhaust Minimization. Prior to the start of construction activities and issuance of grading permits, the City or its designee shall ensure that all diesel-powered construction equipment is equipped with a California Air Resources Board (CARB)-certified Level 3 diesel particulate filter or better.

d) Would the project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

Less-than-Significant Impact. Based on available information, the project is not anticipated to result in other emissions that have not been addressed under Section 3.3(a) through Section 3.3(c). As such, this analysis focuses on the potential for the project to generate odors.

The analysis of other emissions is focused on the potential for an odor impact to occur. The occurrence and severity of potential odor impacts depends on numerous factors. The nature, frequency, and intensity of the source; the wind speeds and direction; and the sensitivity of the receiving location each contribute to

the intensity of the impact. Although offensive odors seldom cause physical harm, they can be annoying and cause distress among the public and generate citizen complaints.

Odors would be generated from vehicles and/or equipment exhaust emissions during construction of the project. Odors produced during construction would be attributable to concentrations of unburned hydrocarbons from tailpipes of construction equipment, architectural coatings, and asphalt pavement application. Such odors would disperse rapidly from the project site and generally occur at magnitudes that would not affect substantial numbers of people. Therefore, impacts associated with odors during construction would be considered less than significant.

Land uses and industrial operations associated with odor complaints include agricultural uses, wastewater treatment plants, food-processing plants, chemical plants, composting operations, refineries, landfills, dairies, and fiberglass molding facilities (SCAQMD 1993). The project does not propose and would not engage in any of these activities or other potential activities that would generate operational odors. The project entails construction of a stormwater capture and treatment facility and improvements to an existing park and would not create any new sources of odors during operation. Therefore, the project would result in an odor impact that is **less than significant.**

3.4 Biological Resources

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
IV. BIOLOGICAL RESOURCES – Would the project:				
a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?	☐	☒	☐	☐
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?	☐	☐	☐	☒
c) Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	☐	☐	☐	☒

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?	☐	☐	☐	☒
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	☐	☐	☐	☒
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?	☐	☐	☐	☒

The following analysis relies on a biological resources assessment utilizing the most recent relevant literature, published research, maps, soil data, biological baseline information, special-status habitats, and species distribution data to assess the potential for biological resources to occur within the project site and a surrounding 100-foot buffer (the study area).

The analysis included a review of the California Department of Fish and Wildlife's California Natural Diversity Database (CDFW 2025a), the California Native Plant Society's Inventory of Rare and Endangered Plants (CNPS 2025), and the U.S. Fish and Wildlife Service's Information for Planning and Consultation (IPaC; USFWS 2025a). These sources were queried based on the U.S. Geological Survey (USGS) 7.5-minute Torrance quadrangle and the surrounding eight quadrangles (San Pedro, Redondo Beach, Venice, Inglewood, South Gate, and Long Beach).

Potential and/or historic drainages and aquatic features were evaluated through review of USGS 1:24,000-scale topographic maps, aerial imagery, the National Wetland Inventory database (USFWS 2025b), and the Natural Resources Conservation Service Web Soil Survey (USDA 2025).

Under existing conditions, the entirety of the project site consists of developed land, including partially paved surfaces and buildings. Medium to Large non-native ornamental trees are also present throughout the site.

Field Visit

Dudek biologist Eilleen Salas performed a field survey on February 10, 2025. Temperatures during the survey were between 56°F and 57°F, with 80% cloud cover, and wind speeds ranging between 4 mph and 5 mph. The biological survey included vegetation mapping, the mapping of sensitive biological resources (if present) within the project site plus survey buffer (biological study area), and an evaluation of the potential for special-status species to occur. Photograph documentation is provided in Appendix C, Biological Resources Species List.

a) Would the project have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?

Less than Significant with Mitigation Incorporated. There are 48 special-status plant species and 32 special-status wildlife species with recorded occurrences in the U.S. Geologic Survey's Torrance, California 7.5-minute topographic quadrangle, in which the project is located, and surrounding eight quadrangles (CDFW 2025a; CNPS 2025; USFWS 2025a). The biological study area supports three land cover types (ornamental plantings, parks, and urban/developed), as shown on Figure 4, Vegetation Communities and Land Cover Types. Plant species observed within the site generally consisted of non-native ornamental species including tree of heaven (*Ailanthus altissima*), canary island pine (*Pinus canariensis*) London plane tree *(Platanus acerifolia*), and Bermuda grass (*Cynodon dactylon*). No special-status plants or wildlife were found to have a potential to occur due to the lack of suitable habitat (see Appendix C, Biological Resources Species List, to this MND). Wildlife species observed during the biological resources survey include common avian species found in urbanized settings such as American crow (*Corvus brachyrhynchos*), black phoebe (*Sayornis nigricans*), Anna's hummingbird (*Calypte anna*), and house finch (*Haemorhous mexicanus*).

Due to the presence of ornamental trees on the project site that can support nesting for a variety of common, native, and migratory birds, the project may result in significant direct or indirect impacts to nesting birds if project activities occur during the avian nesting season of February through August. To reduce the project's potential impacts on nesting birds to a less-than-significant level, **MM-BIO-1** recommends nesting season avoidance and pre-project nesting bird surveys if the nesting season cannot be avoided.

MM-BIO-1 Nesting Bird Avoidance. The project should avoid the avian nesting season to reduce all potential impacts to protected birds and their nests. In the event the project must commence during the nesting season (February – August), a pre-construction nesting survey should be conducted within 3 days prior to ground disturbing activities to determine the presence/absence of nesting birds. If an active nest is found on the study area, a qualified biologist will establish a buffer around the nest (up to 500 feet for raptors and 300 feet for passerine birds) and ongoing biological monitoring during construction may be required until the nestlings have fledged and the nest is no longer active. The buffer will be established by a biologist based on the sensitivity of the species to disturbance and the proximity to project activities. Construction activities may commence outside of the buffer under the discretion of a monitoring biologist. Once the monitoring biologist has determined the nest is no longer active, the buffer can be removed, and construction may continue.

b) Would the project have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?

No Impact. The proposed project site is within a highly developed and urbanized area lacking natural or native vegetation communities. There are no riparian habitats or other sensitive natural communities identified in local or regional plans, policies, or regulations or by the California Department of Fish and Wildlife or the U.S. Fish and Wildlife Service that were identified on the project site. As such, impacts to

these biological resources would not occur as a result of the project. Therefore, the project would have **no impacts** to riparian habitats or other sensitive natural communities.

c) Would the project have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?

No Impact. The project site is developed and urbanized with no riparian habitat present. No permanent or ephemeral natural drainages or watercourses, water bodies, or other resources associated with wetland and non-wetland waters are located on the project site. The project site does not contain any federal jurisdictional wetlands or support any aquatic resources regulated by the U.S. Army Corps of Engineers, Los Angeles Regional Water Quality Control Board, or California Department of Fish and Wildlife as jurisdictional waters of the United States or waters of the state. Therefore, **no impacts** associated with state or federally protected wetlands would occur.

d) Would the project interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?

No Impact. Meffe and Carrol (1997) define wildlife movement corridors, also referred to as dispersal corridors or landscape linkages, as linear features along which animals can travel from one habitat or resource area to another. According to the California Natural Diversity Database search, the project site does not contain any greenbelts for wildlife movement or native vegetation capable of supporting the movement of wildlife, particularly corridors that facilitate movement of species between larger stands of native habitat. The proposed project is within a highly urbanized area lacking habitat that could provide opportunities for wildlife movement. Construction of the proposed project would not result in encroaching onto or impeding the use of a wildlife corridor or nursery site that local wildlife could use. Therefore, the proposed project would have **no impact** on wildlife movement corridors or wildlife nursery sites.

e) Would the project conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?

No Impact. The removal of City-owned trees or shrubs that occur within the public right-of-way would be required to comply with all applicable provisions in the City of Carson's Tree Preservation and Protection Ordinance. However, the proposed project does not include the removal of any trees within the Study Area. Therefore, **no impacts** associated with local policies or ordinances would occur.

f) Would the project conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?

No Impact. The biological study area is not within any habitat conservation plan, natural community conservation plan, or other approved local, regional, or state habitat conservation plan (CDFW 2019). As such, the project would not conflict with the provisions of an adopted conservation plan and **no impact** would occur.

3.5 Cultural Resources

		Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
V.	**CULTURAL RESOURCES** – Would the project:				
a)	Cause a substantial adverse change in the significance of a historical resource pursuant to Section 15064.5?	☐	☐	☐	☒
b)	Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?	☐	☒	☐	☐
c)	Disturb any human remains, including those interred outside of formal cemeteries?	☐	☐	☒	☐

The analysis contained within this section is based on the Cultural Resources Inventory Report prepared for the project by Dudek in April 2025 (Appendix D).

a) Would the project cause a substantial adverse change in the significance of a historical resource pursuant to Section 15064.5?

No Impact. Historic-age structures are those that are built more than 45 years ago and, therefore, have the potential to be considered historical resources pursuant to Section 15064.5 of the CEQA Guidelines. While some historical resources are also considered archaeological resources, such resources are addressed in Section 2.5(b), as part of the discussion of archaeological resources.

No historical resources were identified in the project site based on the analysis of historic aerial photographs (1952–2022), historic topographic maps (1886–2021), or archival background research (NETR 2025). In its current extent, the baseball/softball fields, tennis courts, and associated structures do not meet the minimum age threshold to be considered an historical resource under CEQA.

On December 19, 2024, Dudek conducted a records search of the California Historical Resources Information System (CHRIS) database at the South Central Coastal Information Center (SCCIC), located on the campus of California State University, Fullerton, in Fullerton, California. The records search results identified a total of 17 previous cultural resources studies that have been conducted within 1 mile of the project (Table 3.5-1); one cultural resource inventory (LA-04512) covers the entirety of the project site.

Report LA-04512 is a Cultural Resources Inventory of the City of Carson, California (Appendix D) that documents the results of an inventory and evaluation of the cultural heritage resources located within the bounds of the City of Carson. The report was drafted by A.V. Eggers, consulting archaeologist, and consisted of an archival records search, literature review, pedestrian survey, data evaluation and report preparation. The study area overlaps 100% with the project site. During the pedestrian survey, 8 prehistoric resources were recorded, and 15 historic-era resources were recorded or updated. Three of the cultural resources

identified in support of this project fall within the records search 1-mile radius of the currently proposed project. No project-specific management recommendations were proposed for areas adjacent to Calas Park or the other currently proposed work areas but instead reiterated current regulations regarding the treatment of cultural resources.

Table 3.5.1. Previous Technical Studies Within 1 Mile of the Project Site

Report ID	Year	Author	Title
Intersects Project Site			
LA-04512	1977	Eggers, A.V.	Cultural Resources Inventory of the City of Carson, California
Outside of Project Site			
LA-00083	1975	Rosen, Martin D.	Evaluation of the Archaeological Resources and Potential Impact of the Joint Outfall System's Improvements on Sewer Treatment Plants and Installation Routes for New Large Diameter Sewers, Los Angeles County
LA-02258	1991	Breece, William H.	Archaeological Survey Results: Proposed Oil Shell Oil Company Inter-Refinery Pipelines Project Carson, California
LA-02749	1992	Charroin, Andrea	Archaeological Monitoring for Shell Pipeline
LA-02751	1992	Padon, Beth	Archaeological Survey Results: Proposed Arco Los Angeles Refinery Clean Fuels Project Carson, California
LA-05971	2001	Unknown	California Energy Commission Application for Certification BP 5th Train Project City of Carson, Los Angeles County, California
LA-05995	2002	Duke, Curt	Cultural Resource Assessment AT&T Wireless Services Facility No. 05226a Los Angeles County, California
LA-06367	2001	Duke, Curt	(Duplicate of LA-5438) Cultural Resource Assessment Cingular Wireless Facility No. Vy030-04 Los Angeles County, California
LA-09627	2008	Wlodarski, Robert J.	Proposed Bechtel Wireless Telecommunications Site OC0195 (C & H Printing), Located at 6046 Lincoln Avenue, Cypress, California 90630
LA-10158	2007	Knell, Edward J., and James Steely	Cultural Resources Survey for the Carson Terminal Redevelopment Project, Los Angeles County, California
LA-10250	2009	Bonner, Wayne H.	Cultural Resources Records Search and Site Visit Results for T-Mobile USA Candidate LA33769B (Ranch Fish Market), 117 East 223rd Street, Carson, Los Angeles County, California
LA-10567	2005	Hogan, Michael, Bai "Tom" Tang, Josh Smallwood, Laura Hensley Shaker, and Casey Tibbitt	Identification and Evaluation of Historic Properties - West Basin Municipal Water District Harbor- South Bay Water Recycling Project Proposed Project Laterals
LA-10727	2010	Bonner, Wayne H.	Cultural Resources Records Search and Site Visit Results for T-Mobile USA Candidate LA33769-C (Ranch Fish Market), 117 East 223rd Street, Carson, Los Angeles County, California

Table 3.5.1. Previous Technical Studies Within 1 Mile of the Project Site

Report ID	Year	Author	Title
LA-11150	2003	Maxwell, Pamela	West Basin Municipal Water District Harbor/ South Bay Water Recycling Project
LA-11482	1939	Racer, F.H.	Camp Sites in Harbor District - F.H. Racer
LA-11513	2011	Meyer, Donna M.	City of Carson Seismic Retrofit of Carson Senior High School. HMGP 1731-71-54, Finding of No Historic Properties
LA-12983	2014	Tang, Bai	Evaluation of Potential Historical Resource Carson Station, Los Angeles County Sheriff's Department Los Angeles County, California UltraSystems Environmental Project No. 5933

Source: Appendix D, Calas Park Cultural Resources Inventory Report.

The CHRIS records search results identified five previously recorded cultural resources within a 1-mile radius of the project site, and none of these resources are located within or are adjacent to the project site (Table 3.5.2).

Table 3.5-2. Previously Recorded Cultural Resources Within 1 Mile of the Project Area

Primary Number	Trinomial	Age	Description	CRHR Eligibility
Outside of Project Area				
P-19-000098	CA-LAN-000098	Prehistoric	Suangna Native American Village	County Point of Historical Interest (1972)
P-19-000795	CA-LAN-000795	Prehistoric	Lithic scatter with shell, bone, and diagnostic artifacts	Not Evaluated
P-19-188395	—	Historic	Carson Terminal, Shell Oil Company	Recommended Not Eligible
P-19-189309	—	Historic	Carson Standpipes	Not Evaluated
P-19-189868	—	Historic	Carson Senior High School	Recommended Not Eligible

Source: Appendix D, Calas Park Cultural Resources Inventory Report.
Note: CRHR = California Register of Historic Resources.

Dudek Archaeologist Ryan Glenn, MA, RPA, conducted a reconnaissance-level pedestrian survey of the project site on January 17, 2025. The pedestrian survey employed standard archaeological procedures and techniques consistent with the Secretary of the Interior's Standards for an archaeological resources inventory. Wherever possible, the survey was conducted in parallel transects, spaced no more than 5 meters apart. Due to the majority of the project site being fully developed with paved parking lots and existing structures, an opportunistic method of examining any visible ground surface was required. Where visible, the ground surface was examined for prehistoric artifacts (e.g., flaked stone tools, tool-making debris, stone milling tools, ceramics, fire-affected rock, imported marine shell), soil discoloration that might indicate the presence of a cultural midden, soil depressions, features indicative of the current or former presence of structures or buildings (e.g., standing exterior walls, post holes, foundations), and historic

artifacts (e.g., metal, glass, ceramics, building materials). Ground disturbances such as rodent/reptile burrows and drainages were also visually inspected for exposed subsurface materials.

When the survey was conducted, the project site was more than 40% developed and covered with either pavement or buildings. Ground surface visibility within the existing project site was variable, with none to fair visibility. Areas that provided some surface visibility included landscaped areas around and within the parking lot, open space south of the parking lot, and the baseball/softball diamonds measuring approximately 98 meters by 122 meters. These areas contained both areas with no vegetation and areas with dense grasses and provided fair to good ground surface visibility. No cultural resources were identified during the pedestrian survey of the project site. As such, there would be **no impact.**

b) Would the project cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?

Less Than Significant Impact with Mitigation Incorporated. The analysis of project impacts on archaeological resources is primarily based on the results of the SCCIC records search, review of historic maps and aerial images, and the pedestrian survey. A review of the historic aerials reveals that the project site has undergone ground-disturbing activities to create and maintain the baseball/softball fields, tennis courts, parking lot, and associated structures over the last 40 years. Prior to that, the project site underwent ground-disturbing activities to support a containment pond, and structures utilized for staging of used cars and other equipment (NETR 2025).

Dudek contacted the Native American Heritage Commission (NAHC) on January 30, 2025, and requested a review of their Sacred Lands File (SLF) for the proposed project site. The SLF consists of a database of known Native American cultural resources. These resources may not be included in the SCCIC database and depicted in the records search results. The NAHC replied via email correspondence on February 11, 2025, stating that the SLF search was completed with negative results. The NAHC additionally provided a list of Native American individuals and/or tribal organizations that should be contacted for more information on potential tribal sensitivities regarding the currently proposed project.

Based on the negative results of the SCCIC records search, NAHC SLF request, and pedestrian survey, the project would not cause a substantial adverse change in the significance of an archaeological resource pursuant to CEQA Guidelines Section 15064.5. However, there are previously recorded prehistoric resources located within the 1-mile record search radius and due to the landscaping and grading that has occurred because of the development of the park it is difficult to determine the presence or absence of subsurface archaeological deposits based on surface observations. Additionally, based on the results of the geotechnical analysis there is a possibility of encountering intact foundations over 50 years in age and the presence of alluvium, which has a moderate potential for supporting the presence of subsurface archaeological deposits. Therefore, the following mitigation measures, **MM-CUL-1**, **MM-CUL-2**, and **MM-CUL-3**, are recommended to ensure that the potential for impacts to unknown archaeological resources would be appropriately addressed and reduced to less-than-significant levels.

MM-CUL-1 Archaeological Monitoring. Prior to ground disturbance activities, the City and/or subsequent responsible parties should retain a Principal Investigator/Archaeologist, meeting the Secretary of the Interior's Standards, and with experience in California prehistoric and historic resources (experience within Los Angeles County preferred), to complete the

following: compose a Cultural Resource Monitoring and Inadvertent Discovery Plan (Plan), manage archaeological monitoring, and address any inadvertent discoveries identified during project implementation. Proof of retainment of the Principal Investigator/Archaeologist should be provided to the City prior to the granting of a grading permit. The purpose of the Plan is to outline cultural monitoring (archaeological and Native American/tribal) protocols and a program of treatment and mitigation in the case of an inadvertent discovery of cultural (archaeological or Native American/tribal) resources during ground-disturbing phases and to provide for the proper identification, evaluation, treatment, and protection of any cultural resources in accordance with CEQA throughout the duration of the project. Existence and importance of adherence to this Plan should be stated on all project site plans intended for use by those conducting the ground-disturbing activities.

The Principal Investigator/Archaeologist should manage archaeological monitoring conducted by archaeological technicians during initial ground disturbances. Initial excavation is defined as initial construction-related earth moving of sediments from their place of deposition. As it pertains to cultural monitoring (archaeological or Native American/tribal), this definition excludes movement of sediments after they have been initially disturbed or displaced by project-related construction. The retained Principal Investigator/Archaeologist should oversee and establish monitoring efforts as needed (increase, decrease, or discontinue monitoring frequency) based on the observed potential for construction activities to encounter cultural deposits or material. Project monitoring may be adjusted based on observed surface conditions if sediments appear unlikely to contain buried intact cultural resources. The archaeological monitor should be responsible for maintaining daily monitoring logs. The requirement for archaeological monitoring should be noted on all construction plans to ensure implementation. Upon completion of all ground-disturbing activities, an archaeological monitoring report should be prepared within 60 days following completion of ground disturbance and submitted to the City for review. This report should document compliance with approved cultural mitigation, all monitoring efforts, and include an appendix with daily monitoring logs. The final report should be submitted to the City and the South Central Coastal Information Center.

MM-CUL-2 Workers Environmental Awareness Program (WEAP) Training. All construction personnel and monitors who are not trained archaeologists should be briefed regarding unanticipated discoveries prior to the start of ground-disturbing activities. A basic presentation should be prepared and presented by a qualified archaeologist to inform all personnel working on the project about the archaeological sensitivity of the area. The purpose of the WEAP training is to provide specific details on the kinds of archaeological materials that may be identified during construction of the project and explain the importance of and legal basis for the protection of significant cultural (archaeological or Native American/tribal) resources. Each worker should also be instructed on the proper procedures to follow in the event that cultural resources or human remains are uncovered during ground-disturbing activities. These procedures include work curtailment or redirection, and the immediate contact of the on-call archaeologist and if appropriate, tribal representative. Necessity of training attendance should be stated on all project site plans intended for use by those conducting the ground-disturbing activities.

MM-CUL-3 Unanticipated Discovery of Archaeological Resources. In the event that archaeological resources (sites, features, or artifacts) are exposed during construction activities for the project, all construction work occurring within 100 feet of the find shall immediately stop until a qualified archaeologist meeting the Secretary of the Interior's Professional Qualification Standards can evaluate the significance of the find. Construction activities may continue in other areas but should be redirected a safe distance from the find. If the new discovery is evaluated and found to be significant under CEQA and avoidance is not feasible, additional work such as data recovery may be warranted. A data recovery plan shall be developed by the qualified archaeologist in consultation with the City and Native American representatives, if applicable. Ground disturbance can continue only after the resources has been properly mitigated and with approval by the City.

c) Would the project disturb any human remains, including those interred outside of formal cemeteries?

Less Than Significant Impact. As discussed above, the project site has undergone maintenance and modification over the past 70+ years of operation. No prehistoric or historic-period burials, including those interred outside of formal cemeteries, were identified within the project site as a result of the CHRIS records search, NAHC SLF search, or archival background research. Based on the results of the previous research and ground-disturbing activities, the potential for human remains to exist within the project site is considered unlikely. However, it is possible that unknown human remains could be encountered during ground disturbance activities associated with project construction.

In the event that human remains are inadvertently encountered during construction activities, the remains and associated resources must be treated in accordance with state and local regulations that provide requirements with regard to the accidental discovery of human remains, including California Health and Safety Code Section 7050.5, California Public Resources Code Section 5097.98, and CEQA Guidelines Section 15064.5(e). In accordance with these regulations, if human remains are found, the County Coroner must be immediately notified of the discovery. No further excavation or disturbance of the project site or any nearby area (within 100 feet of the find) reasonably suspected to overlie adjacent remains must occur until the County Coroner has determined if the remains are potentially human in origin. If the County Coroner determines that the remains are, or are believed to be, Native American, he or she is required to immediately notify the NAHC. The NAHC must immediately notify those persons it believes to be the most likely descendant from the deceased Native American. The most likely descendant must then complete their inspection and determine, in consultation with the property owner, the treatment and disposition of the human remains. Therefore, compliance with state and local regulations identified above would ensure that the project would result in a **less-than-significant impact** related to the inadvertent disturbance of any human remains.

3.6 Energy

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
VI. Energy – Would the project:				
a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?	☐	☐	☒	☐
b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?	☐	☐	☒	☐

a) Would the project result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?

Less-than-Significant Impact. Project implementation would result in energy use for construction and operation, including use of electricity and petroleum-based fuels. The following analysis evaluates the potential wasteful, inefficient, or unnecessary consumption of these energy sources during construction and operation.

Construction Energy Use

Electricity

Electricity consumed during project construction would vary throughout the construction period based on the construction activities being performed. Various construction activities would require electricity, including conveying water that would be used for dust control (supply and conveyance), powering any necessary lighting or electronic equipment, or other construction activities necessitating electrical power. Such electricity demand would be temporary, nominal, and would cease upon the completion of construction. Therefore, the use of electricity during project construction would not be wasteful, inefficient, or unnecessary.

Natural Gas

There would be no natural gas used during construction. Equipment and vehicles would be powered by petroleum-based fuels as discussed below. Therefore, the use of natural gas during project construction would not be wasteful, inefficient, or unnecessary.

Petroleum-Based Fuels

Construction of the project would consume energy resources as a result of the use of heavy-duty construction equipment, on-road delivery and haul trucks, and workers commuting to and from the project

site. Petroleum emissions associated with the use of construction equipment and vehicles, which were used to calculate gallons of petroleum consumed, were calculated using CalEEMod and are provided in Appendix C, Biological Resources Species List. Fuel consumption from construction equipment was estimated by converting the total carbon dioxide (CO_2) emissions from each construction phase to gallons using the conversion factors for CO_2 to gallons of gasoline or diesel. The conversion factor for gasoline is 8.78 kilograms per metric ton (MT) CO_2 per gallon, and the conversion factor for diesel is 10.21 kilograms per MT CO_2 per gallon (The Climate Registry 2025). The estimated fuel usage from construction of the project is shown in Table 3.6-1.

Table 3.6-1. Total Proposed Project Construction Petroleum Demand

Scenario	Off-Road Equipment (diesel)	Haul Trucks (diesel)	Vendor Trucks (diesel)	Worker Vehicles (gasoline)
	Gallons			
Project Construction	58,192	3,444	1,156	3,594
Total Petroleum Consumed for Project Construction				66,386

Source: Appendix E, Energy Calculations.

In summary, construction associated with the development of the project is estimated to consume a total of approximately 66,386 gallons of petroleum. The project would be subject to CARB's In-Use Off-Road Diesel Vehicle Regulation that applies to certain off-road diesel engines, vehicles, or equipment greater than 25 horsepower. The regulation (1) imposes limits on idling, requires a written idling policy, and requires a disclosure when selling vehicles; (2) requires all vehicles to be reported to CARB (using the Diesel Off-Road Online Reporting System) and labeled; (3) restricts the adding of older vehicles into fleets starting on January 1, 2014; and (4) requires fleets to reduce their emissions by retiring, replacing, or repowering older engines or installing Verified Diesel Emission Control Strategies (i.e., exhaust retrofits). The fleet must either show that its fleet average index was less than or equal to the calculated fleet average target rate, or that the fleet has met the Best Achievable Control Technology requirements.

Overall, while construction activities would consume petroleum-based fuels, consumption of such resources would be temporary and would cease upon the completion of construction. Further, the petroleum consumed related to construction would be typical of construction projects of similar types and sizes and would not necessitate new petroleum resources beyond what are typically consumed in California. Therefore, because petroleum use during project construction would be temporary and minimal and would not be wasteful or inefficient, impacts would be **less than significant**.

Operational Energy Use

Once construction is complete, operation of the proposed project would involve routine maintenance activities performed by the City. The proposed park improvements would not expand the footprint of the park or result in a major expansion of facilities that would induce substantial demand or park users. Overall, the project would result in minimal energy consumption during operation.

Petroleum fuel consumption associated with motor vehicles is a function of the vehicle miles traveled (VMT) and fuel efficiency. Utilizing the same methodology for construction petroleum use, operation of the project would lead to an incremental increase of approximately 159 gallons of diesel and 720 gallons of gasoline

per year for a total of 879 gallons of petroleum per year. By comparison, Los Angeles County consumed approximately 2.3 billion gallons of gasoline in 2022 (CEC 2025a). The energy used for maintenance purposes would be minimal and would decrease over time, as staff vehicles and equipment become increasingly efficient, as there are numerous regulations in place that require and encourage increased fuel efficiency. For example, CARB has adopted a new approach to passenger vehicles by combining the control of smog-causing pollutants and greenhouse gas (GHG) emissions into a single coordinated package of standards. The new approach also includes efforts to support and accelerate the numbers of plug-in hybrids and zero-emission vehicles in California (CARB 2025e).

Electricity consumption from the operation of electric pumps would be approximately 86,585 kilowatt-hours (kWh) per year. For context, local electricity demand in Los Angeles County was approximately 68 billion kWh in 2022 (CEC 2025b). Overall, the increase in electricity demand would be minimal and would not be considered inefficient, wasteful, or unnecessary, and impacts would be less than significant. As such, the project's operational energy use would be **less than significant**.

*b) **Would the project conflict with or obstruct a state or local plan for renewable energy or energy efficiency?***

Less-than-Significant Impact. The project would be subject to and would comply with, at a minimum, the California Building Energy Efficiency Standards (24 CCR Part 6 and Part 11), where applicable. These energy efficiency standards are reviewed every 3 years by the Building Standards Commission and the California Energy Commission and are revised if necessary (PRC Section 25402[b][1]). Part 6 of Title 24 establishes energy efficiency standards for non-residential buildings constructed in California in order to reduce energy demand and consumption. Part 11 of Title 24 sets forth voluntary and mandatory energy measures that are applicable to the project under the California Green Building Standards. Overall, impacts related to the project's potential to conflict with plans for renewable energy and energy efficiency would be **less than significant**.

3.7 Geology and Soils

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
VII. GEOLOGY AND SOILS – Would the project:				
a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:				
i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.	☐	☐	☒	☐
ii) Strong seismic ground shaking?	☐	☐	☒	☐

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
iii) Seismic-related ground failure, including liquefaction?	☐	☐	☒	☐
iv) Landslides?	☐	☐	☐	☒
b) Result in substantial soil erosion or the loss of topsoil?	☐	☐	☒	☐
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?	☐	☐	☒	☐
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?	☐	☐	☒	☐
e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?	☐	☐	☐	☒
f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	☐	☒	☐	☐

a) Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:

i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.

and

ii) Strong seismic ground shaking?

Less-than-Significant Impact. The project site is located within a seismically active region, as is most of the Southern California region. The project would likely be exposed to seismic ground shaking at multiple points in the future. The intensity of ground shaking at any specific location within the region depends on the characteristics of the earthquakes, the distance from the earthquake epicenter, and the local geologic and soil conditions. Earthquake fault zones are delineated boundaries encompassing active faults that constitute potential hazards to structures from surface faulting or fault creep (DOC 2018).

The project site is not located within an Alquist-Priolo Earthquake Fault Zone; the nearest faults are the Avalon-Compton Fault located approximately 2.9 miles east of the project site, the Cherry Hill Fault located approximately 3.1 miles east of the project site, and the Northeast Flank Fault located approximately 5.6 miles southeast of the project site (DOC 2025b). Although the project is not located within a delineated earthquake fault zone, it is located within a seismically active region. However, project construction and operation would not increase or exacerbate the potential for fault rupture to occur. Therefore, the project would not directly or indirectly cause potential adverse effects involving rupture of a known earthquake fault, and impacts would be **less than significant**.

iii) Seismic-related ground failure, including liquefaction?

Less-than-Significant Impact. Ground failure is a secondary effect of ground shaking and can include landslides, liquefaction, lurching, and differential settlement. Liquefaction is the loss of soil strength due to seismic forces generating various types of ground failure. Liquefaction occurs when saturated and poorly consolidated granular material is shaken during an earthquake and is transformed into a fluid-like state.

According to maps obtained through the California Department of Conservation and California Geological Survey, a majority of the site is not located in a liquefaction zone except for a small portion in the northeast corner of the park (DOC 2024b). The project's geotechnical investigation determine that based on the soil types and densities encountered in borings, the potential for liquefaction and dynamic settlement at the site is considered low. Full project design would include engineering design standards associated with seismic events, including liquefaction. Standard design and construction techniques such as spread footings, mat foundations, or other design considerations would be incorporated per California Building Code requirements, minimizing hazards due to liquefaction. Therefore, impacts would be **less than significant**.

iv) Landslides?

No Impact. Landslides typically occur on moderate to steep slopes that are affected by such physical factors as slope height, slope steepness, shear strength, and orientation of weak layers in the underlying geologic units. The project site and surroundings are generally flat with soils stabilized by development and landscaping. The project would not result in the creation of moderate to steep slopes that may become susceptible to landslides. As such, **no impact** would occur.

b) Would the project result in substantial soil erosion or the loss of topsoil?

Less-than-Significant Impact. Construction of the project would require earthwork activities that could potentially contribute to soil erosion or loss of topsoil. Construction of the project would result in more than 1 acre of land disturbance; therefore, a site-specific SWPPP in accordance with State Water Resources Control Board Order No. 2009 0008 DWQ, National Pollutant Discharge Elimination System General Permit No. CAS00002 (Construction General Permit), amended by Order No. 2010-0014-DWQ and Order No. 2012-0006-DWQ, would be prepared and implemented during project construction. One of the purposes of the SWPPP is to address potential pollutants and their sources, including sources of sediment and site erosion. Conditions of these existing regulations would include adherence to sediment and stormwater pollutant control BMPs, such as covering of exposed soil stockpiles, sediment barriers, storm drain protection, and various other measures designed to minimize potential for soil erosion and loss of

topsoil. Disturbed areas would be returned to existing conditions or stabilized by new field replacement, asphalt, or landscape plantings. Operation of the proposed stormwater capture and treatment facility would not affect erosion. Therefore, the project would not result in substantial soil erosion of the loss of topsoil and impacts would be **less than significant**.

c) Would the project be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?

Less-than-Significant Impact. As previously discussed, the project site does not contain soils susceptible to liquefaction. Full project design would include continued geotechnical investigations to inform final design and construction of the project relative to minimization of potential geotechnical risks, including soil stability, per applicable California Building Code requirements. Therefore, the project would not exacerbate geotechnical hazards related to unstable soils and impacts would be **less the significant**.

d) Would the project be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?

Less-than-Significant Impact. Expansive soils are clay-based and tend to increase in volume due to water absorption and decrease in water volume due to drying. Full project design would include continued geotechnical investigations including sampling and analysis of soils on site. If such conditions are encountered, the project would employ standard engineering protocols to limit the potential effects on project-related infrastructure. Therefore, impacts would be **less than significant**.

e) Would the project have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?

No Impact. The project would not involve the use of septic tanks or alternative wastewater disposal systems. Therefore, **no impact** would occur.

f) Would the project directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?

Less-than-Significant Impact with Mitigation. Paleontological resources are the remains or traces of plants and animals that are preserved in Earth's crust, and per the Society of Vertebrate Paleontology (SVP 2010) guidelines, are older than written history or older than approximately 5,000 years, which approximates the middle Holocene. They are limited, nonrenewable resources of scientific and educational value, which are afforded protection under state laws and regulations.

According to surficial geologic mapping by Dibblee et al. (1999) at a scale of 1:24,000 and by Saucedo et al. (2016) at a scale of 1:100,000, and the geologic time scale of Cohen et al. (2024), the project site is underlain by late Holocene (present to 4,200 years ago) alluvium (map unit Qa) and early Holocene (8,200 to 11,700 years ago) alluvium that has been slightly elevated and dissected (map unit Qae). Saucedo et al. (2016) shows the area underlain by early Holocene to late Pleistocene (8,200 to 129,000 years ago) young alluvial fan deposits, undivided (map unit Qyf) and late Pleistocene (11,700 to 129,000 years ago) old alluvium, undivided (map unit Qoa). Geotechnical borings conducted by Ninyo & Moore (2025) show

alluvium underlying fill. At approximately 7.5 feet below ground surface, small amounts of caliche were encountered within several boreholes, which may be an indicator of older (e.g., Pleistocene age) sediments. Fill was generally encountered to a depth of approximately 2.5 feet and up to 6 feet below the ground surface (bgs) in one borehole. The retention basin has an anticipated excavation of up to 20 feet bgs, pipelines up to 10 feet of excavation, and bioswales up to 5 feet of excavation (Ninyo & Moore 2025).

Dudek requested a paleontological records search from the Natural History Museum of Los Angeles County (NHMLA) on December 6, 2024, and the results were received on March 9, 2025. The NHMLA reported no vertebrate fossil localities from within the proposed project site; however, they did nearby localities from similar sediments that likely underlie the project site on the surface and at depth. Nearby localities reported by the NHMLA are as follows (closest locality listed first): LACM VP 4129, approximately 1.15 miles southeast of the project site, yielded a camel and a proboscidean (e.g., mammoths and mastodons) from 24 feet bgs; LACM VP 3319, approximately 1.73 miles northeast of the project site, produced a mammoth from 30 feet bgs; LACM IP 4788/4806/20338, approximately 2.22 miles southwest of the project site, yielded invertebrates; and LACM IP 21125, approximately 2.93 miles northwest of the project site, produced invertebrates. All localities were found in Pleistocene age sedimentary deposits (unnamed Quaternary sedimentary deposits and the San Pedro Formation (NHMLA 2025- Confidential Appendix F). The San Pedro Formation likely underlies the project site at an undetermined depth bgs.

A search of online paleontological databases and previous localities reported for other projects in the area produced three nearby localities, all from the Palos Verdes Sand, which is not anticipated to be impacted based on anticipated construction plans for the project. Fossil locality LACM IP 129, approximately 2.01 miles south/southwest, produced invertebrates from 20 feet bgs; LACM VP 3085 and LACM IP 77, approximately 2.31 miles southwest, included fish, rays, a toothed whale, and invertebrates; CIT 484, approximately 2.84 miles northwest, produced a fossil seal (PBDB 2025; NHMLA 2025).

No paleontological resources were identified within the project site as a result of the institutional records search or desktop geological and paleontological review. In addition, the project site is not anticipated to be underlain by unique geologic features. Areas of the project site underlain by Holocene age deposits have low paleontological sensitivity increasing to high sensitivity with depth, where middle Holocene and Pleistocene age deposits have high paleontological sensitivity. If intact paleontological resources are discovered on site, ground-disturbing activities associated with construction of the project have the potential to destroy a unique paleontological resource or site. As such, the project site is considered to be potentially sensitive for paleontological resources, and without mitigation, the potential damage to paleontological resources during construction associated with the project is considered a potentially significant impact. With the implementation of **MM-GEO-1**, impacts would be reduced to a less-than-significant level.

MM-GEO-1 Prior to commencement of any grading activity on site, the City shall retain a qualified paleontologist per the Society of Vertebrate Paleontology (SVP) (2010) guidelines. The paleontologist shall prepare a Paleontological Resources Impact Mitigation Program (PRIMP) for the project. The PRIMP shall be consistent with the SVP (2010) guidelines and should outline requirements for preconstruction meeting attendance and worker environmental awareness training; where monitoring is required within the proposed project site based on construction plans and/or geotechnical reports; procedures for adequate paleontological monitoring and discoveries treatment; and paleontological

methods (including sediment sampling for microvertebrate fossils), reporting, and collections management. The qualified paleontologist shall attend the preconstruction meeting and a qualified paleontological monitor shall be on site during all rough grading and other significant ground-disturbing activities (including augering) in previously undisturbed, middle Holocene and Pleistocene age alluvial deposits. In the event that paleontological resources (e.g., fossils) are unearthed during grading, the paleontological monitor will temporarily halt and/or divert grading activity to allow recovery of paleontological resources. The area of discovery will be roped off with a 50-foot radius buffer. Once documentation and collection of the find is completed, the monitor will remove the rope and allow grading to recommence in the area of the find.

3.8 Greenhouse Gas Emissions

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
VIII. GREENHOUSE GAS EMISSIONS – Would the project:				
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	☐	☐	☒	☐
b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	☐	☐	☒	☐

a) Would the project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

Less-than-Significant Impact. GHGs are those that absorb infrared radiation (i.e., trap heat) in the Earth's atmosphere. The trapping and buildup of heat in the atmosphere near the Earth's surface (the troposphere) is referred to as the "greenhouse effect" and is a natural process that contributes to the regulation of the Earth's temperature, creating a livable environment on Earth. The Earth's temperature depends on the balance between energy entering and leaving the planet's system, and many factors (natural and human) can cause changes in Earth's energy balance. Human activities that generate and emit GHGs into the atmosphere increase the amount of infrared radiation that gets absorbed before escaping into space, thus enhancing the greenhouse effect and causing the Earth's surface temperature to rise. This rise in temperature has led to large-scale changes to the Earth's system (e.g., temperature, precipitation, wind patterns), which are collectively referred to as climate change. Global climate change is a cumulative impact; a project contributes to this impact through its incremental contribution combined with the cumulative increase of all other sources of GHGs. Thus, GHG impacts are recognized exclusively as cumulative impacts (CAPCOA 2008).

As defined in California Health and Safety Code Section 38505(g) for purposes of administering many of the state's primary GHG emissions reduction programs, GHGs include CO_2, methane (CH_4), nitrous oxide (N_2O), hydrofluorocarbons, perfluorocarbons, sulfur hexafluoride, and nitrogen trifluoride (see also CEQA Guidelines Section 15364.5). The primary GHGs that would be emitted by project-related construction and operations include CO_2, CH_4, and N_2O.[9]

The Intergovernmental Panel on Climate Change developed the global warming potential (GWP) concept to compare the ability of each GHG to trap heat in the atmosphere relative to another gas. The reference gas used is CO_2; therefore, GWP-weighted emissions are measured in MT of CO_2 equivalent (CO_2e). The current version of CalEEMod assumes that the GWP for CH_4 is 25 (so emissions of 1 MT of CH_4 are equivalent to emissions of 25 MT of CO_2), and the GWP for N_2O is 298, based on the Intergovernmental Panel on Climate Change's Fourth Assessment Report (IPCC 2007).

Section 15064.7(c) of the CEQA Guidelines specifies that "when adopting thresholds of significance, a lead agency may consider thresholds of significance previously adopted or recommended by other public agencies, or recommended by experts, provided the decision of the lead agency to adopt such thresholds is supported by substantial evidence." The CEQA Guidelines do not prescribe specific methodologies for performing an assessment, establish specific thresholds of significance, or mandate specific mitigation measures. Rather, the CEQA Guidelines emphasize the lead agency's discretion to determine the appropriate methodologies and thresholds of significance that are consistent with the manner in which other impact areas are handled in CEQA (CNRA 2009).

As discussed in Section 3.3, Air Quality, the proposed project is located within the jurisdictional boundaries of the SCAQMD. In October 2008, the SCAQMD proposed recommended numeric CEQA significance thresholds for GHG emissions for lead agencies to use in assessing GHG impacts of residential and commercial development projects as presented in its Draft Guidance Document—Interim CEQA Greenhouse Gas (GHG) Significance Threshold (SCAQMD 2008b). This document, which builds on the California Air Pollution Control Officers Association's previous guidance, explored various approaches for establishing a significance threshold for GHG emissions. The draft interim CEQA thresholds guidance document was not adopted or approved by the Governing Board. However, in December 2008, the SCAQMD adopted an interim 10,000 MT CO_2e per-year screening level threshold for stationary source/industrial projects for which the SCAQMD is the lead agency (SCAQMD 2010). The 10,000 MT CO_2e per-year threshold, which was derived from GHG reduction targets established in Executive Order S-3-05, was based on the conclusion that the threshold was consistent with achieving an emissions capture rate of 90% of all new or modified stationary source projects.

The SCAQMD formed a GHG CEQA Significance Threshold Working Group to work with SCAQMD staff on developing GHG CEQA significance thresholds until statewide significance thresholds or guidelines are established. From December 2008 to September 2010, the SCAQMD hosted working group meetings and revised the draft threshold proposal several times, although it did not officially provide these proposals in a subsequent document. The SCAQMD has continued to consider adoption of significance thresholds for residential and general land use development projects. The most recent proposal issued by SCAQMD,

[9] Emissions of hydrofluorocarbons, perfluorocarbons, sulfur hexafluoride, and nitrogen trifluoride are generally associated with industrial activities, including the manufacturing of electrical components and heavy-duty air conditioning units and the insulation of electrical transmission equipment (substations, power lines, and switch gears). Therefore, emissions of these GHGs were not evaluated or estimated in this analysis because the project would not include these activities or components and would not generate hydrofluorocarbons, perfluorocarbons, sulfur hexafluoride, or nitrogen trifluoride in measurable quantities.

issued in September 2010, uses the following tiered approach to evaluate potential GHG impacts from various uses (SCAQMD 2010):

Tier 1. Determine if CEQA categorical exemptions are applicable. If not, move to Tier 2.

Tier 2. Consider whether or not the proposed project is consistent with a locally adopted GHG reduction plan that has gone through public hearing and CEQA review, that has an approved inventory, includes monitoring, etc. If not, move to Tier 3.

Tier 3. Consider whether the project generates GHG emissions in excess of screening thresholds for individual land uses. The 10,000 MT CO_2e per-year threshold for industrial uses would be recommended for use by all lead agencies. Under option 1, separate screening thresholds are proposed for residential projects (3,500 MT CO_2e per year), commercial projects (1,400 MT CO_2e per year), and mixed-use projects (3,000 MT CO_2e per year). Under option 2, a single numerical screening threshold of 3,000 MT CO_2e per year would be used for all non-industrial projects. If the project generates emissions in excess of the applicable screening threshold, move to Tier 4.

Tier 4. Consider whether the project generates GHG emissions in excess of applicable performance standards for the project service population (population plus employment). The efficiency targets were established based on the goal of AB 32 to reduce statewide GHG emissions to 1990 levels by 2020. The 2020 efficiency targets are 4.8 MT CO_2e per-service population for project-level analyses and 6.6 MT CO_2e per-service population for plan-level analyses. If the project generates emissions in excess of the applicable efficiency targets, move to Tier 5.

Tier 5. Consider the implementation of CEQA mitigation (including the purchase of GHG offsets) to reduce the project efficiency target to Tier 4 levels.

To determine the proposed project's potential to generate GHG emissions that would have a significant impact on the environment, its GHG emissions were compared to the SCAQMD 3,000 MT CO_2e per year screening threshold recommended for non-industrial projects.

Construction Emissions

Construction of the project would result in GHG emissions, which are primarily associated with off-road construction equipment, on-road haul and vendor trucks, and worker vehicles. The SCAQMD recommends that "construction emissions be amortized over a 30-year project lifetime, so that GHG reduction measures will address construction GHG emissions as part of the operational GHG reduction strategies" (SCAQMD 2008b). CalEEMod was used to calculate the annual GHG emissions based on the construction scenario described in Section 3.3, Air Quality. Table 3.8-1 presents the GHG emissions resulting from construction of the project. For further detail on the assumptions and results of this analysis, please refer to Appendix A, Air Quality and Greenhouse Gas Modeling.

Table 3.8-1. Estimated Annual Construction Greenhouse Gas Emissions

Year	CO_2	CH_4	N_2O	R	CO_2e
	Metric Tons				
2026	183.32	0.01	<0.01	0.02	184.61
2027	489.34	0.02	0.01	0.07	492.81
				Total	**677.42**
				Amortized Construction Emissions (Over 30-Years)	*22.58*

Source: Appendix A, Air Quality and Greenhouse Gas Modeling.
Notes: CO_2 = carbon dioxide; CH_4 = methane; N_2O = nitrous oxide; R = refrigerants; CO_2e = carbon dioxide equivalent; 0.01 = value is less than 0.005.
Totals may not sum due to rounding.

As shown in Table 3.8-1, the estimated total GHG emissions during construction would be approximately 677 MT CO_2e. Estimated project-generated construction emissions amortized over 30 years would be approximately 23 MT CO_2e per year. In addition, as with project-generated construction criteria air pollutant emissions, GHG emissions generated during proposed construction activities would be short term, lasting only for the duration of the construction period, and would not represent a long-term source of GHG emissions.

Operational Emissions

Once construction is complete, project operation is anticipated to entail routine maintenance performed at the stormwater capture facility and other park features. Reservoir maintenance would entail removal of debris and pollutant constituents from the treatment devices, pump testing and calibration, and cleaning the storage reservoir. During long-term operations, the project would generate GHG emissions from mobile sources, including two maintenance workers accessing the site, and energy sources, including one electric pump to pump stormwater and one electric pump to assist the existing irrigation system. The electric pumps would consume approximately 86,585 kWh of electricity per year. The electric pumps were modeled as off-road equipment in CalEEMod, and the GHG emissions associated with their use were accounted for as an Energy source.

Table 3.8-2 presents the GHG emissions resulting from operation of the project. For further detail on the assumptions and results of this analysis, please refer to Appendix A, Air Quality and Greenhouse Gas Modeling.

Table 3.8-2. Estimated Annual Operational Greenhouse Gas Emissions

Emissions Source	CO_2	CH_4	N_2O	R	CO_2e
	Metric Tons				
Mobile	7.95	<0.01	<0.01	0.01	8.05
Energy	13.60	<0.01	<0.01	N/A	13.68
				Total Operational Emissions	**21.73**
				Amortized Construction Emissions	*22.58*
				Total	**44.31**
				SCAQMD Threshold	*3,000*

Table 3.8-2. Estimated Annual Operational Greenhouse Gas Emissions

Emissions Source	CO_2	CH_4	N_2O	R	CO_2e
	Metric Tons				
				Exceeds Threshold?	No

Source: Appendix A, Air Quality and Greenhouse Gas Modeling.
Notes: CO_2 = carbon dioxide; CH_4 = methane; N_2O = nitrous oxide; R = refrigerants; CO_2e = carbon dioxide equivalent; 0.01 = value is less than 0.005.
Totals may not sum due to rounding.

As shown in Table 3.8-2, the project would not exceed the SCAQMD threshold of 3,000 MT CO_2e per year. Projects below this significance criterion have a minimal contribution to global GHG emissions and are considered to have less-than-significant impacts. Therefore, operational impacts associated with directly or indirectly generating a significant quantity of GHG emissions would be **less than significant**.

b) Would the project generate conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

Less-than-Significant Impact. Applicable plans for the project site include SCAG's 2024–2050 RTP/SCS, CARB's 2017 and 2022 Scoping Plan Updates to address Senate Bill (SB) 32 and AB 1279, and the 2017 City of Carson Climate Action Plan (CAP). Each of these plans is described below along with an analysis of the proposed project's potential to conflict with the related GHG emission reduction goals.

Project Consistency with SCAG's 2024-2050 RTP/SCS

On April 4, 2024, SCAG adopted the 2024–2050 RTP/SCS, also referred to as Connect SoCal 2024. Connect SoCal 2024 builds on the prior RTP/SCS and identifies the following strategy areas to support its environmental goals: Sustainable Development, Air Quality, Clean Transportation, Natural and Agricultural Lands Preservation, and Climate Resilience (SCAG 2024). The primary objective of the 2024–2050 RTP/SCS is to provide guidance for future regional growth (i.e., the location of new residential and non-residential land uses) and transportation patterns throughout the region, as stipulated under SB 375. Given that the proposed project involves the renovation of an existing park and the construction of a stormwater capture and treatment facility, the goals and strategies of the 2024–2050 RTP/SCS are not directly applicable. As such, the proposed project would not conflict with the goals and policies of the 2024–2050 RTP/SCS and impacts would be less than significant.

Project Consistency with State Reduction Targets and CARB's Scoping Plans

The California State Legislature passed the Global Warming Solutions Act of 2006 (Assembly Bill [AB] 32) to provide initial direction to limit California's GHG emissions to 1990 levels by 2020 and initiate the state's long-range climate objectives. Since the passage of AB 32, the state has adopted GHG emissions reduction targets for future years beyond the initial 2020 horizon year. For the proposed project, the relevant GHG emissions reduction targets include those established by SB 32 and AB 1279, which require GHG emissions be reduced to 40% below 1990 levels by 2030, and 85% below 1990 levels by 2045, respectively. In addition, AB 1279 requires the state achieve net zero GHG emissions by no later than 2045 and achieve and maintain net negative GHG emissions thereafter.

As defined by AB 32, CARB is required to develop the Scoping Plan, which provides the framework for actions to achieve the state's GHG emission targets. The Scoping Plan is required to be updated every 5 years and requires CARB and other state agencies to adopt regulations and initiatives that will reduce GHG emissions statewide. The first Scoping Plan was adopted in 2008, and it was updated in 2014, 2017, and most recently in 2022. Although the Scoping Plan is not directly applicable to specific projects, nor is it intended to be used for project-level evaluations,[10] it is the official framework for the measures and regulations that will be implemented to reduce California's GHG emissions in alignment with the adopted targets. Therefore, a project would be found to not conflict with the statutes if it would meet the Scoping Plan policies and would not impede attainment of the goals therein.

CARB's 2017 Scoping Plan update was the first to address the state's strategy for achieving the 2030 GHG reduction target set forth in SB 32 (CARB 2017); the most recent CARB 2022 Scoping Plan update outlines the state's plan to reduce emissions and achieve carbon neutrality by 2045 in alignment with AB 1279 and assesses progress toward the 2030 SB 32 target (CARB 2022). As such, given that SB 32 and AB 1279 are the relevant GHG emission targets, the 2017 and 2022 Scoping Plan updates are the most applicable to the proposed project.

The 2017 Climate Change Scoping Plan Update included measures to promote renewable energy and energy efficiency (including the mandates of SB 350), measures to increase stringency of the Low Carbon Fuel Standard, measures identified in the Mobile Source and Freight Strategies, measures identified in the proposed Short-Lived Climate Pollutant Plan, and measures to increase stringency of SB 375 targets. The 2022 Scoping Plan for Achieving Carbon Neutrality builds upon and accelerates programs currently in place, including moving to zero-emission transportation; phasing out use of fossil gas use for heating homes and buildings; reducing chemical and refrigerants with high GWP; providing communities with sustainable options for walking, biking, and public transit; and displacement of fossil fuel fired electrical generation through use of renewable energy alternatives (e.g., solar arrays and wind turbines) (CARB 2022).

Many of the measures and programs included in the Scoping Plan would result in the reduction of project-related GHG emissions with no action required at the project-level, including GHG emission reductions through increased energy efficiency and renewable energy production (SB 350), reduction in carbon intensity of transportation fuels (Low Carbon Fuel Standard), and the accelerated efficiency and electrification of the statewide vehicle fleet (Mobile Source Strategy). Given that the proposed project is also not anticipated to result in substantial increase in mobile trips, the project would also not conflict with the 2017 update's goal of reducing GHG emissions through reductions in VMT statewide.

The 2045 carbon neutrality goal required CARB to expand proposed actions in the 2022 update to include those that capture and store carbon in addition to those that reduce anthropogenic sources of GHG emissions. The proposed project would support the state's carbon neutrality goals, as implementation includes addition of urban trees and native plantings throughout the project site, which represent opportunities for potential carbon removal and sequestration over the project lifetime. However, the 2022 update emphasizes that reliance on carbon sequestration in the state's natural and working lands will not be sufficient to address residual GHG emissions, and achieving carbon neutrality will require research,

[10] The Final Statement of Reasons for the amendments to the CEQA Guidelines reiterates the statement in the Initial Statement of Reasons that "the Scoping Plan may not be appropriate for use in determining the significance of individual projects because it is conceptual at this stage and relies on the future development of regulations to implement the strategies identified in the Scoping Plan" (CNRA 2009).

development, and deployment of additional methods to capture atmospheric GHG emissions (e.g., mechanical direct air capture). Given that the specific path to neutrality will require development of technologies and programs that are not currently known or available, the project's role in supporting the statewide goal would be speculative and cannot be wholly identified at this time.

Overall, the proposed project would comply with all regulations adopted in furtherance of the Scoping Plan to the extent applicable and required by law. As mentioned above, several Scoping Plan measures would result in reductions of project-related GHG emissions with no action required at the project-level, including those related to energy efficiency, reduced fossil fuel use, and renewable energy production. As demonstrated above, the proposed project would not conflict with CARB's 2017 or 2022 Scoping Plan updates or with the state's ability to achieve the 2030 and 2045 GHG reduction and carbon neutrality goals.

Project Consistency with City of Carson Climate Action Plan

The South Bay Cities Council of Governments developed the City of Carson CAP in December 2017, which outlines a comprehensive strategy to address climate change and promote sustainability within the community. The CAP identifies key areas to support its goals, Land Use and Transportation, Energy Efficiency, Solid Waste, Urban Greening, and Energy Generation and Storage. The primary objectives of the CAP are to reduce GHG emissions, enhance community and neighborhood sustainability, promote zero-emission vehicles, advance energy and water efficiency, reduce waste, transform built environments into green spaces, and support renewable energy and storage. Given that the proposed project involves the construction of a stormwater capture and treatment facility and improvements to an existing park, many of the goals and strategies of the CAP are not directly applicable. However, the project would support the goals related to community and neighborhood sustainability and water efficiency through the stormwater capture and treatment facility and park improvements. As such, the proposed project would not conflict with the goals and policies of the CAP, and impacts would be less than significant.

Based on the preceding considerations, the proposed project would not conflict with any applicable plan, policy, or regulation of an agency adopted for the purpose of reducing GHG emissions, and impacts would be **less than significant**.

3.9 Hazards and Hazardous Materials

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
IX. HAZARDS AND HAZARDOUS MATERIALS – Would the project:				
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	☐	☐	☒	☐

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?	☐	☐	☒	☐
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	☐	☐	☒	☐
d) Be located on a site that is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?	☐	☐	☐	☒
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?	☐	☐	☐	☒
f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	☐	☐	☒	☐
g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?	☐	☐	☐	☒

a) Would the project create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?

Less-than-Significant Impact. Relatively small amounts of commonly used hazardous substances such as gasoline, diesel fuel, lubricating oil, adhesive materials, grease, solvents, and architectural coatings would be used during construction. Operation and maintenance of the project would also require routine use of common hazardous substances. These materials are used routinely throughout urban environments for construction projects and operation of utility infrastructure. These materials would be transported and handled in accordance with all federal, state, and local laws regulating the management and use of hazardous materials. Consequently, use of these materials for their intended purpose would not pose a significant risk to the public or environment. With adherence to state and local regulations, impacts associated with routine transport, use, and disposal of hazardous materials would be **less than significant**.

b) Would the project create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?

Less-than-Significant Impact. As discussed under Section 3.9(a), Hazards and Hazardous Materials, construction and operation would involve relatively small amounts of commonly used hazardous substances such as gasoline, diesel fuel, lubricating oil, grease, adhesive materials, and solvents. These materials are not considered acutely hazardous and are used routinely throughout urban environments for both construction and operation of projects. Further, these materials would be transported, handled, and disposed of in accordance with all federal, state, and local laws regulating the management of, spill prevention, and spill response, related to, hazardous materials. Impacts would be **less than significant**.

c) Would the project emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?

Less-than-Significant Impact. Two schools are located within 0.25 miles of the project site. This includes Carnegie Middle School, located at 21820 Bonita Street, adjacent to the project site's northern boundary along East 220th Street and Bonita Elementary School, located at 21929 Bonita Street, adjacent to the project site's western boundary along Bonita Street. Construction and operation of the project would involve relatively small amounts of commonly used hazardous substances such as gasoline, diesel fuel, lubricating oil, grease, adhesive materials, and solvents. These materials are used routinely throughout urban environments for construction projects and would not pose a significant risk to the public or environment. Additionally, these materials would be transported and handled in accordance with all federal, state, and local laws regulating the management and use of hazardous materials. Additionally, a construction HRA was performed for the project, which demonstrates that the TAC exposure from construction diesel exhaust emissions would not result in cancer risk above the 10 in 1 million threshold or a Chronic Hazard Index more than 1 for school children at Bonita Street Elementary School and Carnegie Middle School (see Table 3.3-7). As such, impacts would be **less than significant**.

d) Would the project be located on a site that is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?

No Impact. According to the California Department of Toxic Substances Control EnviroStor database, no sites or facilities are located within or adjacent to the project site. The nearest identified active site is Gardena Valley Landfill No. 6, a Voluntary Cleanup Site, located approximately 0.75 miles north of the project site (DTSC 2025). Other state and local government agencies are required to provide additional hazardous materials release information for the Cortese List. The State Water Resources Control Board GeoTracker database identifies leaking underground storage tanks, waste discharge sites, oil and gas sites, and other waste or cleanup sites. A review of GeoTracker did not identify any sites or facilities within or adjacent to the project site. The nearest identified site with open-site assessment status is the Dominguez Channel at Carson Street (ID No. T10000003058) a Cleanup Program Site, located approximately 0.22 miles northeast of the project site (SWRCB 2025). These hazardous materials sites are located at adequate distances from the project site such that they would be of no concern to present a worker hazard for construction crews. Therefore, **no impact** would occur.

e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?

No Impact. The project site is approximately 4.2 miles south of the Compton/Woodley Airport, 5 miles northeast of the Torrance Municipal Airport, 5.4 miles west of the Long Beach Airport, 7.6 miles south of the Hawthorne Municipal Airport, and 10.5 miles southeast of the Los Angeles International Airport. The project site does not fall within the airport land use plan for these airports. The project is not located within 2 miles of a public use airport. Therefore, **no impact** would occur.

f) Would the project impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?

Less-than-Significant Impact. The City has prepared a Draft Hazard Mitigation Plan. The hazard mitigation plan is a document that contains information to assist communities in reducing risk from hazards by identifying resources, information, and strategies for risk reduction (City of Carson 2024). A stormwater diversion structure would be constructed to connect the proposed system to existing storm drains under East 220th Street and Bonita Street. Additionally, an underground storage reservoir installed beneath the baseball/softball and soccer outfields at Calas Park would be connected directly to the diversion pipeline and an outflow pipeline for sending water back into an existing catch basin beneath East 220th Street. As such, project construction would require the temporary partial closures of East 220th Street and small portion of Bonita Street. The temporary partial closures of East 220th Street and Bonita Street would be performed pursuant to a traffic control plan prepared by the contractor and subject to City approval, which would demonstrate that emergency access or evacuation would not be impeded. Traffic on East 220th Street and Bonita Street would resume to existing conditions upon completion of the project. Impacts would be **less than significant**.

g) Would the project expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?

No Impact. According to the California Department of Forestry and Fire Protection (CAL FIRE), The project site is located within a Local Responsibility Area and is not located within a Very High Fire Hazard Severity Zone (CAL FIRE 2024). The nearest Very High Fire Hazard Severity Zone is located approximately 4.7 miles southwest of the project site. In the event of an emergency, fire response services for the project are provided by the Los Angeles Couty Fire Department. Construction and operation of the project would comply with Article III, Chapter 1 of the City's Municipal Code, which adopts the Los Angeles County Fire Code by reference. The project would not include structures intended for long-term occupancy or include development that could exacerbate fire risk. Furthermore, the project site is relatively flat and the proposed project would not alter land on the project site; therefore it would not influence prevailing winds or other factors that could exacerbate wildfire risk. As such, people and structures would not be exposed to a significant risk of loss, injury, or death involving wildfires. **No impact** would occur.

3.10 Hydrology and Water Quality

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
X. HYDROLOGY AND WATER QUALITY – Would the project:				
a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?	☐	☐	☒	☐
b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?	☐	☐	☒	☐
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:				
i) result in substantial erosion or siltation on- or off-site;	☐	☐	☒	☐
ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off site;	☐	☐	☒	☐
iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or	☐	☐	☒	☐
iv) impede or redirect flood flows?	☐	☐	☒	☐
d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?	☐	☐	☐	☒
e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?	☐	☐	☒	☐

a) Would the project violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?

Less-than-Significant Impact. The project site is located within the boundaries of the DC WMG. The DC WMG EWMP outlines the water quality objectives, and includes measures to reduce discharge pollutants, and protect and improve the Dominguez Channel water bodies (DC WMG 2016).

Construction of the project would involve ground-disturbing activities for grading that could result in sediment discharge in stormwater runoff. Additionally, construction would involve the use of oil, lubricants, and other chemicals that could be discharged from leaks or accidental spills. These potential sediment and chemical discharges during construction would have the potential to impact water quality in receiving water bodies. However, because the project would disturb over 1 acre of land, the project would be required to prepare and implement a SWPPP, which would include water quality BMPs to ensure that water quality standards are met and that runoff from the construction work areas does not cause degradation of water quality in receiving water bodies. Through the incorporation of BMPs through implementation of SWPPP requirements, impacts associated with water quality standards during construction would be less than significant.

The project is a result of the Stipulated Order, which is in response to violations occurring from the discharge of untreated wastewater into the Dominguez Channel. The project would decrease the amount of pollutants in stormwater and dry-weather runoff entering the Dominguez Channel, helping to achieve EWMP goals and MS4 permit compliance. Upon operation, existing stormwater flows would be diverted and treated prior to infiltration and/or discharge, resulting in water quality benefits compared to existing conditions. Ongoing maintenance and sampling would ensure that the project is performing as expected in terms of treatment of stormwater. Therefore, impacts during operation would be **less than significant**.

b) Would the project substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?

Less-than-Significant Impact. Groundwater was measured at a depth of approximately 28 feet for borings taken as part of the project's geotechnical investigation (Ninyo & Moore 2025). The project would include the installation of an underground storage reservoir that would connect to existing storm drains to collect stormwater. would facilitate infiltration of captured stormwater, allowing water to seep into the underlying aquifer and providing natural filtration through the soil. In this way, the project would increase groundwater recharge in areas under the park. The project would not otherwise result in a substantial change in impervious surfaces that would affect groundwater infiltration because the proposed park rehabilitation would replace all existing amenities with improved features that would not substantially alter the amount of impervious surface and would be consistent with the existing uses and conditions at the park. Additionally, the project would not entail temporary or permanent use of groundwater and, thus, would not deplete groundwater within the project vicinity. Therefore, the project would not substantially decrease groundwater supplies or interfere substantially with groundwater recharge; impacts would be **less than significant**.

c) Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:

i) Result in substantial erosion or siltation on- or off-site?

and

ii) Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off site?

and

iii) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?

and

iv) Impede or redirect flood flows?

Less-than-Significant Impact. The project would not substantially alter existing drainage patterns, including streams or river courses. Construction of the project would entail temporary earthwork to excavate and install the storage reservoir and associated infrastructure. Implementation of the project-specific SWPPP, including BMPs, would prevent substantial erosion and siltation of exposed soils during construction activities. Once construction of the stormwater infrastructure is complete, the park facilities would be replaced with enhanced facilities to serve the needs of park visitors.

In operation, the intent of the project is to capture and divert stormwater flows, which would be directed to the underground system and therefore would not result in substantial erosion, siltation, or runoff. Operation of the stormwater infrastructure would improve the stormwater system because it would improve storage and filtration capabilities, which would reduce pollution of stormwater runoff. The project would not result in a substantial change in impervious surfaces within the project site because the proposed park rehabilitation would include the replacement of existing features with similar, enhanced park features. Therefore, implementation of the project would not substantially alter the existing drainage pattern of the site or area in a way that would cause substantial erosions, flooding, polluted runoff, or changes to flood flows. Impacts would be **less than significant**.

d) In flood hazard, tsunami, or seiche zones, would the project risk release of pollutants due to project inundation?

No Impact. According to Federal Emergency Management Agency flood maps, the project site is located in a Flood Zone X. The western portion of the project site is mapped as an "area of minimal flood hazard" and the eastern portion of the site is mapped as an "Area with reduced flood risk due to levee (FEMA 2008). Additionally, the project site is not located within a tsunami inundation zone and seiches do not pose a hazard to the project site (DOC 2025c). The project would include the construction of a stormwater capture and treatment facility, which would improve the water quality of the Dominguez Channel Estuary. As discussed in Section 3.10(a), Hydrology and Water Resources, the project would prepare a SWPPP, which would include water quality BMPs to ensure that water quality standards are met and that runoff from the construction work areas would not cause degradation of water quality in receiving water bodies. Upon completion of construction, the project would not require the storage of pollutants that, in the event of inundation, could be released. A pump would be installed to pump stormwater back to the storm drain system during low flow conditions and discharging into the Dominguez Channel, similar to existing flow conditions except the stormwater flow would be pre-treated. Therefore, **no impact** associated with the risk of release of pollutants due to project inundation in a flood hazard, tsunami, or seiche zone would occur.

e) Would the project conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?

Less-than-Significant Impact. As discussed in greater detail in Chapter 1, Introduction, the proposed project is a result of the Stipulated Order, which is in response to violations occurring from the discharge of

untreated wastewater into the Dominguez Channel. The project would include runoff storage and water quality benefits for the City and other DC WMG members, helping to achieve EWMP goals and MS4 permit compliance. As such, the project would implement the applicable water quality control plan for the region. As discussed previously, the project would allow for infiltration into the underlying soils and would not interfere with groundwater supplies. Therefore, the project would not conflict with a water quality control plan or sustainable groundwater management plan and impacts would be **less than significant**.

3.11 Land Use and Planning

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XI. LAND USE AND PLANNING – Would the project:				
a) Physically divide an established community?	☐	☐	☐	☒
b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?	☐	☐	☐	☒

a) Would the project physically divide an established community?

No Impact. The project site would be located on approximately 4.6 acres of Calas Park. The project would not create a physical division of an existing community, like what could occur with the development of a freeway or large linear infrastructure. The project would not result in a removal of an existing means of access, such as a road or bridge, that would impede mobility with an existing community and other areas. Upon completion, recreational use of the affected portion of the park would resume consistent with existing conditions. Therefore, the project would not physically divide an established community, and **no impact** would occur.

b) Would the project cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?

No Impact. The project site is zoned as Open Space and has a General Plan land use designation of Park/Open Space. The project would include the construction of a stormwater capture and treatment facility, primarily located underground, and park improvements to the existing Calas Park. Upon completion, recreational use of the affected portion of the park would resume under similar conditions. Implementation of the project would not result in a change to land uses. Potential environmental impacts associated with the implementation of the project are analyzed throughout this MND. The project will incorporate applicable mitigation measures to reduce environmental impacts. Therefore, the project would not be in conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect. Therefore, **no impacts** would occur.

3.12 Mineral Resources

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XII. MINERAL RESOURCES – Would the project:				
a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?	☐	☐	☐	☒
b) Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?	☐	☐	☐	☒

a) ***Would the project result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?***

and

b) ***Would the project result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?***

No Impact. The project site is entirely developed and within an urban area. No mineral resources are known to occur on or near the project site (USGS 2025). Therefore, the project would not result in any loss of availability of a known mineral resource or locally important mineral resource recovery site, and **no impact** would occur.

3.13 Noise

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XIII. NOISE – Would the project result in:				
a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	☐	☒	☐	☐
b) Generation of excessive groundborne vibration or groundborne noise levels?	☐	☐	☒	☐

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?	☐	☐	☐	☒

This section is based on technical analysis conducted by Dudek, including quantitative estimates of noise emissions based on assumptions developed in consultation with the project design engineers. The results of the noise estimates are provided as Appendix G, Noise Assessment Data, to this MND.

Existing Setting

The Project is located in the southern portion of the City of Carson, which is in southwestern Los Angeles County, California. To the north, the park is bounded by East 220th Street, followed by Carnegie Middle School, a grassy area containing the transmission line corridor, and residential uses. To the south, the park is bounded by East Jay Street, followed by residential uses, and East 223rd Street, followed by light industrial/warehousing, office, and commercial uses. To the east, the park is bounded by South Edgar Street, followed by residential uses. To the west, the park is bounded by residential uses.

Represented by locations ST1, ST2, and ST3 in Table 3.13-1, the existing outdoor ambient sound environment of the project location was sampled during a field survey conducted on February 20, 2025 (see Figure 5). Collected sample sound pressure level measurements at these locations, along with documented investigator observations regarding perceived or witnessed acoustical contributors to this baseline or pre-project noise environment, also appear in Table 3.13-1. These locations are intended to be representative of the existing single-family homes adjoining the project area. Photographs, tagged survey positions, and instrument details can be found in Appendix G, Noise Assessment Data.

Table 3.13-1. Measured Samples of Existing Outdoor Ambient Sound Level

Survey Position	Description/Address	Time	L_{eq} (dBA)	L_{max} (dBA)	L_{min} (dBA)	Notes (Perceived Sound Sources)
ST1	1037 E 220th St, Carson, California 90745	1:12 p.m.–1:27 p.m.	59.6	74.7	47.4	Traffic, Birds, Distant Landscape Noise, Aircraft Noise
ST2	Western Calas Park boundary	12:37 p.m.–12:52 p.m.	54.7	75.9	47.7	Traffic, Birds, Distant Dog Barking, Rustling Leaves, Distant Aircraft
ST3	1002 E Jay St, Carson, California 90745	12:54 p.m.–1:09 p.m.	52.1	65.7	46.8	Traffic, Birds, Distant Landscape Noise, Rustling Leaves

Source: Appendix G, Noise Assessment Data.

Notes: L_{eq} = equivalent continuous sound level (time-averaged sound level); dBA = A-weighted decibels; L_{max} = maximum sound level during the measurement interval; L_{min} = minimum sound level during the measurement interval.

The measured outdoor energy-equivalent sound level (L_{eq}) values appearing in Table 3.13-1 range from 52.1 to 59.6 A-weighted decibels (dBA) and are consistent with expectations for the environment based on the distance to roadways, such as East 220th Street.

Regulatory Setting and Thresholds of Significance

In the City of Carson, construction activities near single-family residential areas are regulated under the Carson Municipal Code, specifically Section 5502(c), which amends the Los Angeles County Noise Control Ordinance to establish local standards. Construction is permitted Monday through Saturday from 7:00 a.m. to 8:00 p.m., and is prohibited on Sundays and legal holidays. For construction activities lasting 20 days or less, the maximum allowable exterior noise level is 75 dBA during permitted hours and 60 dBA during prohibited hours. For activities extending beyond 20 days, the limits are reduced to 65 dBA during permitted hours and 55 dBA during prohibited hours. These noise levels are measured at the property line of the affected single-family residence. Compliance with these standards is mandatory for all construction projects and is enforced by the City of Carson to minimize noise impacts on residential neighborhoods.

a) Would the project result in generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?

Construction

Less-than-Significant Impact with Mitigation. Construction of the project would result in the temporary generation of noise at the project site. Construction would involve the use of heavy equipment and machinery, such as excavators, loaders, cranes, temporary generators, scrapers, and other equipment. Construction would generate levels of noise that can vary from hour to hour and day to day depending on the equipment in use, the operations being performed, and the distance between the source and receptor. Typically, construction equipment operates in alternating cycles of full power and low power, producing average noise levels less than the maximum noise level. The average sound level of construction activity also depends on the amount of time that the equipment operates and the intensity of construction activities during that time. Aggregate noise emission from construction activities, broken down by phase, was predicted at two evaluation distances to the nearest existing noise-sensitive receptor: (1) from the nearest position of the construction site boundary, and (2) from the center of the construction site. The closest existing noise-sensitive residential receptor is approximately 50 feet to the west of the proposed project's western boundary. At the site boundary, this analysis assumes that only the two loudest pieces of equipment, comparable to Federal Transit Administration general assessment guidance, for the listed phase will be involved in construction activity for a limited portion of the 8-hour workday. In other words, at such proximity, the operating equipment cannot "stack" or crowd the vicinity and still operate.

Table 3.13-2 presents the estimated construction noise level (8-hour L_{eq}) for each anticipated phase of project construction activity. Details of these predictions in Appendix G, Noise Assessment Data, show the expected acoustical contribution from each type of operating construction equipment for each phase.

Table 3.13-2. Estimated Per-Phase Construction Noise Levels

Project Construction Activity Phase	Nearest Horizontal Distance to Nearest Noise-sensitive Receptor (Feet)	Predicted 8-hour L_{eq} (dBA) for Nearest Distance	Centroid Horizontal Distance to Nearest Noise-sensitive Receptor (Feet)	Predicted 8-hour L_{eq} (dBA) for Centroid Distance
Demolition	50	72.9	200	68.5
Site Preparation	50	74.2	200	69.2
Underground Stromwater Storage system excavation	150	67.5	200	68
Underground stormwater storage system construction	150	67.6	200	64.6
Storm drain diversion and pretreatment	50	74	200	64.4
Outlet Line	50	74.7	200	67.4
Landscape and Site improvements	50	73.9	200	63.8

Source: Appendix G, Noise Assessment Data.
Note: L_{eq} = energy-equivalent sound level; dBA = A-weighted decibel

As presented in Table 3.13-2, the estimated construction noise levels are predicted to reach up to 74.7 dBA L_{eq} over an 8-hour period at the nearest existing residences, located approximately 50 feet from the project's western boundary during outlet line activities. These estimates are based on modeling assumptions that limit the operation of heavy equipment to a cumulative period of up to 1 hour per day during the demolition, site preparation, and landscape and site improvement phases. However, if construction equipment were to operate for longer durations or concurrently during the same workday, the noise levels could potentially exceed the 65 dBA 8-hour L_{eq} threshold established by the City for single-family residential areas, as specified in Carson Municipal Code Section 5502(c) for long-term construction activities (lasting more than 20 days).

At more typical distances, closer to the center of the project site (approximately 200 feet from the nearest residence), construction noise levels are estimated to range from approximately 64 dBA L_{eq} to 69 dBA L_{eq}. To ensure compliance with the 65 dBA 8-hour L_{eq} threshold and to mitigate potential exceedances, **MM- NOI-1** shall be implemented. Proper implementation of **MM-NOI-1**, including the installation of 8-foot-tall temporary noise barriers along the project boundaries, can reduce noise levels by up to 12 decibels, thereby reducing the estimated unmitigated construction noise levels to approximately 64.7 dBA L_{eq}, which is within the acceptable limit.

In summary, while construction noise during allowable daytime hours (between 7:00 a.m. and 8:00 p.m.) has the potential to exceed the 65 dBA 8-hour L_{eq} threshold at the nearest residential receptors, the incorporation of **MM-NOI-1** is recommended to reduce construction noise exposure levels. With the implementation of this mitigation measure, temporary construction-related noise would be less than significant.

The outcome of the King & Gardiner Farms versus Kern County judge's decision established a requirement for construction noise analyses to disclose the relative increase of construction noise over ambient noise

levels. Construction noise levels would cause a temporary increase of up to 15 dB to 23 dB L_{eq} over existing ambient noise levels, which would be perceived as being up to four times as loud to average healthy hearing.

Operation

Less-than-Significant Impact. Upon completion of construction, the project would feature underground infrastructure to convey stormwater. Operation of powered mechanical systems would be enclosed in a concrete "wet well" below grade with only a double-door hatch to the above-surface environment. Hence, noise from operation of pump would be isolated by the closed access hatch and would result in predicted noise levels that are less than 30 dBA at a radius of over 50 feet from the hatch, well below the existing noise environment (Table 3.13-1). On this basis and compared to the measurement samples of L_{eq} presented in Table 3.13-1, project operation noise is anticipated to be less than the existing outdoor ambient level at the noise-sensitive residential receptor.

Replacement of the athletic fields after construction of the subsurface stormwater capture system would restore Calas Park conditions prior to the proposed project, which includes visitors enjoying sports or spectating from bleachers at locations on the field perimeters. Therefore, noise from these on-site field activities that involve participant and spectator speech and related sound emission would be relatively unchanged. Project operation noise would be considered **less than significant**.

The following mitigation measure would apply during project construction activities:

MM-NOI-1 Temporary Construction Noise Reduction. The City or its contractor shall implement one or more of the following options for on-site noise control and sound abatement means that, in aggregate, would yield a minimum of 10 dB of construction noise reduction during construction of the project:

- ***Administrative controls*** (e.g., further reduce operating time of equipment and/or prohibit usage of equipment type[s] within certain distances to a nearest receiving occupied off-site property).
- ***Engineering controls*** (change equipment operating parameters [e.g., speed, capacity], or install features or elements that otherwise reduce equipment noise emission [e.g., upgrade engine exhaust mufflers]).
- ***Install noise abatement*** on the site boundary fencing (or within, as practical and appropriate) in the form of sound blankets or comparable temporary solid barriers to occlude construction noise emission between the site (or specific equipment operation as the situation may define) and the noise-sensitive receptor(s) of concern.

b) Would the project result in generation of excessive groundborne vibration or groundborne noise levels?

Less-than-Significant Impact. Vibration is oscillatory movement of mass (typically a solid) over time. Depending on their distances to a sensitive receptor, operation of large bulldozers, graders, loaded dump trucks, or other heavy construction equipment and vehicles on a construction site have the potential to cause high vibration amplitudes.

The Carson Municipal Code does not have a vibration threshold against which project construction-related ground-borne vibration impacts to the community can be assessed. For purposes of this impact assessment, a vibration velocity level of 0.2 inches per second (ips) peak particle velocity (PPV) is used as

the standard for evaluating human annoyance (to perceived ground-borne vibration within an occupied structure) and the potential risk for residential building damage due to "continuous" or frequently occurring ground-borne vibration events (Caltrans 2020).

Ground-borne vibration attenuates rapidly, even over short distances. The attenuation of ground-borne vibration as it propagates from source to receptor through intervening soils and rock can be estimated with expressions found in Federal Transit Administration and Caltrans guidance. By way of example, for a bulldozer or grader operating as close as 50 feet to the nearest receiving residential land use during the site preparation construction phase as shown in Table 3.13-2, the estimated vibration velocity level would be 0.031 ips per the equation as follows (FTA 2018):

$$PPV_{rcvr} = PPV_{ref} \times (25/D)^{1.5} = 0.031 \text{ ips PPV} = 0.089 \times (25/50)^{1.5}$$

In the above equation, PPV_{rcvr} is the predicted vibration velocity at the receiver position (i.e., residence), PPV_{ref} is the reference value at 25 feet from the vibration source (the bulldozer), and D is the actual horizontal distance to the receiver from the source.

Predicted ground-borne vibration velocity PPV values associated with project construction are below the 0.2 ips PPV threshold for building occupant annoyance and building damage risk. Impacts during construction would be less than significant.

Once operational, the proposed project would not be expected to feature major producers of ground-borne vibration. For this reason, project operation ground-borne vibration at off-site receptors would be considered **less than significant**.

c) ***For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?***

No Impact. There are no public airports or private airfields within 2 miles of the project and the project area is far from any aviation traffic noise contour greater than 65 dBA community noise equivalent level. Construction workers and park users would not be exposed to significant aviation noise levels. **No impact** would occur.

3.14 Population and Housing

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XIV. POPULATION AND HOUSING – Would the project:				
a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?	☐	☐	☐	☒

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?	☐	☐	☐	☒

a) Would the project induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?

No Impact. Construction of the project would result in a temporary direct increase in construction jobs in the area. However, given the relatively small nature of the project construction and anticipated schedule, the demand for construction employment would likely be met within the existing and future labor market in the City and in the greater Los Angeles County area. If construction workers live outside of the City, these workers would likely commute during the temporary construction period. Operationally, the project does not contain land uses that typically result in direct population growth, such as new homes or large commercial/business centers. The project would not change the use of the existing Calas Park. Upon completion, the project would improve Calas Park to further serve the existing and anticipated future demand for recreational uses within the City. Additionally, the project is consistent with underlying land use and zoning designations. Therefore, the project would not directly result in substantial unplanned population growth in the area.

The project is located in an area served by existing roads and infrastructure. The project does not include the extension of utility infrastructure, such as sewer lines or roads, into previously undeveloped areas that may indirectly induce growth. Therefore, the project would not indirectly result in substantial unplanned population growth in the area. **No impact** would occur.

b) Would the project displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?

No Impact. The project site does not contain any existing housing or provide other means of housing people. The project would not displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere. **No impact** would occur.

3.15 Public Services

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XV. PUBLIC SERVICES – Would the project:				
a) Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the public services:				
Fire protection?	☐	☐	☐	☒
Police protection?	☐	☐	☐	☒
Schools?	☐	☐	☐	☒
Parks?	☐	☐	☒	☐
Other public facilities?	☐	☐	☐	☒

a) ***Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the public services:***

Fire protection? Police protection? Schools? Other public facilities?

No Impact. As discussed in Section 3.14, Population and Housing, the project would not induce substantial unplanned population growth in the area. As such, construction, operation, and maintenance of the project would not require new or physically altered facilities associated with fire protection, police protection, schools, or other public facilities. Therefore, **no impacts** would occur.

Parks?

Less-than-Significant Impact. The project is located within Calas Park and would result in physical alteration to an existing park. The total duration of project construction is anticipated to last 14 months and would require temporary closure of the park. Depending on the construction phase, affected portions of Calas Park would be temporarily closed to the public for the duration of the construction phase. The construction area would be fenced off for safety and security purposes and made unavailable for public use during project construction. The proposed stormwater capture and treatment facility would be located primarily underground and would not affect park use. The project would also include replacing the existing baseball/softball and soccer fields, replacing the outfield fence along East 220th Street, and planting new trees as described in Section 2.2.2, Park Improvements. Upon completion of construction, recreational use of the park would resume similar to existing conditions. As such, implementation of the project would not require the provision of new parks. Therefore, impacts to parks as a result of the project would be **less then significant**.

3.16 Recreation

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XVI. RECREATION				
a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	☐	☐	☒	☐
b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?	☐	☐	☒	☐

a) ***Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?***

Less-than-Significant Impact. The total duration of project construction is anticipated to last 14 months and would require the temporary closure of portions of Calas Park. As such, project construction may result in the temporary increase in use of other parks in the City. However, upon completion of construction, recreational use of the affected portion of the park would resume under existing conditions. As such, impacts to recreational facilities would be **less than significant**.

b) ***Does the project include recreational facilities or require the construction or expansion of recreational facilities, which might have an adverse physical effect on the environment?***

Less-than-Significant Impact. The project would include improvements to the existing Calas Park. As discussed in Section 3.16(a), Recreation, the temporary closure of the park may result in an increase in use of other parks in the City. However, upon completion of construction, recreational use of the affected portion of the park would resume under existing conditions. Furthermore, as discussed in Section 3.14, Population and Housing, implementation of the project would not induce population growth. As such, the project would not require the construction or expansion of recreational facilities. Potential environmental impacts associated with the implementation of the project are analyzed throughout this MND. Impacts would be **less than significant**.

3.17 Transportation

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XVII. TRANSPORTATION – Would the project:				
a) Conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities?	☐	☐	☒	☐
b) Conflict or be inconsistent with CEQA Guidelines Section 15064.3, subdivision (b)?	☐	☐	☒	☐
c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	☐	☐	☒	☐
d) Result in inadequate emergency access?	☐	☐	☒	☐

a) Would the project conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?

Less-than-Significant Impact. The project would not conflict with applicable programs, plans, ordinances, or policies addressing the circulation system, as further discussed below. This includes the City's General Plan Circulation Element (City of Carson 2023); the Carson Master Plan of Bikeways (City of Carson 2013); and the existing and proposed roadway, pedestrian, bicycle and transit facilities and services in the project area.

General Plan Circulation Element

The Circulation Element furthers the General Plan's vision and objectives of promoting multi-modal mobility, enhancing connection and access across the community, and supporting development of "Complete Streets," while minimizing adverse impacts of truck traffic. The Circulation Element seeks to improve access and safety for all roadway users, and encourage walking, biking, and the use of public transit to meet local and regional goals. (City of Carson 2023). The following guiding policies are relevant to the project:

- **CIR-G-1:** Provide a balanced transportation system of multimodal networks providing a broad range of travel options to make transportation convenient, comfortable, and safe for people of all abilities.
- **CIR-G-2:** Promote bicycling and walking, and support and improve connections to local and regional transit service.
- **CIR-G-3:** Manage the transportation network to minimize roadway congestion, while balancing traffic Level of Service (LOS) objectives with promoting reduction in vehicle miles traveled and considerations of community character and design.

Carson Master Plan of Bikeways

The Carson Master Plan of Bikeways lays out a strategic vision for enhancing bicycle transportation in the city. This plan is the guiding document for all bicycle infrastructure, policies, and programs in Carson. The plan is a blueprint to enable citizens to feel safe and comfortable when bicycling throughout the City, and it aims to encourage more citizens to partake in this healthy, environmentally conscious transportation choice. The plan proposes an extensive network of streets designed to be safe and comfortable for bicyclists, with the goal of enhancing the practical use of bicycles as a transportation choice. Using the planned network, people in Carson can reach schools, shopping, jobs, recreational activities, and other important destinations—all without the need to drive. In addition to the proposed bikeway network, the Master Plan of Bikeways also contains bikeway design guidelines, recommended programs and policies to encourage bicycle travel and increase cyclist safety, potential funding sources for implementing the plan, and an implementation framework that prioritizes the most important bikeway projects.

Transit, Bicycle, and Pedestrian Facilities

Public transportation in the City is provided by the Los Angeles County Metropolitan Transportation Authority, Torrance Transit, Long Beach Transit, Compton Renaissance Transit, and Gardena Transit. The City of Carson provided a service called the Carson Circuit; however, it was discontinued during the COVID- 19 pandemic and the City has instead offered Dial-A-Ride services for all adult Carson residents (City of Carson 2022). The nearest transit route to the site is Long Beach Transit Route 8, with service on East 223rd Street. Long Beach Transit Route 8 is an east-west route that connects Long Beach and Carson. The nearest bus stop to the project site is located at the intersection of East 223rd Street and South Edgar Street, approximately 0.18 miles south of the project site, servicing Long Beach Transit Route 8. The route operates from approximately 5:05 a.m. to 8:10 p.m. on weekdays, and from 10:45 a.m. to 5:55 p.m. on Saturday. The bus stop at the intersection of Bonita Street and Carson Street is located approximately 0.27 miles northwest of the projects, servicing Long Beach Transit Route 4. Long Beach Transit Route 4 operates from approximately 5:11 a.m. to 8:49 p.m. on weekdays, and from 10:10 a.m. to 5:49 p.m. on Saturdays.

There are numerous existing and proposed bike facilities within the vicinity of the project site, including a Class III bike route on Carson Street, between Figueroa Street and the Dominguez Channel, and a Class II bike lane on Avalon Boulevard, between East 223rd Street and Deloras Drive. Proposed bike facilities in the vicinity of the project site include Class III bike routes on East 220th Street, between Figueora Street and East 223rd Street, and on Bonita Street, between East 223rd Street and East 213th Street (City of Carson 2023).

The City of Carson is well served by sidewalks, with relatively few gaps in the sidewalk network. Sidewalks are present along most streets throughout the City except for some neighborhoods and industrial areas. Pedestrian crosswalks are provided at signalized and, occasionally, unsignalized intersections (City of Carson 2023).

Impact Analysis

The project entails constructing and operating a stormwater capture and treatment facility within the northern portion of Calas Park, replacing the existing baseball/softball and soccer fields once construction is complete, and improving amenities that will be similar in nature to the existing features.

Construction

The project would result in a temporary, short-term increase in traffic during construction. This includes construction workers arriving to and from the project site and the delivery of large construction equipment and hauling trips to the site as needed. The total duration of project construction is anticipated to be 14 months, with some phases overlapping. Typical construction work hours would be Monday through Friday, 7:00 a.m. to 8:00 p.m., pursuant to the City of Carson Noise Control Ordinance. Night work is not anticipated.

Regional access to the park is from I-405, which is approximately 0.2 miles to the northeast; State Route 47, which is approximately 1.6 miles to the east; and I-110, which is approximately 1.7 miles to the west. Local construction access would be provided from East 220th Street. Temporary equipment staging and construction trailers would be established within the existing park boundary, with no additional off-site staging anticipated to be needed. Project construction would require the temporary partial closures of East 220th Street and Bonita Street. No full road closures are anticipated, and access to surrounding driveways would be maintained at all times. The temporary partial closures of East 220th Street and Bonita Street would be performed pursuant to a traffic control plan prepared by the contractor and subject to City approval. The traffic control plan would include measures such as identifying the proposed truck routes, minimizing and/or avoiding truck travel during peak hours, using flaggers for local site access, and other measures. All lane closures would be performed pursuant to the traffic control plan. With implementation of the traffic control plan, the potential impact to the local circulation would be minimized and there would be no changes that would affect the safety and accessibility of the transportation system.

Construction of the reservoir would entail removing the field surface and excavating earth material up to approximately 20 feet below ground surface. Material would be placed into dump trucks and hauled off site to a licensed landfill or quarry for reuse or disposal. The full extent of the material haul route or routes would be determined by the contractor and City of Carson Public Works Department once a disposal site has been identified. It is anticipated that the local route would follow South Edgar Street to East 223rd Street, which is a designated truck route in the City of Carson (City of Carson 2023), to Figueroa Street to access I-405 or I-110. Due to the nominal and temporary increase in construction traffic, any effect on the operations of roadways or the overall circulation system along these roads would be minimal.

The baseball/softball and soccer fields are expected to be closed to the public for the duration of project construction, which is anticipated to be approximately 14 months. The remaining portions of the park (tennis courts, basketball courts, parking lot, and playground) would be open to the public during construction.

The nearest bicycle facility to the project site is a Class III bike route on Carson Street between Figueroa Street and the Dominguez Channel. Long Beach Transit Route 8 is the nearest transit route to the site, with service on East 223rd Street, and a bus stop located on East 223rd Street, near South Edgar Street. The transit, bicycle, and pedestrian facilities would remain open during construction, and the temporary and minimal increase in construction-related traffic would not interfere with existing public transit, bicycle, or pedestrian facilities. Impacts would be **less than significant**.

Operations

The proposed park improvements would replace existing amenities with improved features that would allow for similar active and passive recreation uses as under existing conditions, but with an enhanced experience for park users. Once the stormwater capture system is installed, Field 2 would be replaced with an updated multipurpose field to be used for both softball and soccer. Other improvements include replacing the existing outfield fence along East 220th Street with a 12-foot fence and planting three new sycamore trees with root barriers.

Calas Park is served by multiple existing roads, including East 220th Street, South Edgar Street, and numerous local streets surrounding the site. Park users would also continue to be served by the existing transit, bicycle, and pedestrian facilities near the site. The project would reconstruct the sidewalk and drain immediately west of the tennis courts to repair surface lifting and damage. A decomposed granite path would be installed on the east side of the tennis courts to provide a connection from the sidewalk into the park.

The project would not include site improvements that would extend into the public right-of-way or interfere with the existing roadway network, public transit, bicycle, or pedestrian facilities, or impede the construction of new or the expansion of existing facilities in the future. Bicyclist and pedestrian safety would be maintained at existing levels in the area. The project would also not severely delay, impact, or reduce the service level of transit in the area.

Therefore, the proposed project would not conflict with the circulation policies within the City's General Plan or the Carson Master Plan of Bikeways. Impacts would be **less than significant**.

b) Would the project conflict or be inconsistent with CEQA Guidelines Section 15064.3, subdivision (b)?

Less-than-Significant Impact. CEQA Guidelines Section 15064.3(b) focuses on VMT for determining the significance of transportation impacts. The Updated CEQA Guidelines state that "generally, vehicle miles traveled (VMT) is the most appropriate measure of transportation impacts," and define VMT as "the amount and distance of automobile travel attributable to a project." "Automobile" refers to on-road passenger vehicles, specifically cars and light trucks. The Governor's Office of Land Use and Climate Innovation (LCI), formerly known as the Governor's Office of Planning and Research, has clarified in its *Technical Advisory on Evaluating Transportation Impacts in CEQA* (LCI Technical Advisory) that heavy-duty truck VMT is not required to be included in the estimation of a project's VMT (LCI 2018).

The City has not yet established VMT guidelines or thresholds for evaluating transportation impacts under CEQA; therefore, the VMT Analysis was based on the LCI Technical Advisory and the Los Angeles County Public Works *Transportation Impact Analysis Guidelines* (Los Angeles County Public Works 2020). Based on guidance provided from LCI, and per the County's guidelines, land use projects can be screened from a VMT analysis if it generates 110 or fewer daily (permanent) trips, is a local serving retail use (50,000 square feet or less), is and office or residential use located in a low VMT area, is within a transit priority area, or is an affordable housing project. A project only needs to satisfy one of the screening criteria to be exempt from further VMT.

Construction

CEQA Guidelines Section 15064.3(b) is divided into four subdivisions: (1) land use projects, (2) transportation projects, (3) qualitative analysis, and (4) methodology. The project is not a land use or transportation project; and the project would not result in a major expansion of Calas Park. Therefore, neither Section 15064.3(b)(1) nor Section 15064.3(b)(2) of the CEQA Guidelines apply. Instead, the project would be categorized under Section 15064.3(b)(3), suitable for qualitative analysis and not subject to a quantitative threshold. Furthermore, the County's project size screening criterium (projects generating 110 daily trips or less) are intended to address permanent vehicle trips. Therefore, a qualitative analysis of the project construction is provided.

The project would involve construction that would generate temporary construction-related traffic for approximately 14 months. Even though worker and vendor trips would generate VMT, once construction is completed, the construction-related traffic would cease, and traffic would return to pre-construction conditions. Measures to reduce the VMT generated by workers and trucks are limited, and there are no thresholds or significance criteria for temporary, construction-related VMT. The project construction would be generally consistent with construction activities in terms of the temporary nature of activities, trip generation characteristics, and the types of vehicles and equipment required. The increase in VMT associated with the projects' construction is expected to be temporary; therefore, VMT impact would be **less than significant**.

Operations

Once construction is complete, project operation is anticipated to entail routine maintenance activities at the stormwater capture facility performed by City staff. Activities would include removal of debris and pollutant constituents from the treatment devices, pump testing and calibration, monitoring/sampling of treatment, and cleaning the storage reservoir. Proposed park improvements would not expand the footprint of Calas Park or result in a major expansion of facilities that would induce substantial demand or park users. The operation of the project can be considered a "small project" per the County's Transportation Impact Analysis Guidelines and OPR's Technical Advisory, given that it would not generate greater than 110 daily trips[11] and would therefore be presumed to have a **less-than-significant** VMT impact.

Therefore, the project would not conflict or be inconsistent with CEQA Guidelines Sections 15064.3(b)(1) and 15064.3(b)(3) and impacts would be **less than significant**.

[11] This threshold ties directly to the OPR technical advisory and notes that CEQA provides a categorical exemption for existing facilities, including additions to existing structures of up to 10,000 square feet, so long as the project is in an area where public infrastructure is available to allow for maximum planned development and the project is not in an environmentally sensitive area (14 CCR 15301[e][2]). Typical project types for which trip generation increases relatively linearly with building footprint (i.e., general office building, single tenant office building, office park, and business park) generate or attract an additional 110-124 trips per 10,000 square feet. Therefore, absent substantial evidence otherwise, it is reasonable to conclude that the addition of 110 or fewer trips could be considered not to lead to a significant impact.

c) Would the project substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?

Construction

Less-than-Significant Impact. The project site is located in an established, developed area with direct access to designated local and regional truck routes. Transportation and haul permits would be required from Caltrans and the City of Carson for construction truck traffic. The project would not introduce uses (types of vehicles) that are incompatible with existing uses already served by the area's road system during either construction or operations.

Construction would also require temporary work in East 220th Street and Bonita Street and portions of traffic lanes would be closed. No full road closures are anticipated. The project would implement a traffic control plan to be prepared by the contractor and approved by the City Engineer. All lane closures would be performed pursuant to the traffic control plan. With implementation of the traffic control plan, there would be no changes that would affect the safety and accessibility of the transportation system. Therefore, impacts associated with hazardous design features or incompatible land uses during construction of the project would be **less than significant**.

Operations

Less-Than-Significant Impact. Access to the site would be provided from existing city streets and from the existing park driveway. There would be no changes to the existing off-site circulation on City roads. Therefore, the project would not substantially increase hazards due to a roadway design feature or introduce incompatible uses during operation of the project. Impacts would be **less than significant**.

d) Would the project result in inadequate emergency access?

Construction

Less-Than-Significant Impact. The project site is located in an established, developed area with sufficient access for emergency service providers. Construction would require temporary work in East 220th Street and Bonita Street, which would require closing portions of the travel lanes. However, construction activities would occur on the project site and no full road closures in the public right-of-way or driveway closures are anticipated that would impact adopted emergency access or response plans. As part of the traffic control plan, the contractor would follow standard construction practices and ensure that adequate on-site circulation and access is always maintained for all users, including coordinating with local emergency response providers (local police, fire, and medical dispatch) regarding proposed construction activities. As such, construction of the project would have a **less-than-significant impact** related to emergency access.

Operations

Less-than-Significant Impact. As previously discussed, the project site is located in an established, developed area with sufficient access for emergency service providers. There would be no changes to the existing off-site circulation on City roads during project operations. As such, operation of the project would have a **less-than-significant impact** related to emergency access.

3.18 Tribal Cultural Resources

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XVIII. TRIBAL CULTURAL RESOURCES				
Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code Section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:				
a) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code Section 5020.1(k), or	☐	☐	☒	☐
b) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1? In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.	☐	☒	☐	☐

The evaluation of potential impacts to Tribal Cultural Resources (TCRs) is primarily based on the findings resulting from tribal consultation conducted by the City, as the lead agency, as well as the findings of Section 3.5, Cultural Resources, in this MND. Background research and fieldwork conducted to inform this analysis include a NAHC SLF search, archival research and CHRIS database records search, a pedestrian survey of the project site, and the results of formal tribal consultation pursuant to California AB 52.

The project is subject to compliance with AB 52 (PRC 21074), which requires consideration of impacts to TCRs as part of the CEQA process, and that the lead agency notify California Native American Tribal representatives (that have requested notification) who are traditionally or culturally affiliated with the geographic area of the proposed project. All NAHC-listed California Native American Tribal representatives that have requested project notification pursuant to AB 52 were sent letters by the City on April 30, 2025. The notification letters contained a project description, outline of AB 52 timing, an invitation to consult, a project site figure, and contact information for the appropriate lead agency representative. To date, one response has been received by the City from the Santa Rosa Band of Cahuilla Indians deferring any comments to the Sobaba Band of Luiseno Indians. A response was not received from the Sobaba Band of Luiseno Indians.

Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code Section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:

a) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code Section 5020.1(k)?

Less-Than-Significant Impact. As discussed in Section 3.5, Cultural Resources, no previously recorded archaeological resources of Native American origin or TCRs listed in the California Register of Historical Resources or a local register were identified within the project area as a result of the SCCIC records search, the NAHC SLF results, or the pedestrian survey. Additionally, the City notified California Native American Tribal representatives who are traditionally or culturally affiliated with the geographic area of the project pursuant to AB 52. As discussed above, one response was received from the Santa Rosa Band of Cahuilla Indians deferring any comments to the Sobaba Band of Luiseno Indians. A response was not received from the Sobaba Band of Luiseno Indians. Therefore, the project would not adversely affect TCRs that are listed or eligible for listing in the state or local register. Impacts would be **less than significant**.

b) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1? In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.

Less Than Significant Impact with Mitigation Incorporated**.** The project is subject to compliance with AB 52 (PRC 21074), which requires consideration of impacts to TCRs as part of the CEQA process and requires lead agencies to provide notification of proposed projects to California Native American Tribal representatives that have requested such notifications.

No TCRs were identified as a result of the response provided from the Santa Rosa Band of Cahuilla Indians. However, in an abundance of caution and in an effort to protect unknown TCRs, the City has developed mitigation measures (**MM-CUL-1** through **MM-CUL-3**), as outlined in Section 3.5, Cultural Resources, to ensure the proper treatment of unknown subsurface cultural and tribal cultural resources in the event of an inadvertent discovery. Impacts would be **less than significant with mitigation**.

3.19 Utilities and Service Systems

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XIX. UTILITIES AND SERVICE SYSTEMS – Would the project:				
a) Require or result in the relocation or construction of new or expanded water, waste water treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?	☐	☐	☒	☐
b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry, and multiple dry years?	☐	☐	☒	☐
c) Result in a determination by the waste water treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?	☐	☐	☐	☒
d) Generate solid waste in excess of state or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?	☐	☐	☒	☐
e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?	☐	☐	☐	☒

a) Would the project require or result in the relocation or construction of new or expanded water, waste water treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?

Less-than-Significant Impact. The project includes the construction of a stormwater capture and treatment facility and improvements to the existing Calas Park. The proposed stormwater facility would intercept stormwater and dry-weather flow from existing storm drain channels within East 220th Street and route it into the filtration facility, where it would be allowed to infiltrate into underlying soils or it would be treated and discharged into an existing catch basin. The proposed pump associated with the treatment facility would be electrically powered, thus requiring an additional connection to the electrical power that currently serve the park's lights and irrigation system. Connection to these existing distribution facilities would be sufficient for providing power to the project and would not require any other relocation or construction of electrical power facilities. The project would also require

reconstruction of minor existing water infrastructure in the removal and replacement of the existing irrigation pipes and sprinkler heads. These minor improvements are features of the project that would be subject to engineering design to ensure adjacent facilities and users are not negatively affected. Any relocation of existing facilities would not be substantial enough to result in a significant impact pursuant to CEQA. Impacts would be **less than significant**.

b) Would the project have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?

Less-than-Significant Impact. Project construction would temporarily require a minor amount of water primarily associated with site watering in compliance with SCAQMD Rule 403 to prevent, reduce, or mitigate fugitive dust emissions from construction activities. Once construction is complete, operational changes in water use would include the minor irrigation changes. Other existing components of the park that require water would not change their existing usage. As such, operation of the project would not demand additional water use. Therefore, impacts would be **less than significant**.

c) Would the project result in a determination by the waste water treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?

No Impact. Construction and operation of the project would not generate wastewater demand. Therefore, **no impacts** would occur.

d) Would the project generate solid waste in excess of state or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?

Less-than-Significant Impact. During construction, the project would generate solid waste such as residual wastes, plastics, and soils. Construction-generated solid waste would be temporary and would cease once construction is completed. Solid waste generated by project construction would be properly disposed of at designated landfill facilities for construction and demolition debris. In 2011, California AB 341 was passed, establishing a state goal to reduce, recycle, or compost no less than 75% of waste generated by the year 2020. Operation of the project would not generate any substantial additional solid waste beyond current park conditions. As such, solid waste generated by the project would not exceed state or local standards or the capacity of local infrastructure. Impacts would be **less than significant**.

e) Would the project comply with federal, state, and local management and reduction statutes and regulations related to solid waste?

No Impact. As discussed in Section 3.19(d), Utilities and Service Systems, construction-generated solid waste would be temporary, and operation of the project would not generate substantially more solid waste than existing conditions. Solid waste generated by the project construction would be disposed of at designated landfill facilities under federal, state, and local regulation. Additionally, the project would be required to adhere to City and county ordinances with respect to waste reduction and recycling. As a result, **no impacts** related to state and local statutes governing solid waste are anticipated.

3.20 Wildfire

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XX. WILDFIRE – If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:				
a) Substantially impair an adopted emergency response plan or emergency evacuation plan?	☐	☐	☒	☐
b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?	☐	☐	☒	☐
c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?	☐	☐	☒	☐
d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?	☐	☐	☒	☐

a) Would the project substantially impair an adopted emergency response plan or emergency evacuation plan?

Less-than-Significant Impact. According to the CAL FIRE Hazard Severity Zone Viewer, the project site is located within a Local Responsibility Area and is not located within a Very High Fire Hazard Severity Zone (CAL FIRE 2024). The City has prepared a Draft Hazard Mitigation Plan. The hazard mitigation plan is a document that contains information to assist communities in reducing risk from hazards by identifying resources, information, and strategies for risk reduction (City of Carson 2024). A stormwater diversion structure would be constructed to connect the proposed system to existing storm drains under East 220th Street and Bonita Street. Additionally, an underground storage reservoir installed beneath the baseball/softball and soccer outfields at Calas Park would be connected directly to the diversion pipeline and an outflow pipeline for sending water back into an existing catch basin beneath East 220th Street. As such, project construction would require the temporary partial closures of East 220th Street and small portion of Bonita Street. The temporary partial closures of East 220th Street and Bonita Street would be performed pursuant to a traffic control plan prepared by the contractor and subject to City approval, which would demonstrate that emergency access or evacuation would not be impeded. Traffic on East 220th Street and Bonita Street would resume to existing conditions upon completion of the project. Impacts would be **less than significant**.

b) Due to slope, prevailing winds, and other factors, would the project exacerbate wildfire risks, and thereby expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?

Less-than-Significant Impact. Construction of the project would comply with Article III, Chapter 1 of the City's Municipal Code, which adopts the Los Angeles County Fire Code by reference, which is based on the California Fire Code with amendments and additions. Chapter 33 of the California Fire Code outlines general fire safety precautions during construction and demolition that are intended to maintain minimum levels of fire protection and limit the spread of fire. The project would not include structures intended for long-term occupancy. Furthermore, the project site is relatively flat and would not influence prevailing winds or other factors that could exacerbate wildfire risk. As such, the project would not exacerbate wildfire risks such that project users would be exposed to pollutants concentrations. Impacts would be **less than significant**.

c) Would the project require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines, or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?

Less-than-Significant Impact. As discussed previously, the project overall would not exacerbate fire risk. Construction would comply with California Fire Code requirements to manage and minimize fire risk during construction. Operation of the project would not contain potential sources for fire risk. As such, the project would not result in installation or maintenance of associated infrastructure that may exacerbate fire risk. Impacts would be **less than significant**.

d) Would the project expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?

Less-than-Significant Impact. For reasons described previously in Sections 3.9(g) and 3.20(a), (b), and (c), the project would not pose a substantial risk for wildfire. The project would be located on relatively flat land within Calas Park. As such, implementation of the project would not expose people or structures to significant risks from post-fire slope instability or drainage changes. Impacts would be **less than significant**.

3.21 Mandatory Findings of Significance

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XXI. MANDATORY FINDINGS OF SIGNIFICANCE				
a) Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal, or eliminate important examples of the major periods of California history or prehistory?	☐	☒	☐	☐
b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects.)	☐	☒	☐	☐
c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?	☐	☒	☐	☐

a) ***Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal, or eliminate important examples of the major periods of California history or prehistory?***

Less Than Significant Impact with Mitigation Incorporated. Potential impacts related to sensitive and special-status habitat, wildlife species, and plant species are discussed in Section 3.4, Biological Resources. As discussed in Section 3.4, Biological Resources, all potentially significant impacts to biological resources would be reduced to a level below significance with incorporation of mitigation measures. The proposed project would not substantially degrade the quality of the environment or impact fish or wildlife species or plant communities. As discussed in Section 3.5, Cultural Resources, potential impacts to cultural resources would be reduced to a level below significance with incorporation of mitigation measures. The proposed project would not eliminate important examples of the major periods of California history or prehistory. Overall, impacts would be **less than significant with incorporation of mitigation measures**.

b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects.)

Less Than Significant Impact with Mitigation Incorporated. As indicated in the analysis presented throughout Chapter 3, Initial Study Checklist, of this MND, the proposed project would not result in significant and unavoidable impacts in any issue area. Mitigation measures would reduce impacts to below a level of significance.

Cumulative projects in the City include the Imperial Avalon Specific Plan; the District at South Bay Specific Plan; the Brookhollow Group Warehouse project located at 1210 East 223rd Street, approximately 0.24 miles southeast of the project site; the Perry Street Residences located at 21611 Perry Street, approximately 0.36 miles northeast of the project site; the Carson Hyundai service building project located at 2205 East 223rd Street, approximately 1.27 miles southeast of the project site; the Dutch Bro's Coffee project located at 20377 Avalon Boulevard, approximately 1.45 miles north of the project site; the Carson Triangle project located at 21140, 21212, and 21126 Avalon Boulevard, located approximately 0.78 miles north of the project site; the ASPCA Animal Clinic project located at 16300 South Figueroa Street, approximately 4.14 miles north of the project site; the Shell Compressed Natural Gas Dispensing Station project located at 20945 South Wilmington Avenue, approximately 0.97 miles northeast of the project site; and the Carson to Paramount Hydrogen Gas Pipeline project located at 23300 South Alameda Street, approximately 1.78 miles southeast of the project site. The project is not located in the immediate vicinity of any large cumulative projects whose construction phase would overlap to create cumulative impacts. The proposed project, as with potential cumulative projects, would incorporate mitigation measures to reduce impacts, as applicable, particularly during construction. Upon completion of construction, the proposed project would have no potential to contribute to a cumulative impact. Impacts would be **less than significant with incorporation of mitigation measures**.

c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?

Less Than Significant Impact with Mitigation Incorporated. The potential for adverse direct or indirect impacts to human beings was considered throughout Chapter 3 of this MND. Based on this evaluation, there is no substantial evidence that construction or operation of the project with the proposed mitigation measures incorporated would result in a substantial adverse effect on human beings. Impacts would be **less than significant with incorporation of mitigation measures**.

INTENTIONALLY LEFT BLANK

4 References and Preparers

4.1 References Cited

CAL FIRE (California Department of Forestry and Fire Protection). 2024. Fire Hazard Severity Zone Viewer. Accessed March 4, 2025. https://experience.arcgis.com/experience/03beab8511814e79a0e4eabf0d3e7247/.

Caltrans (California Department of Transportation). 2020. *Transportation and Construction Vibration Guidance Manual*. Accessed June 19, 2025. https://caltrans.maps.arcgis.com/apps/webappviewer/index.html?id=465dfd3d807c46cc8e8057116f1aacaa.

Caltrans. 2024. California State Scenic Highway System Map. Accessed March 4, 2025. https://caltrans.maps.arcgis.com/apps/webappviewer/index.html?id=465dfd3d807c46cc8e8057116f1aacaa.

CAPCOA (California Air Pollution Control Officers Association). 2008. *CEQA & Climate Change: Evaluating and Addressing Greenhouse Gas Emissions from Projects Subject to the California Environmental Quality Act*. January 2008. Accessed June 19, 2025. https://www.ourair.org/wp-content/uploads/CAPCOA-CEQA-and-Climate-Change.pdf.

CAPCOA. 2022. *California Emissions Estimator Model (CalEEMod) User's Guide Version 2022.1*. April 2022. Accessed June 19, 2025. https://www.caleemod.com/documents/user-guide/01_User%20Guide.pdf.

CARB (California Air Resources Board). 2017. *California's 2017 Climate Change Scoping Plan: The Strategy for Achieving California's 2030 Greenhouse Gas Target*. November 2017. Accessed June 19, 2025. https://www.arb.ca.gov/cc/scopingplan/scoping_plan_2017.pdf.

CARB. 2022. *2022 Scoping Plan for Achieving Carbon Neutrality (2022 Scoping Plan).* December 2022. Accessed June 19, 2025. https://ww2.arb.ca.gov/sites/default/files/2023-04/2022-sp.pdf.

CARB. 2023. "Area Designation Maps/State and National." November 2023. Accessed July 8, 2025. http://www.arb.ca.gov/desig/adm/adm.htm.

CARB. 2025a. "Ozone & Health." Accessed June 19, 2025. https://ww2.arb.ca.gov/resources/ozone-and-health.

CARB. 2025b. "Nitrogen Dioxide & Health." Accessed June 19, 2025. https://ww2.arb.ca.gov/resources/nitrogen-dioxide-and-health.

CARB. 2025c. "Carbon Monoxide & Health." Accessed June 19, 2025. https://ww2.arb.ca.gov/resources/carbon-monoxide-and-health.

CARB. 2025d. "Inhalable Particulate Matter and Health ($PM_{2.5}$ and PM_{10})." Accessed June 19, 2025. https://www.arb.ca.gov/research/aaqs/common-pollutants/pm/pm.htm.

CARB. 2025e. Advanced Clean Cars Program. Accessed June 19, 2025. https://ww2.arb.ca.gov/our-work/programs/advanced-clean-cars-program/about.

CDFW (California Department of Fish and Wildlife). 2019. California Natural Community Conservation Plans. August 5, 2025. https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=68626&inline.

CDFW. 2025a. California Natural Diversity Database (CNDDB). RareFind 5.0 (Commercial Subscription). Sacramento, California: CDFW, Biogeographic Data Branch. Accessed August 5, 2025. https://nrmsecure.dfg.ca.gov/cnddb/Default.aspx.

CDFW. 2025b. Biogeographic Information and Observation System; online database viewer. Accessed August 5, 2025. https://wildlife.ca.gov/Data/BIOS.

CEC (California Energy Commission). 2025a. Accessed July 8, 2025. http://www.ecdms.energy.ca.gov/gasbycounty.aspx.

CEC. 2025b. Electricity Consumption by County. Accessed July 8, 2025. http://www.ecdms.energy.ca.gov/elecbycounty.aspx.

City of Carson. 2013. Carson Master Plan of Bikeways. August 2013. Accessed March 12, 2025. https://ci.carson.ca.us/content/files/pdfs/planning/BikeMasterPlan.pdf.

City of Carson. 2017. City of Carson Zoning. August 1, 2017. Accessed February 27, 2025. https://gis.carson.ca.us/pdfs/mapgallery/Zoning_11x17.pdf

City of Carson. 2022. Carson 2040 Draft Environmental Impact Report. September 2022. Accessed March 12, 2024. https://www.dropbox.com/scl/fi/9ngm92zchyywgqjejx5mz/Carson-GP-Update-Draft-EIR.pdf?rlkey=0n21q6wsfz1365qme8qcfxr2z&e=1&dl=0.

City of Carson. 2023. City of Carson 2040 General Plan. Adopted April 4, 2023. Accessed March 12, 2025. https://drive.google.com/file/d/1Ka9ZF0ELbms4wTO-Aquk3mQ1MJCaRkbm/view.

City of Carson. 2024. Draft 2024 City of Carson Hazard Mitigation Plan. Accessed March 11, 2025. https://ci.carson.ca.us/content/files/pdfs/publicsafety/NaturalHazardsMPlan/DRAFT_City%20of%20Carson%20Hazard%20Mitigation%20Plan%202024.pdf.

Cohen, K.M., S.C. Finney, P.L. Gibbard, and J.-X. Fan. 2024. “The ICS International Chronostratigraphic Chart.” *Episodes* 36: 199-204. Accessed March 18, 2025. https://stratigraphy.org/ICSchart/ChronostratChart2024-12.pdf.

CNPS (California Native Plant Society). 2025. Inventory of Rare and Endangered Plants (online edition, v8-03). Accessed August 5, 2025. www.rareplants.cnps.org.

CNRA (California Natural Resources Agency). 2009. *Final Statement of Reasons for Regulatory Action: Amendments to the State CEQA Guidelines Addressing Analysis and Mitigation of Greenhouse Gas Emissions Pursuant to SB 97*. December 2009. Accessed July 5, 2025. http://resources.ca.gov/ceqa/docs/Final_Statement_of_Reasons.pdf.

Dibblee, T.W. Jr., H.E. Ehrenspeck, P.L. Ehlig, and W.L. Bartlett. 1999. "Geologic Map of the Palos Verdes Peninsula and Vicinity, Redondo Beach, Torrance, and San Pedro Quadrangles, Los Angeles County, California" [map]. 1:24,000. Dibblee Geological Foundation, Dibblee Foundation Map DF-70.

DC WMG (Dominguez Channel Watershed Management Area Group). 2016. Enhanced Watershed Management Program for the Dominguez Channel Watershed Management Area Group. February 2016.

DOC (California Department of Conservation). 2018. Earthquake Fault Zones: A Guide for Government Agencies, Property Owners/Developers, and Geoscience Practitioners for Assessing Fault Rupture Hazards in California. Accessed March 4, 2025. https://www.conservation.ca.gov/cgs/documents/publications/special-publications/SP_042-a11y.pdf.

DOC. 2025a. California Important Farmland Finder. Accessed February 27, 2025. https://maps.conservation.ca.gov/DLRP/CIFF/.

DOC. 2025b. "EQ Zapp. Earthquake Zones of Required Investigation." Accessed March 4, 2025. https://maps.conservation.ca.gov/cgs/EQZApp/app/.

DOC. 2024c. CGS Information Warehouse: Tsunami Hazard Area Map. Accessed July 10, 2024. https://maps.conservation.ca.gov/cgs/informationwarehouse/ts_evacuation/.

DTSC (Department of Toxic Substances Control). 2025. EnviroStor Database. Accessed March 12, 2025. https://www.envirostor.dtsc.ca.gov/public/.

EPA (U.S. Environmental Protection Agency). 2025. "EPA Region 9 Air Quality Maps and Geographic Information." Last Updated July 21, 2023. Accessed July 5, 2025. https://www3.epa.gov/region9/air/maps/index.html.

EPA. 2025. "Monitor Values Report." Last updated March 28, 2025. Accessed July 5, 2025. https://www.epa.gov/outdoor-air-quality-data/monitor-values-report.

FEMA (Federal Emergency Management Agency). 2008. "FEMA's National Flood Hazard Layer (NFHL) Viewer" Effective September 25, 2008. Accessed March 11, 2025. https://hazards-fema.maps.arcgis.com/apps/webappviewer/index.html?id=8b0adb51996444d4879338b5529aa9cd.

FTA (Federal Transit Administration). 2018. *Transit Noise and Vibration Impact Assessment Manual.* FTA Report No. 0123. Office of Planning and Environment. U.S. Department of Transportation. Washington, D.C. September 2018.

IPCC (Intergovernmental Panel on Climate Change). 2007. *Climate Change 2007: The Physical Science Basis. Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change*. Edited by S. Solomon, D. Qin, M. Manning, Z. Chen, M. Marquis, K.B. Averyt, M. Tignor and H.L. Miller. Cambridge, United Kingdom, and New York, New York: Cambridge University Press. Accessed July 1, 2025. https://www.ipcc.ch/site/assets/uploads/2018/05/ar4_wg1_full_report-1.pdf.

LCI (California Governor's Office of Land Use and Climate Innovation). 2018. Technical Advisory on Evaluating Transportation Impacts in CEQA. December 2018. Accessed March 12, 2025. https://lci.ca.gov/docs/20190122-743_Technical_Advisory.pdf.

Los Angeles County Public Works. 2020. Los Angeles County Public Works Transportation Impact Analysis Guidelines. July 23, 2020. Accessed March 12, 2025. https://pw.lacounty.gov/traffic/docs/Transportation-Impact-Analysis-Guidelines-July-2020-v1.1.pdf.

Meffe, G. K., & Carroll, C. R. (Eds.) (1997). *Principles of Conservation Biology* (2nd ed.). Sunderland, Massachusetts: Sinauer Associates Inc.

National Cancer Institute. 2025. "Cancer Statistics". Updated May 7, 2025. Accessed June 30, 2025. https://www.cancer.gov/about-cancer/understanding/statistics.

NETR (National Environmental Title Research). 2025. Address search for Calas Park, Carson, California. Accessed February 12, 2025. http://www.historicaerials.com/.

NHMLA (Natural History Museum of Los Angeles). 2025. "Paleontological Resources Records Search for the Calas Park Project." Records search letter from the Natural History Museum of Los Angeles County, Los Angeles, California. March 9, 2025. Alyssa Bell, Ph.D. CONFIDENTIAL.

Ninyo & Moore. 2025. Geotechnical Evaluation for Calas Park Stormwater and Water Quality Improvement Project, 1000 E. 220th Street, Carson, California. Prepared for Craftwater Engineering, Inc. January 31, 2025.

OEHHA (Office of Environmental Health Hazard Assessment). 2015. *Air Toxics Hot Spots Program Risk Assessment Guidelines Guidance Manual for Preparation of Health Risk Assessments*. February 2015. Accessed July 1, 2025. https://oehha.ca.gov/media/downloads/crnr/2015guidancemanual.pdf.

PBDB (Paleobiology Database). 2025. Search parameters, Country="United States", State= "California", County = "Los Angeles". Accessed March 11, 2025.

Saucedo, G.J., G.H. Greene, M.P. Kennedy, and S.P. Bezore. 2016. "Geologic Map of the Long Beach 30-Minute × 60-Minute Quadrangle, California" [map]. Sacramento, California: California Geological Survey.

SCAG (Southern California Association of Governments). 2020. *Connect SoCal: The 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy of the Southern California Association of Governments*. Adopted September 3, 2020. Accessed July 5, 2025. https://scag.ca.gov/sites/main/files/file-attachments/0903fconnectsocal-plan_0.pdf?1606001176.

SCAG. 2024. *Connect SoCal 2024. The 2024–2050 Regional Transportation Plan/Sustainable Communities Strategy of the Southern California Association of Government.* Adopted April 4, 2024. Accessed July 5, 2025. https://scag.ca.gov/sites/main/files/file-attachments/23-2987-connect-socal-2024-final-complete-040424.pdf?1714175547.

SCAQMD (South Coast Air Quality Management District). 1993. *CEQA Air Quality Handbook*. Accessed July 5, 2025. http://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-analysis-handbook/ceqa-air-quality-handbook-(1993).

SCAQMD. 2003. *Final 2003 Air Quality Management Plan, Appendix V Modeling and Attainment Demonstrations*. August 2003. Accessed July 5, 2025. https://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/2003-air-quality-management-plan/2003-aqmp-appendix-v.pdf?sfvrsn=2.

SCAQMD. 2008a. *Final Localized Significance Threshold Methodology*. Revised July 2008. Accessed July 5, 2025. http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/final-lst-methodology-document.pdf.

SCAQMD. 2008b. *Interim CEQA GHG Significance Threshold for Stationary Sources, Rules and Plans*. December 5, 2008. Accessed July 5, 2025. http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/ghgboardsynopsis.pdf?sfvrsn=2.

SCAQMD. 2010. *Greenhouse Gas CEQA Significance Threshold Stakeholder Working Group Meeting #15*. September 28. Accessed July 5, 2025. http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-15/ghg-meeting-15-main-presentation.pdf?sfvrsn=2.

SCAQMD. 2022. *2022 Air Quality Management Plan*. Adopted December 2, 2022. Accessed July 5, 2025. http://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/2022-air-quality-management-plan/final-2022-aqmp/final-2022-aqmp.pdf?sfvrsn=16.

SCAQMD. 2023. *South Coast AQMD Air Quality Significance Thresholds*. Revised March 2023. Accessed July 1, 2025. https://www.aqmd.gov/docs/default-source/ceqa/handbook/south-coast-aqmd-air-quality-significance-thresholds.pdf?sfvrsn=25.

SCAQMD. 2025a. "SCAQMD Modeling Guidance for AERMOD." Accessed July 5, 2025. https://www.aqmd.gov/home/air-quality/meteorological-data/modeling-guidance.

SCAQMD. 2025b. "Health Risk Assessment Tool and AERMOD-Ready Meteorological Data Files." Last updated March 1, 2025. Accessed June 30, 2025. https://www.aqmd.gov/assets/aermet/AERMET_files_And_HRA_Tool.html.

SCAQMD. n.d. *Fact Sheet for Applying CalEEMod to Localized Significance Thresholds*. Accessed July 5, 2025. https://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/caleemod-guidance.pdf?sfvrsn=2.

The Climate Registry. 2025. *2025 Default Emission Factors*. February 2025. Accessed June 30, 2025. https://theclimateregistry.org/wp-content/uploads/2025/03/2025-Default-Emission-Factors-03-2025.pdf.

U.S. Census Bureau. 2020. "Quick Facts, Compton city, California; Carson city, California; United States." April 1, 2020. Accessed February 27, 2025. https://www.census.gov/quickfacts/fact/table/comptoncitycalifornia,carsoncitycalifornia/PST045224.

USDA (U.S. Department of Agriculture). 2025. Web Soil Survey. Accessed August 2025. https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx.

USFWS (U.S. Fish and Wildlife Service). 2025a. Information, Planning, and Conservation System (IPaC). Accessed August 2025. https://ecos.fws.gov/ipac/.

USFWS. 2025b. Wetlands Mapper. Accessed August 2025. https://www.fws.gov/wetlands/data/mapper.html.

USGS (U.S. Geological Survey). 2025. Mineral Resources Online Spatial Data. Accessed February 27,2025. https://mrdata.usgs.gov/general/map-us.html#home.

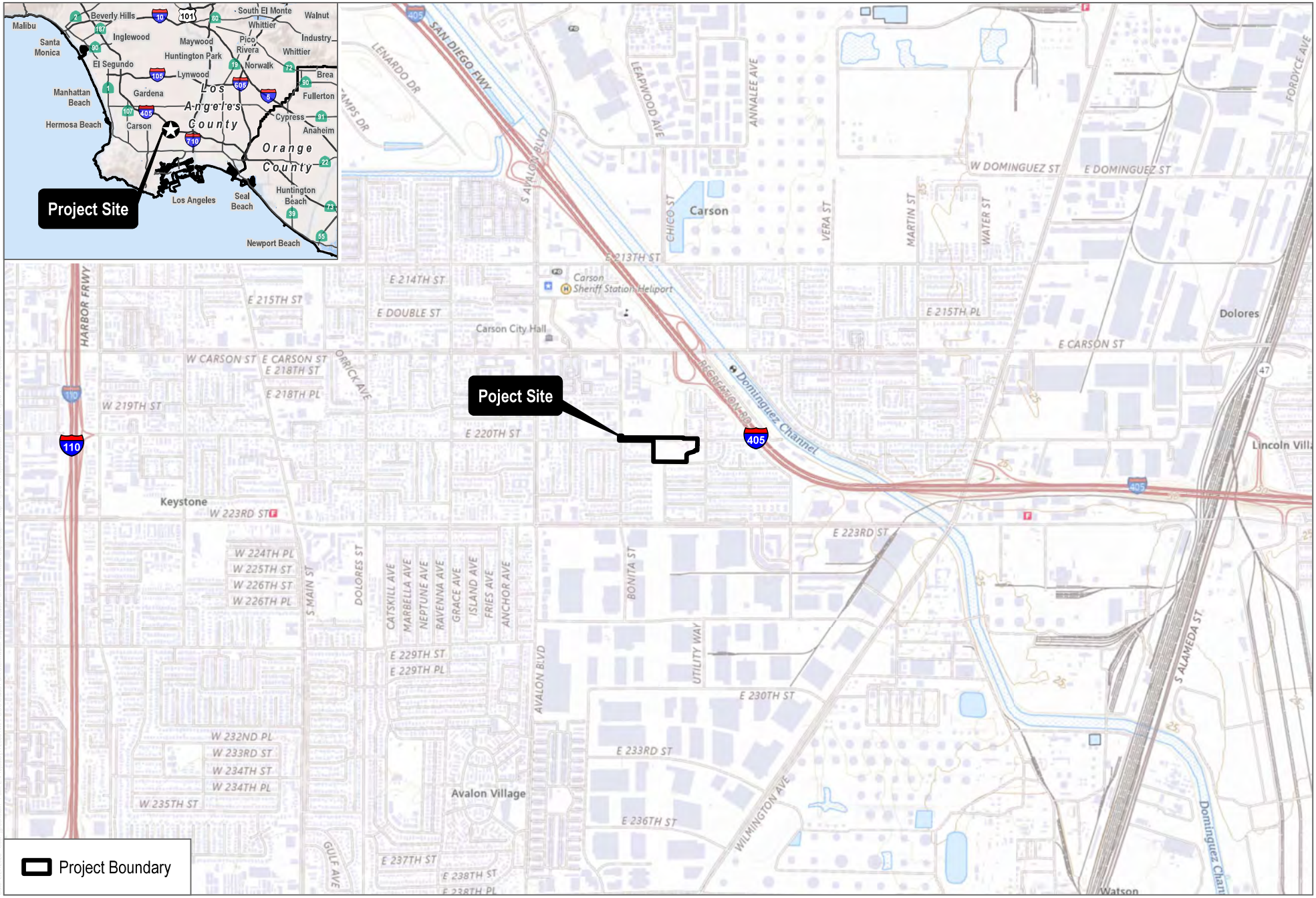
4.2 List of Preparers

City of Carson

Roland Jen, P.E. – Stormwater Engineer
Aaron Whiting – Associate Planner

Dudek

Alex Hardy – Senior Project Manager
Connor Burke – Environmental Acoustician
Ryan Glenn, MA, RPA – Archaeologist
Jason Greenstein – Geospatial Analyst
Shawna Johnson – Paleontologist
Ames Noll – Air Quality Specialist
Nathan Reid – Geospatial Analyst
Hayley Rundle – Deputy Project Manager / Environmental Planner
Eilleen Salas – Biologist



SOURCE: USGS National Map 2025

DUDEK

0 1,000 2,000 Feet

FIGURE 1

Project Location

Calas Park Stormwater Capture Project

INTENTIONALLY LEFT BLANK

SOURCE: Bing Maps 2024; Open Street Map 2024

DUDEK

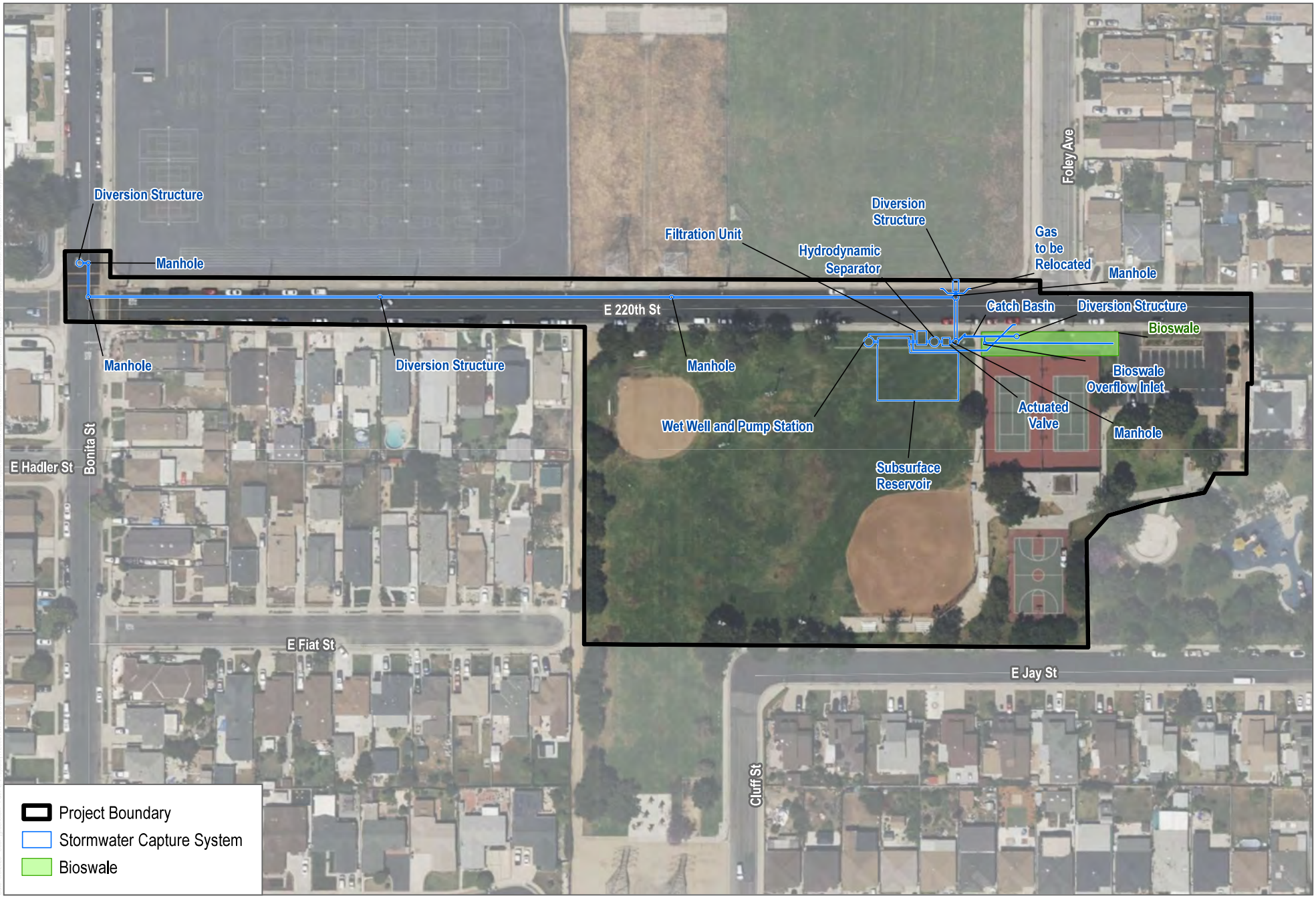
0 75 150 Feet

FIGURE 2

Project Site and Existing Features

Calas Park Stormwater Capture Project

INTENTIONALLY LEFT BLANK



SOURCE: Bing Maps 2024; Open Street Map 2024; Craftwater 2024

DUDEK

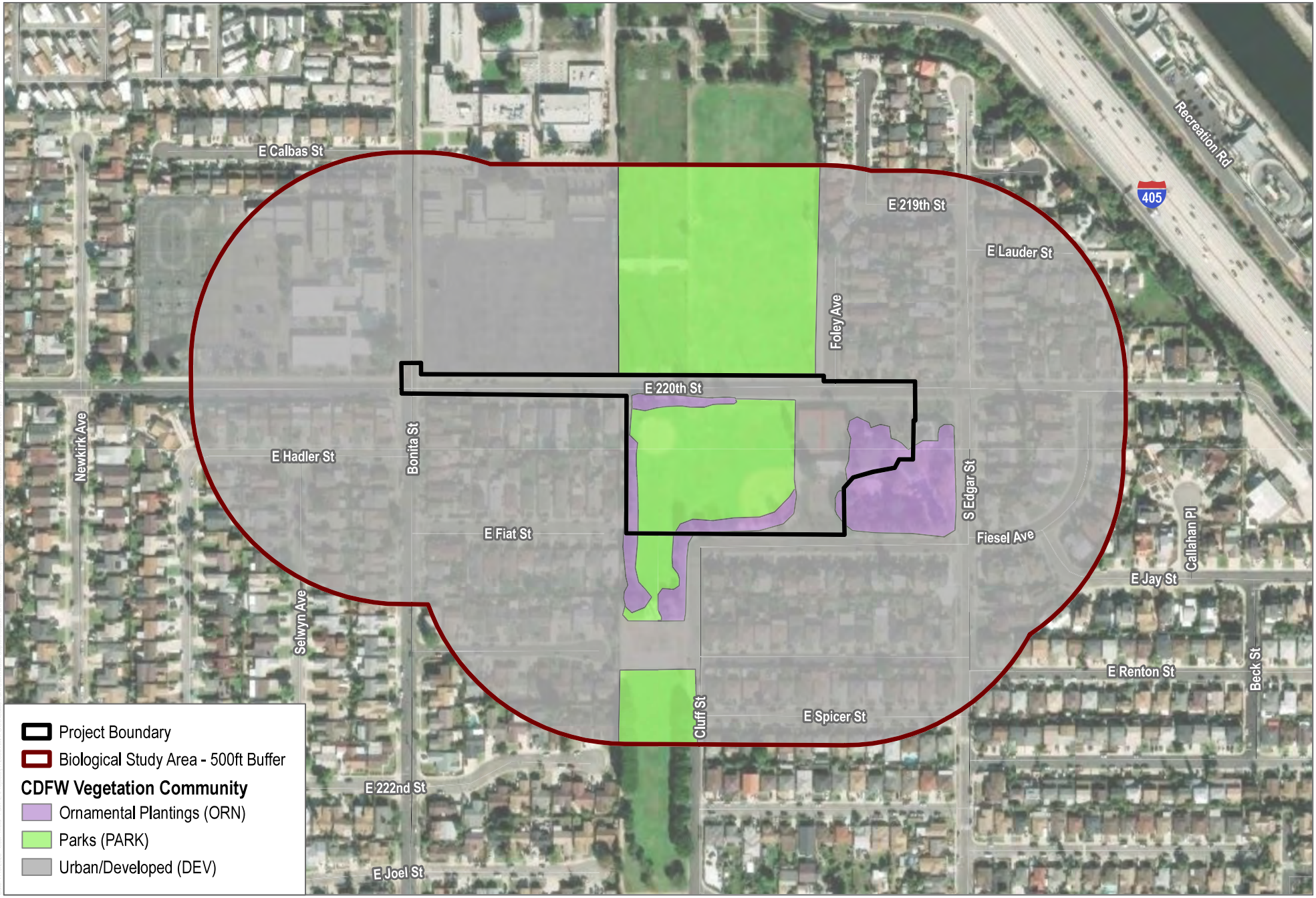
0 75 150 Feet

FIGURE 3

Project Stormwater Capture and Treatment System

Calas Park Stormwater Capture Project

INTENTIONALLY LEFT BLANK



SOURCE: ESRI Imagery 2025; OpenStreetMaps 2019

DUDEK

0 150 300 Feet

FIGURE 4

Vegetation Communities and Land Cover Types

Calas Park Stormwater Capture Project

INTENTIONALLY LEFT BLANK

SOURCE: Bing Imagery 2024; OpenStreetMaps 2019

DUDEK

0 75 150 Feet

FIGURE 5

Noise Measurement Locations

Calas Park Stormwater Capture Project

INTENTIONALLY LEFT BLANK

Appendix A

Air Quality and Greenhouse Gas Modeling

Table of Contents

Calas Park Stormwater Capture Project Detailed Report 2

Calas Park Stormwater Capture Project LST Detailed Report 52

Calas Park Stormwater Capture Project Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

1.2. Land Use Types

1.3. User-Selected Emission Reduction Measures by Emissions Sector

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

2.2. Construction Emissions by Year, Unmitigated

2.4. Operations Emissions Compared Against Thresholds

2.5. Operations Emissions by Sector, Unmitigated

3. Construction Emissions Details

3.1. Demolition (2026) - Unmitigated

3.3. Site Preparation (2026) - Unmitigated

3.5. Reservoir Excavation (2027) - Unmitigated

3.7. Outlet Line (2027) - Unmitigated

3.9. Reservoir Construction (2027) - Unmitigated

3.11. Pipe/Diversion/Treatment Facility/Pump/Bioswale (2027) - Unmitigated

3.13. Field/Bioswale/Landscaping (2027) - Unmitigated

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

5.6.2. Construction Earthmoving Control Strategies

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Calas Park Stormwater Capture Project
Construction Start Date	10/1/2026
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.50
Precipitation (days)	17.4
Location	33.827447691220186, -118.2571402051142
County	Los Angeles-South Coast
City	Carson
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4617
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
City Park	5.72	Acre	5.72	0.00	6,620	6,620	—	Park fields

Other Asphalt Surfaces	3.26	1000sqft	0.07	0.00	0.00	—	—	Pavement
Other Non-Asphalt Surfaces	3.49	1000sqft	0.08	0.00	0.00	—	—	Concrete sidewalks

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.48	4.59	42.4	49.2	0.08	1.72	5.79	7.36	1.58	2.79	4.34	—	9,377	9,377	0.39	0.19	2.80	9,445
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.22	6.04	54.7	55.7	0.10	2.35	8.32	10.7	2.16	4.10	6.26	—	10,805	10,805	0.45	0.21	0.08	10,878
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.68	1.40	12.8	14.9	0.03	0.50	1.61	2.11	0.46	0.77	1.23	—	2,956	2,956	0.12	0.06	0.41	2,977
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.31	0.26	2.33	2.71	< 0.005	0.09	0.29	0.39	0.08	0.14	0.23	—	489	489	0.02	0.01	0.07	493

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	5.48	4.59	42.4	49.2	0.08	1.72	5.79	7.36	1.58	2.79	4.34	—	9,377	9,377	0.39	0.19	2.80	9,445
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	7.22	6.04	54.7	55.7	0.10	2.35	8.32	10.7	2.16	4.10	6.26	—	10,805	10,805	0.45	0.21	0.08	10,878
2027	5.48	4.58	42.5	44.1	0.08	1.72	5.64	7.36	1.58	2.76	4.34	—	9,359	9,359	0.38	0.19	0.07	9,425
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.74	0.62	5.59	5.69	0.01	0.24	0.57	0.82	0.23	0.28	0.50	—	1,107	1,107	0.05	0.02	0.14	1,115
2027	1.68	1.40	12.8	14.9	0.03	0.50	1.61	2.11	0.46	0.77	1.23	—	2,956	2,956	0.12	0.06	0.41	2,977
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.14	0.11	1.02	1.04	< 0.005	0.04	0.10	0.15	0.04	0.05	0.09	—	183	183	0.01	< 0.005	0.02	185
2027	0.31	0.26	2.33	2.71	< 0.005	0.09	0.29	0.39	0.08	0.14	0.23	—	489	489	0.02	0.01	0.07	493

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.02	0.02	0.01	0.18	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	0.00	136	136	0.01	< 0.005	0.14	138
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.02	0.02	0.02	0.16	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	0.00	134	134	0.01	< 0.005	< 0.005	135
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.02	0.02	0.02	0.17	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	0.00	130	130	0.01	< 0.005	0.06	131

Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	< 0.005	< 0.005	< 0.005	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.00	21.5	21.5	< 0.005	< 0.005	0.01	21.7

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.02	0.01	0.01	0.18	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	49.5	49.5	< 0.005	< 0.005	0.14	50.2
Area	< 0.005	< 0.005	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	87.0	87.0	0.01	< 0.005	—	87.5
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.02	0.02	0.01	0.18	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	0.00	136	136	0.01	< 0.005	0.14	138
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.02	0.01	0.02	0.16	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	47.4	47.4	< 0.005	< 0.005	< 0.005	48.0
Area	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	87.0	87.0	0.01	< 0.005	—	87.5
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.02	0.02	0.02	0.16	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	0.00	134	134	0.01	< 0.005	< 0.005	135
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Mobile	0.02	0.01	0.02	0.17	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	48.0	48.0	< 0.005	< 0.005	0.06	48.6
Area	< 0.005	< 0.005	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	82.1	82.1	0.01	< 0.005	—	82.6
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.02	0.02	0.02	0.17	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	0.00	130	130	0.01	< 0.005	0.06	131
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	< 0.005	< 0.005	< 0.005	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	7.95	7.95	< 0.005	< 0.005	0.01	8.05
Area	< 0.005	< 0.005	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	13.6	13.6	< 0.005	< 0.005	—	13.7
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	< 0.005	< 0.005	< 0.005	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.00	21.5	21.5	< 0.005	< 0.005	0.01	21.7

3. Construction Emissions Details

3.1. Demolition (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	3.05	2.56	22.9	22.9	0.04	1.06	—	1.06	0.98	—	0.98	—	4,139	4,139	0.17	0.03	—	4,153
Demoliti on	—	—	—	—	—	—	0.06	0.06	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.46	0.39	3.46	3.45	0.01	0.16	—	0.16	0.15	—	0.15	—	624	624	0.03	0.01	—	626
Demoliti on	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.08	0.07	0.63	0.63	< 0.005	0.03	—	0.03	0.03	—	0.03	—	103	103	< 0.005	< 0.005	—	104
Demoliti on	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.06	0.73	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	159	159	0.01	0.01	0.01	161
Vendor	0.01	< 0.005	0.12	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	95.8	95.8	< 0.005	0.01	0.01	100
Hauling	0.02	< 0.005	0.34	0.13	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	—	272	272	0.02	0.04	0.02	286

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.11	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	24.3	24.3	< 0.005	< 0.005	0.04	24.6
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	14.4	14.4	< 0.005	< 0.005	0.02	15.1
Hauling	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	41.0	41.0	< 0.005	0.01	0.04	43.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.02	4.02	< 0.005	< 0.005	0.01	4.07
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.39	2.39	< 0.005	< 0.005	< 0.005	2.50
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.79	6.79	< 0.005	< 0.005	0.01	7.13

3.3. Site Preparation (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.95	3.32	30.7	30.6	0.05	1.28	—	1.28	1.18	—	1.18	—	5,542	5,542	0.22	0.04	—	5,561
Dust From Material Movement	—	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.26	0.22	2.02	2.01	< 0.005	0.08	—	0.08	0.08	—	0.08	—	364	364	0.01	< 0.005	—	366
Dust From Material Movement	—	—	—	—	—	—	0.50	0.50	—	0.26	0.26	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.37	0.37	< 0.005	0.02	—	0.02	0.01	—	0.01	—	60.3	60.3	< 0.005	< 0.005	—	60.5
Dust From Material Movement	—	—	—	—	—	—	0.09	0.09	—	0.05	0.05	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.08	1.05	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	229	229	0.01	0.01	0.02	232
Vendor	0.01	< 0.005	0.12	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	95.8	95.8	< 0.005	0.01	0.01	100
Hauling	0.02	< 0.005	0.34	0.13	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	—	272	272	0.02	0.04	0.02	286
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.07	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	15.3	15.3	< 0.005	< 0.005	0.02	15.5
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.30	6.30	< 0.005	< 0.005	0.01	6.58
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	17.9	17.9	< 0.005	< 0.005	0.02	18.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.53	2.53	< 0.005	< 0.005	< 0.005	2.57
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.04	1.04	< 0.005	< 0.005	< 0.005	1.09
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.96	2.96	< 0.005	< 0.005	< 0.005	3.11

3.5. Reservoir Excavation (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.60	2.19	20.6	22.5	0.04	0.83	—	0.83	0.77	—	0.77	—	4,119	4,119	0.17	0.03	—	4,133
Dust From Material Movement	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.60	2.19	20.6	22.5	0.04	0.83	—	0.83	0.77	—	0.77	—	4,119	4,119	0.17	0.03	—	4,133
Dust From Material Movement	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.55	0.46	4.35	4.75	0.01	0.18	—	0.18	0.16	—	0.16	—	869	869	0.04	0.01	—	872
Dust From Material Movement	—	—	—	—	—	—	1.08	1.08	—	0.55	0.55	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.08	0.79	0.87	< 0.005	0.03	—	0.03	0.03	—	0.03	—	144	144	0.01	< 0.005	—	144
Dust From Material Movement	—	—	—	—	—	—	0.20	0.20	—	0.10	0.10	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.06	1.03	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	219	219	0.01	0.01	0.68	222
Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	93.9	93.9	< 0.005	0.01	0.24	98.1
Hauling	0.04	0.01	0.63	0.25	< 0.005	0.01	0.15	0.16	0.01	0.04	0.05	—	533	533	0.03	0.09	1.13	561
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.08	0.89	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	208	208	< 0.005	0.01	0.02	210
Vendor	0.01	< 0.005	0.11	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	94.0	94.0	< 0.005	0.01	0.01	98.0

Hauling	0.04	0.01	0.66	0.25	< 0.005	0.01	0.15	0.16	0.01	0.04	0.05	—	534	534	0.03	0.09	0.03	560
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.20	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	44.4	44.4	< 0.005	< 0.005	0.06	45.0
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	19.8	19.8	< 0.005	< 0.005	0.02	20.7
Hauling	0.01	< 0.005	0.14	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	113	113	0.01	0.02	0.10	118
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.36	7.36	< 0.005	< 0.005	0.01	7.46
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.28	3.28	< 0.005	< 0.005	< 0.005	3.42
Hauling	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	18.6	18.6	< 0.005	< 0.005	0.02	19.6

3.7. Outlet Line (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.60	2.19	20.6	22.5	0.04	0.83	—	0.83	0.77	—	0.77	—	4,119	4,119	0.17	0.03	—	4,133
Dust From Material Movement	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.16	0.14	1.30	1.42	< 0.005	0.05	—	0.05	0.05	—	0.05	—	260	260	0.01	< 0.005	—	260
Dust From Material Movement	—	—	—	—	—	—	0.32	0.32	—	0.17	0.17	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.03	0.03	0.24	0.26	< 0.005	0.01	—	0.01	0.01	—	0.01	—	43.0	43.0	< 0.005	< 0.005	—	43.1
Dust From Material Movement	—	—	—	—	—	—	0.06	0.06	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.05	0.78	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	164	164	0.01	0.01	0.51	167
Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	93.9	93.9	< 0.005	0.01	0.24	98.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.95	9.95	< 0.005	< 0.005	0.01	10.1
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.92	5.92	< 0.005	< 0.005	0.01	6.18
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.65	1.65	< 0.005	< 0.005	< 0.005	1.67
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.98	0.98	< 0.005	< 0.005	< 0.005	1.02
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Reservoir Construction (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.69	2.26	20.9	19.8	0.04	0.88	—	0.88	0.81	—	0.81	—	4,238	4,238	0.17	0.03	—	4,252
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.69	2.26	20.9	19.8	0.04	0.88	—	0.88	0.81	—	0.81	—	4,238	4,238	0.17	0.03	—	4,252
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.41	0.34	3.15	2.99	0.01	0.13	—	0.13	0.12	—	0.12	—	639	639	0.03	0.01	—	641
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.58	0.54	< 0.005	0.02	—	0.02	0.02	—	0.02	—	106	106	< 0.005	< 0.005	—	106
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.04	0.60	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	128	128	0.01	< 0.005	0.40	130
Vendor	< 0.005	< 0.005	0.05	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	47.0	47.0	< 0.005	0.01	0.12	49.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.04	0.52	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	121	121	< 0.005	< 0.005	0.01	123
Vendor	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	47.0	47.0	< 0.005	0.01	< 0.005	49.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	18.5	18.5	< 0.005	< 0.005	0.03	18.8
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.08	7.08	< 0.005	< 0.005	0.01	7.39
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.06	3.06	< 0.005	< 0.005	< 0.005	3.11
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.17	1.17	< 0.005	< 0.005	< 0.005	1.22
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Pipe/Diversion/Treatment Facility/Pump/Bioswale (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.97	0.82	7.34	8.88	0.02	0.26	—	0.26	0.24	—	0.24	—	1,895	1,895	0.08	0.02	—	1,901
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.12	1.11	1.34	< 0.005	0.04	—	0.04	0.04	—	0.04	—	286	286	0.01	< 0.005	—	287
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.20	0.24	< 0.005	0.01	—	0.01	0.01	—	0.01	—	47.3	47.3	< 0.005	< 0.005	—	47.4
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.05	0.78	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	164	164	0.01	0.01	0.51	167
Vendor	< 0.005	< 0.005	0.05	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	47.0	47.0	< 0.005	0.01	0.12	49.1

Hauling	0.02	< 0.005	0.32	0.13	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	—	267	267	0.01	0.04	0.57	281
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.11	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	23.8	23.8	< 0.005	< 0.005	0.03	24.1
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.08	7.08	< 0.005	< 0.005	0.01	7.39
Hauling	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	40.2	40.2	< 0.005	0.01	0.04	42.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.94	3.94	< 0.005	< 0.005	0.01	3.99
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.17	1.17	< 0.005	< 0.005	< 0.005	1.22
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.65	6.65	< 0.005	< 0.005	0.01	6.99

3.13. Field/Bioswale/Landscaping (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.39	1.17	10.6	14.9	0.02	0.42	—	0.42	0.38	—	0.38	—	2,271	2,271	0.09	0.02	—	2,279
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.39	1.17	10.6	14.9	0.02	0.42	—	0.42	0.38	—	0.38	—	2,271	2,271	0.09	0.02	—	2,279
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.34	0.28	2.55	3.60	0.01	0.10	—	0.10	0.09	—	0.09	—	548	548	0.02	< 0.005	—	549
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.47	0.66	< 0.005	0.02	—	0.02	0.02	—	0.02	—	90.7	90.7	< 0.005	< 0.005	—	91.0
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.09	0.07	1.12	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	237	237	0.01	0.01	0.73	241
Vendor	< 0.005	< 0.005	0.05	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	47.0	47.0	< 0.005	0.01	0.12	49.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.08	0.97	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	225	225	< 0.005	0.01	0.02	228
Vendor	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	47.0	47.0	< 0.005	0.01	< 0.005	49.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.24	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	55.0	55.0	< 0.005	< 0.005	0.08	55.8
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.3	11.3	< 0.005	< 0.005	0.01	11.8
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.11	9.11	< 0.005	< 0.005	0.01	9.23
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.87	1.87	< 0.005	< 0.005	< 0.005	1.96
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
undefined	—	—	—	—	—	—	—	—	—	—	—	—	87.0	87.0	0.01	< 0.005	—	87.5
Total	—	—	—	—	—	—	—	—	—	—	—	—	87.0	87.0	0.01	< 0.005	—	87.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
undefined	—	—	—	—	—	—	—	—	—	—	—	—	87.0	87.0	0.01	< 0.005	—	87.5
Total	—	—	—	—	—	—	—	—	—	—	—	—	87.0	87.0	0.01	< 0.005	—	87.5
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
undefined	—	—	—	—	—	—	—	—	—	—	—	—	13.6	13.6	< 0.005	< 0.005	—	13.7
Total	—	—	—	—	—	—	—	—	—	—	—	—	13.6	13.6	< 0.005	< 0.005	—	13.7

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	< 0.005	< 0.005	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	< 0.005	< 0.005	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Pumps	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Pumps	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Pumps	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	10/1/2026	12/16/2026	5.00	55.0	—
Site Preparation	Site Preparation	11/30/2026	12/31/2026	5.00	24.0	—
Reservoir Excavation	Grading	1/1/2027	4/19/2027	5.00	77.0	—
Outlet Line	Grading	8/1/2027	9/1/2027	5.00	23.0	—
Reservoir Construction	Building Construction	3/16/2027	5/31/2027	5.00	55.0	—
Pipe/Diversion/Treatment Facility/Pump/Bioswale	Building Construction	6/1/2027	8/16/2027	5.00	55.0	—
Field/Bioswale/Landscaping	Building Construction	7/31/2027	12/1/2027	5.00	88.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Demolition	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Demolition	Graders	Diesel	Average	2.00	8.00	148	0.41
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37
Reservoir Excavation	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Reservoir Excavation	Skid Steer Loaders	Diesel	Average	2.00	8.00	71.0	0.37
Reservoir Excavation	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Outlet Line	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Outlet Line	Skid Steer Loaders	Diesel	Average	2.00	8.00	71.0	0.37
Outlet Line	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Reservoir Construction	Cranes	Diesel	Average	1.00	8.00	367	0.29
Reservoir Construction	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Reservoir Construction	Skid Steer Loaders	Diesel	Average	2.00	8.00	71.0	0.37
Pipe/Diversion/Treatment Facility/Pump/Bioswale	Cranes	Diesel	Average	1.00	8.00	367	0.29
Pipe/Diversion/Treatment Facility/Pump/Bioswale	Trenchers	Diesel	Average	2.00	8.00	40.0	0.50

Pipe/Diversion/Treatment	Skid Steer Loaders	Diesel	Average	2.00	8.00	71.0	0.37
Field/Bioswale/Landscaping	Graders	Diesel	Average	1.00	8.00	148	0.41
Field/Bioswale/Landscaping	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Field/Bioswale/Landscaping	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Field/Bioswale/Landscaping	Paving Equipment	Diesel	Average	1.00	8.00	89.0	0.36
Field/Bioswale/Landscaping	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
Field/Bioswale/Landscaping	Off-Highway Tractors	Diesel	Average	1.00	8.00	38.0	0.44
Field/Bioswale/Landscaping	Off-Highway Tractors	Diesel	Average	1.00	8.00	38.0	0.44
Field/Bioswale/Landscaping	Forklifts	Diesel	Average	1.00	8.00	82.0	0.20
Field/Bioswale/Landscaping	Cement and Mortar Mixers	Diesel	Average	1.00	8.00	10.0	0.56
Field/Bioswale/Landscaping	Aerial Lifts	Diesel	Average	1.00	8.00	46.0	0.31

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	18.0	12.6	LDA,LDT1,LDT2
Demolition	Vendor	4.00	7.75	HHDT,MHDT
Demolition	Hauling	4.00	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT

Site Preparation	—	—	—	—
Site Preparation	Worker	26.0	12.6	LDA,LDT1,LDT2
Site Preparation	Vendor	4.00	7.75	HHDT,MHDT
Site Preparation	Hauling	4.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Reservoir Excavation	—	—	—	—
Reservoir Excavation	Worker	24.0	12.6	LDA,LDT1,LDT2
Reservoir Excavation	Vendor	4.00	7.75	HHDT,MHDT
Reservoir Excavation	Hauling	8.00	20.0	HHDT
Reservoir Excavation	Onsite truck	—	—	HHDT
Reservoir Construction	—	—	—	—
Reservoir Construction	Worker	14.0	12.6	LDA,LDT1,LDT2
Reservoir Construction	Vendor	2.00	7.75	HHDT,MHDT
Reservoir Construction	Hauling	0.00	20.0	HHDT
Reservoir Construction	Onsite truck	—	—	HHDT
Pipe/Diversion/Treatment Facility/Pump/Bioswale	—	—	—	—
Pipe/Diversion/Treatment Facility/Pump/Bioswale	Worker	18.0	12.6	LDA,LDT1,LDT2
Pipe/Diversion/Treatment Facility/Pump/Bioswale	Vendor	2.00	7.75	HHDT,MHDT
Pipe/Diversion/Treatment Facility/Pump/Bioswale	Hauling	4.00	20.0	HHDT
Pipe/Diversion/Treatment Facility/Pump/Bioswale	Onsite truck	—	—	HHDT
Field/Bioswale/Landscaping	—	—	—	—
Field/Bioswale/Landscaping	Worker	26.0	12.6	LDA,LDT1,LDT2
Field/Bioswale/Landscaping	Vendor	2.00	7.75	HHDT,MHDT
Field/Bioswale/Landscaping	Hauling	0.00	20.0	HHDT
Field/Bioswale/Landscaping	Onsite truck	—	—	HHDT

Outlet Line	—	—	—	—
Outlet Line	Worker	18.0	12.6	LDA,LDT1,LDT2
Outlet Line	Vendor	4.00	7.75	HHDT,MHDT
Outlet Line	Hauling	0.00	20.0	HHDT
Outlet Line	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Ton of Debris)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	141	—
Site Preparation	—	—	36.0	0.00	—
Reservoir Excavation	—	3,980	100	0.00	—
Outlet Line	—	—	23.0	0.00	—

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
City Park	0.00	0%
Other Asphalt Surfaces	0.07	100%
Other Non-Asphalt Surfaces	0.08	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2026	0.00	532	0.03	< 0.005
2027	0.00	532	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	4.00	4.00	4.00	1,460	66.0	66.0	66.0	24,090

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	0.00	0.00	405

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
City Park	0.00	346	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00
Other Non-Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
City Park	0.00	0.00
Other Asphalt Surfaces	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
City Park	0.00	—

Other Asphalt Surfaces	0.00	—
Other Non-Asphalt Surfaces	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Pumps	Electric	Average	1.00	24.0	15.3	0.74
Pumps	Electric	Average	1.00	8.00	11.0	0.74

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	5.08	annual days of extreme heat
Extreme Precipitation	4.20	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	1	1	2
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2

Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	22.2
AQ-PM	80.6
AQ-DPM	86.0
Drinking Water	29.4
Lead Risk Housing	59.8
Pesticides	0.00
Toxic Releases	98.8
Traffic	95.4
Effect Indicators	—
CleanUp Sites	89.2
Groundwater	94.0

Haz Waste Facilities/Generators	67.0
Impaired Water Bodies	93.4
Solid Waste	54.8
Sensitive Population	—
Asthma	76.6
Cardio-vascular	82.7
Low Birth Weights	74.9
Socioeconomic Factor Indicators	—
Education	62.2
Housing	28.2
Linguistic	77.1
Poverty	49.7
Unemployment	43.1

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.92377775
Employed	62.37649172
Median HI	55.88348518
Education	—
Bachelor's or higher	53.18875914
High school enrollment	100
Preschool enrollment	48.45374054
Transportation	—
Auto Access	31.27165405
Active commuting	35.41639933

Social	—
2-parent households	72.60361863
Voting	9.29038881
Neighborhood	—
Alcohol availability	51.72590787
Park access	27.21673297
Retail density	43.47491338
Supermarket access	40.56204286
Tree canopy	50.87899397
Housing	—
Homeownership	92.2751187
Housing habitability	75.06736815
Low-inc homeowner severe housing cost burden	74.6439112
Low-inc renter severe housing cost burden	51.52059541
Uncrowded housing	28.33311947
Health Outcomes	—
Insured adults	43.11561658
Arthritis	59.3
Asthma ER Admissions	30.5
High Blood Pressure	37.6
Cancer (excluding skin)	49.7
Asthma	94.4
Coronary Heart Disease	54.4
Chronic Obstructive Pulmonary Disease	74.0
Diagnosed Diabetes	25.3
Life Expectancy at Birth	63.6
Cognitively Disabled	50.3
Physically Disabled	14.3

Heart Attack ER Admissions	25.8
Mental Health Not Good	69.9
Chronic Kidney Disease	45.1
Obesity	76.5
Pedestrian Injuries	19.6
Physical Health Not Good	51.8
Stroke	51.7
Health Risk Behaviors	—
Binge Drinking	89.1
Current Smoker	71.8
No Leisure Time for Physical Activity	41.3
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	68.4
Elderly	14.5
English Speaking	25.4
Foreign-born	90.0
Outdoor Workers	75.3
Climate Change Adaptive Capacity	—
Impervious Surface Cover	11.0
Traffic Density	92.2
Traffic Access	61.6
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	18.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	92.0
Healthy Places Index Score for Project Location (b)	51.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	Wilmington Long Beach Carson

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Adjusted default construction phases and durations based on Project description.
Construction: Off-Road Equipment	Revised default equipment assumptions based on Project Description
Construction: Trips and VMT	Conservatively rounded default trips up to nearest even number. Added vendor trips to account for water and delivery trucks.
Construction: Dust From Material Movement	Excavation quantities provided by applicant.
Operations: Solid Waste	No increase in solid waste compared to existing conditions.
Operations: Refrigerants	No increase in refrigerants compared to existing conditions.
Operations: Water and Waste Water	No increase in outdoor water use compared to existing conditions.

Operations: Off-Road Equipment	Larger electric pump to pump treated stormwater into the proposed bioswale (HP from project design plans). Smaller booster pump to assist the existing irrigation system (default HP).

Calas Park Stormwater Capture Project LST Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

1.2. Land Use Types

1.3. User-Selected Emission Reduction Measures by Emissions Sector

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

2.2. Construction Emissions by Year, Unmitigated

3. Construction Emissions Details

3.1. Demolition (2026) - Unmitigated

3.3. Site Preparation (2026) - Unmitigated

3.5. Reservoir Excavation (2027) - Unmitigated

3.7. Outlet Line (2027) - Unmitigated

3.9. Reservoir Construction (2027) - Unmitigated

3.11. Pipe/Diversion/Treatment Facility/Pump/Bioswale (2027) - Unmitigated

3.13. Field/Bioswale/Landscaping (2027) - Unmitigated

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

5.6.2. Construction Earthmoving Control Strategies

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Calas Park Stormwater Capture Project LST
Construction Start Date	10/1/2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.50
Precipitation (days)	17.4
Location	33.827447691220186, -118.2571402051142
County	Los Angeles-South Coast
City	Carson
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4617
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
City Park	5.72	Acre	5.72	0.00	6,620	6,620	—	Park fields
Other Asphalt Surfaces	3.26	1000sqft	0.07	0.00	0.00	—	—	Pavement

Other Non-Asphalt Surfaces	3.49	1000sqft	0.08	0.00	0.00	—	—	Concrete sidewalks

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.42	4.56	41.7	46.9	0.08	1.71	5.12	6.84	1.58	2.63	4.21	—	8,399	8,399	0.35	0.08	0.06	8,431
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.15	6.01	53.8	54.1	0.09	2.34	7.73	10.1	2.15	3.95	6.10	—	9,730	9,730	0.41	0.09	< 0.005	9,767
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.65	1.39	12.5	14.3	0.02	0.50	1.40	1.91	0.46	0.72	1.18	—	2,615	2,615	0.11	0.02	0.01	2,625
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.30	0.25	2.28	2.61	< 0.005	0.09	0.26	0.35	0.08	0.13	0.22	—	433	433	0.02	< 0.005	< 0.005	435

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	5.42	4.56	41.7	46.9	0.08	1.71	5.12	6.84	1.58	2.63	4.21	—	8,399	8,399	0.35	0.08	0.06	8,431
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	7.15	6.01	53.8	54.1	0.09	2.34	7.73	10.1	2.15	3.95	6.10	—	9,730	9,730	0.41	0.09	< 0.005	9,767
2027	5.41	4.56	41.7	42.8	0.08	1.71	5.12	6.84	1.58	2.63	4.21	—	8,400	8,400	0.35	0.08	< 0.005	8,431
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.73	0.62	5.50	5.52	0.01	0.24	0.51	0.76	0.22	0.26	0.48	—	993	993	0.04	0.01	< 0.005	997
2027	1.65	1.39	12.5	14.3	0.02	0.50	1.40	1.91	0.46	0.72	1.18	—	2,615	2,615	0.11	0.02	0.01	2,625
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.13	0.11	1.00	1.01	< 0.005	0.04	0.09	0.14	0.04	0.05	0.09	—	164	164	0.01	< 0.005	< 0.005	165
2027	0.30	0.25	2.28	2.61	< 0.005	0.09	0.26	0.35	0.08	0.13	0.22	—	433	433	0.02	< 0.005	< 0.005	435

3. Construction Emissions Details

3.1. Demolition (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	3.05	2.56	22.9	22.9	0.04	1.06	—	1.06	0.98	—	0.98	—	4,139	4,139	0.17	0.03	—	4,153
Demolition	—	—	—	—	—	—	0.06	0.06	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.39	3.46	3.45	0.01	0.16	—	0.16	0.15	—	0.15	—	624	624	0.03	0.01	—	626
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.63	0.63	< 0.005	0.03	—	0.03	0.03	—	0.03	—	103	103	< 0.005	< 0.005	—	104
Demolition	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.01	0.17	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.18	6.18	< 0.005	< 0.005	< 0.005	6.65
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.19	7.19	< 0.005	< 0.005	< 0.005	7.57

Hauling	0.01	< 0.005	0.06	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.7
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.94	0.94	< 0.005	< 0.005	< 0.005	1.01
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.08	1.08	< 0.005	< 0.005	< 0.005	1.14
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.52	1.52	< 0.005	< 0.005	< 0.005	1.60
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.16	0.16	< 0.005	< 0.005	< 0.005	0.17
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.18	0.18	< 0.005	< 0.005	< 0.005	0.19
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.25	0.25	< 0.005	< 0.005	< 0.005	0.27

3.3. Site Preparation (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.95	3.32	30.7	30.6	0.05	1.28	—	1.28	1.18	—	1.18	—	5,542	5,542	0.22	0.04	—	5,561
Dust From Material Movement	—	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.26	0.22	2.02	2.01	< 0.005	0.08	—	0.08	0.08	—	0.08	—	364	364	0.01	< 0.005	—	366
Dust From Material Movement	—	—	—	—	—	—	0.50	0.50	—	0.26	0.26	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.05	0.04	0.37	0.37	< 0.005	0.02	—	0.02	0.01	—	0.01	—	60.3	60.3	< 0.005	< 0.005	—	60.5
Dust From Material Movement	—	—	—	—	—	—	0.09	0.09	—	0.05	0.05	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.02	0.24	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	8.93	8.93	< 0.005	< 0.005	< 0.005	9.60
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.19	7.19	< 0.005	< 0.005	< 0.005	7.57
Hauling	0.01	< 0.005	0.06	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.7
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.59	0.59	< 0.005	< 0.005	< 0.005	0.64
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.47	0.47	< 0.005	< 0.005	< 0.005	0.50
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.66	0.66	< 0.005	< 0.005	< 0.005	0.70
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.10	0.10	< 0.005	< 0.005	< 0.005	0.11
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.08	0.08	< 0.005	< 0.005	< 0.005	0.08
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.11	0.11	< 0.005	< 0.005	< 0.005	0.12

3.5. Reservoir Excavation (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.60	2.19	20.6	22.5	0.04	0.83	—	0.83	0.77	—	0.77	—	4,119	4,119	0.17	0.03	—	4,133
Dust From Material Movement	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.60	2.19	20.6	22.5	0.04	0.83	—	0.83	0.77	—	0.77	—	4,119	4,119	0.17	0.03	—	4,133
Dust From Material Movement	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.55	0.46	4.35	4.75	0.01	0.18	—	0.18	0.16	—	0.16	—	869	869	0.04	0.01	—	872
Dust From Material Movement	—	—	—	—	—	—	1.08	1.08	—	0.55	0.55	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.08	0.79	0.87	< 0.005	0.03	—	0.03	0.03	—	0.03	—	144	144	0.01	< 0.005	—	144
Dust From Material Movement	—	—	—	—	—	—	0.20	0.20	—	0.10	0.10	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.02	0.18	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	8.23	8.23	< 0.005	< 0.005	0.01	8.86
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.02	7.02	< 0.005	< 0.005	0.01	7.40
Hauling	0.01	0.01	0.12	0.09	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	19.7	19.7	0.01	< 0.005	0.01	20.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.02	0.21	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	8.07	8.07	< 0.005	< 0.005	< 0.005	8.69
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.09	7.09	< 0.005	< 0.005	< 0.005	7.46

Hauling	0.01	< 0.005	0.12	0.09	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	19.9	19.9	0.01	< 0.005	< 0.005	21.1
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.04	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.71	1.71	< 0.005	< 0.005	< 0.005	1.84
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.49	1.49	< 0.005	< 0.005	< 0.005	1.57
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.18	4.18	< 0.005	< 0.005	< 0.005	4.41
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.28	0.28	< 0.005	< 0.005	< 0.005	0.31
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.25	0.25	< 0.005	< 0.005	< 0.005	0.26
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.69	0.69	< 0.005	< 0.005	< 0.005	0.73

3.7. Outlet Line (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.60	2.19	20.6	22.5	0.04	0.83	—	0.83	0.77	—	0.77	—	4,119	4,119	0.17	0.03	—	4,133
Dust From Material Movement	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.16	0.14	1.30	1.42	< 0.005	0.05	—	0.05	0.05	—	0.05	—	260	260	0.01	< 0.005	—	260
Dust From Material Movement	—	—	—	—	—	—	0.32	0.32	—	0.17	0.17	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.03	0.03	0.24	0.26	< 0.005	0.01	—	0.01	0.01	—	0.01	—	43.0	43.0	< 0.005	< 0.005	—	43.1
Dust From Material Movement	—	—	—	—	—	—	0.06	0.06	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.01	0.13	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.18	6.18	< 0.005	< 0.005	0.01	6.64
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.02	7.02	< 0.005	< 0.005	0.01	7.40
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.38	0.38	< 0.005	< 0.005	< 0.005	0.41
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.44	0.44	< 0.005	< 0.005	< 0.005	0.47
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.06	0.06	< 0.005	< 0.005	< 0.005	0.07
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.07	0.07	< 0.005	< 0.005	< 0.005	0.08
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Reservoir Construction (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.69	2.26	20.9	19.8	0.04	0.88	—	0.88	0.81	—	0.81	—	4,238	4,238	0.17	0.03	—	4,252
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.69	2.26	20.9	19.8	0.04	0.88	—	0.88	0.81	—	0.81	—	4,238	4,238	0.17	0.03	—	4,252
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.41	0.34	3.15	2.99	0.01	0.13	—	0.13	0.12	—	0.12	—	639	639	0.03	0.01	—	641
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.58	0.54	< 0.005	0.02	—	0.02	0.02	—	0.02	—	106	106	< 0.005	< 0.005	—	106
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.01	0.10	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.80	4.80	< 0.005	< 0.005	0.01	5.17
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.51	3.51	< 0.005	< 0.005	< 0.005	3.70
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.01	0.12	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.71	4.71	< 0.005	< 0.005	< 0.005	5.07
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.54	3.54	< 0.005	< 0.005	< 0.005	3.73
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.71	0.71	< 0.005	< 0.005	< 0.005	0.77
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.53	0.53	< 0.005	< 0.005	< 0.005	0.56
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.12	0.12	< 0.005	< 0.005	< 0.005	0.13
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.09	0.09	< 0.005	< 0.005	< 0.005	0.09
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Pipe/Diversion/Treatment Facility/Pump/Bioswale (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.97	0.82	7.34	8.88	0.02	0.26	—	0.26	0.24	—	0.24	—	1,895	1,895	0.08	0.02	—	1,901
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.12	1.11	1.34	< 0.005	0.04	—	0.04	0.04	—	0.04	—	286	286	0.01	< 0.005	—	287
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.20	0.24	< 0.005	0.01	—	0.01	0.01	—	0.01	—	47.3	47.3	< 0.005	< 0.005	—	47.4
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.01	0.13	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.18	6.18	< 0.005	< 0.005	0.01	6.64
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.51	3.51	< 0.005	< 0.005	< 0.005	3.70

Hauling	0.01	< 0.005	0.06	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.85	9.85	< 0.005	< 0.005	0.01	10.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.92	0.92	< 0.005	< 0.005	< 0.005	0.99
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.53	0.53	< 0.005	< 0.005	< 0.005	0.56
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.49	1.49	< 0.005	< 0.005	< 0.005	1.57
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.15	0.15	< 0.005	< 0.005	< 0.005	0.16
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.09	0.09	< 0.005	< 0.005	< 0.005	0.09
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.25	0.25	< 0.005	< 0.005	< 0.005	0.26

3.13. Field/Bioswale/Landscaping (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.39	1.17	10.6	14.9	0.02	0.42	—	0.42	0.38	—	0.38	—	2,271	2,271	0.09	0.02	—	2,279
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.39	1.17	10.6	14.9	0.02	0.42	—	0.42	0.38	—	0.38	—	2,271	2,271	0.09	0.02	—	2,279
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.34	0.28	2.55	3.60	0.01	0.10	—	0.10	0.09	—	0.09	—	548	548	0.02	< 0.005	—	549
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.47	0.66	< 0.005	0.02	—	0.02	0.02	—	0.02	—	90.7	90.7	< 0.005	< 0.005	—	91.0
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.02	0.19	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	8.92	8.92	< 0.005	< 0.005	0.01	9.59
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.51	3.51	< 0.005	< 0.005	< 0.005	3.70
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.02	0.22	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	8.75	8.75	< 0.005	< 0.005	< 0.005	9.42
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.54	3.54	< 0.005	< 0.005	< 0.005	3.73
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	< 0.005	0.05	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.12	2.12	< 0.005	< 0.005	< 0.005	2.28
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.85	0.85	< 0.005	< 0.005	< 0.005	0.89
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.35	0.35	< 0.005	< 0.005	< 0.005	0.38
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.15
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	10/1/2026	12/16/2026	5.00	55.0	—
Site Preparation	Site Preparation	11/30/2026	12/31/2026	5.00	24.0	—
Reservoir Excavation	Grading	1/1/2027	4/19/2027	5.00	77.0	—
Outlet Line	Grading	8/1/2027	9/1/2027	5.00	23.0	—
Reservoir Construction	Building Construction	3/16/2027	5/31/2027	5.00	55.0	—

Pipe/Diversion/Treatment Facility/Pump/Bioswale	Building Construction	6/1/2027	8/16/2027	5.00	55.0	—
Field/Bioswale/Landscaping	Building Construction	7/31/2027	12/1/2027	5.00	88.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Demolition	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Demolition	Graders	Diesel	Average	2.00	8.00	148	0.41
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37
Reservoir Excavation	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Reservoir Excavation	Skid Steer Loaders	Diesel	Average	2.00	8.00	71.0	0.37
Reservoir Excavation	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Outlet Line	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Outlet Line	Skid Steer Loaders	Diesel	Average	2.00	8.00	71.0	0.37
Outlet Line	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Reservoir Construction	Cranes	Diesel	Average	1.00	8.00	367	0.29
Reservoir Construction	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Reservoir Construction	Skid Steer Loaders	Diesel	Average	2.00	8.00	71.0	0.37

Pipe/Diversion/Treatment	Cranes	Diesel	Average	1.00	8.00	367	0.29
Pipe/Diversion/Treatment Facility/Pump/Bioswale	Trenchers	Diesel	Average	2.00	8.00	40.0	0.50
Pipe/Diversion/Treatment Facility/Pump/Bioswale	Skid Steer Loaders	Diesel	Average	2.00	8.00	71.0	0.37
Field/Bioswale/Landscaping	Graders	Diesel	Average	1.00	8.00	148	0.41
Field/Bioswale/Landscaping	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Field/Bioswale/Landscaping	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Field/Bioswale/Landscaping	Paving Equipment	Diesel	Average	1.00	8.00	89.0	0.36
Field/Bioswale/Landscaping	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
Field/Bioswale/Landscaping	Off-Highway Tractors	Diesel	Average	1.00	8.00	38.0	0.44
Field/Bioswale/Landscaping	Off-Highway Tractors	Diesel	Average	1.00	8.00	38.0	0.44
Field/Bioswale/Landscaping	Forklifts	Diesel	Average	1.00	8.00	82.0	0.20
Field/Bioswale/Landscaping	Cement and Mortar Mixers	Diesel	Average	1.00	8.00	10.0	0.56
Field/Bioswale/Landscaping	Aerial Lifts	Diesel	Average	1.00	8.00	46.0	0.31

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix

Demolition	—	—	—	—
Demolition	Worker	18.0	0.25	LDA,LDT1,LDT2
Demolition	Vendor	4.00	0.25	HHDT,MHDT
Demolition	Hauling	4.00	0.25	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	26.0	0.25	LDA,LDT1,LDT2
Site Preparation	Vendor	4.00	0.25	HHDT,MHDT
Site Preparation	Hauling	4.00	0.25	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Reservoir Excavation	—	—	—	—
Reservoir Excavation	Worker	24.0	0.25	LDA,LDT1,LDT2
Reservoir Excavation	Vendor	4.00	0.25	HHDT,MHDT
Reservoir Excavation	Hauling	8.00	0.25	HHDT
Reservoir Excavation	Onsite truck	—	—	HHDT
Reservoir Construction	—	—	—	—
Reservoir Construction	Worker	14.0	0.25	LDA,LDT1,LDT2
Reservoir Construction	Vendor	2.00	0.25	HHDT,MHDT
Reservoir Construction	Hauling	0.00	0.25	HHDT
Reservoir Construction	Onsite truck	—	—	HHDT
Pipe/Diversion/Treatment Facility/Pump/Bioswale	—	—	—	—
Pipe/Diversion/Treatment Facility/Pump/Bioswale	Worker	18.0	0.25	LDA,LDT1,LDT2
Pipe/Diversion/Treatment Facility/Pump/Bioswale	Vendor	2.00	0.25	HHDT,MHDT
Pipe/Diversion/Treatment Facility/Pump/Bioswale	Hauling	4.00	0.25	HHDT
Pipe/Diversion/Treatment Facility/Pump/Bioswale	Onsite truck	—	—	HHDT

Field/Bioswale/Landscaping	—	—	—	—
Field/Bioswale/Landscaping	Worker	26.0	0.25	LDA,LDT1,LDT2
Field/Bioswale/Landscaping	Vendor	2.00	0.25	HHDT,MHDT
Field/Bioswale/Landscaping	Hauling	0.00	0.25	HHDT
Field/Bioswale/Landscaping	Onsite truck	—	—	HHDT
Outlet Line	—	—	—	—
Outlet Line	Worker	18.0	0.25	LDA,LDT1,LDT2
Outlet Line	Vendor	4.00	0.25	HHDT,MHDT
Outlet Line	Hauling	0.00	0.25	HHDT
Outlet Line	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Ton of Debris)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	141	—
Site Preparation	—	—	36.0	0.00	—
Reservoir Excavation	—	3,980	100	0.00	—
Outlet Line	—	—	23.0	0.00	—

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
City Park	0.00	0%
Other Asphalt Surfaces	0.07	100%
Other Non-Asphalt Surfaces	0.08	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2026	0.00	532	0.03	< 0.005
2027	0.00	532	0.03	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	5.08	annual days of extreme heat
Extreme Precipitation	4.20	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A

Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	1	1	2
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	22.2
AQ-PM	80.6
AQ-DPM	86.0
Drinking Water	29.4
Lead Risk Housing	59.8
Pesticides	0.00
Toxic Releases	98.8
Traffic	95.4
Effect Indicators	—
CleanUp Sites	89.2
Groundwater	94.0
Haz Waste Facilities/Generators	67.0
Impaired Water Bodies	93.4
Solid Waste	54.8
Sensitive Population	—
Asthma	76.6
Cardio-vascular	82.7
Low Birth Weights	74.9
Socioeconomic Factor Indicators	—
Education	62.2
Housing	28.2
Linguistic	77.1
Poverty	49.7
Unemployment	43.1

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.92377775
Employed	62.37649172
Median HI	55.88348518
Education	—
Bachelor's or higher	53.18875914
High school enrollment	100
Preschool enrollment	48.45374054
Transportation	—
Auto Access	31.27165405
Active commuting	35.41639933
Social	—
2-parent households	72.60361863
Voting	9.29038881
Neighborhood	—
Alcohol availability	51.72590787
Park access	27.21673297
Retail density	43.47491338
Supermarket access	40.56204286
Tree canopy	50.87899397
Housing	—
Homeownership	92.2751187
Housing habitability	75.06736815
Low-inc homeowner severe housing cost burden	74.6439112
Low-inc renter severe housing cost burden	51.52059541

Uncrowded housing	28.33311947
Health Outcomes	—
Insured adults	43.11561658
Arthritis	59.3
Asthma ER Admissions	30.5
High Blood Pressure	37.6
Cancer (excluding skin)	49.7
Asthma	94.4
Coronary Heart Disease	54.4
Chronic Obstructive Pulmonary Disease	74.0
Diagnosed Diabetes	25.3
Life Expectancy at Birth	63.6
Cognitively Disabled	50.3
Physically Disabled	14.3
Heart Attack ER Admissions	25.8
Mental Health Not Good	69.9
Chronic Kidney Disease	45.1
Obesity	76.5
Pedestrian Injuries	19.6
Physical Health Not Good	51.8
Stroke	51.7
Health Risk Behaviors	—
Binge Drinking	89.1
Current Smoker	71.8
No Leisure Time for Physical Activity	41.3
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0

Children	68.4
Elderly	14.5
English Speaking	25.4
Foreign-born	90.0
Outdoor Workers	75.3
Climate Change Adaptive Capacity	—
Impervious Surface Cover	11.0
Traffic Density	92.2
Traffic Access	61.6
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	18.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	92.0
Healthy Places Index Score for Project Location (b)	51.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	Wilmington Long Beach Carson

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Adjusted default construction phases and durations based on Project description.
Construction: Off-Road Equipment	Revised default equipment assumptions based on Project Description
Construction: Trips and VMT	Conservatively rounded default trips up to nearest even number. Added vendor trips to account for water and delivery trucks. 0.25 miles for on-site travel.
Construction: Dust From Material Movement	Excavation quantities provided by applicant.
Operations: Solid Waste	No increase in solid waste compared to existing conditions.
Operations: Refrigerants	No increase in refrigerants compared to existing conditions.
Operations: Water and Waste Water	No increase in outdoor water use compared to existing conditions.
Operations: Off-Road Equipment	Larger electric pump to pump treated stormwater into the proposed bioswale (HP from project design plans). Smaller booster pump to assist the existing irrigation system (default HP).

Appendix B

Construction Health Risk Assessment Modeling

Table of Contents

Calas Park Stormwater Capture Project Construction HRA Detailed Report	2
Carson Calas Park Stormwater Capture.ADO	57
Residential_UnmitigatedOutput	257
Unmitigated_Residential_CancerRisk	260
Unmitigated_Residential_ChronicRisk	285
School_UnmitigatedOutput	308
Unmitigated_School_CancerRisk	311
Unmitigated_School_ChronicRisk	312
Residential_MitigatedOutput	313
Mitigated_Residential_CancerRisk	316
Mitigated_Residential_ChronicRisk	341
School_MitigatedOutput	364
Mitigated_School_CancerRisk	367
Mitigated_School_ChronicRisk	368

Calas Park Stormwater Capture Project Construction HRA Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

1.2. Land Use Types

1.3. User-Selected Emission Reduction Measures by Emissions Sector

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

2.2. Construction Emissions by Year, Unmitigated

2.3. Construction Emissions by Year, Mitigated

3. Construction Emissions Details

3.1. Demolition (2026) - Unmitigated

3.2. Demolition (2026) - Mitigated

3.3. Site Preparation (2026) - Unmitigated

3.4. Site Preparation (2026) - Mitigated

3.5. Reservoir Excavation (2027) - Unmitigated

3.6. Reservoir Excavation (2027) - Mitigated

3.7. Outlet Line (2027) - Unmitigated

3.8. Outlet Line (2027) - Mitigated

3.9. Reservoir Construction (2027) - Unmitigated

3.10. Reservoir Construction (2027) - Mitigated

3.11. Pipe/Diversion/Treatment Facility/Pump/Bioswale (2027) - Unmitigated

3.12. Pipe/Diversion/Treatment Facility/Pump/Bioswale (2027) - Mitigated

3.13. Field/Bioswale/Landscaping (2027) - Unmitigated

3.14. Field/Bioswale/Landscaping (2027) - Mitigated

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.2.2. Mitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

5.3.2. Mitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

5.6.2. Construction Earthmoving Control Strategies

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Calas Park Stormwater Capture Project Construction HRA
Construction Start Date	10/1/2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.50
Precipitation (days)	17.4
Location	33.827447691220186, -118.2571402051142
County	Los Angeles-South Coast
City	Carson
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4617
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
City Park	5.72	Acre	5.72	0.00	6,620	6,620	—	Park fields
Other Asphalt Surfaces	3.26	1000sqft	0.07	0.00	0.00	—	—	Pavement

Other Non-Asphalt Surfaces	3.49	1000sqft	0.08	0.00	0.00	—	—	Concrete sidewalks

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-6	Use Diesel Particulate Filters

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.31	4.46	41.7	46.4	0.08	1.71	5.12	6.83	1.58	2.63	4.20	—	8,386	8,386	0.35	0.07	0.03	8,417
Mit.	5.31	4.46	41.7	46.4	0.08	0.26	5.12	5.37	0.24	2.63	2.86	—	8,386	8,386	0.35	0.07	0.03	8,417
% Reduced	—	—	—	—	—	85%	—	21%	85%	—	32%	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.02	5.89	53.8	53.7	0.09	2.34	7.73	10.1	2.15	3.95	6.10	—	9,715	9,715	0.40	0.08	< 0.005	9,750
Mit.	7.02	5.89	53.8	53.7	0.09	0.35	7.73	8.08	0.32	3.95	4.27	—	9,715	9,715	0.40	0.08	< 0.005	9,750
% Reduced	—	—	—	—	—	85%	—	20%	85%	—	30%	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.61	1.35	12.5	14.1	0.02	0.50	1.40	1.90	0.46	0.72	1.18	—	2,610	2,610	0.11	0.02	< 0.005	2,619
Mit.	1.61	1.35	12.5	14.1	0.02	0.08	1.40	1.48	0.07	0.72	0.79	—	2,610	2,610	0.11	0.02	< 0.005	2,619

% Reduced	—	—	—	—	—	85%	—	22%	85%	—	33%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.29	0.25	2.28	2.58	< 0.005	0.09	0.26	0.35	0.08	0.13	0.22	—	432	432	0.02	< 0.005	< 0.005	434
Mit.	0.29	0.25	2.28	2.58	< 0.005	0.01	0.26	0.27	0.01	0.13	0.14	—	432	432	0.02	< 0.005	< 0.005	434
% Reduced	—	—	—	—	—	85%	—	22%	85%	—	33%	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	5.31	4.46	41.7	46.4	0.08	1.71	5.12	6.83	1.58	2.63	4.20	—	8,386	8,386	0.35	0.07	0.03	8,417
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	7.02	5.89	53.8	53.7	0.09	2.34	7.73	10.1	2.15	3.95	6.10	—	9,715	9,715	0.40	0.08	< 0.005	9,750
2027	5.31	4.45	41.7	42.5	0.08	1.71	5.12	6.83	1.58	2.63	4.20	—	8,387	8,387	0.35	0.07	< 0.005	8,417
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.72	0.60	5.49	5.48	0.01	0.24	0.51	0.76	0.22	0.26	0.48	—	992	992	0.04	0.01	< 0.005	995
2027	1.61	1.35	12.5	14.1	0.02	0.50	1.40	1.90	0.46	0.72	1.18	—	2,610	2,610	0.11	0.02	< 0.005	2,619
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.13	0.11	1.00	1.00	< 0.005	0.04	0.09	0.14	0.04	0.05	0.09	—	164	164	0.01	< 0.005	< 0.005	165
2027	0.29	0.25	2.28	2.58	< 0.005	0.09	0.26	0.35	0.08	0.13	0.22	—	432	432	0.02	< 0.005	< 0.005	434

2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	5.31	4.46	41.7	46.4	0.08	0.26	5.12	5.37	0.24	2.63	2.86	—	8,386	8,386	0.35	0.07	0.03	8,417
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	7.02	5.89	53.8	53.7	0.09	0.35	7.73	8.08	0.32	3.95	4.27	—	9,715	9,715	0.40	0.08	< 0.005	9,750
2027	5.31	4.45	41.7	42.5	0.08	0.26	5.12	5.37	0.24	2.63	2.86	—	8,387	8,387	0.35	0.07	< 0.005	8,417
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.72	0.60	5.49	5.48	0.01	0.04	0.51	0.55	0.03	0.26	0.29	—	992	992	0.04	0.01	< 0.005	995
2027	1.61	1.35	12.5	14.1	0.02	0.08	1.40	1.48	0.07	0.72	0.79	—	2,610	2,610	0.11	0.02	< 0.005	2,619
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.13	0.11	1.00	1.00	< 0.005	0.01	0.09	0.10	0.01	0.05	0.05	—	164	164	0.01	< 0.005	< 0.005	165
2027	0.29	0.25	2.28	2.58	< 0.005	0.01	0.26	0.27	0.01	0.13	0.14	—	432	432	0.02	< 0.005	< 0.005	434

3. Construction Emissions Details

3.1. Demolition (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	3.05	2.56	22.9	22.9	0.04	1.06	—	1.06	0.98	—	0.98	—	4,139	4,139	0.17	0.03	—	4,153
Demolition	—	—	—	—	—	—	0.06	0.06	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.39	3.46	3.45	0.01	0.16	—	0.16	0.15	—	0.15	—	624	624	0.03	0.01	—	626
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.63	0.63	< 0.005	0.03	—	0.03	0.03	—	0.03	—	103	103	< 0.005	< 0.005	—	104
Demolition	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.19	7.19	< 0.005	< 0.005	< 0.005	7.57

Hauling	0.01	< 0.005	0.06	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.7
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.08	1.08	< 0.005	< 0.005	< 0.005	1.14
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.52	1.52	< 0.005	< 0.005	< 0.005	1.60
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.18	0.18	< 0.005	< 0.005	< 0.005	0.19
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.25	0.25	< 0.005	< 0.005	< 0.005	0.27

3.2. Demolition (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.05	2.56	22.9	22.9	0.04	0.16	—	0.16	0.15	—	0.15	—	4,139	4,139	0.17	0.03	—	4,153
Demolition	—	—	—	—	—	—	0.06	0.06	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.46	0.39	3.46	3.45	0.01	0.02	—	0.02	0.02	—	0.02	—	624	624	0.03	0.01	—	626
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.63	0.63	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	103	103	< 0.005	< 0.005	—	104
Demolition	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.19	7.19	< 0.005	< 0.005	< 0.005	7.57
Hauling	0.01	< 0.005	0.06	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.7
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.08	1.08	< 0.005	< 0.005	< 0.005	1.14
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.52	1.52	< 0.005	< 0.005	< 0.005	1.60
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.18	0.18	< 0.005	< 0.005	< 0.005	0.19

Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.25	0.25	< 0.005	< 0.005	< 0.005	0.27

3.3. Site Preparation (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.95	3.32	30.7	30.6	0.05	1.28	—	1.28	1.18	—	1.18	—	5,542	5,542	0.22	0.04	—	5,561
Dust From Material Movement	—	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.26	0.22	2.02	2.01	< 0.005	0.08	—	0.08	0.08	—	0.08	—	364	364	0.01	< 0.005	—	366
Dust From Material Movement	—	—	—	—	—	—	0.50	0.50	—	0.26	0.26	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.05	0.04	0.37	0.37	< 0.005	0.02	—	0.02	0.01	—	0.01	—	60.3	60.3	< 0.005	< 0.005	—	60.5
Dust From Material Movement	—	—	—	—	—	—	0.09	0.09	—	0.05	0.05	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.19	7.19	< 0.005	< 0.005	< 0.005	7.57
Hauling	0.01	< 0.005	0.06	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.7
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.47	0.47	< 0.005	< 0.005	< 0.005	0.50
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.66	0.66	< 0.005	< 0.005	< 0.005	0.70
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.08	0.08	< 0.005	< 0.005	< 0.005	0.08
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.11	0.11	< 0.005	< 0.005	< 0.005	0.12

3.4. Site Preparation (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.95	3.32	30.7	30.6	0.05	0.19	—	0.19	0.18	—	0.18	—	5,542	5,542	0.22	0.04	—	5,561
Dust From Material Movement	—	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.26	0.22	2.02	2.01	< 0.005	0.01	—	0.01	0.01	—	0.01	—	364	364	0.01	< 0.005	—	366
Dust From Material Movement	—	—	—	—	—	—	0.50	0.50	—	0.26	0.26	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.37	0.37	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	60.3	60.3	< 0.005	< 0.005	—	60.5
Dust From Material Movement	—	—	—	—	—	—	0.09	0.09	—	0.05	0.05	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.19	7.19	< 0.005	< 0.005	< 0.005	7.57
Hauling	0.01	< 0.005	0.06	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.7
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.47	0.47	< 0.005	< 0.005	< 0.005	0.50
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.66	0.66	< 0.005	< 0.005	< 0.005	0.70
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.08	0.08	< 0.005	< 0.005	< 0.005	0.08
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.11	0.11	< 0.005	< 0.005	< 0.005	0.12

3.5. Reservoir Excavation (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	2.60	2.19	20.6	22.5	0.04	0.83	—	0.83	0.77	—	0.77	—	4,119	4,119	0.17	0.03	—	4,133
Dust From Material Movement	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.60	2.19	20.6	22.5	0.04	0.83	—	0.83	0.77	—	0.77	—	4,119	4,119	0.17	0.03	—	4,133
Dust From Material Movement	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.55	0.46	4.35	4.75	0.01	0.18	—	0.18	0.16	—	0.16	—	869	869	0.04	0.01	—	872
Dust From Material Movement	—	—	—	—	—	—	1.08	1.08	—	0.55	0.55	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.10	0.08	0.79	0.87	< 0.005	0.03	—	0.03	0.03	—	0.03	—	144	144	0.01	< 0.005	—	144
Dust From Material Movement	—	—	—	—	—	—	0.20	0.20	—	0.10	0.10	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.02	7.02	< 0.005	< 0.005	0.01	7.40
Hauling	0.01	0.01	0.12	0.09	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	19.7	19.7	0.01	< 0.005	0.01	20.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.09	7.09	< 0.005	< 0.005	< 0.005	7.46
Hauling	0.01	< 0.005	0.12	0.09	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	19.9	19.9	0.01	< 0.005	< 0.005	21.1
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.49	1.49	< 0.005	< 0.005	< 0.005	1.57
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.18	4.18	< 0.005	< 0.005	< 0.005	4.41
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.25	0.25	< 0.005	< 0.005	< 0.005	0.26
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.69	0.69	< 0.005	< 0.005	< 0.005	0.73

3.6. Reservoir Excavation (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.60	2.19	20.6	22.5	0.04	0.13	—	0.13	0.12	—	0.12	—	4,119	4,119	0.17	0.03	—	4,133
Dust From Material Movement	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.60	2.19	20.6	22.5	0.04	0.13	—	0.13	0.12	—	0.12	—	4,119	4,119	0.17	0.03	—	4,133
Dust From Material Movement	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.55	0.46	4.35	4.75	0.01	0.03	—	0.03	0.02	—	0.02	—	869	869	0.04	0.01	—	872

Dust From Material Movement	—	—	—	—	—	—	1.08	1.08	—	0.55	0.55	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.08	0.79	0.87	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	144	144	0.01	< 0.005	—	144
Dust From Material Movement	—	—	—	—	—	—	0.20	0.20	—	0.10	0.10	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.02	7.02	< 0.005	< 0.005	0.01	7.40
Hauling	0.01	0.01	0.12	0.09	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	19.7	19.7	0.01	< 0.005	0.01	20.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.09	7.09	< 0.005	< 0.005	< 0.005	7.46
Hauling	0.01	< 0.005	0.12	0.09	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	19.9	19.9	0.01	< 0.005	< 0.005	21.1
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.49	1.49	< 0.005	< 0.005	< 0.005	1.57

Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.18	4.18	< 0.005	< 0.005	< 0.005	4.41
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.25	0.25	< 0.005	< 0.005	< 0.005	0.26
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.69	0.69	< 0.005	< 0.005	< 0.005	0.73

3.7. Outlet Line (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.60	2.19	20.6	22.5	0.04	0.83	—	0.83	0.77	—	0.77	—	4,119	4,119	0.17	0.03	—	4,133
Dust From Material Movement	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.14	1.30	1.42	< 0.005	0.05	—	0.05	0.05	—	0.05	—	260	260	0.01	< 0.005	—	260

Dust From Material Movement	—	—	—	—	—	—	0.32	0.32	—	0.17	0.17	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.24	0.26	< 0.005	0.01	—	0.01	0.01	—	0.01	—	43.0	43.0	< 0.005	< 0.005	—	43.1
Dust From Material Movement	—	—	—	—	—	—	0.06	0.06	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.02	7.02	< 0.005	< 0.005	0.01	7.40
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.44	0.44	< 0.005	< 0.005	< 0.005	0.47
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.07	0.07	< 0.005	< 0.005	< 0.005	0.08
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Outlet Line (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.60	2.19	20.6	22.5	0.04	0.13	—	0.13	0.12	—	0.12	—	4,119	4,119	0.17	0.03	—	4,133
Dust From Material Movement	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.14	1.30	1.42	< 0.005	0.01	—	0.01	0.01	—	0.01	—	260	260	0.01	< 0.005	—	260
Dust From Material Movement	—	—	—	—	—	—	0.32	0.32	—	0.17	0.17	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.24	0.26	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	43.0	43.0	< 0.005	< 0.005	—	43.1
Dust From Material Movement	—	—	—	—	—	—	0.06	0.06	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.02	7.02	< 0.005	< 0.005	0.01	7.40
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.44	0.44	< 0.005	< 0.005	< 0.005	0.47
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.07	0.07	< 0.005	< 0.005	< 0.005	0.08
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Reservoir Construction (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.69	2.26	20.9	19.8	0.04	0.88	—	0.88	0.81	—	0.81	—	4,238	4,238	0.17	0.03	—	4,252
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.69	2.26	20.9	19.8	0.04	0.88	—	0.88	0.81	—	0.81	—	4,238	4,238	0.17	0.03	—	4,252
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.41	0.34	3.15	2.99	0.01	0.13	—	0.13	0.12	—	0.12	—	639	639	0.03	0.01	—	641
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.58	0.54	< 0.005	0.02	—	0.02	0.02	—	0.02	—	106	106	< 0.005	< 0.005	—	106
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.51	3.51	< 0.005	< 0.005	< 0.005	3.70
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.54	3.54	< 0.005	< 0.005	< 0.005	3.73
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.53	0.53	< 0.005	< 0.005	< 0.005	0.56
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.09	0.09	< 0.005	< 0.005	< 0.005	0.09
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Reservoir Construction (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	2.69	2.26	20.9	19.8	0.04	0.13	—	0.13	0.12	—	0.12	—	4,238	4,238	0.17	0.03	—	4,252
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.69	2.26	20.9	19.8	0.04	0.13	—	0.13	0.12	—	0.12	—	4,238	4,238	0.17	0.03	—	4,252
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.41	0.34	3.15	2.99	0.01	0.02	—	0.02	0.02	—	0.02	—	639	639	0.03	0.01	—	641
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.58	0.54	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	106	106	< 0.005	< 0.005	—	106
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.51	3.51	< 0.005	< 0.005	< 0.005	3.70
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.54	3.54	< 0.005	< 0.005	< 0.005	3.73
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.53	0.53	< 0.005	< 0.005	< 0.005	0.56
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.09	0.09	< 0.005	< 0.005	< 0.005	0.09
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Pipe/Diversion/Treatment Facility/Pump/Bioswale (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.97	0.82	7.34	8.88	0.02	0.26	—	0.26	0.24	—	0.24	—	1,895	1,895	0.08	0.02	—	1,901
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.12	1.11	1.34	< 0.005	0.04	—	0.04	0.04	—	0.04	—	286	286	0.01	< 0.005	—	287
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.20	0.24	< 0.005	0.01	—	0.01	0.01	—	0.01	—	47.3	47.3	< 0.005	< 0.005	—	47.4
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.51	3.51	< 0.005	< 0.005	< 0.005	3.70
Hauling	0.01	< 0.005	0.06	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.85	9.85	< 0.005	< 0.005	0.01	10.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.53	0.53	< 0.005	< 0.005	< 0.005	0.56
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.49	1.49	< 0.005	< 0.005	< 0.005	1.57
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.09	0.09	< 0.005	< 0.005	< 0.005	0.09
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.25	0.25	< 0.005	< 0.005	< 0.005	0.26

3.12. Pipe/Diversion/Treatment Facility/Pump/Bioswale (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.97	0.82	7.34	8.88	0.02	0.04	—	0.04	0.04	—	0.04	—	1,895	1,895	0.08	0.02	—	1,901
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.12	1.11	1.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	286	286	0.01	< 0.005	—	287
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.20	0.24	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	47.3	47.3	< 0.005	< 0.005	—	47.4
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.51	3.51	< 0.005	< 0.005	< 0.005	3.70
Hauling	0.01	< 0.005	0.06	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.85	9.85	< 0.005	< 0.005	0.01	10.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.53	0.53	< 0.005	< 0.005	< 0.005	0.56
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.49	1.49	< 0.005	< 0.005	< 0.005	1.57
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.09	0.09	< 0.005	< 0.005	< 0.005	0.09
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.25	0.25	< 0.005	< 0.005	< 0.005	0.26

3.13. Field/Bioswale/Landscaping (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.39	1.17	10.6	14.9	0.02	0.42	—	0.42	0.38	—	0.38	—	2,271	2,271	0.09	0.02	—	2,279
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	1.39	1.17	10.6	14.9	0.02	0.42	—	0.42	0.38	—	0.38	—	2,271	2,271	0.09	0.02	—	2,279
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.34	0.28	2.55	3.60	0.01	0.10	—	0.10	0.09	—	0.09	—	548	548	0.02	< 0.005	—	549
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.06	0.05	0.47	0.66	< 0.005	0.02	—	0.02	0.02	—	0.02	—	90.7	90.7	< 0.005	< 0.005	—	91.0
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.51	3.51	< 0.005	< 0.005	< 0.005	3.70
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.54	3.54	< 0.005	< 0.005	< 0.005	3.73
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.85	0.85	< 0.005	< 0.005	< 0.005	0.89
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.15
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Field/Bioswale/Landscaping (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.39	1.17	10.6	14.9	0.02	0.06	—	0.06	0.06	—	0.06	—	2,271	2,271	0.09	0.02	—	2,279
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.39	1.17	10.6	14.9	0.02	0.06	—	0.06	0.06	—	0.06	—	2,271	2,271	0.09	0.02	—	2,279
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.34	0.28	2.55	3.60	0.01	0.02	—	0.02	0.01	—	0.01	—	548	548	0.02	< 0.005	—	549
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.47	0.66	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	90.7	90.7	< 0.005	< 0.005	—	91.0
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.51	3.51	< 0.005	< 0.005	< 0.005	3.70
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.54	3.54	< 0.005	< 0.005	< 0.005	3.73
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.85	0.85	< 0.005	< 0.005	< 0.005	0.89
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.15

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	10/1/2026	12/16/2026	5.00	55.0	—
Site Preparation	Site Preparation	11/30/2026	12/31/2026	5.00	24.0	—
Reservoir Excavation	Grading	1/1/2027	4/19/2027	5.00	77.0	—
Outlet Line	Grading	8/1/2027	9/1/2027	5.00	23.0	—
Reservoir Construction	Building Construction	3/16/2027	5/31/2027	5.00	55.0	—
Pipe/Diversion/Treatment Facility/Pump/Bioswale	Building Construction	6/1/2027	8/16/2027	5.00	55.0	—

Field/Bioswale/Landscaping	Building Construction	7/31/2027	12/1/2027	5.00	88.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Demolition	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Demolition	Graders	Diesel	Average	2.00	8.00	148	0.41
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37
Reservoir Excavation	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Reservoir Excavation	Skid Steer Loaders	Diesel	Average	2.00	8.00	71.0	0.37
Reservoir Excavation	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Outlet Line	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Outlet Line	Skid Steer Loaders	Diesel	Average	2.00	8.00	71.0	0.37
Outlet Line	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Reservoir Construction	Cranes	Diesel	Average	1.00	8.00	367	0.29
Reservoir Construction	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Reservoir Construction	Skid Steer Loaders	Diesel	Average	2.00	8.00	71.0	0.37

Pipe/Diversion/Treatment Facility/Pump/Bioswale	Cranes	Diesel	Average	1.00	8.00	367	0.29
Pipe/Diversion/Treatment Facility/Pump/Bioswale	Trenchers	Diesel	Average	2.00	8.00	40.0	0.50
Pipe/Diversion/Treatment Facility/Pump/Bioswale	Skid Steer Loaders	Diesel	Average	2.00	8.00	71.0	0.37
Field/Bioswale/Landscaping	Graders	Diesel	Average	1.00	8.00	148	0.41
Field/Bioswale/Landscaping	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Field/Bioswale/Landscaping	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Field/Bioswale/Landscaping	Paving Equipment	Diesel	Average	1.00	8.00	89.0	0.36
Field/Bioswale/Landscaping	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
Field/Bioswale/Landscaping	Off-Highway Tractors	Diesel	Average	1.00	8.00	38.0	0.44
Field/Bioswale/Landscaping	Off-Highway Tractors	Diesel	Average	1.00	8.00	38.0	0.44
Field/Bioswale/Landscaping	Forklifts	Diesel	Average	1.00	8.00	82.0	0.20
Field/Bioswale/Landscaping	Cement and Mortar Mixers	Diesel	Average	1.00	8.00	10.0	0.56
Field/Bioswale/Landscaping	Aerial Lifts	Diesel	Average	1.00	8.00	46.0	0.31

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

Demolition	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Demolition	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Demolition	Graders	Diesel	Average	2.00	8.00	148	0.41
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37
Reservoir Excavation	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Reservoir Excavation	Skid Steer Loaders	Diesel	Average	2.00	8.00	71.0	0.37
Reservoir Excavation	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Outlet Line	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Outlet Line	Skid Steer Loaders	Diesel	Average	2.00	8.00	71.0	0.37
Outlet Line	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Reservoir Construction	Cranes	Diesel	Average	1.00	8.00	367	0.29
Reservoir Construction	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Reservoir Construction	Skid Steer Loaders	Diesel	Average	2.00	8.00	71.0	0.37
Pipe/Diversion/Treatment Facility/Pump/Bioswale	Cranes	Diesel	Average	1.00	8.00	367	0.29
Pipe/Diversion/Treatment Facility/Pump/Bioswale	Trenchers	Diesel	Average	2.00	8.00	40.0	0.50
Pipe/Diversion/Treatment Facility/Pump/Bioswale	Skid Steer Loaders	Diesel	Average	2.00	8.00	71.0	0.37

Field/Bioswale/Landsc	Graders	Diesel	Average	1.00	8.00	148	0.41
Field/Bioswale/Landsc aping	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Field/Bioswale/Landsc aping	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Field/Bioswale/Landsc aping	Paving Equipment	Diesel	Average	1.00	8.00	89.0	0.36
Field/Bioswale/Landsc aping	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
Field/Bioswale/Landsc aping	Off-Highway Tractors	Diesel	Average	1.00	8.00	38.0	0.44
Field/Bioswale/Landsc aping	Off-Highway Tractors	Diesel	Average	1.00	8.00	38.0	0.44
Field/Bioswale/Landsc aping	Forklifts	Diesel	Average	1.00	8.00	82.0	0.20
Field/Bioswale/Landsc aping	Cement and Mortar Mixers	Diesel	Average	1.00	8.00	10.0	0.56
Field/Bioswale/Landsc aping	Aerial Lifts	Diesel	Average	1.00	8.00	46.0	0.31

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	0.00	0.00	LDA,LDT1,LDT2
Demolition	Vendor	4.00	0.25	HHDT,MHDT
Demolition	Hauling	4.00	0.25	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	0.00	0.00	LDA,LDT1,LDT2
Site Preparation	Vendor	4.00	0.25	HHDT,MHDT

Site Preparation	Hauling	4.00	0.25	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Reservoir Excavation	—	—	—	—
Reservoir Excavation	Worker	0.00	0.00	LDA,LDT1,LDT2
Reservoir Excavation	Vendor	4.00	0.25	HHDT,MHDT
Reservoir Excavation	Hauling	8.00	0.25	HHDT
Reservoir Excavation	Onsite truck	—	—	HHDT
Reservoir Construction	—	—	—	—
Reservoir Construction	Worker	0.00	0.00	LDA,LDT1,LDT2
Reservoir Construction	Vendor	2.00	0.25	HHDT,MHDT
Reservoir Construction	Hauling	0.00	0.25	HHDT
Reservoir Construction	Onsite truck	—	—	HHDT
Pipe/Diversion/Treatment Facility/Pump/Bioswale	—	—	—	—
Pipe/Diversion/Treatment Facility/Pump/Bioswale	Worker	0.00	0.00	LDA,LDT1,LDT2
Pipe/Diversion/Treatment Facility/Pump/Bioswale	Vendor	2.00	0.25	HHDT,MHDT
Pipe/Diversion/Treatment Facility/Pump/Bioswale	Hauling	4.00	0.25	HHDT
Pipe/Diversion/Treatment Facility/Pump/Bioswale	Onsite truck	—	—	HHDT
Field/Bioswale/Landscaping	—	—	—	—
Field/Bioswale/Landscaping	Worker	0.00	0.00	LDA,LDT1,LDT2
Field/Bioswale/Landscaping	Vendor	2.00	0.25	HHDT,MHDT
Field/Bioswale/Landscaping	Hauling	0.00	0.25	HHDT
Field/Bioswale/Landscaping	Onsite truck	—	—	HHDT
Outlet Line	—	—	—	—
Outlet Line	Worker	0.00	0.00	LDA,LDT1,LDT2
Outlet Line	Vendor	4.00	0.25	HHDT,MHDT

Outlet Line	Hauling	0.00	0.25	HHDT
Outlet Line	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	0.00	0.00	LDA,LDT1,LDT2
Demolition	Vendor	4.00	0.25	HHDT,MHDT
Demolition	Hauling	4.00	0.25	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	0.00	0.00	LDA,LDT1,LDT2
Site Preparation	Vendor	4.00	0.25	HHDT,MHDT
Site Preparation	Hauling	4.00	0.25	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Reservoir Excavation	—	—	—	—
Reservoir Excavation	Worker	0.00	0.00	LDA,LDT1,LDT2
Reservoir Excavation	Vendor	4.00	0.25	HHDT,MHDT
Reservoir Excavation	Hauling	8.00	0.25	HHDT
Reservoir Excavation	Onsite truck	—	—	HHDT
Reservoir Construction	—	—	—	—
Reservoir Construction	Worker	0.00	0.00	LDA,LDT1,LDT2
Reservoir Construction	Vendor	2.00	0.25	HHDT,MHDT
Reservoir Construction	Hauling	0.00	0.25	HHDT
Reservoir Construction	Onsite truck	—	—	HHDT
Pipe/Diversion/Treatment Facility/Pump/Bioswale	—	—	—	—
Pipe/Diversion/Treatment Facility/Pump/Bioswale	Worker	0.00	0.00	LDA,LDT1,LDT2

Pipe/Diversion/Treatment Facility/Pump/Bioswale	Vendor	2.00	0.25	HHDT,MHDT
Pipe/Diversion/Treatment Facility/Pump/Bioswale	Hauling	4.00	0.25	HHDT
Pipe/Diversion/Treatment Facility/Pump/Bioswale	Onsite truck	—	—	HHDT
Field/Bioswale/Landscaping	—	—	—	—
Field/Bioswale/Landscaping	Worker	0.00	0.00	LDA,LDT1,LDT2
Field/Bioswale/Landscaping	Vendor	2.00	0.25	HHDT,MHDT
Field/Bioswale/Landscaping	Hauling	0.00	0.25	HHDT
Field/Bioswale/Landscaping	Onsite truck	—	—	HHDT
Outlet Line	—	—	—	—
Outlet Line	Worker	0.00	0.00	LDA,LDT1,LDT2
Outlet Line	Vendor	4.00	0.25	HHDT,MHDT
Outlet Line	Hauling	0.00	0.25	HHDT
Outlet Line	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Ton of Debris)	Acres Paved (acres)

Demolition	0.00	0.00	0.00	141	—
Site Preparation	—	—	36.0	0.00	—
Reservoir Excavation	—	3,980	100	0.00	—
Outlet Line	—	—	23.0	0.00	—

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
City Park	0.00	0%
Other Asphalt Surfaces	0.07	100%
Other Non-Asphalt Surfaces	0.08	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2026	0.00	532	0.03	< 0.005
2027	0.00	532	0.03	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	5.08	annual days of extreme heat
Extreme Precipitation	4.20	annual days with precipitation above 20 mm

Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	1	1	2

Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	22.2
AQ-PM	80.6
AQ-DPM	86.0
Drinking Water	29.4
Lead Risk Housing	59.8
Pesticides	0.00
Toxic Releases	98.8
Traffic	95.4
Effect Indicators	—

CleanUp Sites	89.2
Groundwater	94.0
Haz Waste Facilities/Generators	67.0
Impaired Water Bodies	93.4
Solid Waste	54.8
Sensitive Population	—
Asthma	76.6
Cardio-vascular	82.7
Low Birth Weights	74.9
Socioeconomic Factor Indicators	—
Education	62.2
Housing	28.2
Linguistic	77.1
Poverty	49.7
Unemployment	43.1

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.92377775
Employed	62.37649172
Median HI	55.88348518
Education	—
Bachelor's or higher	53.18875914
High school enrollment	100
Preschool enrollment	48.45374054
Transportation	—

Auto Access	31.27165405
Active commuting	35.41639933
Social	—
2-parent households	72.60361863
Voting	9.29038881
Neighborhood	—
Alcohol availability	51.72590787
Park access	27.21673297
Retail density	43.47491338
Supermarket access	40.56204286
Tree canopy	50.87899397
Housing	—
Homeownership	92.2751187
Housing habitability	75.06736815
Low-inc homeowner severe housing cost burden	74.6439112
Low-inc renter severe housing cost burden	51.52059541
Uncrowded housing	28.33311947
Health Outcomes	—
Insured adults	43.11561658
Arthritis	59.3
Asthma ER Admissions	30.5
High Blood Pressure	37.6
Cancer (excluding skin)	49.7
Asthma	94.4
Coronary Heart Disease	54.4
Chronic Obstructive Pulmonary Disease	74.0
Diagnosed Diabetes	25.3
Life Expectancy at Birth	63.6

Cognitively Disabled	50.3
Physically Disabled	14.3
Heart Attack ER Admissions	25.8
Mental Health Not Good	69.9
Chronic Kidney Disease	45.1
Obesity	76.5
Pedestrian Injuries	19.6
Physical Health Not Good	51.8
Stroke	51.7
Health Risk Behaviors	—
Binge Drinking	89.1
Current Smoker	71.8
No Leisure Time for Physical Activity	41.3
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	68.4
Elderly	14.5
English Speaking	25.4
Foreign-born	90.0
Outdoor Workers	75.3
Climate Change Adaptive Capacity	—
Impervious Surface Cover	11.0
Traffic Density	92.2
Traffic Access	61.6
Other Indices	—
Hardship	56.0
Other Decision Support	—

2016 Voting	18.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	92.0
Healthy Places Index Score for Project Location (b)	51.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	Wilmington Long Beach Carson

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Adjusted default construction phases and durations based on Project description.
Construction: Off-Road Equipment	Revised default equipment assumptions based on Project Description
Construction: Trips and VMT	Conservatively rounded default trips up to nearest even number. Added vendor trips to account for water and delivery trucks. 0.25 miles for on-site travel of trucks for construction HRA.
Construction: Dust From Material Movement	Excavation quantities provided by applicant.
Operations: Solid Waste	No increase in solid waste compared to existing conditions.
Operations: Refrigerants	No increase in refrigerants compared to existing conditions.

Operations: Water and Waste Water	No increase in outdoor water use compared to existing conditions.
Operations: Off-Road Equipment	Larger electric pump to pump treated stormwater into the proposed bioswale (HP from project design plans). Smaller booster pump to assist the existing irrigation system (default HP).

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 13.0.0
** Lakes Environmental Software Inc.
** Date: 6/25/2025
** File: C:\Users\anoll\OneDrive - Dudek\Desktop\HARP2\Carson Calas Park Stormwater
Capture\Carson Calas Park Stormwater Capture.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\anoll\OneDrive - Dudek\Desktop\HARP2\Carson Calas Park Stor
   MODELOPT DFAULT CONC
   AVERTIME 1 PERIOD
   URBANOPT 9663345
   POLLUTID PM_10
   RUNORNOT RUN
   ERRORFIL "Carson Calas Park Stormwater Capture.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ------------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC Offroad Equipment and Truck Exhaust
** PREFIX
** Length of Side = 10.00
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 10.00
** SZINIT = 4.65
** Nodes = 24
** 383465.783, 3743795.557, 6.95, 5.00, 4.65
** 383465.783, 3743785.184, 6.96, 5.00, 4.65
```

```
** 383820.230, 3743777.183, 6.48, 5.00, 4.65
** 383819.637, 3743737.470, 7.49, 5.00, 4.65
** 383808.968, 3743730.358, 7.47, 5.00, 4.65
** 383769.848, 3743724.134, 6.96, 5.00, 4.65
** 383769.848, 3743687.386, 6.88, 5.00, 4.65
** 383634.115, 3743687.386, 7.29, 5.00, 4.65
** 383636.783, 3743766.810, 7.07, 5.00, 4.65
** 383803.041, 3743762.661, 6.48, 5.00, 4.65
** 383803.041, 3743743.694, 6.62, 5.00, 4.65
** 383754.734, 3743735.989, 6.70, 5.00, 4.65
** 383755.327, 3743701.611, 6.85, 5.00, 4.65
** 383648.933, 3743701.314, 7.28, 5.00, 4.65
** 383649.526, 3743752.288, 7.30, 5.00, 4.65
** 383671.457, 3743751.696, 7.05, 5.00, 4.65
** 383668.493, 3743715.836, 7.08, 5.00, 4.65
** 383691.017, 3743716.132, 6.91, 5.00, 4.65
** 383691.609, 3743751.103, 6.83, 5.00, 4.65
** 383711.169, 3743750.214, 6.68, 5.00, 4.65
** 383711.465, 3743715.540, 6.86, 5.00, 4.65
** 383734.285, 3743715.540, 6.80, 5.00, 4.65
** 383732.803, 3743752.288, 6.52, 5.00, 4.65
** 383778.146, 3743752.881, 6.53, 5.00, 4.65
** ------------------------------------------------------------------
   LOCATION L0000001     VOLUME   383465.783 3743790.557 6.96
   LOCATION L0000002     VOLUME   383470.409 3743785.080 6.98
   LOCATION L0000003     VOLUME   383480.406 3743784.854 7.00
   LOCATION L0000004     VOLUME   383490.404 3743784.629 7.03
   LOCATION L0000005     VOLUME   383500.401 3743784.403 7.04
   LOCATION L0000006     VOLUME   383510.399 3743784.177 7.05
   LOCATION L0000007     VOLUME   383520.396 3743783.951 7.07
   LOCATION L0000008     VOLUME   383530.394 3743783.726 7.09
   LOCATION L0000009     VOLUME   383540.391 3743783.500 7.12
   LOCATION L0000010     VOLUME   383550.389 3743783.274 7.13
   LOCATION L0000011     VOLUME   383560.386 3743783.049 7.12
   LOCATION L0000012     VOLUME   383570.384 3743782.823 7.11
   LOCATION L0000013     VOLUME   383580.381 3743782.597 7.10
   LOCATION L0000014     VOLUME   383590.378 3743782.372 7.10
   LOCATION L0000015     VOLUME   383600.376 3743782.146 7.08
   LOCATION L0000016     VOLUME   383610.373 3743781.920 7.04
   LOCATION L0000017     VOLUME   383620.371 3743781.695 7.00
   LOCATION L0000018     VOLUME   383630.368 3743781.469 6.97
   LOCATION L0000019     VOLUME   383640.366 3743781.243 6.93
   LOCATION L0000020     VOLUME   383650.363 3743781.017 6.89
   LOCATION L0000021     VOLUME   383660.361 3743780.792 6.82
   LOCATION L0000022     VOLUME   383670.358 3743780.566 6.76
   LOCATION L0000023     VOLUME   383680.355 3743780.340 6.66
   LOCATION L0000024     VOLUME   383690.353 3743780.115 6.54
   LOCATION L0000025     VOLUME   383700.350 3743779.889 6.41
   LOCATION L0000026     VOLUME   383710.348 3743779.663 6.28
   LOCATION L0000027     VOLUME   383720.345 3743779.438 6.15
```

LOCATION L0000028 VOLUME 383730.343 3743779.212 6.04
LOCATION L0000029 VOLUME 383740.340 3743778.986 5.96
LOCATION L0000030 VOLUME 383750.338 3743778.760 5.89
LOCATION L0000031 VOLUME 383760.335 3743778.535 5.90
LOCATION L0000032 VOLUME 383770.333 3743778.309 5.91
LOCATION L0000033 VOLUME 383780.330 3743778.083 5.94
LOCATION L0000034 VOLUME 383790.327 3743777.858 6.01
LOCATION L0000035 VOLUME 383800.325 3743777.632 6.07
LOCATION L0000036 VOLUME 383810.322 3743777.406 6.26
LOCATION L0000037 VOLUME 383820.228 3743777.092 6.47
LOCATION L0000038 VOLUME 383820.079 3743767.093 6.60
LOCATION L0000039 VOLUME 383819.930 3743757.095 6.74
LOCATION L0000040 VOLUME 383819.781 3743747.096 6.92
LOCATION L0000041 VOLUME 383819.326 3743737.263 7.13
LOCATION L0000042 VOLUME 383811.005 3743731.716 7.22
LOCATION L0000043 VOLUME 383801.511 3743729.171 7.27
LOCATION L0000044 VOLUME 383791.635 3743727.600 7.17
LOCATION L0000045 VOLUME 383781.759 3743726.029 7.04
LOCATION L0000046 VOLUME 383771.883 3743724.458 6.90
LOCATION L0000047 VOLUME 383769.848 3743716.195 6.90
LOCATION L0000048 VOLUME 383769.848 3743706.195 6.91
LOCATION L0000049 VOLUME 383769.848 3743696.195 6.92
LOCATION L0000050 VOLUME 383768.657 3743687.386 6.85
LOCATION L0000051 VOLUME 383758.657 3743687.386 6.78
LOCATION L0000052 VOLUME 383748.657 3743687.386 6.72
LOCATION L0000053 VOLUME 383738.657 3743687.386 6.71
LOCATION L0000054 VOLUME 383728.657 3743687.386 6.71
LOCATION L0000055 VOLUME 383718.657 3743687.386 6.71
LOCATION L0000056 VOLUME 383708.657 3743687.386 6.72
LOCATION L0000057 VOLUME 383698.657 3743687.386 6.73
LOCATION L0000058 VOLUME 383688.657 3743687.386 6.78
LOCATION L0000059 VOLUME 383678.657 3743687.386 6.85
LOCATION L0000060 VOLUME 383668.657 3743687.386 6.95
LOCATION L0000061 VOLUME 383658.657 3743687.386 7.13
LOCATION L0000062 VOLUME 383648.657 3743687.386 7.31
LOCATION L0000063 VOLUME 383638.657 3743687.386 7.37
LOCATION L0000064 VOLUME 383634.299 3743692.840 7.37
LOCATION L0000065 VOLUME 383634.634 3743702.835 7.37
LOCATION L0000066 VOLUME 383634.970 3743712.829 7.37
LOCATION L0000067 VOLUME 383635.305 3743722.823 7.38
LOCATION L0000068 VOLUME 383635.641 3743732.818 7.37
LOCATION L0000069 VOLUME 383635.977 3743742.812 7.35
LOCATION L0000070 VOLUME 383636.312 3743752.807 7.34
LOCATION L0000071 VOLUME 383636.648 3743762.801 7.23
LOCATION L0000072 VOLUME 383642.769 3743766.661 7.15
LOCATION L0000073 VOLUME 383652.766 3743766.411 7.09
LOCATION L0000074 VOLUME 383662.763 3743766.162 7.01
LOCATION L0000075 VOLUME 383672.760 3743765.912 6.93
LOCATION L0000076 VOLUME 383682.757 3743765.663 6.83
LOCATION L0000077 VOLUME 383692.754 3743765.413 6.72

LOCATION L0000078 VOLUME 383702.751 3743765.164 6.61
LOCATION L0000079 VOLUME 383712.748 3743764.914 6.48
LOCATION L0000080 VOLUME 383722.744 3743764.665 6.35
LOCATION L0000081 VOLUME 383732.741 3743764.415 6.30
LOCATION L0000082 VOLUME 383742.738 3743764.166 6.26
LOCATION L0000083 VOLUME 383752.735 3743763.916 6.24
LOCATION L0000084 VOLUME 383762.732 3743763.667 6.27
LOCATION L0000085 VOLUME 383772.729 3743763.417 6.29
LOCATION L0000086 VOLUME 383782.726 3743763.168 6.29
LOCATION L0000087 VOLUME 383792.723 3743762.918 6.28
LOCATION L0000088 VOLUME 383802.720 3743762.669 6.28
LOCATION L0000089 VOLUME 383803.041 3743752.982 6.43
LOCATION L0000090 VOLUME 383802.338 3743743.582 6.76
LOCATION L0000091 VOLUME 383792.463 3743742.007 6.77
LOCATION L0000092 VOLUME 383782.587 3743740.431 6.77
LOCATION L0000093 VOLUME 383772.712 3743738.856 6.73
LOCATION L0000094 VOLUME 383762.837 3743737.281 6.65
LOCATION L0000095 VOLUME 383754.765 3743734.194 6.59
LOCATION L0000096 VOLUME 383754.937 3743724.196 6.65
LOCATION L0000097 VOLUME 383755.110 3743714.197 6.73
LOCATION L0000098 VOLUME 383755.282 3743704.199 6.81
LOCATION L0000099 VOLUME 383747.915 3743701.590 6.81
LOCATION L0000100 VOLUME 383737.915 3743701.562 6.85
LOCATION L0000101 VOLUME 383727.915 3743701.534 6.89
LOCATION L0000102 VOLUME 383717.915 3743701.507 6.90
LOCATION L0000103 VOLUME 383707.915 3743701.479 6.89
LOCATION L0000104 VOLUME 383697.915 3743701.451 6.88
LOCATION L0000105 VOLUME 383687.915 3743701.423 6.94
LOCATION L0000106 VOLUME 383677.916 3743701.395 7.00
LOCATION L0000107 VOLUME 383667.916 3743701.367 7.07
LOCATION L0000108 VOLUME 383657.916 3743701.339 7.17
LOCATION L0000109 VOLUME 383648.945 3743702.332 7.26
LOCATION L0000110 VOLUME 383649.061 3743712.331 7.27
LOCATION L0000111 VOLUME 383649.178 3743722.331 7.27
LOCATION L0000112 VOLUME 383649.294 3743732.330 7.27
LOCATION L0000113 VOLUME 383649.410 3743742.329 7.28
LOCATION L0000114 VOLUME 383649.566 3743752.287 7.28
LOCATION L0000115 VOLUME 383659.563 3743752.017 7.19
LOCATION L0000116 VOLUME 383669.559 3743751.747 7.09
LOCATION L0000117 VOLUME 383670.789 3743743.622 7.08
LOCATION L0000118 VOLUME 383669.966 3743733.655 7.10
LOCATION L0000119 VOLUME 383669.142 3743723.689 7.11
LOCATION L0000120 VOLUME 383670.613 3743715.864 7.08
LOCATION L0000121 VOLUME 383680.612 3743715.996 7.00
LOCATION L0000122 VOLUME 383690.611 3743716.127 6.93
LOCATION L0000123 VOLUME 383691.179 3743725.726 6.92
LOCATION L0000124 VOLUME 383691.349 3743735.724 6.91
LOCATION L0000125 VOLUME 383691.518 3743745.723 6.89
LOCATION L0000126 VOLUME 383696.223 3743750.893 6.84
LOCATION L0000127 VOLUME 383706.213 3743750.439 6.74

```
   LOCATION L0000128     VOLUME   383711.212 3743745.175 6.72
   LOCATION L0000129     VOLUME   383711.298 3743735.175 6.79
   LOCATION L0000130     VOLUME   383711.383 3743725.176 6.86
   LOCATION L0000131     VOLUME   383711.829 3743715.540 6.88
   LOCATION L0000132     VOLUME   383721.829 3743715.540 6.89
   LOCATION L0000133     VOLUME   383731.829 3743715.540 6.83
   LOCATION L0000134     VOLUME   383733.981 3743723.077 6.78
   LOCATION L0000135     VOLUME   383733.578 3743733.069 6.69
   LOCATION L0000136     VOLUME   383733.175 3743743.061 6.59
   LOCATION L0000137     VOLUME   383733.569 3743752.298 6.50
   LOCATION L0000138     VOLUME   383743.568 3743752.429 6.48
   LOCATION L0000139     VOLUME   383753.567 3743752.560 6.47
   LOCATION L0000140     VOLUME   383763.566 3743752.691 6.51
   LOCATION L0000141     VOLUME   383773.565 3743752.821 6.55
** End of LINE VOLUME Source ID = SLINE1
** Source Parameters **
** LINE VOLUME Source ID = SLINE1
   SRCPARAM L0000001     0.0070921986      5.00      4.65      4.65
   SRCPARAM L0000002     0.0070921986      5.00      4.65      4.65
   SRCPARAM L0000003     0.0070921986      5.00      4.65      4.65
   SRCPARAM L0000004     0.0070921986      5.00      4.65      4.65
   SRCPARAM L0000005     0.0070921986      5.00      4.65      4.65
   SRCPARAM L0000006     0.0070921986      5.00      4.65      4.65
   SRCPARAM L0000007     0.0070921986      5.00      4.65      4.65
   SRCPARAM L0000008     0.0070921986      5.00      4.65      4.65
   SRCPARAM L0000009     0.0070921986      5.00      4.65      4.65
   SRCPARAM L0000010     0.0070921986      5.00      4.65      4.65
   SRCPARAM L0000011     0.0070921986      5.00      4.65      4.65
   SRCPARAM L0000012     0.0070921986      5.00      4.65      4.65
   SRCPARAM L0000013     0.0070921986      5.00      4.65      4.65
   SRCPARAM L0000014     0.0070921986      5.00      4.65      4.65
   SRCPARAM L0000015     0.0070921986      5.00      4.65      4.65
   SRCPARAM L0000016     0.0070921986      5.00      4.65      4.65
   SRCPARAM L0000017     0.0070921986      5.00      4.65      4.65
   SRCPARAM L0000018     0.0070921986      5.00      4.65      4.65
   SRCPARAM L0000019     0.0070921986      5.00      4.65      4.65
   SRCPARAM L0000020     0.0070921986      5.00      4.65      4.65
   SRCPARAM L0000021     0.0070921986      5.00      4.65      4.65
   SRCPARAM L0000022     0.0070921986      5.00      4.65      4.65
   SRCPARAM L0000023     0.0070921986      5.00      4.65      4.65
   SRCPARAM L0000024     0.0070921986      5.00      4.65      4.65
   SRCPARAM L0000025     0.0070921986      5.00      4.65      4.65
   SRCPARAM L0000026     0.0070921986      5.00      4.65      4.65
   SRCPARAM L0000027     0.0070921986      5.00      4.65      4.65
   SRCPARAM L0000028     0.0070921986      5.00      4.65      4.65
   SRCPARAM L0000029     0.0070921986      5.00      4.65      4.65
   SRCPARAM L0000030     0.0070921986      5.00      4.65      4.65
   SRCPARAM L0000031     0.0070921986      5.00      4.65      4.65
   SRCPARAM L0000032     0.0070921986      5.00      4.65      4.65
   SRCPARAM L0000033     0.0070921986      5.00      4.65      4.65
```

```
SRCPARAM L0000034     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000035     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000036     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000037     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000038     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000039     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000040     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000041     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000042     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000043     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000044     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000045     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000046     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000047     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000048     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000049     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000050     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000051     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000052     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000053     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000054     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000055     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000056     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000057     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000058     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000059     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000060     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000061     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000062     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000063     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000064     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000065     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000066     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000067     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000068     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000069     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000070     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000071     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000072     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000073     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000074     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000075     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000076     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000077     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000078     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000079     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000080     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000081     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000082     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000083     0.0070921986      5.00      4.65      4.65
```

```
SRCPARAM L0000084     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000085     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000086     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000087     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000088     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000089     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000090     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000091     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000092     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000093     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000094     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000095     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000096     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000097     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000098     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000099     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000100     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000101     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000102     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000103     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000104     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000105     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000106     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000107     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000108     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000109     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000110     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000111     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000112     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000113     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000114     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000115     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000116     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000117     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000118     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000119     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000120     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000121     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000122     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000123     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000124     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000125     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000126     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000127     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000128     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000129     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000130     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000131     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000132     0.0070921986      5.00      4.65      4.65
SRCPARAM L0000133     0.0070921986      5.00      4.65      4.65
```

```
   SRCPARAM L0000134     0.0070921986      5.00      4.65      4.65
   SRCPARAM L0000135     0.0070921986      5.00      4.65      4.65
   SRCPARAM L0000136     0.0070921986      5.00      4.65      4.65
   SRCPARAM L0000137     0.0070921986      5.00      4.65      4.65
   SRCPARAM L0000138     0.0070921986      5.00      4.65      4.65
   SRCPARAM L0000139     0.0070921986      5.00      4.65      4.65
   SRCPARAM L0000140     0.0070921986      5.00      4.65      4.65
   SRCPARAM L0000141     0.0070921986      5.00      4.65      4.65
** ----------------------------------------------------------------------
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "Carson Calas Park Stormwater Capture.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE klgb_sfc_pfl\KLGB_V11_trimmed.sfc
   PROFFILE klgb_sfc_pfl\KLGB_V11_trimmed.PFL
   SURFDATA 23129 2015 Long_Beach/Daughtery_Field/Airport
   UAIRDATA 3190 2015
   PROFBASE 9.65 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "Carson Calas Park Stormwater Capture.AD\01H1GALL.PLT" 31
   PLOTFILE PERIOD ALL "Carson Calas Park Stormwater Capture.AD\PE00GALL.PLT" 32
   SUMMFILE "Carson Calas Park Stormwater Capture.sum"
OU FINISHED
```

```
  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186     382       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
     0.50
 ME W187     382       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


 ***********************************
 *** SETUP Finishes Successfully ***
 ***********************************


 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        15:40:32

                                  PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                            ***     MODEL SETUP OPTIONS SUMMARY
 ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - -

 ** Model Options Selected:
      * Model Uses Regulatory DEFAULT Options
      * Model Is Setup For Calculation of Average CONCentration Values.
      * NO GAS DEPOSITION Data Provided.
      * NO PARTICLE DEPOSITION Data Provided.
      * Model Uses NO DRY DEPLETION. DDPLETE  =  F
      * Model Uses NO WET DEPLETION. WETDPLT  =  F
      * Stack-tip Downwash.
      * Model Accounts for ELEVated Terrain Effects.
      * Use Calms Processing Routine.
      * Use Missing Data Processing Routine.
      * No Exponential Decay.
      * Model Uses URBAN Dispersion Algorithm for the SBL for   141 Source(s),
```

```
        for Total of    1 Urban Area(s):
   Urban Population =   9663345.0 ;  Urban Roughness Length =  1.000 m
      * Urban Roughness Length of 1.0 Meter Used.
      * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
      * CCVR_Sub - Meteorological data includes CCVR substitutions
      * TEMP_Sub - Meteorological data includes TEMP substitutions
      * Model Assumes No FLAGPOLE Receptor Heights.
      * The User Specified a Pollutant Type of: PM_10

 **Model Calculates  1 Short Term Average(s) of:   1-HR
     and Calculates PERIOD Averages

 **This Run Includes:    141 Source(s);       1 Source Group(s); and    2229
Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:    141 VOLUME source(s)
                 and:      0 AREA type source(s)
                 and:      0 LINE source(s)
                 and:      0 RLINE/RLINEXT source(s)
                 and:      0 OPENPIT source(s)
                 and:      0 BUOYANT LINE source(s) with a total of     0 line(s)
                 and:      0 SWPOINT source(s)


 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  22112

 **Output Options Selected:
          Model Outputs Tables of PERIOD Averages by Receptor
          Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE
Keyword)
          Model Outputs External File(s) of High Values for Plotting (PLOTFILE
Keyword)
          Model Outputs Separate Summary File of High Ranked Values (SUMMFILE
Keyword)

 **NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                 m for Missing Hours
                                                                 b for Both Calm and
Missing Hours

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =     9.65 ;  Decay
Coef. =    0.000     ;  Rot. Angle =     0.0
                  Emission Units = GRAMS/SEC                                ;
Emission Rate Unit Factor =   0.10000E+07
                  Output Units   = MICROGRAMS/M**3
```

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	AIRCRAFT EMISSION RATE SCALAR VARY BY
L0000001	0	0.70922E-02	383465.8	3743790.6	7.0	5.00	4.65	4.65	YES	NO
L0000002	0	0.70922E-02	383470.4	3743785.1	7.0	5.00	4.65	4.65	YES	NO
L0000003	0	0.70922E-02	383480.4	3743784.9	7.0	5.00	4.65	4.65	YES	NO
L0000004	0	0.70922E-02	383490.4	3743784.6	7.0	5.00	4.65	4.65	YES	NO
L0000005	0	0.70922E-02	383500.4	3743784.4	7.0	5.00	4.65	4.65	YES	NO
L0000006	0	0.70922E-02	383510.4	3743784.2	7.0	5.00	4.65	4.65	YES	NO
L0000007	0	0.70922E-02	383520.4	3743784.0	7.1	5.00	4.65	4.65	YES	NO
L0000008	0	0.70922E-02	383530.4	3743783.7	7.1	5.00	4.65	4.65	YES	NO
L0000009	0	0.70922E-02	383540.4	3743783.5	7.1	5.00	4.65	4.65	YES	NO

L0000010	0	0.70922E-02	383550.4	3743783.3	7.1	5.00	4.65	
4.65	YES	NO						
L0000011	0	0.70922E-02	383560.4	3743783.0	7.1	5.00	4.65	
4.65	YES	NO						
L0000012	0	0.70922E-02	383570.4	3743782.8	7.1	5.00	4.65	
4.65	YES	NO						
L0000013	0	0.70922E-02	383580.4	3743782.6	7.1	5.00	4.65	
4.65	YES	NO						
L0000014	0	0.70922E-02	383590.4	3743782.4	7.1	5.00	4.65	
4.65	YES	NO						
L0000015	0	0.70922E-02	383600.4	3743782.1	7.1	5.00	4.65	
4.65	YES	NO						
L0000016	0	0.70922E-02	383610.4	3743781.9	7.0	5.00	4.65	
4.65	YES	NO						
L0000017	0	0.70922E-02	383620.4	3743781.7	7.0	5.00	4.65	
4.65	YES	NO						
L0000018	0	0.70922E-02	383630.4	3743781.5	7.0	5.00	4.65	
4.65	YES	NO						
L0000019	0	0.70922E-02	383640.4	3743781.2	6.9	5.00	4.65	
4.65	YES	NO						
L0000020	0	0.70922E-02	383650.4	3743781.0	6.9	5.00	4.65	
4.65	YES	NO						
L0000021	0	0.70922E-02	383660.4	3743780.8	6.8	5.00	4.65	
4.65	YES	NO						
L0000022	0	0.70922E-02	383670.4	3743780.6	6.8	5.00	4.65	
4.65	YES	NO						
L0000023	0	0.70922E-02	383680.4	3743780.3	6.7	5.00	4.65	
4.65	YES	NO						
L0000024	0	0.70922E-02	383690.4	3743780.1	6.5	5.00	4.65	
4.65	YES	NO						
L0000025	0	0.70922E-02	383700.3	3743779.9	6.4	5.00	4.65	
4.65	YES	NO						
L0000026	0	0.70922E-02	383710.3	3743779.7	6.3	5.00	4.65	
4.65	YES	NO						
L0000027	0	0.70922E-02	383720.3	3743779.4	6.1	5.00	4.65	
4.65	YES	NO						
L0000028	0	0.70922E-02	383730.3	3743779.2	6.0	5.00	4.65	
4.65	YES	NO						
L0000029	0	0.70922E-02	383740.3	3743779.0	6.0	5.00	4.65	
4.65	YES	NO						
L0000030	0	0.70922E-02	383750.3	3743778.8	5.9	5.00	4.65	
4.65	YES	NO						
L0000031	0	0.70922E-02	383760.3	3743778.5	5.9	5.00	4.65	
4.65	YES	NO						
L0000032	0	0.70922E-02	383770.3	3743778.3	5.9	5.00	4.65	
4.65	YES	NO						
L0000033	0	0.70922E-02	383780.3	3743778.1	5.9	5.00	4.65	
4.65	YES	NO						
L0000034	0	0.70922E-02	383790.3	3743777.9	6.0	5.00	4.65	
4.65	YES	NO						

```
 L0000035         0   0.70922E-02  383800.3 3743777.6     6.1     5.00     4.65
4.65     YES                    NO
 L0000036         0   0.70922E-02  383810.3 3743777.4     6.3     5.00     4.65
4.65     YES                    NO
 L0000037         0   0.70922E-02  383820.2 3743777.1     6.5     5.00     4.65
4.65     YES                    NO
 L0000038         0   0.70922E-02  383820.1 3743767.1     6.6     5.00     4.65
4.65     YES                    NO
 L0000039         0   0.70922E-02  383819.9 3743757.1     6.7     5.00     4.65
4.65     YES                    NO
 L0000040         0   0.70922E-02  383819.8 3743747.1     6.9     5.00     4.65
4.65     YES                    NO

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        15:40:32

                                  PAGE   3
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0000041         0   0.70922E-02  383819.3 3743737.3     7.1     5.00     4.65
4.65     YES                    NO
 L0000042         0   0.70922E-02  383811.0 3743731.7     7.2     5.00     4.65
4.65     YES                    NO
 L0000043         0   0.70922E-02  383801.5 3743729.2     7.3     5.00     4.65
4.65     YES                    NO
 L0000044         0   0.70922E-02  383791.6 3743727.6     7.2     5.00     4.65
4.65     YES                    NO
 L0000045         0   0.70922E-02  383781.8 3743726.0     7.0     5.00     4.65
4.65     YES                    NO
 L0000046         0   0.70922E-02  383771.9 3743724.5     6.9     5.00     4.65
4.65     YES                    NO
 L0000047         0   0.70922E-02  383769.8 3743716.2     6.9     5.00     4.65
4.65     YES                    NO
 L0000048         0   0.70922E-02  383769.8 3743706.2     6.9     5.00     4.65
4.65     YES                    NO
 L0000049         0   0.70922E-02  383769.8 3743696.2     6.9     5.00     4.65
```

```
4.65     YES                    NO
 L0000050         0   0.70922E-02  383768.7 3743687.4     6.8     5.00     4.65
4.65     YES                    NO
 L0000051         0   0.70922E-02  383758.7 3743687.4     6.8     5.00     4.65
4.65     YES                    NO
 L0000052         0   0.70922E-02  383748.7 3743687.4     6.7     5.00     4.65
4.65     YES                    NO
 L0000053         0   0.70922E-02  383738.7 3743687.4     6.7     5.00     4.65
4.65     YES                    NO
 L0000054         0   0.70922E-02  383728.7 3743687.4     6.7     5.00     4.65
4.65     YES                    NO
 L0000055         0   0.70922E-02  383718.7 3743687.4     6.7     5.00     4.65
4.65     YES                    NO
 L0000056         0   0.70922E-02  383708.7 3743687.4     6.7     5.00     4.65
4.65     YES                    NO
 L0000057         0   0.70922E-02  383698.7 3743687.4     6.7     5.00     4.65
4.65     YES                    NO
 L0000058         0   0.70922E-02  383688.7 3743687.4     6.8     5.00     4.65
4.65     YES                    NO
 L0000059         0   0.70922E-02  383678.7 3743687.4     6.8     5.00     4.65
4.65     YES                    NO
 L0000060         0   0.70922E-02  383668.7 3743687.4     7.0     5.00     4.65
4.65     YES                    NO
 L0000061         0   0.70922E-02  383658.7 3743687.4     7.1     5.00     4.65
4.65     YES                    NO
 L0000062         0   0.70922E-02  383648.7 3743687.4     7.3     5.00     4.65
4.65     YES                    NO
 L0000063         0   0.70922E-02  383638.7 3743687.4     7.4     5.00     4.65
4.65     YES                    NO
 L0000064         0   0.70922E-02  383634.3 3743692.8     7.4     5.00     4.65
4.65     YES                    NO
 L0000065         0   0.70922E-02  383634.6 3743702.8     7.4     5.00     4.65
4.65     YES                    NO
 L0000066         0   0.70922E-02  383635.0 3743712.8     7.4     5.00     4.65
4.65     YES                    NO
 L0000067         0   0.70922E-02  383635.3 3743722.8     7.4     5.00     4.65
4.65     YES                    NO
 L0000068         0   0.70922E-02  383635.6 3743732.8     7.4     5.00     4.65
4.65     YES                    NO
 L0000069         0   0.70922E-02  383636.0 3743742.8     7.3     5.00     4.65
4.65     YES                    NO
 L0000070         0   0.70922E-02  383636.3 3743752.8     7.3     5.00     4.65
4.65     YES                    NO
 L0000071         0   0.70922E-02  383636.6 3743762.8     7.2     5.00     4.65
4.65     YES                    NO
 L0000072         0   0.70922E-02  383642.8 3743766.7     7.1     5.00     4.65
4.65     YES                    NO
 L0000073         0   0.70922E-02  383652.8 3743766.4     7.1     5.00     4.65
4.65     YES                    NO
 L0000074         0   0.70922E-02  383662.8 3743766.2     7.0     5.00     4.65
```

4.65 YES NO
L0000075 0 0.70922E-02 383672.8 3743765.9 6.9 5.00 4.65
4.65 YES NO
L0000076 0 0.70922E-02 383682.8 3743765.7 6.8 5.00 4.65
4.65 YES NO
L0000077 0 0.70922E-02 383692.8 3743765.4 6.7 5.00 4.65
4.65 YES NO
L0000078 0 0.70922E-02 383702.8 3743765.2 6.6 5.00 4.65
4.65 YES NO
L0000079 0 0.70922E-02 383712.7 3743764.9 6.5 5.00 4.65
4.65 YES NO
L0000080 0 0.70922E-02 383722.7 3743764.7 6.3 5.00 4.65
4.65 YES NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY	AIRCRAFT
L0000081	0	0.70922E-02	383732.7	3743764.4	6.3	5.00	4.65	4.65	YES	NO	
L0000082	0	0.70922E-02	383742.7	3743764.2	6.3	5.00	4.65	4.65	YES	NO	
L0000083	0	0.70922E-02	383752.7	3743763.9	6.2	5.00	4.65	4.65	YES	NO	
L0000084	0	0.70922E-02	383762.7	3743763.7	6.3	5.00	4.65	4.65	YES	NO	
L0000085	0	0.70922E-02	383772.7	3743763.4	6.3	5.00	4.65	4.65	YES	NO	
L0000086	0	0.70922E-02	383782.7	3743763.2	6.3	5.00	4.65	4.65	YES	NO	
L0000087	0	0.70922E-02	383792.7	3743762.9	6.3	5.00	4.65	4.65	YES	NO	
L0000088	0	0.70922E-02	383802.7	3743762.7	6.3	5.00	4.65	4.65	YES	NO	

L0000089	0	0.70922E-02	383803.0	3743753.0	6.4	5.00	4.65	
4.65	YES		NO					
L0000090	0	0.70922E-02	383802.3	3743743.6	6.8	5.00	4.65	
4.65	YES		NO					
L0000091	0	0.70922E-02	383792.5	3743742.0	6.8	5.00	4.65	
4.65	YES		NO					
L0000092	0	0.70922E-02	383782.6	3743740.4	6.8	5.00	4.65	
4.65	YES		NO					
L0000093	0	0.70922E-02	383772.7	3743738.9	6.7	5.00	4.65	
4.65	YES		NO					
L0000094	0	0.70922E-02	383762.8	3743737.3	6.6	5.00	4.65	
4.65	YES		NO					
L0000095	0	0.70922E-02	383754.8	3743734.2	6.6	5.00	4.65	
4.65	YES		NO					
L0000096	0	0.70922E-02	383754.9	3743724.2	6.6	5.00	4.65	
4.65	YES		NO					
L0000097	0	0.70922E-02	383755.1	3743714.2	6.7	5.00	4.65	
4.65	YES		NO					
L0000098	0	0.70922E-02	383755.3	3743704.2	6.8	5.00	4.65	
4.65	YES		NO					
L0000099	0	0.70922E-02	383747.9	3743701.6	6.8	5.00	4.65	
4.65	YES		NO					
L0000100	0	0.70922E-02	383737.9	3743701.6	6.8	5.00	4.65	
4.65	YES		NO					
L0000101	0	0.70922E-02	383727.9	3743701.5	6.9	5.00	4.65	
4.65	YES		NO					
L0000102	0	0.70922E-02	383717.9	3743701.5	6.9	5.00	4.65	
4.65	YES		NO					
L0000103	0	0.70922E-02	383707.9	3743701.5	6.9	5.00	4.65	
4.65	YES		NO					
L0000104	0	0.70922E-02	383697.9	3743701.5	6.9	5.00	4.65	
4.65	YES		NO					
L0000105	0	0.70922E-02	383687.9	3743701.4	6.9	5.00	4.65	
4.65	YES		NO					
L0000106	0	0.70922E-02	383677.9	3743701.4	7.0	5.00	4.65	
4.65	YES		NO					
L0000107	0	0.70922E-02	383667.9	3743701.4	7.1	5.00	4.65	
4.65	YES		NO					
L0000108	0	0.70922E-02	383657.9	3743701.3	7.2	5.00	4.65	
4.65	YES		NO					
L0000109	0	0.70922E-02	383648.9	3743702.3	7.3	5.00	4.65	
4.65	YES		NO					
L0000110	0	0.70922E-02	383649.1	3743712.3	7.3	5.00	4.65	
4.65	YES		NO					
L0000111	0	0.70922E-02	383649.2	3743722.3	7.3	5.00	4.65	
4.65	YES		NO					
L0000112	0	0.70922E-02	383649.3	3743732.3	7.3	5.00	4.65	
4.65	YES		NO					
L0000113	0	0.70922E-02	383649.4	3743742.3	7.3	5.00	4.65	
4.65	YES		NO					

```
 L0000114         0   0.70922E-02  383649.6 3743752.3     7.3     5.00     4.65
4.65     YES                    NO
 L0000115         0   0.70922E-02  383659.6 3743752.0     7.2     5.00     4.65
4.65     YES                    NO
 L0000116         0   0.70922E-02  383669.6 3743751.7     7.1     5.00     4.65
4.65     YES                    NO
 L0000117         0   0.70922E-02  383670.8 3743743.6     7.1     5.00     4.65
4.65     YES                    NO
 L0000118         0   0.70922E-02  383670.0 3743733.7     7.1     5.00     4.65
4.65     YES                    NO
 L0000119         0   0.70922E-02  383669.1 3743723.7     7.1     5.00     4.65
4.65     YES                    NO
 L0000120         0   0.70922E-02  383670.6 3743715.9     7.1     5.00     4.65
4.65     YES                    NO

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        15:40:32

                                  PAGE   5
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                      *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                     BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0000121         0   0.70922E-02  383680.6 3743716.0     7.0     5.00     4.65
4.65     YES                    NO
 L0000122         0   0.70922E-02  383690.6 3743716.1     6.9     5.00     4.65
4.65     YES                    NO
 L0000123         0   0.70922E-02  383691.2 3743725.7     6.9     5.00     4.65
4.65     YES                    NO
 L0000124         0   0.70922E-02  383691.3 3743735.7     6.9     5.00     4.65
4.65     YES                    NO
 L0000125         0   0.70922E-02  383691.5 3743745.7     6.9     5.00     4.65
4.65     YES                    NO
 L0000126         0   0.70922E-02  383696.2 3743750.9     6.8     5.00     4.65
4.65     YES                    NO
 L0000127         0   0.70922E-02  383706.2 3743750.4     6.7     5.00     4.65
4.65     YES                    NO
 L0000128         0   0.70922E-02  383711.2 3743745.2     6.7     5.00     4.65
```

```
4.65     YES                    NO
 L0000129         0   0.70922E-02  383711.3 3743735.2     6.8     5.00     4.65
4.65     YES                    NO
 L0000130         0   0.70922E-02  383711.4 3743725.2     6.9     5.00     4.65
4.65     YES                    NO
 L0000131         0   0.70922E-02  383711.8 3743715.5     6.9     5.00     4.65
4.65     YES                    NO
 L0000132         0   0.70922E-02  383721.8 3743715.5     6.9     5.00     4.65
4.65     YES                    NO
 L0000133         0   0.70922E-02  383731.8 3743715.5     6.8     5.00     4.65
4.65     YES                    NO
 L0000134         0   0.70922E-02  383734.0 3743723.1     6.8     5.00     4.65
4.65     YES                    NO
 L0000135         0   0.70922E-02  383733.6 3743733.1     6.7     5.00     4.65
4.65     YES                    NO
 L0000136         0   0.70922E-02  383733.2 3743743.1     6.6     5.00     4.65
4.65     YES                    NO
 L0000137         0   0.70922E-02  383733.6 3743752.3     6.5     5.00     4.65
4.65     YES                    NO
 L0000138         0   0.70922E-02  383743.6 3743752.4     6.5     5.00     4.65
4.65     YES                    NO
 L0000139         0   0.70922E-02  383753.6 3743752.6     6.5     5.00     4.65
4.65     YES                    NO
 L0000140         0   0.70922E-02  383763.6 3743752.7     6.5     5.00     4.65
4.65     YES                    NO
 L0000141         0   0.70922E-02  383773.6 3743752.8     6.5     5.00     4.65
4.65     YES                    NO

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        15:40:32

                                  PAGE   6
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                              *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                          SOURCE IDs
 -----------                                          ----------


  ALL        L0000001    , L0000002    , L0000003    , L0000004    , L0000005    ,
L0000006    , L0000007    , L0000008    ,

             L0000009    , L0000010    , L0000011    , L0000012    , L0000013    ,
L0000014    , L0000015    , L0000016    ,

             L0000017    , L0000018    , L0000019    , L0000020    , L0000021    ,
```

```
L0000022    , L0000023    , L0000024    ,

             L0000025    , L0000026    , L0000027    , L0000028    , L0000029    ,
L0000030    , L0000031    , L0000032    ,

             L0000033    , L0000034    , L0000035    , L0000036    , L0000037    ,
L0000038    , L0000039    , L0000040    ,

             L0000041    , L0000042    , L0000043    , L0000044    , L0000045    ,
L0000046    , L0000047    , L0000048    ,

             L0000049    , L0000050    , L0000051    , L0000052    , L0000053    ,
L0000054    , L0000055    , L0000056    ,

             L0000057    , L0000058    , L0000059    , L0000060    , L0000061    ,
L0000062    , L0000063    , L0000064    ,

             L0000065    , L0000066    , L0000067    , L0000068    , L0000069    ,
L0000070    , L0000071    , L0000072    ,

             L0000073    , L0000074    , L0000075    , L0000076    , L0000077    ,
L0000078    , L0000079    , L0000080    ,

             L0000081    , L0000082    , L0000083    , L0000084    , L0000085    ,
L0000086    , L0000087    , L0000088    ,

             L0000089    , L0000090    , L0000091    , L0000092    , L0000093    ,
L0000094    , L0000095    , L0000096    ,

             L0000097    , L0000098    , L0000099    , L0000100    , L0000101    ,
L0000102    , L0000103    , L0000104    ,

             L0000105    , L0000106    , L0000107    , L0000108    , L0000109    ,
L0000110    , L0000111    , L0000112    ,

             L0000113    , L0000114    , L0000115    , L0000116    , L0000117    ,
L0000118    , L0000119    , L0000120    ,

             L0000121    , L0000122    , L0000123    , L0000124    , L0000125    ,
L0000126    , L0000127    , L0000128    ,

             L0000129    , L0000130    , L0000131    , L0000132    , L0000133    ,
L0000134    , L0000135    , L0000136    ,

             L0000137    , L0000138    , L0000139    , L0000140    , L0000141    ,

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        15:40:32
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
	9663345.	L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 ,
		L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 ,
		L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 ,
		L0000025 , L0000026 , L0000027 , L0000028 , L0000029 , L0000030 , L0000031 , L0000032 ,
		L0000033 , L0000034 , L0000035 , L0000036 , L0000037 , L0000038 , L0000039 , L0000040 ,
		L0000041 , L0000042 , L0000043 , L0000044 , L0000045 , L0000046 , L0000047 , L0000048 ,
		L0000049 , L0000050 , L0000051 , L0000052 , L0000053 , L0000054 , L0000055 , L0000056 ,
		L0000057 , L0000058 , L0000059 , L0000060 , L0000061 , L0000062 , L0000063 , L0000064 ,
		L0000065 , L0000066 , L0000067 , L0000068 , L0000069 , L0000070 , L0000071 , L0000072 ,
		L0000073 , L0000074 , L0000075 , L0000076 , L0000077 , L0000078 , L0000079 , L0000080 ,
		L0000081 , L0000082 , L0000083 , L0000084 , L0000085 , L0000086 , L0000087 , L0000088 ,
		L0000089 , L0000090 , L0000091 , L0000092 , L0000093 , L0000094 , L0000095 , L0000096 ,
		L0000097 , L0000098 , L0000099 , L0000100 , L0000101 ,

L0000102   , L0000103   , L0000104   ,

             L0000105   , L0000106   , L0000107   , L0000108   , L0000109   ,
L0000110   , L0000111   , L0000112   ,

             L0000113   , L0000114   , L0000115   , L0000116   , L0000117   ,
L0000118   , L0000119   , L0000120   ,

             L0000121   , L0000122   , L0000123   , L0000124   , L0000125   ,
L0000126   , L0000127   , L0000128   ,

             L0000129   , L0000130   , L0000131   , L0000132   , L0000133   ,
L0000134   , L0000135   , L0000136   ,

             L0000137   , L0000138   , L0000139   , L0000140   , L0000141   ,

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                *** DISCRETE CARTESIAN RECEPTORS ***
                                              (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                          (METERS)

     (383453.0, 3743679.0,   7.8,   7.8,   0.0);   (383473.0,
3743679.0,   7.6,   7.6,   0.0);
     (383493.0, 3743679.0,   7.8,   7.8,   0.0);   (383513.0,
3743679.0,   7.8,   7.8,   0.0);
     (383533.0, 3743679.0,   7.8,   7.8,   0.0);   (383553.0,
3743679.0,   7.8,   7.8,   0.0);
     (383573.0, 3743679.0,   7.7,   7.7,   0.0);   (383593.0,
3743679.0,   7.6,   7.6,   0.0);
     (383613.0, 3743679.0,   7.5,   7.5,   0.0);   (383453.0,
3743699.0,   7.7,   7.7,   0.0);
     (383473.0, 3743699.0,   7.5,   7.5,   0.0);   (383493.0,
3743699.0,   7.6,   7.6,   0.0);
     (383513.0, 3743699.0,   7.6,   7.6,   0.0);   (383533.0,
3743699.0,   7.7,   7.7,   0.0);
     (383553.0, 3743699.0,   7.7,   7.7,   0.0);   (383573.0,
3743699.0,   7.6,   7.6,   0.0);
     (383593.0, 3743699.0,   7.6,   7.6,   0.0);   (383613.0,
3743699.0,   7.5,   7.5,   0.0);
     (383453.0, 3743719.0,   7.5,   7.5,   0.0);   (383473.0,
3743719.0,   7.4,   7.4,   0.0);
     (383493.0, 3743719.0,   7.5,   7.5,   0.0);   (383513.0,
3743719.0,   7.5,   7.5,   0.0);

```
     ( 383533.0, 3743719.0,       7.6,       7.6,       0.0);         ( 383553.0,
3743719.0,       7.7,       7.7,       0.0);
     ( 383573.0, 3743719.0,       7.6,       7.6,       0.0);         ( 383593.0,
3743719.0,       7.7,       7.7,       0.0);
     ( 383613.0, 3743719.0,       7.5,       7.5,       0.0);         ( 383453.0,
3743739.0,       7.5,       7.5,       0.0);
     ( 383473.0, 3743739.0,       7.3,       7.3,       0.0);         ( 383493.0,
3743739.0,       7.3,       7.3,       0.0);
     ( 383513.0, 3743739.0,       7.4,       7.4,       0.0);         ( 383533.0,
3743739.0,       7.5,       7.5,       0.0);
     ( 383553.0, 3743739.0,       7.6,       7.6,       0.0);         ( 383573.0,
3743739.0,       7.6,       7.6,       0.0);
     ( 383593.0, 3743739.0,       7.6,       7.6,       0.0);         ( 383613.0,
3743739.0,       7.5,       7.5,       0.0);
     ( 383453.0, 3743759.0,       7.6,       7.6,       0.0);         ( 383473.0,
3743759.0,       7.2,       7.2,       0.0);
     ( 383493.0, 3743759.0,       7.3,       7.3,       0.0);         ( 383513.0,
3743759.0,       7.3,       7.3,       0.0);
     ( 383533.0, 3743759.0,       7.4,       7.4,       0.0);         ( 383553.0,
3743759.0,       7.4,       7.4,       0.0);
     ( 383573.0, 3743759.0,       7.5,       7.5,       0.0);         ( 383593.0,
3743759.0,       7.5,       7.5,       0.0);
     ( 383613.0, 3743759.0,       7.4,       7.4,       0.0);         ( 383793.0,
3743799.0,       5.8,       5.8,       0.0);
     ( 383813.0, 3743799.0,       6.3,       6.3,       0.0);         ( 383833.0,
3743799.0,       6.7,       6.7,       0.0);
     ( 383253.0, 3743479.0,       9.6,       9.6,       0.0);         ( 383273.0,
3743479.0,       9.4,       9.4,       0.0);
     ( 383293.0, 3743479.0,       9.1,       9.1,       0.0);         ( 383313.0,
3743479.0,       8.9,       8.9,       0.0);
     ( 383333.0, 3743479.0,       8.8,       8.8,       0.0);         ( 383353.0,
3743479.0,       8.8,       8.8,       0.0);
     ( 383373.0, 3743479.0,       8.7,       8.7,       0.0);         ( 383393.0,
3743479.0,       8.6,       8.6,       0.0);
     ( 383413.0, 3743479.0,       8.4,       8.4,       0.0);         ( 383433.0,
3743479.0,       8.2,       8.2,       0.0);
     ( 383453.0, 3743479.0,       7.7,       7.7,       0.0);         ( 383473.0,
3743479.0,       7.5,       7.5,       0.0);
     ( 383493.0, 3743479.0,       7.8,       7.8,       0.0);         ( 383513.0,
3743479.0,       7.8,       7.8,       0.0);
     ( 383533.0, 3743479.0,       7.9,       7.9,       0.0);         ( 383553.0,
3743479.0,       7.9,       7.9,       0.0);
     ( 383573.0, 3743479.0,       7.8,       7.8,       0.0);         ( 383593.0,
3743479.0,       7.8,       7.8,       0.0);
     ( 383613.0, 3743479.0,       7.9,       7.9,       0.0);         ( 383693.0,
3743479.0,       7.9,       7.9,       0.0);
     ( 383713.0, 3743479.0,       8.0,       8.0,       0.0);         ( 383733.0,
3743479.0,       8.0,       8.0,       0.0);
     ( 383753.0, 3743479.0,       8.0,       8.0,       0.0);         ( 383773.0,
3743479.0,       8.1,       8.1,       0.0);
```

```
     ( 383793.0, 3743479.0,       8.1,       8.1,       0.0);         ( 383813.0,
3743479.0,       8.0,       8.0,       0.0);
     ( 383833.0, 3743479.0,       8.0,       8.0,       0.0);         ( 383853.0,
3743479.0,       8.0,       8.0,       0.0);
     ( 383873.0, 3743479.0,       8.0,       8.0,       0.0);         ( 383893.0,
3743479.0,       7.8,       7.8,       0.0);
     ( 383913.0, 3743479.0,       7.6,       7.6,       0.0);         ( 383933.0,
3743479.0,       7.4,       7.4,       0.0);
     ( 383953.0, 3743479.0,       7.0,       7.0,       0.0);         ( 383973.0,
3743479.0,       7.0,       7.0,       0.0);
     ( 383993.0, 3743479.0,       7.1,       7.1,       0.0);         ( 384013.0,
3743479.0,       7.3,       7.3,       0.0);
     ( 384033.0, 3743479.0,       7.5,       7.5,       0.0);         ( 383253.0,
3743499.0,       9.4,       9.4,       0.0);
     ( 383273.0, 3743499.0,       9.4,       9.4,       0.0);         ( 383293.0,
3743499.0,       9.1,       9.1,       0.0);
     ( 383313.0, 3743499.0,       8.8,       8.8,       0.0);         ( 383333.0,
3743499.0,       8.8,       8.8,       0.0);

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        15:40:32

                                  PAGE   9
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                       (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                   (METERS)

     ( 383353.0, 3743499.0,       8.8,       8.8,       0.0);         ( 383373.0,
3743499.0,       8.6,       8.6,       0.0);
     ( 383393.0, 3743499.0,       8.3,       8.3,       0.0);         ( 383413.0,
3743499.0,       8.2,       8.2,       0.0);
     ( 383433.0, 3743499.0,       8.1,       8.1,       0.0);         ( 383453.0,
3743499.0,       7.7,       7.7,       0.0);
     ( 383473.0, 3743499.0,       7.5,       7.5,       0.0);         ( 383493.0,
3743499.0,       7.8,       7.8,       0.0);
     ( 383513.0, 3743499.0,       7.5,       7.5,       0.0);         ( 383533.0,
3743499.0,       7.4,       7.4,       0.0);
     ( 383553.0, 3743499.0,       7.4,       7.4,       0.0);         ( 383573.0,
3743499.0,       7.3,       7.3,       0.0);
     ( 383593.0, 3743499.0,       7.3,       7.3,       0.0);         ( 383613.0,
3743499.0,       7.6,       7.6,       0.0);
     ( 383693.0, 3743499.0,       7.8,       7.8,       0.0);         ( 383713.0,
3743499.0,       7.9,       7.9,       0.0);
     ( 383733.0, 3743499.0,       8.0,       8.0,       0.0);         ( 383753.0,
3743499.0,       8.1,       8.1,       0.0);
     ( 383773.0, 3743499.0,       8.0,       8.0,       0.0);         ( 383793.0,
```

```
3743499.0,       8.0,       8.0,       0.0);
     ( 383813.0, 3743499.0,       8.0,       8.0,       0.0);         ( 383833.0,
3743499.0,       8.0,       8.0,       0.0);
     ( 383853.0, 3743499.0,       8.0,       8.0,       0.0);         ( 383873.0,
3743499.0,       7.8,       7.8,       0.0);
     ( 383893.0, 3743499.0,       7.5,       7.5,       0.0);         ( 383913.0,
3743499.0,       7.2,       7.2,       0.0);
     ( 383933.0, 3743499.0,       7.0,       7.0,       0.0);         ( 383953.0,
3743499.0,       6.9,       6.9,       0.0);
     ( 383973.0, 3743499.0,       6.8,       6.8,       0.0);         ( 383993.0,
3743499.0,       6.8,       6.8,       0.0);
     ( 384013.0, 3743499.0,       6.9,       6.9,       0.0);         ( 384033.0,
3743499.0,       7.1,       7.1,       0.0);
     ( 383253.0, 3743519.0,       9.3,       9.3,       0.0);         ( 383273.0,
3743519.0,       9.3,       9.3,       0.0);
     ( 383293.0, 3743519.0,       9.1,       9.1,       0.0);         ( 383313.0,
3743519.0,       8.7,       8.7,       0.0);
     ( 383333.0, 3743519.0,       8.8,       8.8,       0.0);         ( 383353.0,
3743519.0,       8.8,       8.8,       0.0);
     ( 383373.0, 3743519.0,       8.4,       8.4,       0.0);         ( 383393.0,
3743519.0,       8.1,       8.1,       0.0);
     ( 383413.0, 3743519.0,       8.2,       8.2,       0.0);         ( 383433.0,
3743519.0,       8.1,       8.1,       0.0);
     ( 383453.0, 3743519.0,       7.7,       7.7,       0.0);         ( 383473.0,
3743519.0,       7.6,       7.6,       0.0);
     ( 383493.0, 3743519.0,       7.8,       7.8,       0.0);         ( 383513.0,
3743519.0,       7.5,       7.5,       0.0);
     ( 383533.0, 3743519.0,       7.3,       7.3,       0.0);         ( 383553.0,
3743519.0,       7.2,       7.2,       0.0);
     ( 383573.0, 3743519.0,       7.1,       7.1,       0.0);         ( 383593.0,
3743519.0,       7.2,       7.2,       0.0);
     ( 383613.0, 3743519.0,       7.5,       7.5,       0.0);         ( 383693.0,
3743519.0,       7.6,       7.6,       0.0);
     ( 383713.0, 3743519.0,       7.7,       7.7,       0.0);         ( 383733.0,
3743519.0,       7.8,       7.8,       0.0);
     ( 383753.0, 3743519.0,       7.9,       7.9,       0.0);         ( 383773.0,
3743519.0,       7.9,       7.9,       0.0);
     ( 383793.0, 3743519.0,       7.9,       7.9,       0.0);         ( 383813.0,
3743519.0,       7.9,       7.9,       0.0);
     ( 383833.0, 3743519.0,       7.9,       7.9,       0.0);         ( 383853.0,
3743519.0,       7.8,       7.8,       0.0);
     ( 383873.0, 3743519.0,       7.8,       7.8,       0.0);         ( 383893.0,
3743519.0,       7.5,       7.5,       0.0);
     ( 383913.0, 3743519.0,       7.3,       7.3,       0.0);         ( 383933.0,
3743519.0,       7.2,       7.2,       0.0);
     ( 383953.0, 3743519.0,       7.0,       7.0,       0.0);         ( 383973.0,
3743519.0,       7.0,       7.0,       0.0);
     ( 383993.0, 3743519.0,       7.0,       7.0,       0.0);         ( 384013.0,
3743519.0,       7.0,       7.0,       0.0);
     ( 384033.0, 3743519.0,       7.3,       7.3,       0.0);         ( 383253.0,
```

3743539.0,   9.2,   9.2,   0.0);
     (383273.0, 3743539.0,   9.3,   9.3,   0.0);   (383293.0,
3743539.0,   9.1,   9.1,   0.0);
     (383313.0, 3743539.0,   8.6,   8.6,   0.0);   (383333.0,
3743539.0,   9.0,   9.0,   0.0);
     (383353.0, 3743539.0,   8.9,   8.9,   0.0);   (383373.0,
3743539.0,   8.5,   8.5,   0.0);
     (383393.0, 3743539.0,   8.1,   8.1,   0.0);   (383413.0,
3743539.0,   8.6,   8.6,   0.0);
     (383433.0, 3743539.0,   8.2,   8.2,   0.0);   (383453.0,
3743539.0,   7.7,   7.7,   0.0);
     (383473.0, 3743539.0,   7.6,   7.6,   0.0);   (383493.0,
3743539.0,   8.0,   8.0,   0.0);
     (383513.0, 3743539.0,   7.9,   7.9,   0.0);   (383533.0,
3743539.0,   7.8,   7.8,   0.0);
     (383553.0, 3743539.0,   7.6,   7.6,   0.0);   (383573.0,
3743539.0,   7.5,   7.5,   0.0);
     (383593.0, 3743539.0,   7.7,   7.7,   0.0);   (383613.0,
3743539.0,   7.6,   7.6,   0.0);
     (383693.0, 3743539.0,   7.4,   7.4,   0.0);   (383713.0,
3743539.0,   7.3,   7.3,   0.0);

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                       (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                (METERS)

     (383733.0, 3743539.0,   7.4,   7.4,   0.0);   (383753.0,
3743539.0,   7.6,   7.6,   0.0);
     (383773.0, 3743539.0,   7.8,   7.8,   0.0);   (383793.0,
3743539.0,   7.8,   7.8,   0.0);
     (383813.0, 3743539.0,   7.8,   7.8,   0.0);   (383833.0,
3743539.0,   7.7,   7.7,   0.0);
     (383853.0, 3743539.0,   7.6,   7.6,   0.0);   (383873.0,
3743539.0,   7.9,   7.9,   0.0);
     (383893.0, 3743539.0,   7.8,   7.8,   0.0);   (383913.0,
3743539.0,   7.6,   7.6,   0.0);
     (383933.0, 3743539.0,   7.5,   7.5,   0.0);   (383953.0,
3743539.0,   7.3,   7.3,   0.0);
     (383973.0, 3743539.0,   7.2,   7.2,   0.0);   (383993.0,
3743539.0,   7.2,   7.2,   0.0);
     (384013.0, 3743539.0,   7.2,   7.2,   0.0);   (384033.0,
3743539.0,   7.5,   7.5,   0.0);

```
     ( 383253.0, 3743559.0,       9.1,       9.1,       0.0);         ( 383273.0,
3743559.0,       9.2,       9.2,       0.0);
     ( 383293.0, 3743559.0,       9.0,       9.0,       0.0);         ( 383313.0,
3743559.0,       8.6,       8.6,       0.0);
     ( 383333.0, 3743559.0,       9.0,       9.0,       0.0);         ( 383353.0,
3743559.0,       8.9,       8.9,       0.0);
     ( 383373.0, 3743559.0,       8.4,       8.4,       0.0);         ( 383393.0,
3743559.0,       8.1,       8.1,       0.0);
     ( 383413.0, 3743559.0,       8.6,       8.6,       0.0);         ( 383433.0,
3743559.0,       8.2,       8.2,       0.0);
     ( 383453.0, 3743559.0,       7.8,       7.8,       0.0);         ( 383473.0,
3743559.0,       7.7,       7.7,       0.0);
     ( 383493.0, 3743559.0,       7.9,       7.9,       0.0);         ( 383513.0,
3743559.0,       7.6,       7.6,       0.0);
     ( 383533.0, 3743559.0,       7.5,       7.5,       0.0);         ( 383553.0,
3743559.0,       7.4,       7.4,       0.0);
     ( 383573.0, 3743559.0,       7.3,       7.3,       0.0);         ( 383593.0,
3743559.0,       7.4,       7.4,       0.0);
     ( 383613.0, 3743559.0,       7.5,       7.5,       0.0);         ( 383693.0,
3743559.0,       7.3,       7.3,       0.0);
     ( 383713.0, 3743559.0,       7.2,       7.2,       0.0);         ( 383733.0,
3743559.0,       7.3,       7.3,       0.0);
     ( 383753.0, 3743559.0,       7.6,       7.6,       0.0);         ( 383773.0,
3743559.0,       7.8,       7.8,       0.0);
     ( 383793.0, 3743559.0,       7.8,       7.8,       0.0);         ( 383813.0,
3743559.0,       7.8,       7.8,       0.0);
     ( 383833.0, 3743559.0,       7.8,       7.8,       0.0);         ( 383853.0,
3743559.0,       7.8,       7.8,       0.0);
     ( 383873.0, 3743559.0,       7.7,       7.7,       0.0);         ( 383893.0,
3743559.0,       7.6,       7.6,       0.0);
     ( 383913.0, 3743559.0,       7.5,       7.5,       0.0);         ( 383933.0,
3743559.0,       7.3,       7.3,       0.0);
     ( 383953.0, 3743559.0,       7.0,       7.0,       0.0);         ( 383973.0,
3743559.0,       6.6,       6.6,       0.0);
     ( 383993.0, 3743559.0,       6.3,       6.3,       0.0);         ( 384013.0,
3743559.0,       6.4,       6.4,       0.0);
     ( 384033.0, 3743559.0,       6.7,       6.7,       0.0);         ( 383253.0,
3743579.0,       9.0,       9.0,       0.0);
     ( 383273.0, 3743579.0,       9.1,       9.1,       0.0);         ( 383293.0,
3743579.0,       8.9,       8.9,       0.0);
     ( 383313.0, 3743579.0,       8.5,       8.5,       0.0);         ( 383333.0,
3743579.0,       9.0,       9.0,       0.0);
     ( 383353.0, 3743579.0,       8.8,       8.8,       0.0);         ( 383373.0,
3743579.0,       8.4,       8.4,       0.0);
     ( 383393.0, 3743579.0,       8.1,       8.1,       0.0);         ( 383413.0,
3743579.0,       8.6,       8.6,       0.0);
     ( 383433.0, 3743579.0,       8.2,       8.2,       0.0);         ( 383453.0,
3743579.0,       7.8,       7.8,       0.0);
     ( 383473.0, 3743579.0,       7.7,       7.7,       0.0);         ( 383493.0,
3743579.0,       7.8,       7.8,       0.0);
```

```
     ( 383513.0, 3743579.0,       7.4,       7.4,       0.0);         ( 383533.0,
3743579.0,       7.3,       7.3,       0.0);
     ( 383553.0, 3743579.0,       7.2,       7.2,       0.0);         ( 383573.0,
3743579.0,       7.1,       7.1,       0.0);
     ( 383593.0, 3743579.0,       7.1,       7.1,       0.0);         ( 383613.0,
3743579.0,       7.3,       7.3,       0.0);
     ( 383693.0, 3743579.0,       7.2,       7.2,       0.0);         ( 383713.0,
3743579.0,       7.0,       7.0,       0.0);
     ( 383733.0, 3743579.0,       7.0,       7.0,       0.0);         ( 383753.0,
3743579.0,       7.4,       7.4,       0.0);
     ( 383773.0, 3743579.0,       7.7,       7.7,       0.0);         ( 383793.0,
3743579.0,       7.8,       7.8,       0.0);
     ( 383813.0, 3743579.0,       7.8,       7.8,       0.0);         ( 383833.0,
3743579.0,       7.8,       7.8,       0.0);
     ( 383853.0, 3743579.0,       7.8,       7.8,       0.0);         ( 383873.0,
3743579.0,       7.7,       7.7,       0.0);
     ( 383893.0, 3743579.0,       7.6,       7.6,       0.0);         ( 383913.0,
3743579.0,       7.6,       7.6,       0.0);
     ( 383933.0, 3743579.0,       7.4,       7.4,       0.0);         ( 383953.0,
3743579.0,       7.1,       7.1,       0.0);
     ( 383973.0, 3743579.0,       6.6,       6.6,       0.0);         ( 383993.0,
3743579.0,       6.4,       6.4,       0.0);
     ( 384013.0, 3743579.0,       6.4,       6.4,       0.0);         ( 384033.0,
3743579.0,       6.7,       6.7,       0.0);

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***       15:40:32

                                  PAGE  11
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                  (METERS)

     ( 383253.0, 3743599.0,       8.9,       8.9,       0.0);         ( 383273.0,
3743599.0,       9.1,       9.1,       0.0);
     ( 383293.0, 3743599.0,       8.9,       8.9,       0.0);         ( 383313.0,
3743599.0,       8.4,       8.4,       0.0);
     ( 383333.0, 3743599.0,       8.9,       8.9,       0.0);         ( 383353.0,
3743599.0,       8.8,       8.8,       0.0);
     ( 383373.0, 3743599.0,       8.3,       8.3,       0.0);         ( 383393.0,
3743599.0,       8.0,       8.0,       0.0);
     ( 383413.0, 3743599.0,       8.5,       8.5,       0.0);         ( 383433.0,
3743599.0,       8.3,       8.3,       0.0);
     ( 383453.0, 3743599.0,       7.9,       7.9,       0.0);         ( 383473.0,
3743599.0,       7.6,       7.6,       0.0);
     ( 383493.0, 3743599.0,       7.5,       7.5,       0.0);         ( 383513.0,
```

```
3743599.0,       7.3,       7.3,       0.0);
     ( 383533.0, 3743599.0,       7.2,       7.2,       0.0);         ( 383553.0,
3743599.0,       7.1,       7.1,       0.0);
     ( 383573.0, 3743599.0,       7.0,       7.0,       0.0);         ( 383593.0,
3743599.0,       6.9,       6.9,       0.0);
     ( 383613.0, 3743599.0,       7.1,       7.1,       0.0);         ( 383693.0,
3743599.0,       7.0,       7.0,       0.0);
     ( 383713.0, 3743599.0,       6.6,       6.6,       0.0);         ( 383733.0,
3743599.0,       6.5,       6.5,       0.0);
     ( 383753.0, 3743599.0,       6.9,       6.9,       0.0);         ( 383773.0,
3743599.0,       7.6,       7.6,       0.0);
     ( 383793.0, 3743599.0,       7.8,       7.8,       0.0);         ( 383813.0,
3743599.0,       7.8,       7.8,       0.0);
     ( 383833.0, 3743599.0,       7.7,       7.7,       0.0);         ( 383853.0,
3743599.0,       7.7,       7.7,       0.0);
     ( 383873.0, 3743599.0,       7.8,       7.8,       0.0);         ( 383893.0,
3743599.0,       7.8,       7.8,       0.0);
     ( 383913.0, 3743599.0,       7.8,       7.8,       0.0);         ( 383933.0,
3743599.0,       7.8,       7.8,       0.0);
     ( 383953.0, 3743599.0,       7.5,       7.5,       0.0);         ( 383973.0,
3743599.0,       7.2,       7.2,       0.0);
     ( 383993.0, 3743599.0,       7.0,       7.0,       0.0);         ( 384013.0,
3743599.0,       7.0,       7.0,       0.0);
     ( 384033.0, 3743599.0,       7.2,       7.2,       0.0);         ( 383253.0,
3743619.0,       8.9,       8.9,       0.0);
     ( 383273.0, 3743619.0,       9.0,       9.0,       0.0);         ( 383293.0,
3743619.0,       8.8,       8.8,       0.0);
     ( 383313.0, 3743619.0,       8.3,       8.3,       0.0);         ( 383333.0,
3743619.0,       8.8,       8.8,       0.0);
     ( 383353.0, 3743619.0,       8.7,       8.7,       0.0);         ( 383373.0,
3743619.0,       8.3,       8.3,       0.0);
     ( 383393.0, 3743619.0,       8.0,       8.0,       0.0);         ( 383413.0,
3743619.0,       8.5,       8.5,       0.0);
     ( 383433.0, 3743619.0,       8.3,       8.3,       0.0);         ( 383453.0,
3743619.0,       7.9,       7.9,       0.0);
     ( 383473.0, 3743619.0,       7.7,       7.7,       0.0);         ( 383493.0,
3743619.0,       7.8,       7.8,       0.0);
     ( 383513.0, 3743619.0,       7.6,       7.6,       0.0);         ( 383533.0,
3743619.0,       7.5,       7.5,       0.0);
     ( 383553.0, 3743619.0,       7.4,       7.4,       0.0);         ( 383573.0,
3743619.0,       7.3,       7.3,       0.0);
     ( 383593.0, 3743619.0,       7.1,       7.1,       0.0);         ( 383613.0,
3743619.0,       7.1,       7.1,       0.0);
     ( 383693.0, 3743619.0,       6.8,       6.8,       0.0);         ( 383713.0,
3743619.0,       6.6,       6.6,       0.0);
     ( 383733.0, 3743619.0,       6.5,       6.5,       0.0);         ( 383753.0,
3743619.0,       6.8,       6.8,       0.0);
     ( 383773.0, 3743619.0,       7.5,       7.5,       0.0);         ( 383793.0,
3743619.0,       7.8,       7.8,       0.0);
     ( 383813.0, 3743619.0,       7.9,       7.9,       0.0);         ( 383833.0,
```

3743619.0,   7.9,   7.9,   0.0);
     (383853.0, 3743619.0,   7.8,   7.8,   0.0);   (383873.0,
3743619.0,   7.7,   7.7,   0.0);
     (383893.0, 3743619.0,   7.8,   7.8,   0.0);   (383913.0,
3743619.0,   7.9,   7.9,   0.0);
     (383933.0, 3743619.0,   7.9,   7.9,   0.0);   (383953.0,
3743619.0,   7.6,   7.6,   0.0);
     (383973.0, 3743619.0,   7.6,   7.6,   0.0);   (383993.0,
3743619.0,   7.5,   7.5,   0.0);
     (384013.0, 3743619.0,   7.4,   7.4,   0.0);   (384033.0,
3743619.0,   7.3,   7.3,   0.0);
     (383253.0, 3743639.0,   9.0,   9.0,   0.0);   (383273.0,
3743639.0,   9.0,   9.0,   0.0);
     (383293.0, 3743639.0,   8.6,   8.6,   0.0);   (383313.0,
3743639.0,   8.2,   8.2,   0.0);
     (383333.0, 3743639.0,   8.7,   8.7,   0.0);   (383353.0,
3743639.0,   8.6,   8.6,   0.0);
     (383373.0, 3743639.0,   8.2,   8.2,   0.0);   (383393.0,
3743639.0,   7.9,   7.9,   0.0);
     (383413.0, 3743639.0,   8.4,   8.4,   0.0);   (383433.0,
3743639.0,   8.2,   8.2,   0.0);
     (383453.0, 3743639.0,   7.9,   7.9,   0.0);   (383473.0,
3743639.0,   7.8,   7.8,   0.0);
     (383493.0, 3743639.0,   8.1,   8.1,   0.0);   (383513.0,
3743639.0,   7.8,   7.8,   0.0);
     (383533.0, 3743639.0,   7.8,   7.8,   0.0);   (383553.0,
3743639.0,   7.8,   7.8,   0.0);

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                       (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                   (METERS)

     (383573.0, 3743639.0,   7.6,   7.6,   0.0);   (383593.0,
3743639.0,   7.3,   7.3,   0.0);
     (383613.0, 3743639.0,   7.1,   7.1,   0.0);   (383693.0,
3743639.0,   6.6,   6.6,   0.0);
     (383713.0, 3743639.0,   6.5,   6.5,   0.0);   (383733.0,
3743639.0,   6.4,   6.4,   0.0);
     (383753.0, 3743639.0,   6.6,   6.6,   0.0);   (383773.0,
3743639.0,   7.2,   7.2,   0.0);
     (383793.0, 3743639.0,   7.5,   7.5,   0.0);   (383813.0,
3743639.0,   7.8,   7.8,   0.0);

```
     ( 383833.0, 3743639.0,       7.8,       7.8,       0.0);         ( 383853.0,
3743639.0,       7.7,       7.7,       0.0);
     ( 383873.0, 3743639.0,       7.6,       7.6,       0.0);         ( 383893.0,
3743639.0,       7.7,       7.7,       0.0);
     ( 383913.0, 3743639.0,       7.8,       7.8,       0.0);         ( 383933.0,
3743639.0,       7.7,       7.7,       0.0);
     ( 383953.0, 3743639.0,       7.7,       7.7,       0.0);         ( 383973.0,
3743639.0,       7.9,       7.9,       0.0);
     ( 383993.0, 3743639.0,       7.8,       7.8,       0.0);         ( 384013.0,
3743639.0,       7.6,       7.6,       0.0);
     ( 384033.0, 3743639.0,       7.3,       7.3,       0.0);         ( 383253.0,
3743659.0,       9.0,       9.0,       0.0);
     ( 383273.0, 3743659.0,       8.9,       8.9,       0.0);         ( 383293.0,
3743659.0,       8.5,       8.5,       0.0);
     ( 383313.0, 3743659.0,       8.1,       8.1,       0.0);         ( 383333.0,
3743659.0,       8.6,       8.6,       0.0);
     ( 383353.0, 3743659.0,       8.4,       8.4,       0.0);         ( 383373.0,
3743659.0,       8.1,       8.1,       0.0);
     ( 383393.0, 3743659.0,       7.8,       7.8,       0.0);         ( 383413.0,
3743659.0,       8.4,       8.4,       0.0);
     ( 383433.0, 3743659.0,       8.2,       8.2,       0.0);         ( 383453.0,
3743659.0,       7.9,       7.9,       0.0);
     ( 383473.0, 3743659.0,       7.7,       7.7,       0.0);         ( 383493.0,
3743659.0,       8.0,       8.0,       0.0);
     ( 383513.0, 3743659.0,       7.9,       7.9,       0.0);         ( 383533.0,
3743659.0,       7.9,       7.9,       0.0);
     ( 383553.0, 3743659.0,       7.9,       7.9,       0.0);         ( 383573.0,
3743659.0,       7.7,       7.7,       0.0);
     ( 383593.0, 3743659.0,       7.6,       7.6,       0.0);         ( 383613.0,
3743659.0,       7.4,       7.4,       0.0);
     ( 383893.0, 3743659.0,       7.5,       7.5,       0.0);         ( 383913.0,
3743659.0,       7.5,       7.5,       0.0);
     ( 383933.0, 3743659.0,       7.2,       7.2,       0.0);         ( 383953.0,
3743659.0,       7.6,       7.6,       0.0);
     ( 383973.0, 3743659.0,       7.9,       7.9,       0.0);         ( 383993.0,
3743659.0,       7.9,       7.9,       0.0);
     ( 384013.0, 3743659.0,       7.6,       7.6,       0.0);         ( 384033.0,
3743659.0,       7.2,       7.2,       0.0);
     ( 383253.0, 3743679.0,       9.0,       9.0,       0.0);         ( 383273.0,
3743679.0,       8.9,       8.9,       0.0);
     ( 383293.0, 3743679.0,       8.5,       8.5,       0.0);         ( 383313.0,
3743679.0,       8.1,       8.1,       0.0);
     ( 383333.0, 3743679.0,       8.5,       8.5,       0.0);         ( 383353.0,
3743679.0,       8.4,       8.4,       0.0);
     ( 383373.0, 3743679.0,       8.0,       8.0,       0.0);         ( 383393.0,
3743679.0,       7.8,       7.8,       0.0);
     ( 383413.0, 3743679.0,       8.2,       8.2,       0.0);         ( 383433.0,
3743679.0,       8.1,       8.1,       0.0);
     ( 383893.0, 3743679.0,       7.5,       7.5,       0.0);         ( 383913.0,
3743679.0,       7.4,       7.4,       0.0);
```

```
     ( 383933.0, 3743679.0,       7.2,       7.2,       0.0);         ( 383953.0,
3743679.0,       7.4,       7.4,       0.0);
     ( 383973.0, 3743679.0,       7.6,       7.6,       0.0);         ( 383993.0,
3743679.0,       7.8,       7.8,       0.0);
     ( 384013.0, 3743679.0,       7.8,       7.8,       0.0);         ( 384033.0,
3743679.0,       7.4,       7.4,       0.0);
     ( 383253.0, 3743699.0,       8.9,       8.9,       0.0);         ( 383273.0,
3743699.0,       8.8,       8.8,       0.0);
     ( 383293.0, 3743699.0,       8.4,       8.4,       0.0);         ( 383313.0,
3743699.0,       8.0,       8.0,       0.0);
     ( 383333.0, 3743699.0,       8.4,       8.4,       0.0);         ( 383353.0,
3743699.0,       8.3,       8.3,       0.0);
     ( 383373.0, 3743699.0,       8.0,       8.0,       0.0);         ( 383393.0,
3743699.0,       7.7,       7.7,       0.0);
     ( 383413.0, 3743699.0,       8.1,       8.1,       0.0);         ( 383433.0,
3743699.0,       8.0,       8.0,       0.0);
     ( 383893.0, 3743699.0,       7.5,       7.5,       0.0);         ( 383913.0,
3743699.0,       7.5,       7.5,       0.0);
     ( 383933.0, 3743699.0,       7.2,       7.2,       0.0);         ( 383953.0,
3743699.0,       7.2,       7.2,       0.0);
     ( 383973.0, 3743699.0,       7.5,       7.5,       0.0);         ( 383993.0,
3743699.0,       7.8,       7.8,       0.0);
     ( 384013.0, 3743699.0,       8.0,       8.0,       0.0);         ( 384033.0,
3743699.0,       7.6,       7.6,       0.0);
     ( 383253.0, 3743719.0,       8.9,       8.9,       0.0);         ( 383273.0,
3743719.0,       8.8,       8.8,       0.0);
     ( 383293.0, 3743719.0,       8.4,       8.4,       0.0);         ( 383313.0,
3743719.0,       7.8,       7.8,       0.0);
     ( 383333.0, 3743719.0,       8.0,       8.0,       0.0);         ( 383353.0,
3743719.0,       8.0,       8.0,       0.0);

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        15:40:32

                                PAGE  13
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                  (METERS)

     ( 383373.0, 3743719.0,       7.8,       7.8,       0.0);         ( 383393.0,
3743719.0,       7.5,       7.5,       0.0);
     ( 383413.0, 3743719.0,       7.7,       7.7,       0.0);         ( 383433.0,
3743719.0,       7.6,       7.6,       0.0);
     ( 383893.0, 3743719.0,       7.4,       7.4,       0.0);         ( 383913.0,
3743719.0,       7.5,       7.5,       0.0);
     ( 383933.0, 3743719.0,       7.4,       7.4,       0.0);         ( 383953.0,
```

```
3743719.0,       7.0,       7.0,       0.0);
     ( 383973.0, 3743719.0,       7.3,       7.3,       0.0);         ( 383993.0,
3743719.0,       7.8,       7.8,       0.0);
     ( 384013.0, 3743719.0,       8.1,       8.1,       0.0);         ( 384033.0,
3743719.0,       8.0,       8.0,       0.0);
     ( 383253.0, 3743739.0,       8.8,       8.8,       0.0);         ( 383273.0,
3743739.0,       8.8,       8.8,       0.0);
     ( 383293.0, 3743739.0,       8.4,       8.4,       0.0);         ( 383313.0,
3743739.0,       7.9,       7.9,       0.0);
     ( 383333.0, 3743739.0,       7.9,       7.9,       0.0);         ( 383353.0,
3743739.0,       7.9,       7.9,       0.0);
     ( 383373.0, 3743739.0,       7.8,       7.8,       0.0);         ( 383393.0,
3743739.0,       7.6,       7.6,       0.0);
     ( 383413.0, 3743739.0,       7.7,       7.7,       0.0);         ( 383433.0,
3743739.0,       7.6,       7.6,       0.0);
     ( 383893.0, 3743739.0,       7.3,       7.3,       0.0);         ( 383913.0,
3743739.0,       7.5,       7.5,       0.0);
     ( 383933.0, 3743739.0,       7.3,       7.3,       0.0);         ( 383953.0,
3743739.0,       6.8,       6.8,       0.0);
     ( 383973.0, 3743739.0,       7.1,       7.1,       0.0);         ( 383993.0,
3743739.0,       7.4,       7.4,       0.0);
     ( 384013.0, 3743739.0,       7.3,       7.3,       0.0);         ( 384033.0,
3743739.0,       7.1,       7.1,       0.0);
     ( 383253.0, 3743759.0,       8.7,       8.7,       0.0);         ( 383273.0,
3743759.0,       8.7,       8.7,       0.0);
     ( 383293.0, 3743759.0,       8.5,       8.5,       0.0);         ( 383313.0,
3743759.0,       8.3,       8.3,       0.0);
     ( 383333.0, 3743759.0,       8.2,       8.2,       0.0);         ( 383353.0,
3743759.0,       8.1,       8.1,       0.0);
     ( 383373.0, 3743759.0,       8.1,       8.1,       0.0);         ( 383393.0,
3743759.0,       8.0,       8.0,       0.0);
     ( 383413.0, 3743759.0,       8.0,       8.0,       0.0);         ( 383433.0,
3743759.0,       7.9,       7.9,       0.0);
     ( 383893.0, 3743759.0,       7.1,       7.1,       0.0);         ( 383913.0,
3743759.0,       7.2,       7.2,       0.0);
     ( 383933.0, 3743759.0,       7.0,       7.0,       0.0);         ( 383953.0,
3743759.0,       6.7,       6.7,       0.0);
     ( 383973.0, 3743759.0,       6.9,       6.9,       0.0);         ( 383993.0,
3743759.0,       6.9,       6.9,       0.0);
     ( 384013.0, 3743759.0,       6.6,       6.6,       0.0);         ( 384033.0,
3743759.0,       6.3,       6.3,       0.0);
     ( 383253.0, 3743779.0,       8.4,       8.4,       0.0);         ( 383893.0,
3743779.0,       6.6,       6.6,       0.0);
     ( 383913.0, 3743779.0,       6.6,       6.6,       0.0);         ( 383933.0,
3743779.0,       6.5,       6.5,       0.0);
     ( 383953.0, 3743779.0,       6.4,       6.4,       0.0);         ( 383973.0,
3743779.0,       6.3,       6.3,       0.0);
     ( 383993.0, 3743779.0,       6.2,       6.2,       0.0);         ( 384013.0,
3743779.0,       6.1,       6.1,       0.0);
     ( 384033.0, 3743779.0,       5.9,       5.9,       0.0);         ( 383253.0,
```

3743799.0,   8.2,   8.2,   0.0);
     (383853.0, 3743799.0,   6.7,   6.7,   0.0);   (383873.0,
3743799.0,   6.6,   6.6,   0.0);
     (383893.0, 3743799.0,   6.6,   6.6,   0.0);   (383913.0,
3743799.0,   6.5,   6.5,   0.0);
     (383933.0, 3743799.0,   6.4,   6.4,   0.0);   (383953.0,
3743799.0,   6.4,   6.4,   0.0);
     (383973.0, 3743799.0,   6.3,   6.3,   0.0);   (383993.0,
3743799.0,   6.1,   6.1,   0.0);
     (384013.0, 3743799.0,   5.9,   5.9,   0.0);   (384033.0,
3743799.0,   5.6,   5.6,   0.0);
     (383253.0, 3743819.0,   8.3,   8.3,   0.0);   (383793.0,
3743819.0,   5.7,   5.7,   0.0);
     (383813.0, 3743819.0,   6.3,   6.3,   0.0);   (383833.0,
3743819.0,   6.8,   6.8,   0.0);
     (383853.0, 3743819.0,   6.8,   6.8,   0.0);   (383873.0,
3743819.0,   6.6,   6.6,   0.0);
     (383893.0, 3743819.0,   6.6,   6.6,   0.0);   (383913.0,
3743819.0,   6.6,   6.6,   0.0);
     (383933.0, 3743819.0,   6.5,   6.5,   0.0);   (383953.0,
3743819.0,   6.4,   6.4,   0.0);
     (383973.0, 3743819.0,   6.2,   6.2,   0.0);   (383993.0,
3743819.0,   6.0,   6.0,   0.0);
     (384013.0, 3743819.0,   5.8,   5.8,   0.0);   (384033.0,
3743819.0,   5.6,   5.6,   0.0);
     (383253.0, 3743839.0,   8.3,   8.3,   0.0);   (383793.0,
3743839.0,   5.5,   5.5,   0.0);
     (383813.0, 3743839.0,   6.1,   6.1,   0.0);   (383833.0,
3743839.0,   6.7,   6.7,   0.0);
     (383853.0, 3743839.0,   6.6,   6.6,   0.0);   (383873.0,
3743839.0,   6.6,   6.6,   0.0);
     (383893.0, 3743839.0,   6.5,   6.5,   0.0);   (383913.0,
3743839.0,   6.5,   6.5,   0.0);

 *** AERMOD - VERSION 24142 ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***   06/25/25
 *** AERMET - VERSION 22112 ***   ***
                      ***   15:40:32

                                  PAGE 14
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                        *** DISCRETE CARTESIAN RECEPTORS ***
                                      (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                (METERS)

     (383933.0, 3743839.0,   6.4,   6.4,   0.0);   (383953.0,
3743839.0,   6.2,   6.2,   0.0);
     (383973.0, 3743839.0,   6.0,   6.0,   0.0);   (383993.0,
3743839.0,   5.8,   5.8,   0.0);

```
     ( 384013.0, 3743839.0,       5.7,       5.7,       0.0);         ( 383253.0,
3743859.0,       8.2,       8.2,       0.0);
     ( 383793.0, 3743859.0,       5.4,       5.4,       0.0);         ( 383813.0,
3743859.0,       5.8,       5.8,       0.0);
     ( 383833.0, 3743859.0,       6.2,       6.2,       0.0);         ( 383853.0,
3743859.0,       6.3,       6.3,       0.0);
     ( 383873.0, 3743859.0,       6.3,       6.3,       0.0);         ( 383893.0,
3743859.0,       6.3,       6.3,       0.0);
     ( 383913.0, 3743859.0,       6.3,       6.3,       0.0);         ( 383933.0,
3743859.0,       6.3,       6.3,       0.0);
     ( 383953.0, 3743859.0,       6.2,       6.2,       0.0);         ( 383973.0,
3743859.0,       5.9,       5.9,       0.0);
     ( 383993.0, 3743859.0,       5.8,       5.8,       0.0);         ( 383253.0,
3743879.0,       8.1,       8.1,       0.0);
     ( 383793.0, 3743879.0,       5.4,       5.4,       0.0);         ( 383813.0,
3743879.0,       5.6,       5.6,       0.0);
     ( 383833.0, 3743879.0,       5.7,       5.7,       0.0);         ( 383853.0,
3743879.0,       5.9,       5.9,       0.0);
     ( 383873.0, 3743879.0,       6.1,       6.1,       0.0);         ( 383893.0,
3743879.0,       6.1,       6.1,       0.0);
     ( 383913.0, 3743879.0,       6.2,       6.2,       0.0);         ( 383933.0,
3743879.0,       6.2,       6.2,       0.0);
     ( 383953.0, 3743879.0,       6.2,       6.2,       0.0);         ( 383973.0,
3743879.0,       6.0,       6.0,       0.0);
     ( 383253.0, 3743899.0,       8.0,       8.0,       0.0);         ( 383773.0,
3743899.0,       6.3,       6.3,       0.0);
     ( 383793.0, 3743899.0,       6.2,       6.2,       0.0);         ( 383813.0,
3743899.0,       6.1,       6.1,       0.0);
     ( 383833.0, 3743899.0,       6.1,       6.1,       0.0);         ( 383853.0,
3743899.0,       6.1,       6.1,       0.0);
     ( 383873.0, 3743899.0,       6.4,       6.4,       0.0);         ( 383893.0,
3743899.0,       6.6,       6.6,       0.0);
     ( 383913.0, 3743899.0,       6.8,       6.8,       0.0);         ( 383933.0,
3743899.0,       6.7,       6.7,       0.0);
     ( 383953.0, 3743899.0,       6.5,       6.5,       0.0);         ( 383973.0,
3743899.0,       6.4,      10.4,       0.0);
     ( 383253.0, 3743919.0,       8.0,       8.0,       0.0);         ( 383773.0,
3743919.0,       6.8,       6.8,       0.0);
     ( 383793.0, 3743919.0,       6.6,       6.6,       0.0);         ( 383813.0,
3743919.0,       6.5,       6.5,       0.0);
     ( 383833.0, 3743919.0,       6.5,       6.5,       0.0);         ( 383853.0,
3743919.0,       6.4,       6.4,       0.0);
     ( 383873.0, 3743919.0,       6.5,       6.5,       0.0);         ( 383893.0,
3743919.0,       6.6,       6.6,       0.0);
     ( 383913.0, 3743919.0,       6.8,       6.8,       0.0);         ( 383933.0,
3743919.0,       6.7,       6.7,       0.0);
     ( 383953.0, 3743919.0,       6.8,      10.4,       0.0);         ( 383253.0,
3743939.0,       7.9,       7.9,       0.0);
     ( 383273.0, 3743939.0,       7.8,       7.8,       0.0);         ( 383293.0,
3743939.0,       7.3,       7.3,       0.0);
```

```
     ( 383313.0, 3743939.0,       7.4,       7.4,       0.0);         ( 383333.0,
3743939.0,       7.3,       7.3,       0.0);
     ( 383353.0, 3743939.0,       7.2,       7.2,       0.0);         ( 383373.0,
3743939.0,       7.1,       7.1,       0.0);
     ( 383393.0, 3743939.0,       7.1,       7.1,       0.0);         ( 383413.0,
3743939.0,       7.1,       7.1,       0.0);
     ( 383433.0, 3743939.0,       7.1,       7.1,       0.0);         ( 383453.0,
3743939.0,       6.8,       6.8,       0.0);
     ( 383773.0, 3743939.0,       6.9,       6.9,       0.0);         ( 383793.0,
3743939.0,       6.8,       6.8,       0.0);
     ( 383813.0, 3743939.0,       6.7,       6.7,       0.0);         ( 383833.0,
3743939.0,       7.0,       7.0,       0.0);
     ( 383853.0, 3743939.0,       6.7,       6.7,       0.0);         ( 383873.0,
3743939.0,       6.4,       6.4,       0.0);
     ( 383893.0, 3743939.0,       6.3,       6.3,       0.0);         ( 383913.0,
3743939.0,       6.4,       6.4,       0.0);
     ( 383933.0, 3743939.0,       6.5,      10.8,       0.0);         ( 383253.0,
3743959.0,       7.9,       7.9,       0.0);
     ( 383273.0, 3743959.0,       7.8,       7.8,       0.0);         ( 383293.0,
3743959.0,       7.4,       7.4,       0.0);
     ( 383313.0, 3743959.0,       7.4,       7.4,       0.0);         ( 383333.0,
3743959.0,       7.4,       7.4,       0.0);
     ( 383353.0, 3743959.0,       7.3,       7.3,       0.0);         ( 383373.0,
3743959.0,       7.2,       7.2,       0.0);
     ( 383393.0, 3743959.0,       7.2,       7.2,       0.0);         ( 383413.0,
3743959.0,       7.1,       7.1,       0.0);
     ( 383433.0, 3743959.0,       7.1,       7.1,       0.0);         ( 383453.0,
3743959.0,       6.9,       6.9,       0.0);
     ( 383773.0, 3743959.0,       7.0,       7.0,       0.0);         ( 383793.0,
3743959.0,       6.8,       6.8,       0.0);
     ( 383813.0, 3743959.0,       6.7,       6.7,       0.0);         ( 383833.0,
3743959.0,       7.0,       7.0,       0.0);
     ( 383853.0, 3743959.0,       6.8,       6.8,       0.0);         ( 383873.0,
3743959.0,       6.5,       6.5,       0.0);
     ( 383893.0, 3743959.0,       6.5,       6.5,       0.0);         ( 383913.0,
3743959.0,       6.7,       6.7,       0.0);

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        15:40:32

                                  PAGE  15
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                            *** DISCRETE CARTESIAN RECEPTORS ***
                                          (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                       (METERS)

     ( 383253.0, 3743979.0,       7.9,       7.9,       0.0);         ( 383273.0,
```

3743979.0,   7.8,   7.8,   0.0);
     (383293.0, 3743979.0,   7.5,   7.5,   0.0);   (383313.0,
3743979.0,   7.4,   7.4,   0.0);
     (383333.0, 3743979.0,   7.4,   7.4,   0.0);   (383353.0,
3743979.0,   7.4,   7.4,   0.0);
     (383373.0, 3743979.0,   7.3,   7.3,   0.0);   (383393.0,
3743979.0,   7.2,   7.2,   0.0);
     (383413.0, 3743979.0,   7.1,   7.1,   0.0);   (383433.0,
3743979.0,   7.1,   7.1,   0.0);
     (383453.0, 3743979.0,   6.8,   6.8,   0.0);   (383773.0,
3743979.0,   7.0,   7.0,   0.0);
     (383793.0, 3743979.0,   6.9,   6.9,   0.0);   (383813.0,
3743979.0,   6.8,   6.8,   0.0);
     (383833.0, 3743979.0,   7.1,   7.1,   0.0);   (383853.0,
3743979.0,   6.8,   6.8,   0.0);
     (383873.0, 3743979.0,   6.6,   6.6,   0.0);   (383893.0,
3743979.0,   6.9,   6.9,   0.0);
     (383253.0, 3743999.0,   7.4,   7.4,   0.0);   (383273.0,
3743999.0,   7.4,   7.4,   0.0);
     (383293.0, 3743999.0,   7.2,   7.2,   0.0);   (383313.0,
3743999.0,   7.1,   7.1,   0.0);
     (383333.0, 3743999.0,   7.0,   7.0,   0.0);   (383353.0,
3743999.0,   7.0,   7.0,   0.0);
     (383373.0, 3743999.0,   7.0,   7.0,   0.0);   (383393.0,
3743999.0,   6.9,   6.9,   0.0);
     (383413.0, 3743999.0,   6.9,   6.9,   0.0);   (383433.0,
3743999.0,   6.9,   6.9,   0.0);
     (383453.0, 3743999.0,   6.7,   6.7,   0.0);   (383773.0,
3743999.0,   6.9,   6.9,   0.0);
     (383793.0, 3743999.0,   6.9,   6.9,   0.0);   (383813.0,
3743999.0,   6.8,   6.8,   0.0);
     (383833.0, 3743999.0,   7.1,   7.1,   0.0);   (383853.0,
3743999.0,   6.8,   6.8,   0.0);
     (383873.0, 3743999.0,   6.6,   11.4,   0.0);   (382953.0,
3743179.0,   10.5,   10.5,   0.0);
     (383003.0, 3743179.0,   10.7,   10.7,   0.0);   (383053.0,
3743179.0,   10.3,   10.3,   0.0);
     (383103.0, 3743179.0,   10.5,   10.5,   0.0);   (383153.0,
3743179.0,   11.9,   11.9,   0.0);
     (383203.0, 3743179.0,   11.7,   11.7,   0.0);   (383253.0,
3743179.0,   11.2,   11.2,   0.0);
     (383303.0, 3743179.0,   10.8,   10.8,   0.0);   (383353.0,
3743179.0,   10.8,   10.8,   0.0);
     (383403.0, 3743179.0,   10.3,   10.3,   0.0);   (383453.0,
3743179.0,   10.4,   10.4,   0.0);
     (383503.0, 3743179.0,   9.7,   9.7,   0.0);   (383553.0,
3743179.0,   9.8,   9.8,   0.0);
     (383603.0, 3743179.0,   9.9,   9.9,   0.0);   (383653.0,
3743179.0,   10.0,   10.0,   0.0);
     (383703.0, 3743179.0,   9.5,   9.5,   0.0);   (383753.0,

```
3743179.0,       9.7,       9.7,       0.0);
     ( 383803.0, 3743179.0,       9.5,       9.5,       0.0);         ( 383853.0,
3743179.0,       9.4,       9.4,       0.0);
     ( 383903.0, 3743179.0,       8.6,       8.6,       0.0);         ( 383953.0,
3743179.0,       8.6,       8.6,       0.0);
     ( 384003.0, 3743179.0,       8.6,       8.6,       0.0);         ( 384053.0,
3743179.0,       8.4,       8.4,       0.0);
     ( 384103.0, 3743179.0,       8.2,       8.2,       0.0);         ( 384153.0,
3743179.0,       8.5,       8.5,       0.0);
     ( 384203.0, 3743179.0,       8.6,       8.6,       0.0);         ( 384253.0,
3743179.0,       7.6,       7.6,       0.0);
     ( 384303.0, 3743179.0,       8.1,       8.1,       0.0);         ( 384353.0,
3743179.0,       8.1,       8.1,       0.0);
     ( 382953.0, 3743229.0,      10.3,      10.3,       0.0);         ( 383003.0,
3743229.0,      10.4,      10.4,       0.0);
     ( 383053.0, 3743229.0,      10.1,      10.1,       0.0);         ( 383103.0,
3743229.0,      10.3,      10.3,       0.0);
     ( 383153.0, 3743229.0,      10.5,      10.5,       0.0);         ( 383203.0,
3743229.0,      10.5,      10.5,       0.0);
     ( 383253.0, 3743229.0,      10.3,      10.3,       0.0);         ( 383303.0,
3743229.0,      10.2,      10.2,       0.0);
     ( 383353.0, 3743229.0,      10.6,      10.6,       0.0);         ( 383403.0,
3743229.0,      10.2,      10.2,       0.0);
     ( 383453.0, 3743229.0,      10.2,      10.2,       0.0);         ( 383503.0,
3743229.0,       9.3,       9.3,       0.0);
     ( 383553.0, 3743229.0,       9.6,       9.6,       0.0);         ( 383603.0,
3743229.0,       9.7,       9.7,       0.0);
     ( 383653.0, 3743229.0,       9.8,       9.8,       0.0);         ( 383703.0,
3743229.0,       9.2,       9.2,       0.0);
     ( 383753.0, 3743229.0,       9.2,       9.2,       0.0);         ( 383803.0,
3743229.0,       9.2,       9.2,       0.0);
     ( 383853.0, 3743229.0,       9.1,       9.1,       0.0);         ( 383903.0,
3743229.0,       8.5,       8.5,       0.0);
     ( 383953.0, 3743229.0,       8.8,       8.8,       0.0);         ( 384003.0,
3743229.0,       8.5,       8.5,       0.0);
     ( 384053.0, 3743229.0,       8.0,       8.0,       0.0);         ( 384103.0,
3743229.0,       8.6,       8.6,       0.0);
     ( 384153.0, 3743229.0,       8.6,       8.6,       0.0);         ( 384203.0,
3743229.0,       8.5,       8.5,       0.0);

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***       15:40:32

                                  PAGE  16
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                            *** DISCRETE CARTESIAN RECEPTORS ***
                                          (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
```

(METERS)

(384253.0, 3743229.0, 7.5, 7.5, 0.0); (384303.0, 3743229.0, 8.0, 8.0, 0.0);
(384353.0, 3743229.0, 8.0, 8.0, 0.0); (382953.0, 3743279.0, 10.2, 10.2, 0.0);
(383003.0, 3743279.0, 10.3, 10.3, 0.0); (383053.0, 3743279.0, 9.9, 9.9, 0.0);
(383103.0, 3743279.0, 10.1, 10.1, 0.0); (383153.0, 3743279.0, 10.0, 10.0, 0.0);
(383203.0, 3743279.0, 10.2, 10.2, 0.0); (383253.0, 3743279.0, 10.0, 10.0, 0.0);
(383303.0, 3743279.0, 9.9, 9.9, 0.0); (383353.0, 3743279.0, 9.9, 9.9, 0.0);
(383403.0, 3743279.0, 9.8, 9.8, 0.0); (383453.0, 3743279.0, 9.5, 9.5, 0.0);
(383503.0, 3743279.0, 9.2, 9.2, 0.0); (383553.0, 3743279.0, 9.3, 9.3, 0.0);
(383603.0, 3743279.0, 9.9, 9.9, 0.0); (383653.0, 3743279.0, 9.6, 9.6, 0.0);
(383703.0, 3743279.0, 9.0, 9.0, 0.0); (383753.0, 3743279.0, 9.1, 9.1, 0.0);
(383803.0, 3743279.0, 9.1, 9.1, 0.0); (383853.0, 3743279.0, 8.8, 8.8, 0.0);
(383903.0, 3743279.0, 8.5, 8.5, 0.0); (383953.0, 3743279.0, 8.7, 8.7, 0.0);
(384003.0, 3743279.0, 8.3, 8.3, 0.0); (384053.0, 3743279.0, 8.0, 8.0, 0.0);
(384103.0, 3743279.0, 8.5, 8.5, 0.0); (384153.0, 3743279.0, 8.5, 8.5, 0.0);
(384203.0, 3743279.0, 8.4, 8.4, 0.0); (384253.0, 3743279.0, 7.5, 7.5, 0.0);
(384303.0, 3743279.0, 8.0, 8.0, 0.0); (384353.0, 3743279.0, 7.9, 7.9, 0.0);
(382953.0, 3743329.0, 10.2, 10.2, 0.0); (383003.0, 3743329.0, 10.5, 10.5, 0.0);
(383053.0, 3743329.0, 9.7, 9.7, 0.0); (383103.0, 3743329.0, 9.9, 9.9, 0.0);
(383153.0, 3743329.0, 9.8, 9.8, 0.0); (383203.0, 3743329.0, 9.9, 9.9, 0.0);
(383253.0, 3743329.0, 9.8, 9.8, 0.0); (383303.0, 3743329.0, 9.6, 9.6, 0.0);
(383353.0, 3743329.0, 9.3, 9.3, 0.0); (383403.0, 3743329.0, 9.7, 9.7, 0.0);
(383453.0, 3743329.0, 9.2, 9.2, 0.0); (383503.0, 3743329.0, 9.5, 9.5, 0.0);
(383553.0, 3743329.0, 9.6, 9.6, 0.0); (383603.0, 3743329.0, 9.4, 9.4, 0.0);
(383653.0, 3743329.0, 9.3, 9.3, 0.0); (383703.0, 3743329.0, 9.6, 9.6, 0.0);

```
     ( 383753.0, 3743329.0,       9.6,       9.6,       0.0);         ( 383803.0,
3743329.0,       9.6,       9.6,       0.0);
     ( 383853.0, 3743329.0,       8.8,       8.8,       0.0);         ( 383903.0,
3743329.0,       8.5,       8.5,       0.0);
     ( 383953.0, 3743329.0,       8.8,       8.8,       0.0);         ( 384003.0,
3743329.0,       8.5,       8.5,       0.0);
     ( 384053.0, 3743329.0,       8.2,       8.2,       0.0);         ( 384103.0,
3743329.0,       8.4,       8.4,       0.0);
     ( 384153.0, 3743329.0,       8.2,       8.2,       0.0);         ( 384203.0,
3743329.0,       8.2,       8.2,       0.0);
     ( 384253.0, 3743329.0,       7.4,       7.4,       0.0);         ( 384303.0,
3743329.0,       7.9,       7.9,       0.0);
     ( 384353.0, 3743329.0,       7.6,       7.6,       0.0);         ( 382953.0,
3743379.0,      10.0,      10.0,       0.0);
     ( 383003.0, 3743379.0,       9.8,       9.8,       0.0);         ( 383053.0,
3743379.0,       9.6,       9.6,       0.0);
     ( 383103.0, 3743379.0,       9.6,       9.6,       0.0);         ( 383153.0,
3743379.0,       9.5,       9.5,       0.0);
     ( 383203.0, 3743379.0,       9.5,       9.5,       0.0);         ( 383253.0,
3743379.0,       9.4,       9.4,       0.0);
     ( 383303.0, 3743379.0,       9.2,       9.2,       0.0);         ( 383353.0,
3743379.0,       9.2,       9.2,       0.0);
     ( 383403.0, 3743379.0,       9.1,       9.1,       0.0);         ( 383453.0,
3743379.0,       8.9,       8.9,       0.0);
     ( 383503.0, 3743379.0,       9.0,       9.0,       0.0);         ( 383553.0,
3743379.0,       9.1,       9.1,       0.0);
     ( 383603.0, 3743379.0,       9.1,       9.1,       0.0);         ( 383653.0,
3743379.0,       9.0,       9.0,       0.0);
     ( 383703.0, 3743379.0,       8.9,       8.9,       0.0);         ( 383753.0,
3743379.0,       8.8,       8.8,       0.0);
     ( 383803.0, 3743379.0,       8.7,       8.7,       0.0);         ( 383853.0,
3743379.0,       8.4,       8.4,       0.0);
     ( 383903.0, 3743379.0,       8.2,       8.2,       0.0);         ( 383953.0,
3743379.0,       8.2,       8.2,       0.0);
     ( 384003.0, 3743379.0,       8.1,       8.1,       0.0);         ( 384053.0,
3743379.0,       8.0,       8.0,       0.0);
     ( 384103.0, 3743379.0,       7.8,       7.8,       0.0);         ( 384153.0,
3743379.0,       7.7,       7.7,       0.0);
     ( 384203.0, 3743379.0,       7.6,       7.6,       0.0);         ( 384253.0,
3743379.0,       7.3,       7.3,       0.0);
     ( 384303.0, 3743379.0,       6.9,       6.9,       0.0);         ( 384353.0,
3743379.0,       6.7,       6.7,       0.0);

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***       15:40:32

                                  PAGE  17
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(382953.0, 3743429.0, 9.8, 9.8, 0.0); (383003.0, 3743429.0, 10.2, 10.2, 0.0);
(383053.0, 3743429.0, 9.5, 9.5, 0.0); (383103.0, 3743429.0, 9.8, 9.8, 0.0);
(383153.0, 3743429.0, 10.0, 10.0, 0.0); (383203.0, 3743429.0, 9.7, 9.7, 0.0);
(383253.0, 3743429.0, 9.6, 9.6, 0.0); (383303.0, 3743429.0, 8.3, 8.3, 0.0);
(383353.0, 3743429.0, 8.2, 8.2, 0.0); (383403.0, 3743429.0, 8.2, 8.2, 0.0);
(383453.0, 3743429.0, 8.1, 8.1, 0.0); (383503.0, 3743429.0, 7.9, 7.9, 0.0);
(383553.0, 3743429.0, 7.7, 7.7, 0.0); (383603.0, 3743429.0, 7.9, 7.9, 0.0);
(383703.0, 3743429.0, 8.5, 8.5, 0.0); (383753.0, 3743429.0, 8.6, 8.6, 0.0);
(383803.0, 3743429.0, 8.5, 8.5, 0.0); (383853.0, 3743429.0, 8.1, 8.1, 0.0);
(383903.0, 3743429.0, 7.7, 7.7, 0.0); (383953.0, 3743429.0, 7.4, 7.4, 0.0);
(384003.0, 3743429.0, 7.8, 7.8, 0.0); (384053.0, 3743429.0, 7.9, 7.9, 0.0);
(384103.0, 3743429.0, 8.3, 8.3, 0.0); (384153.0, 3743429.0, 8.4, 8.4, 0.0);
(384203.0, 3743429.0, 8.5, 8.5, 0.0); (384253.0, 3743429.0, 7.8, 7.8, 0.0);
(384303.0, 3743429.0, 7.2, 7.2, 0.0); (384353.0, 3743429.0, 7.3, 7.3, 0.0);
(382953.0, 3743479.0, 10.5, 10.5, 0.0); (383003.0, 3743479.0, 10.4, 10.4, 0.0);
(383053.0, 3743479.0, 9.4, 9.4, 0.0); (383103.0, 3743479.0, 9.8, 9.8, 0.0);
(383153.0, 3743479.0, 9.9, 9.9, 0.0); (383203.0, 3743479.0, 9.5, 9.5, 0.0);
(384053.0, 3743479.0, 7.7, 7.7, 0.0); (384103.0, 3743479.0, 8.3, 8.3, 0.0);
(384153.0, 3743479.0, 8.4, 8.4, 0.0); (384203.0, 3743479.0, 8.3, 8.3, 0.0);
(384253.0, 3743479.0, 7.4, 7.4, 0.0); (384303.0, 3743479.0, 6.9, 6.9, 0.0);
(384353.0, 3743479.0, 7.1, 7.1, 0.0); (382953.0, 3743529.0, 10.0, 10.0, 0.0);
(383003.0, 3743529.0, 9.9, 9.9, 0.0); (383053.0, 3743529.0, 9.4, 9.4, 0.0);
(383103.0, 3743529.0, 9.3, 9.3, 0.0); (383153.0,

```
3743529.0,       9.1,       9.1,       0.0);
     ( 383203.0, 3743529.0,       9.0,       9.0,       0.0);         ( 384053.0,
3743529.0,       7.7,       7.7,       0.0);
     ( 384103.0, 3743529.0,       7.5,       7.5,       0.0);         ( 384153.0,
3743529.0,       7.7,       7.7,       0.0);
     ( 384203.0, 3743529.0,       7.7,       7.7,       0.0);         ( 384253.0,
3743529.0,       7.0,       7.0,       0.0);
     ( 384303.0, 3743529.0,       6.7,       6.7,       0.0);         ( 384353.0,
3743529.0,       6.8,       6.8,       0.0);
     ( 382953.0, 3743579.0,       9.9,       9.9,       0.0);         ( 383003.0,
3743579.0,       9.9,       9.9,       0.0);
     ( 383053.0, 3743579.0,       9.3,       9.3,       0.0);         ( 383103.0,
3743579.0,       9.7,       9.7,       0.0);
     ( 383153.0, 3743579.0,       9.2,       9.2,       0.0);         ( 383203.0,
3743579.0,       9.2,       9.2,       0.0);
     ( 384053.0, 3743579.0,       7.2,       7.2,       0.0);         ( 384103.0,
3743579.0,       7.3,       7.3,       0.0);
     ( 384153.0, 3743579.0,       7.5,       7.5,       0.0);         ( 384203.0,
3743579.0,       7.5,       7.5,       0.0);
     ( 384253.0, 3743579.0,       7.3,       7.3,       0.0);         ( 384303.0,
3743579.0,       8.0,      10.0,       0.0);
     ( 384353.0, 3743579.0,       8.1,       8.1,       0.0);         ( 382953.0,
3743629.0,       9.5,       9.5,       0.0);
     ( 383003.0, 3743629.0,       9.4,       9.4,       0.0);         ( 383053.0,
3743629.0,       9.2,       9.2,       0.0);
     ( 383103.0, 3743629.0,       9.3,       9.3,       0.0);         ( 383153.0,
3743629.0,       9.2,       9.2,       0.0);
     ( 383203.0, 3743629.0,       9.2,       9.2,       0.0);         ( 384053.0,
3743629.0,       7.4,       7.4,       0.0);
     ( 384103.0, 3743629.0,       7.3,       7.3,       0.0);         ( 384153.0,
3743629.0,       7.5,       7.5,       0.0);
     ( 384203.0, 3743629.0,       7.4,       7.4,       0.0);         ( 384253.0,
3743629.0,       8.7,       9.9,       0.0);
     ( 384303.0, 3743629.0,       8.7,       8.7,       0.0);         ( 384353.0,
3743629.0,       7.4,       7.4,       0.0);
     ( 382953.0, 3743679.0,       9.7,       9.7,       0.0);         ( 383003.0,
3743679.0,       9.6,       9.6,       0.0);
     ( 383053.0, 3743679.0,       9.1,       9.1,       0.0);         ( 383103.0,
3743679.0,       9.1,       9.1,       0.0);
     ( 383153.0, 3743679.0,       9.3,       9.3,       0.0);         ( 383203.0,
3743679.0,       9.1,       9.1,       0.0);
     ( 384053.0, 3743679.0,       7.7,       7.7,       0.0);         ( 384103.0,
3743679.0,       7.1,       7.1,       0.0);
     ( 384153.0, 3743679.0,       6.8,       6.8,       0.0);         ( 384203.0,
3743679.0,       8.6,       8.6,       0.0);

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***       15:40:32
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(384253.0, 3743679.0, 7.6, 7.6, 0.0); (384303.0, 3743679.0, 6.4, 6.4, 0.0);
(384353.0, 3743679.0, 6.2, 6.2, 0.0); (382953.0, 3743729.0, 9.4, 9.4, 0.0);
(383003.0, 3743729.0, 9.4, 9.4, 0.0); (383053.0, 3743729.0, 9.0, 9.0, 0.0);
(383103.0, 3743729.0, 8.9, 8.9, 0.0); (383153.0, 3743729.0, 8.9, 8.9, 0.0);
(383203.0, 3743729.0, 9.0, 9.0, 0.0); (384053.0, 3743729.0, 7.5, 7.5, 0.0);
(384103.0, 3743729.0, 6.2, 6.2, 0.0); (384153.0, 3743729.0, 8.2, 8.2, 0.0);
(384203.0, 3743729.0, 7.4, 7.4, 0.0); (384253.0, 3743729.0, 6.2, 6.2, 0.0);
(384303.0, 3743729.0, 4.7, 4.7, 0.0); (384353.0, 3743729.0, 1.8, 4.3, 0.0);
(382953.0, 3743779.0, 9.1, 9.1, 0.0); (383003.0, 3743779.0, 9.0, 9.0, 0.0);
(383053.0, 3743779.0, 8.8, 8.8, 0.0); (383103.0, 3743779.0, 8.7, 8.7, 0.0);
(383153.0, 3743779.0, 8.5, 8.5, 0.0); (383203.0, 3743779.0, 8.6, 8.6, 0.0);
(384053.0, 3743779.0, 5.7, 5.7, 0.0); (384103.0, 3743779.0, 7.6, 8.7, 0.0);
(384153.0, 3743779.0, 7.2, 7.2, 0.0); (384203.0, 3743779.0, 6.0, 6.0, 0.0);
(384253.0, 3743779.0, 3.2, 6.1, 0.0); (384303.0, 3743779.0, 0.5, 6.9, 0.0);
(384353.0, 3743779.0, 4.5, 6.5, 0.0); (382953.0, 3743829.0, 9.2, 9.2, 0.0);
(383003.0, 3743829.0, 8.4, 8.4, 0.0); (383053.0, 3743829.0, 8.4, 8.4, 0.0);
(383103.0, 3743829.0, 8.7, 8.7, 0.0); (383153.0, 3743829.0, 8.3, 8.3, 0.0);
(383203.0, 3743829.0, 8.5, 8.5, 0.0); (384153.0, 3743829.0, 6.0, 6.0, 0.0);
(384203.0, 3743829.0, 4.4, 6.4, 0.0); (384253.0, 3743829.0, 1.2, 6.9, 0.0);
(384303.0, 3743829.0, 5.5, 5.5, 0.0); (384353.0, 3743829.0, 6.5, 6.5, 0.0);
(382953.0, 3743879.0, 8.4, 8.4, 0.0); (383003.0, 3743879.0, 8.1, 8.1, 0.0);

```
     ( 383053.0, 3743879.0,       8.0,       8.0,       0.0);         ( 383103.0,
3743879.0,       8.4,       8.4,       0.0);
     ( 383153.0, 3743879.0,       7.9,       7.9,       0.0);         ( 383203.0,
3743879.0,       8.2,       8.2,       0.0);
     ( 384253.0, 3743879.0,       5.3,       6.9,       0.0);         ( 384303.0,
3743879.0,       6.5,       6.5,       0.0);
     ( 384353.0, 3743879.0,       6.9,       6.9,       0.0);         ( 382953.0,
3743929.0,       8.5,       8.5,       0.0);
     ( 383003.0, 3743929.0,       8.2,       8.2,       0.0);         ( 383053.0,
3743929.0,       7.7,       7.7,       0.0);
     ( 383103.0, 3743929.0,       8.2,       8.2,       0.0);         ( 383153.0,
3743929.0,       7.8,       7.8,       0.0);
     ( 383203.0, 3743929.0,       8.1,       8.1,       0.0);         ( 384253.0,
3743929.0,       6.4,       6.4,       0.0);
     ( 384303.0, 3743929.0,       6.7,       6.7,       0.0);         ( 384353.0,
3743929.0,       6.9,       6.9,       0.0);
     ( 382953.0, 3743979.0,       9.3,       9.3,       0.0);         ( 383003.0,
3743979.0,       7.6,       7.6,       0.0);
     ( 383053.0, 3743979.0,       7.3,       7.3,       0.0);         ( 383103.0,
3743979.0,       7.5,       7.5,       0.0);
     ( 383153.0, 3743979.0,       7.8,       7.8,       0.0);         ( 383203.0,
3743979.0,       8.0,       8.0,       0.0);
     ( 384203.0, 3743979.0,       6.7,       6.7,       0.0);         ( 384253.0,
3743979.0,       6.4,       6.4,       0.0);
     ( 384303.0, 3743979.0,       6.4,       6.4,       0.0);         ( 384353.0,
3743979.0,       6.5,       6.5,       0.0);
     ( 382953.0, 3744029.0,       7.5,       7.5,       0.0);         ( 383003.0,
3744029.0,       7.6,       7.6,       0.0);
     ( 383053.0, 3744029.0,       7.3,       7.3,       0.0);         ( 383103.0,
3744029.0,       7.3,       7.3,       0.0);
     ( 383153.0, 3744029.0,       7.2,       7.2,       0.0);         ( 383203.0,
3744029.0,       7.1,       7.1,       0.0);
     ( 383253.0, 3744029.0,       7.2,       7.2,       0.0);         ( 383303.0,
3744029.0,       7.1,       7.1,       0.0);
     ( 383353.0, 3744029.0,       7.0,       7.0,       0.0);         ( 383403.0,
3744029.0,       6.8,       6.8,       0.0);
     ( 383453.0, 3744029.0,       6.5,       6.5,       0.0);         ( 384153.0,
3744029.0,       6.7,       6.7,       0.0);
     ( 384203.0, 3744029.0,       6.3,       6.3,       0.0);         ( 384253.0,
3744029.0,       6.4,       6.4,       0.0);
     ( 384303.0, 3744029.0,       6.0,       6.0,       0.0);         ( 384353.0,
3744029.0,       6.1,       6.1,       0.0);
     ( 382953.0, 3744079.0,       7.6,       7.6,       0.0);         ( 383003.0,
3744079.0,       7.6,       7.6,       0.0);
     ( 383053.0, 3744079.0,       7.2,       7.2,       0.0);         ( 383103.0,
3744079.0,       7.3,       7.3,       0.0);
     ( 383153.0, 3744079.0,       7.2,       7.2,       0.0);         ( 383203.0,
3744079.0,       7.0,       7.0,       0.0);

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(383253.0, 3744079.0, 7.1, 7.1, 0.0); (383303.0, 3744079.0, 7.1, 7.1, 0.0);
(383353.0, 3744079.0, 6.9, 6.9, 0.0); (383403.0, 3744079.0, 6.8, 6.8, 0.0);
(383453.0, 3744079.0, 6.5, 6.5, 0.0); (384103.0, 3744079.0, 5.8, 5.8, 0.0);
(384153.0, 3744079.0, 6.6, 6.6, 0.0); (384203.0, 3744079.0, 6.4, 6.4, 0.0);
(384253.0, 3744079.0, 6.5, 6.5, 0.0); (384303.0, 3744079.0, 6.1, 6.1, 0.0);
(384353.0, 3744079.0, 6.2, 6.2, 0.0); (382953.0, 3744129.0, 7.3, 7.3, 0.0);
(383003.0, 3744129.0, 7.6, 7.6, 0.0); (383053.0, 3744129.0, 7.1, 7.1, 0.0);
(383103.0, 3744129.0, 7.2, 7.2, 0.0); (383153.0, 3744129.0, 7.0, 7.0, 0.0);
(383203.0, 3744129.0, 6.8, 6.8, 0.0); (383253.0, 3744129.0, 6.9, 6.9, 0.0);
(383303.0, 3744129.0, 6.8, 6.8, 0.0); (383353.0, 3744129.0, 7.3, 7.3, 0.0);
(383403.0, 3744129.0, 7.0, 7.0, 0.0); (383453.0, 3744129.0, 6.4, 6.4, 0.0);
(384103.0, 3744129.0, 6.4, 6.4, 0.0); (384153.0, 3744129.0, 6.6, 6.6, 0.0);
(384203.0, 3744129.0, 6.6, 6.6, 0.0); (384253.0, 3744129.0, 6.4, 6.4, 0.0);
(384303.0, 3744129.0, 6.2, 6.2, 0.0); (384353.0, 3744129.0, 6.3, 6.3, 0.0);
(382953.0, 3744179.0, 7.3, 7.3, 0.0); (383003.0, 3744179.0, 7.4, 7.4, 0.0);
(383053.0, 3744179.0, 7.0, 7.0, 0.0); (383103.0, 3744179.0, 7.0, 7.0, 0.0);
(383153.0, 3744179.0, 6.8, 6.8, 0.0); (383203.0, 3744179.0, 6.6, 6.6, 0.0);
(383253.0, 3744179.0, 6.6, 6.6, 0.0); (383303.0, 3744179.0, 6.5, 6.5, 0.0);
(383353.0, 3744179.0, 6.6, 6.6, 0.0); (383403.0, 3744179.0, 6.6, 6.6, 0.0);
(383453.0, 3744179.0, 6.3, 6.3, 0.0); (384053.0,

```
3744179.0,       6.1,       6.1,       0.0);
     ( 384103.0, 3744179.0,       6.0,       6.0,       0.0);         ( 384153.0,
3744179.0,       6.0,       6.0,       0.0);
     ( 384203.0, 3744179.0,       7.1,       7.1,       0.0);         ( 384253.0,
3744179.0,       6.3,       6.3,       0.0);
     ( 384303.0, 3744179.0,       6.3,       6.3,       0.0);         ( 384353.0,
3744179.0,       6.4,       6.4,       0.0);
     ( 382953.0, 3744229.0,       7.3,       7.3,       0.0);         ( 383003.0,
3744229.0,       7.2,       7.2,       0.0);
     ( 383053.0, 3744229.0,       6.9,       6.9,       0.0);         ( 383103.0,
3744229.0,       7.0,       7.0,       0.0);
     ( 383153.0, 3744229.0,       6.9,       6.9,       0.0);         ( 383203.0,
3744229.0,       6.3,       6.3,       0.0);
     ( 383253.0, 3744229.0,       6.6,       6.6,       0.0);         ( 383303.0,
3744229.0,       6.6,       6.6,       0.0);
     ( 383353.0, 3744229.0,       6.4,       6.4,       0.0);         ( 383403.0,
3744229.0,       6.2,       6.2,       0.0);
     ( 383453.0, 3744229.0,       6.0,       6.0,       0.0);         ( 383503.0,
3744229.0,       5.9,       5.9,       0.0);
     ( 383553.0, 3744229.0,       5.9,       5.9,       0.0);         ( 383603.0,
3744229.0,       5.8,       5.8,       0.0);
     ( 383653.0, 3744229.0,       5.3,       5.3,       0.0);         ( 383703.0,
3744229.0,       5.1,      11.1,       0.0);
     ( 383753.0, 3744229.0,       7.5,      11.2,       0.0);         ( 383803.0,
3744229.0,       6.5,      11.2,       0.0);
     ( 383853.0, 3744229.0,       5.9,       5.9,       0.0);         ( 383903.0,
3744229.0,       1.5,      12.0,       0.0);
     ( 383953.0, 3744229.0,       2.0,       6.7,       0.0);         ( 384003.0,
3744229.0,       5.8,       5.8,       0.0);
     ( 384053.0, 3744229.0,       5.7,       5.7,       0.0);         ( 384103.0,
3744229.0,       5.8,       5.8,       0.0);
     ( 384153.0, 3744229.0,       6.0,       6.0,       0.0);         ( 384203.0,
3744229.0,       6.1,       6.1,       0.0);
     ( 384253.0, 3744229.0,       6.2,       6.2,       0.0);         ( 384303.0,
3744229.0,       6.2,       6.2,       0.0);
     ( 384353.0, 3744229.0,       6.5,       6.5,       0.0);         ( 382953.0,
3744279.0,       7.4,       7.4,       0.0);
     ( 383003.0, 3744279.0,       7.3,       7.3,       0.0);         ( 383053.0,
3744279.0,       6.8,       6.8,       0.0);
     ( 383103.0, 3744279.0,       7.6,       7.6,       0.0);         ( 383153.0,
3744279.0,       7.7,       7.7,       0.0);
     ( 383203.0, 3744279.0,       6.3,       6.3,       0.0);         ( 383253.0,
3744279.0,       8.6,       8.6,       0.0);
     ( 383303.0, 3744279.0,       8.1,       8.1,       0.0);         ( 383353.0,
3744279.0,       7.3,       7.3,       0.0);
     ( 383403.0, 3744279.0,       6.6,       6.6,       0.0);         ( 383453.0,
3744279.0,       6.1,       6.1,       0.0);
     ( 383503.0, 3744279.0,       6.2,       6.2,       0.0);         ( 383553.0,
3744279.0,       6.4,       6.4,       0.0);
     ( 383603.0, 3744279.0,       6.1,       6.1,       0.0);         ( 383653.0,
```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

```
     ( 383703.0, 3744279.0,      10.2,      10.8,       0.0);         ( 383753.0,
3744279.0,      10.9,      10.9,       0.0);
     ( 383803.0, 3744279.0,       6.2,      11.2,       0.0);         ( 383853.0,
3744279.0,       2.2,      11.2,       0.0);
     ( 383903.0, 3744279.0,       0.8,       6.8,       0.0);         ( 383953.0,
3744279.0,       5.3,       5.3,       0.0);
     ( 384003.0, 3744279.0,       5.5,       5.5,       0.0);         ( 384053.0,
3744279.0,       5.5,       5.5,       0.0);
     ( 384103.0, 3744279.0,       7.3,       7.3,       0.0);         ( 384153.0,
3744279.0,       6.3,       6.3,       0.0);
     ( 384203.0, 3744279.0,       6.6,       6.6,       0.0);         ( 384253.0,
3744279.0,       6.6,       6.6,       0.0);
     ( 384303.0, 3744279.0,       7.2,       7.2,       0.0);         ( 384353.0,
3744279.0,       7.3,       7.3,       0.0);
     ( 382453.0, 3742679.0,      12.1,      12.1,       0.0);         ( 382553.0,
3742679.0,      11.9,      11.9,       0.0);
     ( 382653.0, 3742679.0,      11.8,      11.8,       0.0);         ( 382753.0,
3742679.0,      12.3,      12.3,       0.0);
     ( 382853.0, 3742679.0,      12.2,      12.2,       0.0);         ( 382953.0,
3742679.0,      12.7,      12.7,       0.0);
     ( 383053.0, 3742679.0,      12.1,      12.1,       0.0);         ( 383153.0,
3742679.0,      12.2,      12.2,       0.0);
     ( 383253.0, 3742679.0,      11.0,      11.0,       0.0);         ( 383353.0,
3742679.0,      10.8,      10.8,       0.0);
     ( 383453.0, 3742679.0,      11.1,      11.1,       0.0);         ( 383553.0,
3742679.0,      11.0,      11.0,       0.0);
     ( 383653.0, 3742679.0,      10.7,      10.7,       0.0);         ( 383753.0,
3742679.0,      10.6,      10.6,       0.0);
     ( 383853.0, 3742679.0,      10.4,      10.4,       0.0);         ( 383953.0,
3742679.0,      10.2,      10.2,       0.0);
     ( 384053.0, 3742679.0,      10.3,      10.3,       0.0);         ( 384153.0,
3742679.0,      10.7,      10.7,       0.0);
     ( 384253.0, 3742679.0,      11.4,      11.4,       0.0);         ( 384353.0,
3742679.0,      10.5,      10.5,       0.0);
     ( 384453.0, 3742679.0,      10.2,      10.2,       0.0);         ( 384553.0,
3742679.0,       9.8,       9.8,       0.0);
```

```
     ( 384653.0, 3742679.0,       9.8,       9.8,       0.0);         ( 384753.0,
3742679.0,       9.9,       9.9,       0.0);
     ( 384853.0, 3742679.0,       9.9,       9.9,       0.0);         ( 382453.0,
3742779.0,      11.9,      11.9,       0.0);
     ( 382553.0, 3742779.0,      11.7,      11.7,       0.0);         ( 382653.0,
3742779.0,      11.4,      11.4,       0.0);
     ( 382753.0, 3742779.0,      11.9,      11.9,       0.0);         ( 382853.0,
3742779.0,      11.8,      11.8,       0.0);
     ( 382953.0, 3742779.0,      12.3,      12.3,       0.0);         ( 383053.0,
3742779.0,      12.1,      12.1,       0.0);
     ( 383153.0, 3742779.0,      11.6,      11.6,       0.0);         ( 383253.0,
3742779.0,      11.7,      11.7,       0.0);
     ( 383353.0, 3742779.0,      11.9,      11.9,       0.0);         ( 383453.0,
3742779.0,      10.4,      10.4,       0.0);
     ( 383553.0, 3742779.0,      10.9,      10.9,       0.0);         ( 383653.0,
3742779.0,      10.5,      10.5,       0.0);
     ( 383753.0, 3742779.0,      10.1,      10.1,       0.0);         ( 383853.0,
3742779.0,       9.8,       9.8,       0.0);
     ( 383953.0, 3742779.0,       9.5,       9.5,       0.0);         ( 384053.0,
3742779.0,       9.6,       9.6,       0.0);
     ( 384153.0, 3742779.0,       9.5,       9.5,       0.0);         ( 384253.0,
3742779.0,       9.8,       9.8,       0.0);
     ( 384353.0, 3742779.0,      10.2,      10.2,       0.0);         ( 384453.0,
3742779.0,      10.1,      10.1,       0.0);
     ( 384553.0, 3742779.0,      10.1,      10.1,       0.0);         ( 384653.0,
3742779.0,       9.3,       9.3,       0.0);
     ( 384753.0, 3742779.0,       9.6,       9.6,       0.0);         ( 384853.0,
3742779.0,       9.6,       9.6,       0.0);
     ( 382453.0, 3742879.0,      11.7,      11.7,       0.0);         ( 382553.0,
3742879.0,      11.4,      11.4,       0.0);
     ( 382653.0, 3742879.0,      11.2,      11.2,       0.0);         ( 382753.0,
3742879.0,      11.1,      11.1,       0.0);
     ( 382853.0, 3742879.0,      11.4,      11.4,       0.0);         ( 382953.0,
3742879.0,      11.4,      11.4,       0.0);
     ( 383053.0, 3742879.0,      11.6,      11.6,       0.0);         ( 383153.0,
3742879.0,      11.6,      11.6,       0.0);
     ( 383253.0, 3742879.0,      11.6,      11.6,       0.0);         ( 383353.0,
3742879.0,      11.2,      11.2,       0.0);
     ( 383453.0, 3742879.0,      10.8,      10.8,       0.0);         ( 383553.0,
3742879.0,      10.7,      10.7,       0.0);
     ( 383653.0, 3742879.0,      10.0,      10.0,       0.0);         ( 383753.0,
3742879.0,      10.0,      10.0,       0.0);
     ( 383853.0, 3742879.0,       9.4,       9.4,       0.0);         ( 383953.0,
3742879.0,       9.3,       9.3,       0.0);
     ( 384053.0, 3742879.0,       9.6,       9.6,       0.0);         ( 384153.0,
3742879.0,       9.2,       9.2,       0.0);
     ( 384253.0, 3742879.0,       8.8,       8.8,       0.0);         ( 384353.0,
3742879.0,       9.1,       9.1,       0.0);
     ( 384453.0, 3742879.0,       9.1,       9.1,       0.0);         ( 384553.0,
3742879.0,       9.9,       9.9,       0.0);
```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(384653.0, 3742879.0, 8.4, 8.4, 0.0); (384753.0, 3742879.0, 9.1, 9.1, 0.0);
(384853.0, 3742879.0, 9.3, 9.3, 0.0); (382453.0, 3742979.0, 11.5, 11.5, 0.0);

(382553.0, 3742979.0, 11.3, 11.3, 0.0); (382653.0, 3742979.0, 11.1, 11.1, 0.0);
(382753.0, 3742979.0, 11.0, 11.0, 0.0); (382853.0, 3742979.0, 11.1, 11.1, 0.0);
(382953.0, 3742979.0, 10.7, 10.7, 0.0); (383053.0, 3742979.0, 11.1, 11.1, 0.0);
(383153.0, 3742979.0, 11.1, 11.1, 0.0); (383253.0, 3742979.0, 11.2, 11.2, 0.0);
(383353.0, 3742979.0, 10.8, 10.8, 0.0); (383453.0, 3742979.0, 10.7, 10.7, 0.0);
(383553.0, 3742979.0, 10.4, 10.4, 0.0); (383653.0, 3742979.0, 9.9, 9.9, 0.0);
(383753.0, 3742979.0, 9.7, 9.7, 0.0); (383853.0, 3742979.0, 9.5, 9.5, 0.0);
(383953.0, 3742979.0, 9.4, 9.4, 0.0); (384053.0, 3742979.0, 9.0, 9.0, 0.0);
(384153.0, 3742979.0, 8.7, 8.7, 0.0); (384253.0, 3742979.0, 8.0, 8.0, 0.0);
(384353.0, 3742979.0, 8.2, 8.2, 0.0); (384453.0, 3742979.0, 9.7, 9.7, 0.0);
(384553.0, 3742979.0, 8.7, 8.7, 0.0); (384653.0, 3742979.0, 8.8, 8.8, 0.0);
(384753.0, 3742979.0, 7.7, 7.7, 0.0); (384853.0, 3742979.0, 8.8, 8.8, 0.0);
(382453.0, 3743079.0, 11.4, 11.4, 0.0); (382553.0, 3743079.0, 11.2, 11.2, 0.0);
(382653.0, 3743079.0, 11.0, 11.0, 0.0); (382753.0, 3743079.0, 10.9, 10.9, 0.0);
(382853.0, 3743079.0, 11.0, 11.0, 0.0); (382953.0, 3743079.0, 10.5, 10.5, 0.0);
(383053.0, 3743079.0, 10.7, 10.7, 0.0); (383153.0, 3743079.0, 10.3, 10.3, 0.0);
(383253.0, 3743079.0, 10.1, 10.1, 0.0); (383353.0,

3743079.0,   10.5,   10.5,   0.0);
     (383453.0, 3743079.0,   10.7,   10.7,   0.0);   (383553.0,
3743079.0,   10.2,   10.2,   0.0);
     (383653.0, 3743079.0,   10.1,   10.1,   0.0);   (383753.0,
3743079.0,   9.9,   9.9,   0.0);
     (383853.0, 3743079.0,   9.9,   9.9,   0.0);   (383953.0,
3743079.0,   9.4,   9.4,   0.0);
     (384053.0, 3743079.0,   9.9,   9.9,   0.0);   (384153.0,
3743079.0,   7.6,   7.6,   0.0);
     (384253.0, 3743079.0,   7.6,   7.6,   0.0);   (384353.0,
3743079.0,   8.6,   8.6,   0.0);
     (384453.0, 3743079.0,   9.1,   9.1,   0.0);   (384553.0,
3743079.0,   9.2,   9.2,   0.0);
     (384653.0, 3743079.0,   8.3,   8.3,   0.0);   (384753.0,
3743079.0,   7.8,   7.8,   0.0);
     (384853.0, 3743079.0,   8.0,   8.0,   0.0);   (382453.0,
3743179.0,   11.3,   11.3,   0.0);
     (382553.0, 3743179.0,   11.2,   11.2,   0.0);   (382653.0,
3743179.0,   10.8,   10.8,   0.0);
     (382753.0, 3743179.0,   10.9,   10.9,   0.0);   (382853.0,
3743179.0,   10.8,   10.8,   0.0);
     (384453.0, 3743179.0,   8.8,   8.8,   0.0);   (384553.0,
3743179.0,   8.1,   8.1,   0.0);
     (384653.0, 3743179.0,   8.1,   8.1,   0.0);   (384753.0,
3743179.0,   7.6,   7.6,   0.0);
     (384853.0, 3743179.0,   7.6,   7.6,   0.0);   (382453.0,
3743279.0,   11.1,   11.1,   0.0);
     (382553.0, 3743279.0,   10.9,   10.9,   0.0);   (382653.0,
3743279.0,   10.8,   10.8,   0.0);
     (382753.0, 3743279.0,   10.7,   10.7,   0.0);   (382853.0,
3743279.0,   10.7,   10.7,   0.0);
     (384453.0, 3743279.0,   9.1,   9.1,   0.0);   (384553.0,
3743279.0,   8.6,   8.6,   0.0);
     (384653.0, 3743279.0,   8.0,   8.0,   0.0);   (384753.0,
3743279.0,   7.1,   7.1,   0.0);
     (384853.0, 3743279.0,   7.9,   7.9,   0.0);   (382453.0,
3743379.0,   10.7,   10.7,   0.0);
     (382553.0, 3743379.0,   10.5,   10.5,   0.0);   (382653.0,
3743379.0,   10.4,   10.4,   0.0);
     (382753.0, 3743379.0,   10.2,   10.2,   0.0);   (382853.0,
3743379.0,   10.1,   10.1,   0.0);
     (384453.0, 3743379.0,   7.4,   7.4,   0.0);   (384553.0,
3743379.0,   7.9,   7.9,   0.0);
     (384653.0, 3743379.0,   7.6,   7.6,   0.0);   (384753.0,
3743379.0,   7.0,   7.0,   0.0);
     (384853.0, 3743379.0,   7.0,   7.0,   0.0);   (382453.0,
3743479.0,   10.6,   10.6,   0.0);
     (382553.0, 3743479.0,   10.4,   10.4,   0.0);   (382653.0,
3743479.0,   10.3,   10.3,   0.0);
     (382753.0, 3743479.0,   11.2,   11.2,   0.0);   (382853.0,

3743479.0,   10.4,   10.4,   0.0);
     (384453.0, 3743479.0,   7.3,   7.3,   0.0);   (384553.0,
3743479.0,   8.0,   8.0,   0.0);
     (384653.0, 3743479.0,   7.5,   7.5,   0.0);   (384753.0,
3743479.0,   6.6,   6.6,   0.0);
     (384853.0, 3743479.0,   1.2,   13.1,   0.0);   (382453.0,
3743579.0,   10.6,   10.6,   0.0);

 *** AERMOD - VERSION 24142 ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***   06/25/25
 *** AERMET - VERSION 22112 ***   ***
                       ***   15:40:32

                                  PAGE 22
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                       (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                   (METERS)

     (382553.0, 3743579.0,   10.4,   10.4,   0.0);   (382653.0,
3743579.0,   10.2,   10.2,   0.0);
     (382753.0, 3743579.0,   11.0,   11.0,   0.0);   (382853.0,
3743579.0,   11.1,   11.1,   0.0);
     (384453.0, 3743579.0,   7.9,   7.9,   0.0);   (384553.0,
3743579.0,   7.3,   7.3,   0.0);
     (384653.0, 3743579.0,   2.8,   10.3,   0.0);   (384753.0,
3743579.0,   4.9,   10.8,   0.0);
     (384853.0, 3743579.0,   7.5,   12.0,   0.0);   (382453.0,
3743679.0,   10.8,   10.8,   0.0);
     (382553.0, 3743679.0,   10.3,   10.3,   0.0);   (382653.0,
3743679.0,   10.1,   10.1,   0.0);
     (382753.0, 3743679.0,   9.7,   9.7,   0.0);   (382853.0,
3743679.0,   9.7,   9.7,   0.0);
     (384453.0, 3743679.0,   1.0,   5.9,   0.0);   (384553.0,
3743679.0,   5.8,   6.7,   0.0);
     (384653.0, 3743679.0,   6.5,   6.5,   0.0);   (384753.0,
3743679.0,   6.5,   6.5,   0.0);
     (384853.0, 3743679.0,   6.9,   6.9,   0.0);   (382453.0,
3743779.0,   10.1,   10.1,   0.0);
     (382553.0, 3743779.0,   9.8,   9.8,   0.0);   (382653.0,
3743779.0,   9.8,   9.8,   0.0);
     (382753.0, 3743779.0,   9.5,   9.5,   0.0);   (382853.0,
3743779.0,   9.2,   9.2,   0.0);
     (384453.0, 3743779.0,   6.0,   6.0,   0.0);   (384553.0,
3743779.0,   6.0,   6.0,   0.0);
     (384653.0, 3743779.0,   6.3,   6.3,   0.0);   (384753.0,
3743779.0,   6.4,   6.4,   0.0);
     (384853.0, 3743779.0,   6.5,   6.5,   0.0);   (382453.0,
3743879.0,   9.7,   9.7,   0.0);

```
     ( 382553.0, 3743879.0,       9.3,       9.3,       0.0);         ( 382653.0,
3743879.0,       9.2,       9.2,       0.0);
     ( 382753.0, 3743879.0,       9.0,       9.0,       0.0);         ( 382853.0,
3743879.0,       8.8,       8.8,       0.0);
     ( 384453.0, 3743879.0,       6.6,       6.6,       0.0);         ( 384553.0,
3743879.0,       6.5,       6.5,       0.0);
     ( 384653.0, 3743879.0,       6.7,       6.7,       0.0);         ( 384753.0,
3743879.0,       7.2,       7.2,       0.0);
     ( 384853.0, 3743879.0,       6.9,       6.9,       0.0);         ( 382453.0,
3743979.0,       9.5,       9.5,       0.0);
     ( 382553.0, 3743979.0,       9.3,       9.3,       0.0);         ( 382653.0,
3743979.0,       8.9,       8.9,       0.0);
     ( 382753.0, 3743979.0,       8.8,       8.8,       0.0);         ( 382853.0,
3743979.0,       8.6,       8.6,       0.0);
     ( 384453.0, 3743979.0,       6.3,       6.3,       0.0);         ( 384553.0,
3743979.0,       6.6,       6.6,       0.0);
     ( 384653.0, 3743979.0,       7.0,       7.0,       0.0);         ( 384753.0,
3743979.0,       7.5,       7.5,       0.0);
     ( 384853.0, 3743979.0,       7.1,       7.1,       0.0);         ( 382453.0,
3744079.0,       9.2,       9.2,       0.0);
     ( 382553.0, 3744079.0,       9.0,       9.0,       0.0);         ( 382653.0,
3744079.0,       8.4,       8.4,       0.0);
     ( 382753.0, 3744079.0,       8.6,       8.6,       0.0);         ( 382853.0,
3744079.0,       8.4,       8.4,       0.0);
     ( 384453.0, 3744079.0,       6.4,       6.4,       0.0);         ( 384553.0,
3744079.0,       7.0,       7.0,       0.0);
     ( 384653.0, 3744079.0,       6.9,       6.9,       0.0);         ( 384753.0,
3744079.0,       7.0,       7.0,       0.0);
     ( 384853.0, 3744079.0,       7.0,       7.0,       0.0);         ( 382453.0,
3744179.0,       9.0,       9.0,       0.0);
     ( 382553.0, 3744179.0,       8.5,       8.5,       0.0);         ( 382653.0,
3744179.0,       7.9,       7.9,       0.0);
     ( 382753.0, 3744179.0,       7.6,       7.6,       0.0);         ( 382853.0,
3744179.0,       7.3,       7.3,       0.0);
     ( 384453.0, 3744179.0,       6.6,       6.6,       0.0);         ( 384553.0,
3744179.0,       7.0,       7.0,       0.0);
     ( 384653.0, 3744179.0,       6.8,       6.8,       0.0);         ( 384753.0,
3744179.0,       6.8,       6.8,       0.0);
     ( 384853.0, 3744179.0,       6.8,       6.8,       0.0);         ( 382453.0,
3744279.0,       9.2,       9.2,       0.0);
     ( 382553.0, 3744279.0,       8.6,       8.6,       0.0);         ( 382653.0,
3744279.0,       7.8,       7.8,       0.0);
     ( 382753.0, 3744279.0,       7.6,       7.6,       0.0);         ( 382853.0,
3744279.0,       7.3,       7.3,       0.0);
     ( 384453.0, 3744279.0,       7.3,       7.3,       0.0);         ( 384553.0,
3744279.0,       7.1,       7.1,       0.0);
     ( 384653.0, 3744279.0,       7.1,       7.1,       0.0);         ( 384753.0,
3744279.0,       7.4,       7.4,       0.0);
     ( 384853.0, 3744279.0,       7.4,       7.4,       0.0);         ( 382453.0,
3744379.0,       8.2,       8.2,       0.0);
```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(383553.0, 3744379.0, 5.5, 5.5, 0.0); (383653.0, 3744379.0, 10.4, 10.4, 0.0);
(383753.0, 3744379.0, 6.3, 9.9, 0.0); (383853.0, 3744379.0, 5.5, 6.9, 0.0);
(383953.0, 3744379.0, 6.9, 6.9, 0.0); (384053.0, 3744379.0, 6.8, 6.8, 0.0);
(384153.0, 3744379.0, 6.5, 6.5, 0.0); (384253.0, 3744379.0, 7.0, 7.0, 0.0);
(384353.0, 3744379.0, 7.2, 7.2, 0.0); (384453.0, 3744379.0, 7.2, 7.2, 0.0);
(384553.0, 3744379.0, 6.9, 6.9, 0.0); (384653.0, 3744379.0, 6.9, 6.9, 0.0);
(384753.0, 3744379.0, 7.7, 7.7, 0.0); (384853.0, 3744379.0, 7.6, 7.6, 0.0);
(382453.0, 3744479.0, 7.8, 7.8, 0.0); (382553.0, 3744479.0, 7.5, 7.5, 0.0);
(382653.0, 3744479.0, 7.2, 7.2, 0.0); (382753.0, 3744479.0, 6.6, 6.6, 0.0);
(382853.0, 3744479.0, 6.3, 6.3, 0.0); (382953.0, 3744479.0, 6.6, 6.6, 0.0);
(383053.0, 3744479.0, 6.4, 6.4, 0.0); (383153.0, 3744479.0, 6.7, 6.7, 0.0);
(383253.0, 3744479.0, 6.8, 6.8, 0.0); (383353.0, 3744479.0, 7.0, 7.0, 0.0);
(383453.0, 3744479.0, 6.9, 6.9, 0.0); (383553.0, 3744479.0, 10.4, 10.4, 0.0);
(383653.0, 3744479.0, 4.8, 10.4, 0.0); (383753.0,

3744479.0,   2.5,   6.2,   0.0);
     (383853.0, 3744479.0,   6.4,   6.4,   0.0);   (383953.0,
3744479.0,   6.6,   6.6,   0.0);
     (384053.0, 3744479.0,   6.3,   6.3,   0.0);   (384153.0,
3744479.0,   6.3,   6.3,   0.0);
     (384253.0, 3744479.0,   6.8,   6.8,   0.0);   (384353.0,
3744479.0,   6.9,   6.9,   0.0);
     (384453.0, 3744479.0,   7.0,   7.0,   0.0);   (384553.0,
3744479.0,   7.4,   7.4,   0.0);
     (384653.0, 3744479.0,   7.9,   7.9,   0.0);   (384753.0,
3744479.0,   7.5,   7.5,   0.0);
     (384853.0, 3744479.0,   7.7,   7.7,   0.0);   (382453.0,
3744579.0,   6.9,   6.9,   0.0);
     (382553.0, 3744579.0,   7.0,   7.0,   0.0);   (382653.0,
3744579.0,   6.8,   6.8,   0.0);
     (382753.0, 3744579.0,   7.2,   7.2,   0.0);   (382853.0,
3744579.0,   6.8,   6.8,   0.0);
     (382953.0, 3744579.0,   6.7,   6.7,   0.0);   (383053.0,
3744579.0,   6.4,   6.4,   0.0);
     (383153.0, 3744579.0,   6.6,   6.6,   0.0);   (383253.0,
3744579.0,   6.1,   6.1,   0.0);
     (383353.0, 3744579.0,   6.9,   6.9,   0.0);   (383453.0,
3744579.0,   9.3,   10.7,   0.0);
     (383553.0, 3744579.0,   5.7,   10.8,   0.0);   (383653.0,
3744579.0,   0.6,   6.3,   0.0);
     (383753.0, 3744579.0,   5.8,   5.8,   0.0);   (383853.0,
3744579.0,   6.2,   6.2,   0.0);
     (383953.0, 3744579.0,   6.2,   6.2,   0.0);   (384053.0,
3744579.0,   6.1,   6.1,   0.0);
     (384153.0, 3744579.0,   6.0,   6.0,   0.0);   (384253.0,
3744579.0,   6.1,   6.1,   0.0);
     (384353.0, 3744579.0,   6.9,   6.9,   0.0);   (384453.0,
3744579.0,   7.2,   7.2,   0.0);
     (384553.0, 3744579.0,   6.8,   6.8,   0.0);   (384653.0,
3744579.0,   7.0,   7.0,   0.0);
     (384753.0, 3744579.0,   7.4,   7.4,   0.0);   (384853.0,
3744579.0,   7.5,   7.5,   0.0);
     (382453.0, 3744679.0,   6.7,   6.7,   0.0);   (382553.0,
3744679.0,   7.0,   7.0,   0.0);
     (382653.0, 3744679.0,   6.7,   6.7,   0.0);   (382753.0,
3744679.0,   6.6,   6.6,   0.0);
     (382853.0, 3744679.0,   6.1,   6.1,   0.0);   (382953.0,
3744679.0,   6.3,   6.3,   0.0);
     (383053.0, 3744679.0,   6.3,   6.3,   0.0);   (383153.0,
3744679.0,   6.7,   6.7,   0.0);
     (383253.0, 3744679.0,   6.2,   6.2,   0.0);   (383353.0,
3744679.0,   6.5,   11.1,   0.0);
     (383453.0, 3744679.0,   5.6,   11.0,   0.0);   (383553.0,
3744679.0,   1.1,   6.5,   0.0);
     (383653.0, 3744679.0,   7.2,   7.2,   0.0);   (383753.0,

3744679.0,   5.7,   5.7,   0.0);
     (383853.0, 3744679.0,   4.1,   4.1,   0.0);   (383953.0,
3744679.0,   4.4,   4.4,   0.0);
     (384053.0, 3744679.0,   4.9,   4.9,   0.0);   (384153.0,
3744679.0,   6.7,   6.7,   0.0);
     (384253.0, 3744679.0,   6.4,   6.4,   0.0);   (384353.0,
3744679.0,   6.2,   6.2,   0.0);
     (384453.0, 3744679.0,   6.5,   6.5,   0.0);   (384553.0,
3744679.0,   6.9,   6.9,   0.0);
     (384653.0, 3744679.0,   7.2,   7.2,   0.0);   (384753.0,
3744679.0,   7.2,   7.2,   0.0);
     (384853.0, 3744679.0,   7.2,   7.2,   0.0);   (382453.0,
3744779.0,   7.3,   7.3,   0.0);

 *** AERMOD - VERSION 24142 ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***   06/25/25
 *** AERMET - VERSION 22112 ***   ***
                      ***   15:40:32

                                  PAGE 24
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                  (METERS)

     (382553.0, 3744779.0,   6.3,   6.3,   0.0);   (382653.0,
3744779.0,   6.7,   6.7,   0.0);
     (382753.0, 3744779.0,   7.2,   7.2,   0.0);   (382853.0,
3744779.0,   7.2,   7.2,   0.0);
     (382953.0, 3744779.0,   7.1,   7.1,   0.0);   (383053.0,
3744779.0,   6.7,   6.7,   0.0);
     (383153.0, 3744779.0,   6.5,   6.5,   0.0);   (383253.0,
3744779.0,   6.6,   11.2,   0.0);
     (383353.0, 3744779.0,   10.5,   11.3,   0.0);   (383453.0,
3744779.0,   3.6,   3.6,   0.0);
     (383553.0, 3744779.0,   7.0,   7.0,   0.0);   (383653.0,
3744779.0,   7.6,   7.6,   0.0);
     (383753.0, 3744779.0,   5.2,   5.2,   0.0);   (383853.0,
3744779.0,   4.3,   4.3,   0.0);
     (383953.0, 3744779.0,   4.1,   4.1,   0.0);   (384053.0,
3744779.0,   4.8,   4.8,   0.0);
     (384153.0, 3744779.0,   5.9,   5.9,   0.0);   (384253.0,
3744779.0,   6.2,   6.2,   0.0);
     (384353.0, 3744779.0,   6.4,   6.4,   0.0);   (384453.0,
3744779.0,   7.6,   7.6,   0.0);
     (384553.0, 3744779.0,   6.9,   6.9,   0.0);   (384653.0,
3744779.0,   7.1,   7.1,   0.0);
     (384753.0, 3744779.0,   7.2,   7.2,   0.0);   (384853.0,
3744779.0,   7.3,   7.3,   0.0);

```
     ( 381453.0, 3741679.0,       9.7,       9.7,       0.0);         ( 381653.0,
3741679.0,      12.2,      12.2,       0.0);
     ( 381853.0, 3741679.0,      13.9,      13.9,       0.0);         ( 382053.0,
3741679.0,      12.4,      12.4,       0.0);
     ( 382253.0, 3741679.0,      12.3,      12.3,       0.0);         ( 382453.0,
3741679.0,      11.8,      11.8,       0.0);
     ( 382653.0, 3741679.0,      11.8,      11.8,       0.0);         ( 382853.0,
3741679.0,      12.2,      12.2,       0.0);
     ( 383053.0, 3741679.0,      12.5,      12.5,       0.0);         ( 383253.0,
3741679.0,      12.2,      12.2,       0.0);
     ( 383453.0, 3741679.0,      11.9,      11.9,       0.0);         ( 383653.0,
3741679.0,      11.9,      11.9,       0.0);
     ( 383853.0, 3741679.0,      12.0,      12.0,       0.0);         ( 384053.0,
3741679.0,      12.4,      12.4,       0.0);
     ( 384253.0, 3741679.0,      12.2,      12.2,       0.0);         ( 384453.0,
3741679.0,      11.5,      11.5,       0.0);
     ( 384653.0, 3741679.0,      11.9,      11.9,       0.0);         ( 384853.0,
3741679.0,      11.7,      11.7,       0.0);
     ( 385053.0, 3741679.0,       4.8,      12.8,       0.0);         ( 385253.0,
3741679.0,       9.6,       9.6,       0.0);
     ( 385453.0, 3741679.0,       9.9,       9.9,       0.0);         ( 385653.0,
3741679.0,       6.0,       6.0,       0.0);
     ( 385853.0, 3741679.0,       5.9,       5.9,       0.0);         ( 381453.0,
3741879.0,      11.9,      11.9,       0.0);
     ( 381653.0, 3741879.0,      11.4,      11.4,       0.0);         ( 381853.0,
3741879.0,      12.6,      12.6,       0.0);
     ( 382053.0, 3741879.0,      13.0,      13.0,       0.0);         ( 382253.0,
3741879.0,      12.9,      12.9,       0.0);
     ( 382453.0, 3741879.0,      12.5,      12.5,       0.0);         ( 382653.0,
3741879.0,      12.3,      12.3,       0.0);
     ( 382853.0, 3741879.0,      12.6,      12.6,       0.0);         ( 383053.0,
3741879.0,      13.1,      13.1,       0.0);
     ( 383253.0, 3741879.0,      12.3,      12.3,       0.0);         ( 383453.0,
3741879.0,      10.9,      10.9,       0.0);
     ( 383653.0, 3741879.0,      10.4,      10.4,       0.0);         ( 383853.0,
3741879.0,      10.6,      10.6,       0.0);
     ( 384053.0, 3741879.0,      14.6,      14.6,       0.0);         ( 384253.0,
3741879.0,      11.6,      11.6,       0.0);
     ( 384453.0, 3741879.0,      11.7,      11.7,       0.0);         ( 384653.0,
3741879.0,      11.4,      11.4,       0.0);
     ( 384853.0, 3741879.0,      10.6,      10.6,       0.0);         ( 385053.0,
3741879.0,       4.8,      12.1,       0.0);
     ( 385253.0, 3741879.0,       9.4,       9.4,       0.0);         ( 385453.0,
3741879.0,       9.5,       9.5,       0.0);
     ( 385653.0, 3741879.0,       5.3,       5.3,       0.0);         ( 385853.0,
3741879.0,       6.1,       6.1,       0.0);
     ( 381453.0, 3742079.0,      12.2,      12.2,       0.0);         ( 381653.0,
3742079.0,      11.6,      11.6,       0.0);
     ( 381853.0, 3742079.0,      11.2,      11.2,       0.0);         ( 382053.0,
3742079.0,      12.2,      12.2,       0.0);
```

```
     ( 382253.0, 3742079.0,      13.4,      13.4,       0.0);         ( 382453.0,
3742079.0,      12.8,      12.8,       0.0);
     ( 382653.0, 3742079.0,      12.6,      12.6,       0.0);         ( 382853.0,
3742079.0,      12.3,      12.3,       0.0);
     ( 383053.0, 3742079.0,      12.2,      12.2,       0.0);         ( 383253.0,
3742079.0,      12.2,      12.2,       0.0);
     ( 383453.0, 3742079.0,      11.4,      11.4,       0.0);         ( 383653.0,
3742079.0,      11.7,      11.7,       0.0);
     ( 383853.0, 3742079.0,      11.8,      11.8,       0.0);         ( 384053.0,
3742079.0,      11.9,      11.9,       0.0);
     ( 384253.0, 3742079.0,      10.4,      10.4,       0.0);         ( 384453.0,
3742079.0,      13.4,      13.9,       0.0);
     ( 384653.0, 3742079.0,       9.3,       9.3,       0.0);         ( 384853.0,
3742079.0,       9.2,       9.2,       0.0);
     ( 385053.0, 3742079.0,       6.1,       6.1,       0.0);         ( 385253.0,
3742079.0,       9.4,       9.4,       0.0);

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        15:40:32

                                  PAGE  25
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                       (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                 (METERS)

     ( 385453.0, 3742079.0,       8.8,       8.8,       0.0);         ( 385653.0,
3742079.0,       5.5,       5.5,       0.0);
     ( 385853.0, 3742079.0,       7.2,       7.2,       0.0);         ( 381453.0,
3742279.0,      12.9,      12.9,       0.0);
     ( 381653.0, 3742279.0,      12.5,      12.5,       0.0);         ( 381853.0,
3742279.0,      12.1,      12.1,       0.0);
     ( 382053.0, 3742279.0,      11.8,      11.8,       0.0);         ( 382253.0,
3742279.0,      13.6,      13.6,       0.0);
     ( 382453.0, 3742279.0,      13.0,      13.0,       0.0);         ( 382653.0,
3742279.0,      12.7,      12.7,       0.0);
     ( 382853.0, 3742279.0,      12.2,      12.2,       0.0);         ( 383053.0,
3742279.0,      11.8,      11.8,       0.0);
     ( 383253.0, 3742279.0,      11.4,      11.4,       0.0);         ( 383453.0,
3742279.0,      11.8,      11.8,       0.0);
     ( 383653.0, 3742279.0,      11.4,      11.4,       0.0);         ( 383853.0,
3742279.0,      12.0,      12.0,       0.0);
     ( 384053.0, 3742279.0,      11.2,      11.2,       0.0);         ( 384253.0,
3742279.0,      10.4,      10.4,       0.0);
     ( 384453.0, 3742279.0,       9.5,       9.5,       0.0);         ( 384653.0,
3742279.0,      10.2,      10.2,       0.0);
     ( 384853.0, 3742279.0,       8.6,      11.3,       0.0);         ( 385053.0,
```

```
3742279.0,       8.1,       8.1,       0.0);
     ( 385253.0, 3742279.0,       8.3,       8.3,       0.0);         ( 385453.0,
3742279.0,       5.8,       5.8,       0.0);
     ( 385653.0, 3742279.0,       5.7,       5.7,       0.0);         ( 385853.0,
3742279.0,       6.7,       6.7,       0.0);
     ( 381453.0, 3742479.0,      12.2,      12.2,       0.0);         ( 381653.0,
3742479.0,      12.0,      12.0,       0.0);
     ( 381853.0, 3742479.0,      12.7,      12.7,       0.0);         ( 382053.0,
3742479.0,      12.1,      12.1,       0.0);
     ( 382253.0, 3742479.0,      13.5,      13.5,       0.0);         ( 382453.0,
3742479.0,      13.0,      13.0,       0.0);
     ( 382653.0, 3742479.0,      12.6,      12.6,       0.0);         ( 382853.0,
3742479.0,      12.5,      12.5,       0.0);
     ( 383053.0, 3742479.0,      11.8,      11.8,       0.0);         ( 383253.0,
3742479.0,      11.2,      11.2,       0.0);
     ( 383453.0, 3742479.0,      11.5,      11.5,       0.0);         ( 383653.0,
3742479.0,      10.8,      10.8,       0.0);
     ( 383853.0, 3742479.0,      11.0,      11.0,       0.0);         ( 384053.0,
3742479.0,      10.9,      10.9,       0.0);
     ( 384253.0, 3742479.0,      10.9,      10.9,       0.0);         ( 384453.0,
3742479.0,      10.9,      10.9,       0.0);
     ( 384653.0, 3742479.0,      10.0,      10.0,       0.0);         ( 384853.0,
3742479.0,      10.0,      10.0,       0.0);
     ( 385053.0, 3742479.0,      12.7,      15.4,       0.0);         ( 385253.0,
3742479.0,       8.3,      15.6,       0.0);
     ( 385453.0, 3742479.0,       6.1,       6.1,       0.0);         ( 385653.0,
3742479.0,       6.4,       6.4,       0.0);
     ( 385853.0, 3742479.0,       6.9,       6.9,       0.0);         ( 381453.0,
3742679.0,      13.5,      13.5,       0.0);
     ( 381653.0, 3742679.0,      13.3,      13.3,       0.0);         ( 381853.0,
3742679.0,      13.1,      13.1,       0.0);
     ( 382053.0, 3742679.0,      12.6,      12.6,       0.0);         ( 382253.0,
3742679.0,      13.0,      13.0,       0.0);
     ( 385053.0, 3742679.0,       9.6,       9.6,       0.0);         ( 385253.0,
3742679.0,       2.4,      10.2,       0.0);
     ( 385453.0, 3742679.0,       7.7,       7.7,       0.0);         ( 385653.0,
3742679.0,       7.7,       7.7,       0.0);
     ( 385853.0, 3742679.0,       7.3,       7.3,       0.0);         ( 381453.0,
3742879.0,      12.8,      12.8,       0.0);
     ( 381653.0, 3742879.0,      14.2,      14.2,       0.0);         ( 381853.0,
3742879.0,      13.1,      13.1,       0.0);
     ( 382053.0, 3742879.0,      12.4,      12.4,       0.0);         ( 382253.0,
3742879.0,      11.7,      11.7,       0.0);
     ( 385053.0, 3742879.0,       8.9,       8.9,       0.0);         ( 385253.0,
3742879.0,       5.4,       5.4,       0.0);
     ( 385453.0, 3742879.0,       5.6,       5.6,       0.0);         ( 385653.0,
3742879.0,       6.6,       6.6,       0.0);
     ( 385853.0, 3742879.0,       7.6,       7.6,       0.0);         ( 381453.0,
3743079.0,      13.0,      13.0,       0.0);
     ( 381653.0, 3743079.0,      12.5,      12.5,       0.0);         ( 381853.0,
```

```
3743079.0,      12.3,      12.3,       0.0);
     ( 382053.0, 3743079.0,      12.6,      12.6,       0.0);         ( 382253.0,
3743079.0,      11.4,      11.4,       0.0);
     ( 385053.0, 3743079.0,       8.4,       8.4,       0.0);         ( 385253.0,
3743079.0,       6.4,       6.4,       0.0);
     ( 385453.0, 3743079.0,       6.7,       6.7,       0.0);         ( 385653.0,
3743079.0,       6.8,       6.8,       0.0);
     ( 385853.0, 3743079.0,       7.2,       7.2,       0.0);         ( 381453.0,
3743279.0,      14.1,      14.1,       0.0);
     ( 381653.0, 3743279.0,      12.4,      12.4,       0.0);         ( 381853.0,
3743279.0,      12.1,      12.1,       0.0);
     ( 382053.0, 3743279.0,      11.9,      11.9,       0.0);         ( 382253.0,
3743279.0,      11.2,      11.2,       0.0);
     ( 385053.0, 3743279.0,       1.4,       8.5,       0.0);         ( 385253.0,
3743279.0,       6.3,       6.3,       0.0);
     ( 385453.0, 3743279.0,       6.7,       6.7,       0.0);         ( 385653.0,
3743279.0,       6.8,       6.8,       0.0);
     ( 385853.0, 3743279.0,       7.1,       7.1,       0.0);         ( 381453.0,
3743479.0,      12.7,      12.7,       0.0);

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        15:40:32

                                  PAGE  26
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                       (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                   (METERS)

     ( 381653.0, 3743479.0,      11.8,      11.8,       0.0);         ( 381853.0,
3743479.0,      11.9,      11.9,       0.0);
     ( 382053.0, 3743479.0,      11.5,      11.5,       0.0);         ( 382253.0,
3743479.0,      11.0,      11.0,       0.0);
     ( 385053.0, 3743479.0,       7.5,      14.1,       0.0);         ( 385253.0,
3743479.0,       7.0,      13.2,       0.0);
     ( 385453.0, 3743479.0,       7.0,       7.0,       0.0);         ( 385653.0,
3743479.0,       7.2,       7.2,       0.0);
     ( 385853.0, 3743479.0,       7.1,      13.9,       0.0);         ( 381453.0,
3743679.0,      12.8,      12.8,       0.0);
     ( 381653.0, 3743679.0,      12.4,      12.4,       0.0);         ( 381853.0,
3743679.0,      11.6,      11.6,       0.0);
     ( 382053.0, 3743679.0,      11.7,      11.7,       0.0);         ( 382253.0,
3743679.0,      10.9,      10.9,       0.0);
     ( 385053.0, 3743679.0,       7.3,       7.3,       0.0);         ( 385253.0,
3743679.0,       6.9,       6.9,       0.0);
     ( 385453.0, 3743679.0,       7.4,       7.4,       0.0);         ( 385653.0,
3743679.0,       7.6,       7.6,       0.0);
```

```
     ( 385853.0, 3743679.0,       8.1,       8.1,       0.0);         ( 381453.0,
3743879.0,      12.2,      12.2,       0.0);
     ( 381653.0, 3743879.0,      11.8,      11.8,       0.0);         ( 381853.0,
3743879.0,      11.6,      11.6,       0.0);
     ( 382053.0, 3743879.0,      11.3,      11.3,       0.0);         ( 382253.0,
3743879.0,      10.5,      10.5,       0.0);
     ( 385053.0, 3743879.0,       7.3,       7.3,       0.0);         ( 385253.0,
3743879.0,       7.6,       7.6,       0.0);
     ( 385453.0, 3743879.0,       6.6,       6.6,       0.0);         ( 385653.0,
3743879.0,       7.7,       7.7,       0.0);
     ( 385853.0, 3743879.0,       7.5,       7.5,       0.0);         ( 381453.0,
3744079.0,      12.2,      12.2,       0.0);
     ( 381653.0, 3744079.0,      11.4,      11.4,       0.0);         ( 381853.0,
3744079.0,      10.9,      10.9,       0.0);
     ( 382053.0, 3744079.0,      10.4,      10.4,       0.0);         ( 382253.0,
3744079.0,      10.4,      10.4,       0.0);
     ( 385053.0, 3744079.0,       7.9,       7.9,       0.0);         ( 385253.0,
3744079.0,       8.3,       8.3,       0.0);
     ( 385453.0, 3744079.0,       7.3,       7.3,       0.0);         ( 385653.0,
3744079.0,       7.4,       7.4,       0.0);
     ( 385853.0, 3744079.0,       8.4,       8.4,       0.0);         ( 381453.0,
3744279.0,      11.7,      11.7,       0.0);
     ( 381653.0, 3744279.0,      11.3,      11.3,       0.0);         ( 381853.0,
3744279.0,      10.9,      10.9,       0.0);
     ( 382053.0, 3744279.0,       9.5,       9.5,       0.0);         ( 382253.0,
3744279.0,       8.7,       8.7,       0.0);
     ( 385053.0, 3744279.0,       7.8,       7.8,       0.0);         ( 385253.0,
3744279.0,       8.0,       8.0,       0.0);
     ( 385453.0, 3744279.0,       8.3,       8.3,       0.0);         ( 385653.0,
3744279.0,       8.1,       8.1,       0.0);
     ( 385853.0, 3744279.0,       7.9,       7.9,       0.0);         ( 381453.0,
3744479.0,      11.2,      11.2,       0.0);
     ( 381653.0, 3744479.0,      10.6,      10.6,       0.0);         ( 381853.0,
3744479.0,      10.1,      10.1,       0.0);
     ( 382053.0, 3744479.0,       8.1,       8.1,       0.0);         ( 382253.0,
3744479.0,       6.3,       6.3,       0.0);
     ( 385053.0, 3744479.0,       8.3,       8.3,       0.0);         ( 385253.0,
3744479.0,       8.2,       8.2,       0.0);
     ( 385453.0, 3744479.0,       8.4,       8.4,       0.0);         ( 385653.0,
3744479.0,       8.1,       8.1,       0.0);
     ( 385853.0, 3744479.0,       8.4,       8.4,       0.0);         ( 381453.0,
3744679.0,      10.7,      10.7,       0.0);
     ( 381653.0, 3744679.0,       9.0,       9.0,       0.0);         ( 381853.0,
3744679.0,       9.0,       9.0,       0.0);
     ( 382053.0, 3744679.0,       8.9,       8.9,       0.0);         ( 382253.0,
3744679.0,       7.2,       7.2,       0.0);
     ( 385053.0, 3744679.0,       8.0,       8.0,       0.0);         ( 385253.0,
3744679.0,       8.4,       8.4,       0.0);
     ( 385453.0, 3744679.0,       7.9,       7.9,       0.0);         ( 385653.0,
3744679.0,       8.2,       8.2,       0.0);
```

```
     ( 385853.0, 3744679.0,       7.9,       7.9,       0.0);         ( 381453.0,
3744879.0,       9.8,       9.8,       0.0);
     ( 381653.0, 3744879.0,       8.7,       8.7,       0.0);         ( 381853.0,
3744879.0,       7.0,       7.0,       0.0);
     ( 382053.0, 3744879.0,       7.7,       7.7,       0.0);         ( 382253.0,
3744879.0,       7.3,       7.3,       0.0);
     ( 382453.0, 3744879.0,       7.0,       7.0,       0.0);         ( 382653.0,
3744879.0,       6.6,       6.6,       0.0);
     ( 382853.0, 3744879.0,       6.9,       6.9,       0.0);         ( 383053.0,
3744879.0,       6.9,       6.9,       0.0);
     ( 383253.0, 3744879.0,      11.4,      11.4,       0.0);         ( 383453.0,
3744879.0,       6.3,       6.3,       0.0);
     ( 383653.0, 3744879.0,       7.7,       7.7,       0.0);         ( 383853.0,
3744879.0,       5.0,       5.0,       0.0);
     ( 384053.0, 3744879.0,       4.3,       4.3,       0.0);         ( 384253.0,
3744879.0,       6.1,       6.1,       0.0);
     ( 384453.0, 3744879.0,       7.4,       7.4,       0.0);         ( 384653.0,
3744879.0,       7.0,       7.0,       0.0);
     ( 384853.0, 3744879.0,       7.3,       7.3,       0.0);         ( 385053.0,
3744879.0,       7.5,       7.5,       0.0);
     ( 385253.0, 3744879.0,       8.5,       8.5,       0.0);         ( 385453.0,
3744879.0,       8.3,       8.3,       0.0);

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        15:40:32

                                  PAGE  27
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                  (METERS)

     ( 385653.0, 3744879.0,       8.7,       8.7,       0.0);         ( 385853.0,
3744879.0,       8.9,       8.9,       0.0);
     ( 381453.0, 3745079.0,       9.2,       9.2,       0.0);         ( 381653.0,
3745079.0,       6.2,       6.2,       0.0);
     ( 381853.0, 3745079.0,       5.3,       5.3,       0.0);         ( 382053.0,
3745079.0,       6.2,       6.2,       0.0);
     ( 382253.0, 3745079.0,       5.2,      10.9,       0.0);         ( 382453.0,
3745079.0,       5.5,      10.4,       0.0);
     ( 382653.0, 3745079.0,       5.8,       9.9,       0.0);         ( 382853.0,
3745079.0,       6.5,      11.2,       0.0);
     ( 383053.0, 3745079.0,       9.0,      11.4,       0.0);         ( 383253.0,
3745079.0,       0.5,       0.5,       0.0);
     ( 383453.0, 3745079.0,       6.1,       6.1,       0.0);         ( 383653.0,
3745079.0,       6.1,       6.1,       0.0);
     ( 383853.0, 3745079.0,       6.4,       6.4,       0.0);         ( 384053.0,
```

```
3745079.0,       6.4,       6.4,       0.0);
     ( 384253.0, 3745079.0,       5.7,       5.7,       0.0);         ( 384453.0,
3745079.0,       7.0,       7.0,       0.0);
     ( 384653.0, 3745079.0,       7.2,       7.2,       0.0);         ( 384853.0,
3745079.0,       7.6,       7.6,       0.0);
     ( 385053.0, 3745079.0,       7.8,       7.8,       0.0);         ( 385253.0,
3745079.0,       7.9,       7.9,       0.0);
     ( 385453.0, 3745079.0,       8.1,       8.1,       0.0);         ( 385653.0,
3745079.0,       8.5,       8.5,       0.0);
     ( 385853.0, 3745079.0,       9.2,       9.2,       0.0);         ( 381453.0,
3745279.0,       8.9,       8.9,       0.0);
     ( 381653.0, 3745279.0,       7.0,       7.0,       0.0);         ( 381853.0,
3745279.0,       5.3,       5.3,       0.0);
     ( 382053.0, 3745279.0,      11.1,      11.1,       0.0);         ( 382253.0,
3745279.0,      10.3,      10.3,       0.0);
     ( 382453.0, 3745279.0,      11.3,      11.3,       0.0);         ( 382653.0,
3745279.0,       8.6,       8.6,       0.0);
     ( 382853.0, 3745279.0,       9.8,      10.8,       0.0);         ( 383053.0,
3745279.0,       0.7,       9.9,       0.0);
     ( 383253.0, 3745279.0,       6.1,       6.1,       0.0);         ( 383453.0,
3745279.0,       4.8,       4.8,       0.0);
     ( 383653.0, 3745279.0,       5.0,       5.0,       0.0);         ( 383853.0,
3745279.0,       5.2,       5.2,       0.0);
     ( 384053.0, 3745279.0,       5.4,       5.4,       0.0);         ( 384253.0,
3745279.0,       6.0,       6.0,       0.0);
     ( 384453.0, 3745279.0,       7.3,       7.3,       0.0);         ( 384653.0,
3745279.0,       7.2,       7.2,       0.0);
     ( 384853.0, 3745279.0,       7.5,       7.5,       0.0);         ( 385053.0,
3745279.0,       7.4,       7.4,       0.0);
     ( 385253.0, 3745279.0,       7.7,       7.7,       0.0);         ( 385453.0,
3745279.0,       7.7,       7.7,       0.0);
     ( 385653.0, 3745279.0,       8.4,       8.4,       0.0);         ( 385853.0,
3745279.0,       8.5,       8.5,       0.0);
     ( 381453.0, 3745479.0,       7.8,       7.8,       0.0);         ( 381653.0,
3745479.0,       7.1,       7.1,       0.0);
     ( 381853.0, 3745479.0,       6.6,       6.6,       0.0);         ( 382053.0,
3745479.0,      10.0,      10.0,       0.0);
     ( 382253.0, 3745479.0,      14.1,      14.1,       0.0);         ( 382453.0,
3745479.0,       9.5,       9.5,       0.0);
     ( 382653.0, 3745479.0,      11.7,      11.7,       0.0);         ( 382853.0,
3745479.0,       4.8,       7.3,       0.0);
     ( 383053.0, 3745479.0,       3.8,       3.8,       0.0);         ( 383253.0,
3745479.0,       4.6,       4.6,       0.0);
     ( 383453.0, 3745479.0,       4.6,       4.6,       0.0);         ( 383653.0,
3745479.0,       4.5,       4.5,       0.0);
     ( 383853.0, 3745479.0,       4.3,       4.3,       0.0);         ( 384053.0,
3745479.0,       4.5,       4.5,       0.0);
     ( 384253.0, 3745479.0,       5.7,       5.7,       0.0);         ( 384453.0,
3745479.0,       5.6,       5.6,       0.0);
     ( 384653.0, 3745479.0,       7.4,       7.4,       0.0);         ( 384853.0,
```

3745479.0,   7.2,   7.2,   0.0);
     (385053.0, 3745479.0,   7.4,   7.4,   0.0);   (385253.0,
3745479.0,   7.3,   7.3,   0.0);
     (385453.0, 3745479.0,   7.2,   7.2,   0.0);   (385653.0,
3745479.0,   8.4,   8.4,   0.0);
     (385853.0, 3745479.0,   8.7,   8.7,   0.0);   (381453.0,
3745679.0,   5.7,   8.2,   0.0);
     (381653.0, 3745679.0,   5.0,   9.7,   0.0);   (381853.0,
3745679.0,   8.3,   8.3,   0.0);
     (382053.0, 3745679.0,   8.2,   8.2,   0.0);   (382253.0,
3745679.0,   8.5,   8.5,   0.0);
     (382453.0, 3745679.0,   12.0,   15.9,   0.0);   (382653.0,
3745679.0,   7.7,   7.7,   0.0);
     (382853.0, 3745679.0,   4.6,   4.6,   0.0);   (383053.0,
3745679.0,   4.1,   4.1,   0.0);
     (383253.0, 3745679.0,   4.4,   4.4,   0.0);   (383453.0,
3745679.0,   4.0,   4.0,   0.0);
     (383653.0, 3745679.0,   3.6,   3.6,   0.0);   (383853.0,
3745679.0,   3.7,   3.7,   0.0);
     (384053.0, 3745679.0,   4.1,   4.1,   0.0);   (384253.0,
3745679.0,   5.0,   5.0,   0.0);
     (384453.0, 3745679.0,   5.8,   5.8,   0.0);   (384653.0,
3745679.0,   6.5,   6.5,   0.0);
     (384853.0, 3745679.0,   7.0,   7.0,   0.0);   (385053.0,
3745679.0,   7.2,   7.2,   0.0);

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                    (METERS)

     (385253.0, 3745679.0,   6.9,   6.9,   0.0);   (385453.0,
3745679.0,   7.6,   7.6,   0.0);
     (385653.0, 3745679.0,   8.2,   8.2,   0.0);   (385853.0,
3745679.0,   7.1,   7.1,   0.0);
     (381453.0, 3745879.0,   9.0,   9.0,   0.0);   (381653.0,
3745879.0,   8.0,   8.0,   0.0);
     (381853.0, 3745879.0,   8.7,   8.7,   0.0);   (382053.0,
3745879.0,   8.4,   8.4,   0.0);
     (382253.0, 3745879.0,   8.9,   8.9,   0.0);   (382453.0,
3745879.0,   7.1,   7.1,   0.0);
     (382653.0, 3745879.0,   4.3,   12.0,   0.0);   (382853.0,
3745879.0,   5.0,   5.0,   0.0);

```
     ( 383053.0, 3745879.0,       4.0,       4.0,       0.0);         ( 383253.0,
3745879.0,       3.6,       3.6,       0.0);
     ( 383453.0, 3745879.0,       4.3,       4.3,       0.0);         ( 383653.0,
3745879.0,       4.7,       4.7,       0.0);
     ( 383853.0, 3745879.0,       5.0,       5.0,       0.0);         ( 384053.0,
3745879.0,       5.5,       5.5,       0.0);
     ( 384253.0, 3745879.0,       5.8,       5.8,       0.0);         ( 384453.0,
3745879.0,       5.9,       5.9,       0.0);
     ( 384653.0, 3745879.0,       6.5,       6.5,       0.0);         ( 384853.0,
3745879.0,       6.8,       6.8,       0.0);
     ( 385053.0, 3745879.0,       6.9,       6.9,       0.0);         ( 385253.0,
3745879.0,       7.2,       7.2,       0.0);
     ( 385453.0, 3745879.0,       7.6,       7.6,       0.0);         ( 385653.0,
3745879.0,       8.1,       8.1,       0.0);
     ( 385853.0, 3745879.0,       9.2,       9.2,       0.0);         ( 378453.0,
3738679.0,      64.5,     108.0,       0.0);
     ( 378953.0, 3738679.0,      61.3,      61.3,       0.0);         ( 379453.0,
3738679.0,      39.9,      39.9,       0.0);
     ( 379953.0, 3738679.0,      19.9,      19.9,       0.0);         ( 380453.0,
3738679.0,       3.8,       3.8,       0.0);
     ( 380953.0, 3738679.0,       3.0,       3.0,       0.0);         ( 381453.0,
3738679.0,      12.1,      12.1,       0.0);
     ( 381953.0, 3738679.0,       7.1,       7.1,       0.0);         ( 382453.0,
3738679.0,      10.4,      10.4,       0.0);
     ( 382953.0, 3738679.0,       8.8,       8.8,       0.0);         ( 383453.0,
3738679.0,       7.7,       7.7,       0.0);
     ( 383953.0, 3738679.0,       5.5,       5.5,       0.0);         ( 384453.0,
3738679.0,       4.3,       4.3,       0.0);
     ( 384953.0, 3738679.0,       4.2,       4.2,       0.0);         ( 385453.0,
3738679.0,       0.6,       0.6,       0.0);
     ( 385953.0, 3738679.0,       2.6,       2.6,       0.0);         ( 386453.0,
3738679.0,       2.3,       2.3,       0.0);
     ( 386953.0, 3738679.0,       2.2,      10.3,       0.0);         ( 387453.0,
3738679.0,       2.6,       2.6,       0.0);
     ( 387953.0, 3738679.0,       2.8,       2.8,       0.0);         ( 388453.0,
3738679.0,       1.8,       4.7,       0.0);
     ( 388953.0, 3738679.0,       4.8,       4.8,       0.0);         ( 378453.0,
3739179.0,      43.5,      43.5,       0.0);
     ( 378953.0, 3739179.0,      28.2,      51.5,       0.0);         ( 379453.0,
3739179.0,      16.6,      16.6,       0.0);
     ( 379953.0, 3739179.0,      10.6,      10.6,       0.0);         ( 380453.0,
3739179.0,      10.4,      14.2,       0.0);
     ( 380953.0, 3739179.0,       8.7,       8.7,       0.0);         ( 381453.0,
3739179.0,       9.3,      14.8,       0.0);
     ( 381953.0, 3739179.0,       9.1,       9.1,       0.0);         ( 382453.0,
3739179.0,      12.4,      12.4,       0.0);
     ( 382953.0, 3739179.0,      12.0,      12.0,       0.0);         ( 383453.0,
3739179.0,      10.4,      10.4,       0.0);
     ( 383953.0, 3739179.0,       9.5,       9.5,       0.0);         ( 384453.0,
3739179.0,       7.7,       7.7,       0.0);
```

```
     ( 384953.0, 3739179.0,       6.8,       6.8,       0.0);         ( 385453.0,
3739179.0,       6.3,       6.3,       0.0);
     ( 385953.0, 3739179.0,       4.4,       4.4,       0.0);         ( 386453.0,
3739179.0,       3.8,       3.8,       0.0);
     ( 386953.0, 3739179.0,       2.5,       2.5,       0.0);         ( 387453.0,
3739179.0,       3.1,       3.1,       0.0);
     ( 387953.0, 3739179.0,       3.0,       3.0,       0.0);         ( 388453.0,
3739179.0,       1.1,       5.1,       0.0);
     ( 388953.0, 3739179.0,       2.9,       2.9,       0.0);         ( 378453.0,
3739679.0,      30.3,      30.3,       0.0);
     ( 378953.0, 3739679.0,      24.9,      24.9,       0.0);         ( 379453.0,
3739679.0,      18.5,      18.5,       0.0);
     ( 379953.0, 3739679.0,      14.9,      14.9,       0.0);         ( 380453.0,
3739679.0,       5.9,       5.9,       0.0);
     ( 380953.0, 3739679.0,       6.3,       6.3,       0.0);         ( 381453.0,
3739679.0,       7.8,       7.8,       0.0);
     ( 381953.0, 3739679.0,      11.9,      11.9,       0.0);         ( 382453.0,
3739679.0,      10.2,      10.2,       0.0);
     ( 382953.0, 3739679.0,      12.8,      12.8,       0.0);         ( 383453.0,
3739679.0,      13.3,      13.3,       0.0);
     ( 383953.0, 3739679.0,      10.7,      10.7,       0.0);         ( 384453.0,
3739679.0,      10.4,      10.4,       0.0);
     ( 384953.0, 3739679.0,      10.9,      10.9,       0.0);         ( 385453.0,
3739679.0,       8.7,       8.7,       0.0);
     ( 385953.0, 3739679.0,       3.1,       3.1,       0.0);         ( 386453.0,
3739679.0,       3.7,       3.7,       0.0);
     ( 386953.0, 3739679.0,       3.3,       3.3,       0.0);         ( 387453.0,
3739679.0,       4.1,       4.1,       0.0);

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        15:40:32

                                  PAGE  29
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                            *** DISCRETE CARTESIAN RECEPTORS ***
                                          (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                       (METERS)

     ( 387953.0, 3739679.0,       3.8,       3.8,       0.0);         ( 388453.0,
3739679.0,       1.6,       5.9,       0.0);
     ( 388953.0, 3739679.0,       4.2,       4.2,       0.0);         ( 378453.0,
3740179.0,      21.9,      21.9,       0.0);
     ( 378953.0, 3740179.0,      22.6,      22.6,       0.0);         ( 379453.0,
3740179.0,      22.4,      22.4,       0.0);
     ( 379953.0, 3740179.0,      15.9,      15.9,       0.0);         ( 380453.0,
3740179.0,      16.1,      16.1,       0.0);
     ( 380953.0, 3740179.0,       8.7,       8.7,       0.0);         ( 381453.0,
```

3740179.0,   10.8,   10.8,   0.0);
     (381953.0, 3740179.0,   11.8,   11.8,   0.0);   (382453.0,
3740179.0,   12.0,   12.0,   0.0);
     (382953.0, 3740179.0,   11.1,   11.1,   0.0);   (383453.0,
3740179.0,   10.9,   10.9,   0.0);
     (383953.0, 3740179.0,   11.8,   21.1,   0.0);   (384453.0,
3740179.0,   16.1,   16.1,   0.0);
     (384953.0, 3740179.0,   12.6,   12.6,   0.0);   (385453.0,
3740179.0,   6.0,   6.0,   0.0);
     (385953.0, 3740179.0,   3.8,   3.8,   0.0);   (386453.0,
3740179.0,   4.8,   4.8,   0.0);
     (386953.0, 3740179.0,   4.5,   4.5,   0.0);   (387453.0,
3740179.0,   4.7,   4.7,   0.0);
     (387953.0, 3740179.0,   4.7,   4.7,   0.0);   (388453.0,
3740179.0,   1.6,   6.3,   0.0);
     (388953.0, 3740179.0,   4.8,   4.8,   0.0);   (378453.0,
3740679.0,   18.8,   18.8,   0.0);
     (378953.0, 3740679.0,   16.1,   16.1,   0.0);   (379453.0,
3740679.0,   16.9,   16.9,   0.0);
     (379953.0, 3740679.0,   19.8,   19.8,   0.0);   (380453.0,
3740679.0,   15.3,   15.3,   0.0);
     (380953.0, 3740679.0,   10.4,   10.4,   0.0);   (381453.0,
3740679.0,   11.0,   11.0,   0.0);
     (381953.0, 3740679.0,   11.4,   11.4,   0.0);   (382453.0,
3740679.0,   13.5,   13.5,   0.0);
     (382953.0, 3740679.0,   14.0,   14.0,   0.0);   (383453.0,
3740679.0,   13.3,   13.3,   0.0);
     (383953.0, 3740679.0,   13.6,   13.6,   0.0);   (384453.0,
3740679.0,   13.9,   13.9,   0.0);
     (384953.0, 3740679.0,   12.3,   12.3,   0.0);   (385453.0,
3740679.0,   12.6,   12.6,   0.0);
     (385953.0, 3740679.0,   12.1,   12.1,   0.0);   (386453.0,
3740679.0,   5.0,   5.0,   0.0);
     (386953.0, 3740679.0,   5.9,   5.9,   0.0);   (387453.0,
3740679.0,   6.0,   6.0,   0.0);
     (387953.0, 3740679.0,   5.3,   5.3,   0.0);   (388453.0,
3740679.0,   2.3,   6.7,   0.0);
     (388953.0, 3740679.0,   5.4,   5.4,   0.0);   (378453.0,
3741179.0,   23.0,   23.0,   0.0);
     (378953.0, 3741179.0,   20.0,   20.0,   0.0);   (379453.0,
3741179.0,   16.0,   16.0,   0.0);
     (379953.0, 3741179.0,   18.0,   18.0,   0.0);   (380453.0,
3741179.0,   16.2,   16.2,   0.0);
     (380953.0, 3741179.0,   9.9,   9.9,   0.0);   (381453.0,
3741179.0,   13.5,   13.5,   0.0);
     (381953.0, 3741179.0,   12.5,   12.5,   0.0);   (382453.0,
3741179.0,   11.2,   11.2,   0.0);
     (382953.0, 3741179.0,   13.6,   13.6,   0.0);   (383453.0,
3741179.0,   13.1,   13.1,   0.0);
     (383953.0, 3741179.0,   10.3,   13.2,   0.0);   (384453.0,

3741179.0,   14.8,   16.9,   0.0);
     (384953.0, 3741179.0,   11.8,   11.8,   0.0);   (385453.0,
3741179.0,   10.1,   10.1,   0.0);
     (385953.0, 3741179.0,   11.0,   11.0,   0.0);   (386453.0,
3741179.0,   5.3,   5.3,   0.0);
     (386953.0, 3741179.0,   6.4,   6.4,   0.0);   (387453.0,
3741179.0,   6.9,   6.9,   0.0);
     (387953.0, 3741179.0,   6.0,   6.0,   0.0);   (388453.0,
3741179.0,   3.2,   11.0,   0.0);
     (388953.0, 3741179.0,   5.9,   5.9,   0.0);   (378453.0,
3741679.0,   23.0,   23.0,   0.0);
     (378953.0, 3741679.0,   21.5,   21.5,   0.0);   (379453.0,
3741679.0,   19.2,   19.2,   0.0);
     (379953.0, 3741679.0,   13.3,   13.3,   0.0);   (380453.0,
3741679.0,   8.2,   10.5,   0.0);
     (380953.0, 3741679.0,   8.6,   8.6,   0.0);   (385953.0,
3741679.0,   5.7,   5.7,   0.0);
     (386453.0, 3741679.0,   6.1,   6.1,   0.0);   (386953.0,
3741679.0,   7.1,   7.1,   0.0);
     (387453.0, 3741679.0,   7.0,   7.0,   0.0);   (387953.0,
3741679.0,   6.6,   6.6,   0.0);
     (388453.0, 3741679.0,   3.7,   7.9,   0.0);   (388953.0,
3741679.0,   6.7,   6.7,   0.0);
     (378453.0, 3742179.0,   23.3,   23.3,   0.0);   (378953.0,
3742179.0,   19.9,   19.9,   0.0);
     (379453.0, 3742179.0,   17.6,   17.6,   0.0);   (379953.0,
3742179.0,   17.3,   17.3,   0.0);
     (380453.0, 3742179.0,   14.4,   14.4,   0.0);   (380953.0,
3742179.0,   10.8,   10.8,   0.0);
     (385953.0, 3742179.0,   6.3,   6.3,   0.0);   (386453.0,
3742179.0,   8.5,   8.5,   0.0);

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                  (METERS)

     (386953.0, 3742179.0,   7.4,   7.4,   0.0);   (387453.0,
3742179.0,   8.1,   8.1,   0.0);
     (387953.0, 3742179.0,   7.6,   7.6,   0.0);   (388453.0,
3742179.0,   4.3,   8.4,   0.0);
     (388953.0, 3742179.0,   7.6,   7.6,   0.0);   (378453.0,
3742679.0,   21.5,   21.5,   0.0);

```
     ( 378953.0, 3742679.0,      19.3,      19.3,       0.0);         ( 379453.0,
3742679.0,      18.1,      18.1,       0.0);
     ( 379953.0, 3742679.0,      15.6,      15.6,       0.0);         ( 380453.0,
3742679.0,      13.1,      13.1,       0.0);
     ( 380953.0, 3742679.0,      12.1,      12.1,       0.0);         ( 385953.0,
3742679.0,       7.1,       7.1,       0.0);
     ( 386453.0, 3742679.0,       7.9,       9.6,       0.0);         ( 386953.0,
3742679.0,       7.9,       7.9,       0.0);
     ( 387453.0, 3742679.0,       8.5,       8.5,       0.0);         ( 387953.0,
3742679.0,       8.3,       8.3,       0.0);
     ( 388453.0, 3742679.0,       4.8,      11.3,       0.0);         ( 388953.0,
3742679.0,       9.6,       9.6,       0.0);
     ( 378453.0, 3743179.0,      24.0,      24.0,       0.0);         ( 378953.0,
3743179.0,      17.7,      17.7,       0.0);
     ( 379453.0, 3743179.0,      16.1,      16.1,       0.0);         ( 379953.0,
3743179.0,      14.6,      14.6,       0.0);
     ( 380453.0, 3743179.0,      12.8,      12.8,       0.0);         ( 380953.0,
3743179.0,      12.9,      12.9,       0.0);
     ( 385953.0, 3743179.0,       7.6,       7.6,       0.0);         ( 386453.0,
3743179.0,       8.0,       8.0,       0.0);
     ( 386953.0, 3743179.0,       7.9,       7.9,       0.0);         ( 387453.0,
3743179.0,       8.7,       8.7,       0.0);
     ( 387953.0, 3743179.0,       8.9,       8.9,       0.0);         ( 388453.0,
3743179.0,       5.3,      12.1,       0.0);
     ( 388953.0, 3743179.0,      20.3,      27.9,       0.0);         ( 378453.0,
3743679.0,      20.4,      20.4,       0.0);
     ( 378953.0, 3743679.0,      19.2,      19.2,       0.0);         ( 379453.0,
3743679.0,      16.7,      16.7,       0.0);
     ( 379953.0, 3743679.0,      14.4,      14.4,       0.0);         ( 380453.0,
3743679.0,      12.9,      12.9,       0.0);
     ( 380953.0, 3743679.0,      13.1,      13.1,       0.0);         ( 385953.0,
3743679.0,       7.9,       7.9,       0.0);
     ( 386453.0, 3743679.0,       8.7,       8.7,       0.0);         ( 386953.0,
3743679.0,       8.5,       8.5,       0.0);
     ( 387453.0, 3743679.0,       5.7,      10.5,       0.0);         ( 387953.0,
3743679.0,       9.9,      20.8,       0.0);
     ( 388453.0, 3743679.0,       5.9,      18.2,       0.0);         ( 388953.0,
3743679.0,      22.9,      22.9,       0.0);
     ( 378453.0, 3744179.0,      21.0,      21.0,       0.0);         ( 378953.0,
3744179.0,      18.3,      18.3,       0.0);
     ( 379453.0, 3744179.0,      16.1,      16.1,       0.0);         ( 379953.0,
3744179.0,      13.6,      13.6,       0.0);
     ( 380453.0, 3744179.0,      13.7,      13.7,       0.0);         ( 380953.0,
3744179.0,      13.2,      13.2,       0.0);
     ( 385953.0, 3744179.0,       8.1,       8.1,       0.0);         ( 386453.0,
3744179.0,      10.9,      17.9,       0.0);
     ( 386953.0, 3744179.0,       9.0,       9.0,       0.0);         ( 387453.0,
3744179.0,       9.6,       9.6,       0.0);
     ( 387953.0, 3744179.0,      10.0,      10.0,       0.0);         ( 388453.0,
3744179.0,      11.0,      14.7,       0.0);
```

```
     ( 388953.0, 3744179.0,      29.1,      29.1,       0.0);         ( 378453.0,
3744679.0,      21.0,      21.0,       0.0);
     ( 378953.0, 3744679.0,      16.4,      16.4,       0.0);         ( 379453.0,
3744679.0,      10.6,      15.4,       0.0);
     ( 379953.0, 3744679.0,       8.4,       8.4,       0.0);         ( 380453.0,
3744679.0,       6.6,       6.6,       0.0);
     ( 380953.0, 3744679.0,      12.6,      12.6,       0.0);         ( 385953.0,
3744679.0,       8.1,       8.1,       0.0);
     ( 386453.0, 3744679.0,       9.0,       9.0,       0.0);         ( 386953.0,
3744679.0,       9.5,       9.5,       0.0);
     ( 387453.0, 3744679.0,      10.1,      10.1,       0.0);         ( 387953.0,
3744679.0,      11.2,      11.2,       0.0);
     ( 388453.0, 3744679.0,      11.3,      11.3,       0.0);         ( 388953.0,
3744679.0,      11.2,      11.2,       0.0);
     ( 378453.0, 3745179.0,      20.6,      20.6,       0.0);         ( 378953.0,
3745179.0,      15.6,      15.6,       0.0);
     ( 379453.0, 3745179.0,      13.9,      13.9,       0.0);         ( 379953.0,
3745179.0,      12.9,      12.9,       0.0);
     ( 380453.0, 3745179.0,       7.9,       7.9,       0.0);         ( 380953.0,
3745179.0,      13.2,      13.2,       0.0);
     ( 385953.0, 3745179.0,       9.1,       9.1,       0.0);         ( 386453.0,
3745179.0,       9.7,       9.7,       0.0);
     ( 386953.0, 3745179.0,      10.8,      10.8,       0.0);         ( 387453.0,
3745179.0,      10.9,      10.9,       0.0);
     ( 387953.0, 3745179.0,      11.5,      11.5,       0.0);         ( 388453.0,
3745179.0,      13.3,      13.3,       0.0);
     ( 388953.0, 3745179.0,      13.2,      17.7,       0.0);         ( 378453.0,
3745679.0,      15.2,      15.2,       0.0);
     ( 378953.0, 3745679.0,      17.7,      17.7,       0.0);         ( 379453.0,
3745679.0,      14.1,      14.1,       0.0);
     ( 379953.0, 3745679.0,       9.3,       9.3,       0.0);         ( 380453.0,
3745679.0,       7.2,       7.2,       0.0);
     ( 380953.0, 3745679.0,       8.2,       8.2,       0.0);         ( 385953.0,
3745679.0,       8.4,       8.4,       0.0);

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        15:40:32

                                PAGE  31
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                  (METERS)

     ( 386453.0, 3745679.0,       9.9,       9.9,       0.0);         ( 386953.0,
3745679.0,      11.0,      11.0,       0.0);
     ( 387453.0, 3745679.0,      11.7,      11.7,       0.0);         ( 387953.0,
```

```
3745679.0,      12.1,      12.1,       0.0);
     ( 388453.0, 3745679.0,      19.6,      19.6,       0.0);         ( 388953.0,
3745679.0,      11.3,      11.3,       0.0);
     ( 378453.0, 3746179.0,      16.2,      16.2,       0.0);         ( 378953.0,
3746179.0,      17.0,      17.0,       0.0);
     ( 379453.0, 3746179.0,      16.2,      16.2,       0.0);         ( 379953.0,
3746179.0,      13.6,      13.6,       0.0);
     ( 380453.0, 3746179.0,      10.9,      10.9,       0.0);         ( 380953.0,
3746179.0,       8.1,       8.1,       0.0);
     ( 381453.0, 3746179.0,       8.7,       8.7,       0.0);         ( 381953.0,
3746179.0,       9.2,       9.2,       0.0);
     ( 382453.0, 3746179.0,       5.7,       5.7,       0.0);         ( 382953.0,
3746179.0,       5.1,       9.5,       0.0);
     ( 383453.0, 3746179.0,       4.0,       4.0,       0.0);         ( 383953.0,
3746179.0,       4.5,       4.5,       0.0);
     ( 384453.0, 3746179.0,       4.9,       4.9,       0.0);         ( 384953.0,
3746179.0,       6.5,       6.5,       0.0);
     ( 385453.0, 3746179.0,       9.0,       9.0,       0.0);         ( 385953.0,
3746179.0,      12.7,      12.7,       0.0);
     ( 386453.0, 3746179.0,      13.1,      13.1,       0.0);         ( 386953.0,
3746179.0,      13.1,      13.1,       0.0);
     ( 387453.0, 3746179.0,      12.1,      12.1,       0.0);         ( 387953.0,
3746179.0,      10.5,      16.1,       0.0);
     ( 388453.0, 3746179.0,      12.7,      12.7,       0.0);         ( 388953.0,
3746179.0,      13.5,      13.5,       0.0);
     ( 378453.0, 3746679.0,      19.4,      19.4,       0.0);         ( 378953.0,
3746679.0,      18.5,      18.5,       0.0);
     ( 379453.0, 3746679.0,      17.2,      17.2,       0.0);         ( 379953.0,
3746679.0,      14.8,      14.8,       0.0);
     ( 380453.0, 3746679.0,      11.7,      11.7,       0.0);         ( 380953.0,
3746679.0,       9.7,       9.7,       0.0);
     ( 381453.0, 3746679.0,      15.1,      15.1,       0.0);         ( 381953.0,
3746679.0,       6.6,       6.6,       0.0);
     ( 382453.0, 3746679.0,       9.8,       9.8,       0.0);         ( 382953.0,
3746679.0,       6.1,       6.1,       0.0);
     ( 383453.0, 3746679.0,       7.2,       7.2,       0.0);         ( 383953.0,
3746679.0,       7.0,       7.0,       0.0);
     ( 384453.0, 3746679.0,      11.3,      11.3,       0.0);         ( 384953.0,
3746679.0,      19.3,      19.3,       0.0);
     ( 385453.0, 3746679.0,      28.7,      28.7,       0.0);         ( 385953.0,
3746679.0,      33.1,      43.1,       0.0);
     ( 386453.0, 3746679.0,      47.3,      47.3,       0.0);         ( 386953.0,
3746679.0,      50.3,      50.3,       0.0);
     ( 387453.0, 3746679.0,      14.2,      14.2,       0.0);         ( 387953.0,
3746679.0,      13.5,      13.5,       0.0);
     ( 388453.0, 3746679.0,      13.8,      13.8,       0.0);         ( 388953.0,
3746679.0,       9.6,      16.5,       0.0);
     ( 378453.0, 3747179.0,      20.3,      20.3,       0.0);         ( 378953.0,
3747179.0,      18.8,      18.8,       0.0);
     ( 379453.0, 3747179.0,      16.5,      16.5,       0.0);         ( 379953.0,
```

```
3747179.0,      14.1,      14.1,       0.0);
     ( 380453.0, 3747179.0,      12.0,      12.0,       0.0);         ( 380953.0,
3747179.0,      17.7,      17.7,       0.0);
     ( 381453.0, 3747179.0,       2.4,       8.3,       0.0);         ( 381953.0,
3747179.0,       7.7,       7.7,       0.0);
     ( 382453.0, 3747179.0,       7.7,       7.7,       0.0);         ( 382953.0,
3747179.0,       7.5,       7.5,       0.0);
     ( 383453.0, 3747179.0,      10.9,      16.8,       0.0);         ( 383953.0,
3747179.0,      18.3,      18.3,       0.0);
     ( 384453.0, 3747179.0,      27.5,      27.5,       0.0);         ( 384953.0,
3747179.0,      47.1,      47.1,       0.0);
     ( 385453.0, 3747179.0,      50.9,      50.9,       0.0);         ( 385953.0,
3747179.0,      53.9,      53.9,       0.0);
     ( 386453.0, 3747179.0,      53.0,      61.5,       0.0);         ( 386953.0,
3747179.0,      48.8,      55.2,       0.0);
     ( 387453.0, 3747179.0,      15.1,      15.1,       0.0);         ( 387953.0,
3747179.0,      14.6,      14.6,       0.0);
     ( 388453.0, 3747179.0,      14.2,      14.2,       0.0);         ( 388953.0,
3747179.0,      14.7,      14.7,       0.0);
     ( 378453.0, 3747679.0,      18.8,      18.8,       0.0);         ( 378953.0,
3747679.0,      17.3,      17.3,       0.0);
     ( 379453.0, 3747679.0,      15.8,      15.8,       0.0);         ( 379953.0,
3747679.0,      14.3,      14.3,       0.0);
     ( 380453.0, 3747679.0,      12.0,      12.0,       0.0);         ( 380953.0,
3747679.0,      12.1,      13.3,       0.0);
     ( 381453.0, 3747679.0,       8.7,       8.7,       0.0);         ( 381953.0,
3747679.0,       8.3,       8.3,       0.0);
     ( 382453.0, 3747679.0,       7.1,       7.1,       0.0);         ( 382953.0,
3747679.0,       9.6,       9.6,       0.0);
     ( 383453.0, 3747679.0,      24.3,      24.3,       0.0);         ( 383953.0,
3747679.0,      31.2,      31.2,       0.0);
     ( 384453.0, 3747679.0,      45.4,      45.4,       0.0);         ( 384953.0,
3747679.0,      44.0,      55.3,       0.0);
     ( 385453.0, 3747679.0,      59.5,      59.5,       0.0);         ( 385953.0,
3747679.0,      56.3,      56.3,       0.0);
     ( 386453.0, 3747679.0,      47.6,      47.6,       0.0);         ( 386953.0,
3747679.0,      30.9,      58.8,       0.0);

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        15:40:32

                                  PAGE  32
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                                *** DISCRETE CARTESIAN RECEPTORS ***
                                              (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                          (METERS)
```

```
     ( 387453.0, 3747679.0,      16.7,      16.7,       0.0);         ( 387953.0,
3747679.0,      15.6,      15.6,       0.0);
     ( 388453.0, 3747679.0,      15.4,      15.4,       0.0);         ( 388953.0,
3747679.0,      16.0,      16.0,       0.0);
     ( 378453.0, 3748179.0,      16.2,      16.2,       0.0);         ( 378953.0,
3748179.0,      16.1,      16.1,       0.0);
     ( 379453.0, 3748179.0,      14.7,      14.7,       0.0);         ( 379953.0,
3748179.0,      13.7,      13.7,       0.0);
     ( 380453.0, 3748179.0,      10.8,      10.8,       0.0);         ( 380953.0,
3748179.0,       9.5,       9.5,       0.0);
     ( 381453.0, 3748179.0,       8.3,       8.3,       0.0);         ( 381953.0,
3748179.0,       9.0,       9.0,       0.0);
     ( 382453.0, 3748179.0,       8.0,       8.0,       0.0);         ( 382953.0,
3748179.0,      15.9,      15.9,       0.0);
     ( 383453.0, 3748179.0,      26.7,      26.7,       0.0);         ( 383953.0,
3748179.0,      33.7,      33.7,       0.0);
     ( 384453.0, 3748179.0,      48.3,      48.3,       0.0);         ( 384953.0,
3748179.0,      53.6,      53.6,       0.0);
     ( 385453.0, 3748179.0,      52.2,      52.2,       0.0);         ( 385953.0,
3748179.0,      46.4,      46.4,       0.0);
     ( 386453.0, 3748179.0,      36.2,      36.2,       0.0);         ( 386953.0,
3748179.0,      27.9,      27.9,       0.0);
     ( 387453.0, 3748179.0,      21.1,      21.1,       0.0);         ( 387953.0,
3748179.0,      16.9,      16.9,       0.0);
     ( 388453.0, 3748179.0,      16.1,      16.1,       0.0);         ( 388953.0,
3748179.0,      16.7,      16.7,       0.0);
     ( 378453.0, 3748679.0,      14.9,      14.9,       0.0);         ( 378953.0,
3748679.0,       8.6,       9.2,       0.0);
     ( 379453.0, 3748679.0,       8.6,       8.6,       0.0);         ( 379953.0,
3748679.0,       8.5,       8.5,       0.0);
     ( 380453.0, 3748679.0,       8.0,       8.0,       0.0);         ( 380953.0,
3748679.0,      15.9,      15.9,       0.0);
     ( 381453.0, 3748679.0,       8.6,       8.6,       0.0);         ( 381953.0,
3748679.0,       9.3,       9.3,       0.0);
     ( 382453.0, 3748679.0,      12.6,      20.2,       0.0);         ( 382953.0,
3748679.0,      13.8,      13.8,       0.0);
     ( 383453.0, 3748679.0,      23.5,      23.5,       0.0);         ( 383953.0,
3748679.0,      28.4,      28.4,       0.0);
     ( 384453.0, 3748679.0,      41.4,      41.4,       0.0);         ( 384953.0,
3748679.0,      40.0,      40.0,       0.0);
     ( 385453.0, 3748679.0,      41.4,      43.6,       0.0);         ( 385953.0,
3748679.0,      31.4,      31.4,       0.0);
     ( 386453.0, 3748679.0,      28.4,      28.4,       0.0);         ( 386953.0,
3748679.0,      22.7,      22.7,       0.0);
     ( 387453.0, 3748679.0,      18.1,      23.9,       0.0);         ( 387953.0,
3748679.0,      17.7,      17.7,       0.0);
     ( 388453.0, 3748679.0,      17.4,      26.2,       0.0);         ( 388953.0,
3748679.0,      24.6,      25.2,       0.0);
     ( 383403.6, 3743811.2,       7.6,       7.6,       0.0);         ( 383435.0,
3743828.0,       7.5,       7.5,       0.0);
```

```
     ( 383402.5, 3743847.0,       7.7,       7.7,       0.0);         ( 383440.5,
3743859.5,       7.4,       7.4,       0.0);
     ( 383407.9, 3743900.2,       7.4,       7.4,       0.0);         ( 383370.5,
3743907.2,       7.3,       7.3,       0.0);
     ( 383517.5, 3743913.2,       7.6,       7.6,       0.0);         ( 383555.5,
3743914.3,       7.6,       7.6,       0.0);
     ( 383597.2, 3744004.3,       7.7,       7.7,       0.0);         ( 383583.7,
3743978.3,       7.7,       7.7,       0.0);
     ( 383540.3, 3743981.0,       7.5,       7.5,       0.0);         ( 383502.9,
3743982.6,       7.3,       7.3,       0.0);
     ( 383501.2, 3744030.4,       7.2,       7.2,       0.0);         ( 383501.8,
3744065.6,       7.2,       7.2,       0.0);
     ( 383502.9, 3744098.7,       7.2,       7.2,       0.0);         ( 383530.5,
3744138.9,       6.9,       6.9,       0.0);
     ( 383553.8, 3744161.7,       6.5,       6.5,       0.0);         ( 383605.4,
3744148.1,       6.3,       6.3,       0.0);
     ( 383575.0, 3744160.6,       6.7,       6.7,       0.0);         ( 383509.4,
3744139.4,       6.8,       6.8,       0.0);
     ( 383384.1, 3743907.2,       7.3,       7.3,       0.0);


 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        15:40:32

                                  PAGE  33
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                              *** METEOROLOGICAL DAYS SELECTED FOR
PROCESSING ***
                                                                  (1=YES; 0=NO)

           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1

               NOTE:  METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON
```

WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: klgb_sfc_pfl\KLGB_V11_trimmed.sfc
Met Version: 22112
Profile file: klgb_sfc_pfl\KLGB_V11_trimmed.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 23129 Upper air station no.: 3190
Name: LONG_BEACH/DAUGHTERY_FIELD/AIRPORT Name: UNKNOWN

Year: 2015 Year: 2015

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
15	01	01	1	01	-5.1	0.092	-9.000	-9.000	-999.	67.	13.8	0.10	2.80	1.00	1.11	68.	7.9	278.1	2.0
15	01	01	1	02	-3.0	0.069	-9.000	-9.000	-999.	43.	10.0	0.04	2.80	1.00	0.97	292.	7.9	277.0	2.0
15	01	01	1	03	-6.3	0.106	-9.000	-9.000	-999.	83.	17.1	0.26	2.80	1.00	0.96	36.	7.9	277.0	2.0
15	01	01	1	04	-3.6	0.074	-9.000	-9.000	-999.	48.	10.1	0.03	2.80	1.00	1.14	327.	7.9	277.0	2.0
15	01	01	1	05	-5.3	0.089	-9.000	-9.000	-999.	63.	11.9	0.03	2.80	1.00	1.40	336.	7.9	275.9	2.0

```
 15 01 01   1 06   -2.4  0.063 -9.000 -9.000 -999.   38.      9.2  0.03   2.80
1.00    0.91  331.    7.9  275.9    2.0
 15 01 01   1 07   -5.5  0.091 -9.000 -9.000 -999.   66.     12.2  0.03   2.80
1.00    1.43  334.    7.9  275.9    2.0
 15 01 01   1 08   -8.0  0.128 -9.000 -9.000 -999.  110.     23.9  0.32   2.80
0.54    1.06   19.    7.9  277.0    2.0
 15 01 01   1 09   35.4  0.235  0.419  0.005   75.  273.    -33.3  0.26   2.80
0.31    1.72   34.    7.9  280.3    2.0
 15 01 01   1 10  107.7  0.338  0.964  0.005  303.  472.    -32.7  0.26   2.80
0.24    2.47   49.    7.9  283.1    2.0
 15 01 01   1 11  158.7  0.344  1.624  0.005  984.  483.    -23.3  0.10   2.80
0.21    3.22   69.    7.9  285.9    2.0
 15 01 01   1 12  183.1  0.240  1.811  0.005 1180.  288.     -6.9  0.10   2.80
0.20    1.94   65.    7.9  285.9    2.0
 15 01 01   1 13  182.2  0.203  1.892  0.005 1353.  220.     -4.2  0.10   2.80
0.20    1.52   64.    7.9  287.5    2.0
 15 01 01   1 14  154.0  0.343  1.832  0.005 1453.  482.    -23.7  0.22   2.80
0.21    2.55  199.    7.9  287.0    2.0
 15 01 01   1 15  101.0  0.367  1.614  0.005 1515.  534.    -44.6  0.37   2.80
0.24    2.45  212.    7.9  287.0    2.0
 15 01 01   1 16   27.2  0.330  1.046  0.005 1530.  455.   -119.6  0.22   2.80
0.33    2.78  202.    7.9  286.4    2.0
 15 01 01   1 17  -29.6  0.335 -9.000 -9.000 -999.  465.    123.4  0.37   2.80
0.60    2.45  214.    7.9  285.9    2.0
 15 01 01   1 18  -27.0  0.271 -9.000 -9.000 -999.  340.     80.6  0.40   2.80
1.00    1.94  245.    7.9  285.3    2.0
 15 01 01   1 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.18   2.80
1.00    0.00    0.    7.9  284.2    2.0
 15 01 01   1 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.18   2.80
1.00    0.00    0.    7.9  282.0    2.0
 15 01 01   1 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.18   2.80
1.00    0.00    0.    7.9  281.4    2.0
 15 01 01   1 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.18   2.80
1.00    0.00    0.    7.9  280.9    2.0
 15 01 01   1 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.18   2.80
1.00    0.00    0.    7.9  280.3    2.0
 15 01 01   1 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.18   2.80
1.00    0.00    0.    7.9  279.8    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 15 01 01 01    7.9 1   68.    1.11   278.2   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        15:40:32
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
383453.01	3743678.97	11.31638	383473.01	3743678.97	12.95893
383493.01	3743678.97	14.91718	383513.01	3743678.97	17.33236
383533.01	3743678.97	20.35788	383553.01	3743678.97	24.26598
383573.01	3743678.97	29.56404	383593.01	3743678.97	37.30433
383613.01	3743678.97	49.97781	383453.01	3743698.97	12.56061
383473.01	3743698.97	14.57434	383493.01	3743698.97	16.99175
383513.01	3743698.97	19.96181	383533.01	3743698.97	23.66250
383553.01	3743698.97	28.43495	383573.01	3743698.97	35.03853
383593.01	3743698.97	45.24965	383613.01	3743698.97	64.14998
383453.01	3743718.97	14.13987	383473.01	3743718.97	16.71024
383493.01	3743718.97	19.81146	383513.01	3743718.97	23.52789
383533.01	3743718.97	27.93412	383553.01	3743718.97	33.39230
383573.01	3743718.97	40.84480	383593.01		

3743718.97 52.34780
383613.01 3743718.97 73.59922 383453.01
3743738.97 16.33479
383473.01 3743738.97 20.00394 383493.01
3743738.97 24.39132
383513.01 3743738.97 29.20980 383533.01
3743738.97 34.27765
383553.01 3743738.97 40.05292 383573.01
3743738.97 47.61821
383593.01 3743738.97 59.09514 383613.01
3743738.97 80.04487
383453.01 3743758.97 19.85725 383473.01
3743758.97 26.61123
383493.01 3743758.97 34.10818 383513.01
3743758.97 40.20954
383533.01 3743758.97 45.48307 383553.01
3743758.97 51.06068
383573.01 3743758.97 58.07638 383593.01
3743758.97 68.38954
383613.01 3743758.97 86.57359 383793.01
3743798.97 68.01502
383813.01 3743798.97 57.48476 383833.01
3743798.97 43.05498
383253.01 3743478.97 2.69197 383273.01
3743478.97 2.84176
383293.01 3743478.97 3.00308 383313.01
3743478.97 3.17618
383333.01 3743478.97 3.36141 383353.01
3743478.97 3.56024
383373.01 3743478.97 3.77394 383393.01
3743478.97 4.00344
383413.01 3743478.97 4.24940 383433.01
3743478.97 4.51273
383453.01 3743478.97 4.79525 383473.01
3743478.97 5.09243
383493.01 3743478.97 5.40264 383513.01
3743478.97 5.73140
383533.01 3743478.97 6.07302 383553.01
3743478.97 6.42837
383573.01 3743478.97 6.79634 383593.01
3743478.97 7.17400
383613.01 3743478.97 7.55566 383693.01
3743478.97 9.10923
383713.01 3743478.97 9.48903 383733.01
3743478.97 9.86396
383753.01 3743478.97 10.23205 383773.01
3743478.97 10.58862
383793.01 3743478.97 10.92626 383813.01
3743478.97 11.23462
383833.01 3743478.97 11.50137 383853.01

3743498.97 5.18294
383473.01 3743498.97 5.53136 383493.01 3743498.97 5.89926
383513.01 3743498.97 6.29495 383533.01 3743498.97 6.70985
383553.01 3743498.97 7.14432 383573.01 3743498.97 7.59648
383593.01 3743498.97 8.06373 383613.01 3743498.97 8.53910
383693.01 3743498.97 10.48145 383713.01 3743498.97 10.95599
383733.01 3743498.97 11.42192 383753.01 3743498.97 11.87588
383773.01 3743498.97 12.31121 383793.01 3743498.97 12.70896
383813.01 3743498.97 13.05181 383833.01 3743498.97 13.32561
383853.01 3743498.97 13.51603 383873.01 3743498.97 13.61052
383893.01 3743498.97 13.60308 383913.01 3743498.97 13.48039
383933.01 3743498.97 13.24874 383953.01 3743498.97 12.91926
383973.01 3743498.97 12.50742 383993.01 3743498.97 12.02826
384013.01 3743498.97 11.49912 384033.01 3743498.97 10.93338
383253.01 3743518.97 2.92984 383273.01 3743518.97 3.10772
383293.01 3743518.97 3.30225 383313.01 3743518.97 3.51459
383333.01 3743518.97 3.74260 383353.01 3743518.97 3.99149
383373.01 3743518.97 4.26443 383393.01 3743518.97 4.56187
383413.01 3743518.97 4.88087 383433.01 3743518.97 5.23067
383453.01 3743518.97 5.61205 383473.01 3743518.97 6.02226
383493.01 3743518.97 6.46011 383513.01 3743518.97 6.93734
383533.01 3743518.97 7.44308 383553.01 3743518.97 7.97798
383573.01 3743518.97 8.54045 383593.01 3743518.97 9.12768
383613.01 3743518.97 9.73209 383693.01 3743518.97 12.21615
383713.01 3743518.97 12.82464 383733.01 3743518.97 13.41661
383753.01 3743518.97 13.98116 383773.01

```
3743518.97       14.50545
         383793.01    3743518.97       14.96229                       383813.01
3743518.97       15.32654
         383833.01    3743518.97       15.57833                       383853.01
3743518.97       15.70197
         383873.01    3743518.97       15.68331                       383893.01
3743518.97       15.52905
         383913.01    3743518.97       15.23281                       383933.01
3743518.97       14.80874
         383953.01    3743518.97       14.27911                       383973.01
3743518.97       13.66628
         383993.01    3743518.97       12.99328                       384013.01
3743518.97       12.28221
         384033.01    3743518.97       11.55114                       383253.01
3743538.97        3.05439

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        15:40:32

                                  PAGE  37
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         383273.01    3743538.97       3.24813                        383293.01
3743538.97        3.46153
         383313.01    3743538.97       3.69597                        383333.01
3743538.97        3.94756
         383353.01    3743538.97       4.22603                        383373.01
```

3743538.97 4.53409
383393.01 3743538.97 4.87165 383413.01
3743538.97 5.23357
383433.01 3743538.97 5.64088 383453.01
3743538.97 6.08708
383473.01 3743538.97 6.57144 383493.01
3743538.97 7.09423
383513.01 3743538.97 7.66820 383533.01
3743538.97 8.28953
383553.01 3743538.97 8.95821 383573.01
3743538.97 9.67033
383593.01 3743538.97 10.41636 383613.01
3743538.97 11.19998
383693.01 3743538.97 14.45844 383713.01
3743538.97 15.25946
383733.01 3743538.97 16.02747 383753.01
3743538.97 16.73336
383773.01 3743538.97 17.35015 383793.01
3743538.97 17.84879
383813.01 3743538.97 18.19718 383833.01
3743538.97 18.36971
383853.01 3743538.97 18.34926 383873.01
3743538.97 18.12099
383893.01 3743538.97 17.72522 383913.01
3743538.97 17.16956
383933.01 3743538.97 16.47975 383953.01
3743538.97 15.68647
383973.01 3743538.97 14.82112 383993.01
3743538.97 13.91477
384013.01 3743538.97 12.99427 384033.01
3743538.97 12.08077
383253.01 3743558.97 3.18223 383273.01
3743558.97 3.39320
383293.01 3743558.97 3.62685 383313.01
3743558.97 3.88548
383333.01 3743558.97 4.16417 383353.01
3743558.97 4.47588
383373.01 3743558.97 4.82286 383393.01
3743558.97 5.20567
383413.01 3743558.97 5.62029 383433.01
3743558.97 6.09108
383453.01 3743558.97 6.61292 383473.01
3743558.97 7.18677
383493.01 3743558.97 7.81604 383513.01
3743558.97 8.51989
383533.01 3743558.97 9.29070 383553.01
3743558.97 10.13264
383573.01 3743558.97 11.04489 383593.01
3743558.97 12.02153
383613.01 3743558.97 13.05167 383693.01

```
3743558.97       17.42671
         383713.01    3743558.97       18.50157                       383733.01
3743558.97       19.51057
         383753.01    3743558.97       20.38481                       383773.01
3743558.97       21.08701
         383793.01    3743558.97       21.58469                       383813.01
3743558.97       21.82843
         383833.01    3743558.97       21.80556                       383853.01
3743558.97       21.51841
         383873.01    3743558.97       20.97402                       383893.01
3743558.97       20.21367
         383913.01    3743558.97       19.28297                       383933.01
3743558.97       18.22887
         383953.01    3743558.97       17.09254                       383973.01
3743558.97       15.90021
         383993.01    3743558.97       14.71286                       384013.01
3743558.97       13.56912
         384033.01    3743558.97       12.48257                       383253.01
3743578.97        3.31295
         383273.01    3743578.97        3.54247                       383293.01
3743578.97        3.79797
         383313.01    3743578.97        4.08289                       383333.01
3743578.97        4.39184
         383353.01    3743578.97        4.74049                       383373.01
3743578.97        5.13104

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        15:40:32

                                 PAGE  38
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                               ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **
```

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
383393.01	3743578.97	5.56517	383413.01	3743578.97	6.04085
383433.01	3743578.97	6.58430	383453.01	3743578.97	7.19480
383473.01	3743578.97	7.87660	383493.01	3743578.97	8.63723
383513.01	3743578.97	9.50147	383533.01	3743578.97	10.46362
383553.01	3743578.97	11.53661	383573.01	3743578.97	12.72399
383593.01	3743578.97	14.02254	383613.01	3743578.97	15.42440
383693.01	3743578.97	21.50732	383713.01	3743578.97	22.97421
383733.01	3743578.97	24.30440	383753.01	3743578.97	25.39064
383773.01	3743578.97	26.11023	383793.01	3743578.97	26.48590
383813.01	3743578.97	26.46668	383833.01	3743578.97	26.06001
383853.01	3743578.97	25.29697	383873.01	3743578.97	24.22765
383893.01	3743578.97	22.93139	383913.01	3743578.97	21.48837
383933.01	3743578.97	19.96718	383953.01	3743578.97	18.42015
383973.01	3743578.97	16.87401	383993.01	3743578.97	15.38909
384013.01	3743578.97	14.00618	384033.01	3743578.97	12.72957
383253.01	3743598.97	3.44589	383273.01	3743598.97	3.69525
383293.01	3743598.97	3.97446	383313.01	3743598.97	4.28790
383333.01	3743598.97	4.63028	383353.01	3743598.97	5.01908
383373.01	3743598.97	5.45855	383393.01	3743598.97	5.95198
383413.01	3743598.97	6.49663	383433.01	3743598.97	7.12446
383453.01	3743598.97	7.83928	383473.01	3743598.97	8.65108
383493.01	3743598.97	9.57394	383513.01	3743598.97	10.63155
383533.01	3743598.97	11.84120	383553.01		

```
3743598.97       13.22553
         383573.01    3743598.97       14.79787                       383593.01
3743598.97       16.56459
         383613.01    3743598.97       18.53042                       383693.01
3743598.97       27.35053
         383713.01    3743598.97       29.34207                       383733.01
3743598.97       31.03622
         383753.01    3743598.97       32.37997                       383773.01
3743598.97       33.00103
         383793.01    3743598.97       32.98656                       383813.01
3743598.97       32.41000
         383833.01    3743598.97       31.29190                       383853.01
3743598.97       29.71799
         383873.01    3743598.97       27.83058                       383893.01
3743598.97       25.78423
         383913.01    3743598.97       23.67695                       383933.01
3743598.97       21.58522
         383953.01    3743598.97       19.56707                       383973.01
3743598.97       17.65303
         383993.01    3743598.97       15.87340                       384013.01
3743598.97       14.25043
         384033.01    3743598.97       12.78789                       383253.01
3743618.97        3.58016
         383273.01    3743618.97        3.85067                       383293.01
3743618.97        4.15558
         383313.01    3743618.97        4.49963                       383333.01
3743618.97        4.87879
         383353.01    3743618.97        5.31268                       383373.01
3743618.97        5.80748
         383393.01    3743618.97        6.36819                       383413.01
3743618.97        6.99270
         383433.01    3743618.97        7.71976                       383453.01
3743618.97        8.55707
         383473.01    3743618.97        9.52017                       383493.01
3743618.97       10.63022

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        15:40:32

                                 PAGE  39
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                 L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
```

```
                L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                 **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         383513.01    3743618.97       11.93514                     383533.01
3743618.97       13.46502
         383553.01    3743618.97       15.27137                     383573.01
3743618.97       17.40081
         383593.01    3743618.97       19.87860                     383613.01
3743618.97       22.72285
         383693.01    3743618.97       36.19737                     383713.01
3743618.97       39.03965
         383733.01    3743618.97       41.15832                     383753.01
3743618.97       42.48459
         383773.01    3743618.97       42.63881                     383793.01
3743618.97       41.72488
         383813.01    3743618.97       39.96740                     383833.01
3743618.97       37.52831
         383853.01    3743618.97       34.67810                     383873.01
3743618.97       31.67264
         383893.01    3743618.97       28.63955                     383913.01
3743618.97       25.71445
         383933.01    3743618.97       22.96576                     383953.01
3743618.97       20.42770
         383973.01    3743618.97       18.11254                     383993.01
3743618.97       16.04659
         384013.01    3743618.97       14.22251                     384033.01
3743618.97       12.62420
         383253.01    3743638.97        3.71468                     383273.01
3743638.97        4.00746
         383293.01    3743638.97        4.33994                     383313.01
3743638.97        4.71687
         383333.01    3743638.97        5.13632                     383353.01
3743638.97        5.62081
         383373.01    3743638.97        6.17810                     383393.01
3743638.97        6.81584
         383413.01    3743638.97        7.53409                     383433.01
3743638.97        8.37801
         383453.01    3743638.97        9.36103                     383473.01
```

```
3743638.97       10.50380
         383493.01    3743638.97       11.83421                       383513.01
3743638.97       13.44216
         383533.01    3743638.97       15.37233                       383553.01
3743638.97       17.73089
         383573.01    3743638.97       20.64526                       383593.01
3743638.97       24.24632
         383613.01    3743638.97       28.60888                       383693.01
3743638.97       50.43680
         383713.01    3743638.97       54.34388                       383733.01
3743638.97       56.70619
         383753.01    3743638.97       57.54161                       383773.01
3743638.97       56.57566
         383793.01    3743638.97       53.67026                       383813.01
3743638.97       49.51351
         383833.01    3743638.97       44.75820                       383853.01
3743638.97       40.00435
         383873.01    3743638.97       35.50563                       383893.01
3743638.97       31.28566
         383913.01    3743638.97       27.42894                       383933.01
3743638.97       23.96536
         383953.01    3743638.97       20.88786                       383973.01
3743638.97       18.19791
         383993.01    3743638.97       15.88945                       384013.01
3743638.97       13.91978
         384033.01    3743638.97       12.24142                       383253.01
3743658.97        3.84836
         383273.01    3743658.97        4.16399                       383293.01
3743658.97        4.52500
         383313.01    3743658.97        4.93717                       383333.01
3743658.97        5.40118
         383353.01    3743658.97        5.94153                       383373.01
3743658.97        6.56971
         383393.01    3743658.97        7.29687                       383413.01
3743658.97        8.12610
         383433.01    3743658.97        9.11040                       383453.01
3743658.97       10.27017
         383473.01    3743658.97       11.63452                       383493.01
3743658.97       13.24424
         383513.01    3743658.97       15.21400                       383533.01
3743658.97       17.64180
         383553.01    3743658.97       20.70725                       383573.01
3743658.97       24.68452
         383593.01    3743658.97       29.99792                       383613.01
3743658.97       37.25402

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***       15:40:32
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
383893.01	3743658.97	33.48852	383913.01	3743658.97	28.61434
383933.01	3743658.97	24.41588	383953.01	3743658.97	20.83960
383973.01	3743658.97	17.85518	383993.01	3743658.97	15.38750
384013.01	3743658.97	13.34868	384033.01	3743658.97	11.65725
383253.01	3743678.97	3.97914	383273.01	3743678.97	4.31779
383293.01	3743678.97	4.70771	383313.01	3743678.97	5.15683
383333.01	3743678.97	5.66801	383353.01	3743678.97	6.27000
383373.01	3743678.97	6.97933	383393.01	3743678.97	7.81276
383413.01	3743678.97	8.77793	383433.01	3743678.97	9.93548
383893.01	3743678.97	34.93561	383913.01	3743678.97	28.97343
383933.01	3743678.97	24.11994	383953.01	3743678.97	20.20183
383973.01	3743678.97	17.06681	383993.01	3743678.97	14.55678
384013.01	3743678.97	12.54029	384033.01		

3743678.97 10.91007
383253.01 3743698.97 4.10436 383273.01 3743698.97 4.46548
383293.01 3743698.97 4.88393 383313.01 3743698.97 5.37097
383333.01 3743698.97 5.93106 383353.01 3743698.97 6.59959
383373.01 3743698.97 7.40115 383393.01 3743698.97 8.36222
383413.01 3743698.97 9.49981 383433.01 3743698.97 10.88362
383893.01 3743698.97 35.17194 383913.01 3743698.97 28.23231
383933.01 3743698.97 22.97544 383953.01 3743698.97 18.96211
383973.01 3743698.97 15.87346 383993.01 3743698.97 13.46531
384013.01 3743698.97 11.56955 384033.01 3743698.97 10.06427
383253.01 3743718.97 4.21974 383273.01 3743718.97 4.60183
383293.01 3743718.97 5.04827 383313.01 3743718.97 5.57356
383333.01 3743718.97 6.18740 383353.01 3743718.97 6.92663
383373.01 3743718.97 7.82835 383393.01 3743718.97 8.93981
383413.01 3743718.97 10.31019 383433.01 3743718.97 12.02181
383893.01 3743718.97 33.55546 383913.01 3743718.97 26.20971
383933.01 3743718.97 21.02314 383953.01 3743718.97 17.24448
383973.01 3743718.97 14.41322 383993.01 3743718.97 12.23494
384013.01 3743718.97 10.53523 384033.01 3743718.97 9.19413
383253.01 3743738.97 4.32157 383273.01 3743738.97 4.72215
383293.01 3743738.97 5.19306 383313.01 3743738.97 5.75140
383333.01 3743738.97 6.41451 383353.01 3743738.97 7.22360
383373.01 3743738.97 8.23180 383393.01 3743738.97 9.51752
383413.01 3743738.97 11.18972 383433.01 3743738.97 13.40872
383893.01 3743738.97 29.97103 383913.01 3743738.97 23.19367
383933.01 3743738.97 18.60516 383953.01

3743738.97   15.32345
         383973.01   3743738.97   12.88843   383993.01
3743738.97   11.02311
         384013.01   3743738.97   9.56428   384033.01
3743738.97   8.39766

 *** AERMOD - VERSION 24142 ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***   06/25/25
 *** AERMET - VERSION 22112 ***   ***
                      ***   15:40:32

                                  PAGE 41
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         383253.01   3743758.97   4.40447   383273.01
3743758.97   4.81958
         383293.01   3743758.97   5.30907   383313.01
3743758.97   5.89136
         383333.01   3743758.97   6.59397   383353.01
3743758.97   7.46465
         383373.01   3743758.97   8.57329   383393.01
3743758.97   10.03975
         383413.01   3743758.97   12.08457   383433.01
3743758.97   15.11477
         383893.01   3743758.97   25.44436   383913.01
3743758.97   19.94120
         383933.01   3743758.97   16.20683   383953.01
3743758.97   13.50984
         383973.01   3743758.97   11.49330   383993.01

3743758.97 9.92869
384013.01 3743758.97 8.68340 384033.01
3743758.97 7.67180
383253.01 3743778.97 4.46429 383893.01
3743778.97 21.38947
383913.01 3743778.97 17.16375 383933.01
3743778.97 14.19360
383953.01 3743778.97 12.00119 383973.01
3743778.97 10.32370
383993.01 3743778.97 9.00008 384013.01
3743778.97 7.93179
384033.01 3743778.97 7.05459 383253.01
3743798.97 4.49141
383853.01 3743798.97 30.99932 383873.01
3743798.97 23.38516
383893.01 3743798.97 18.48176 383913.01
3743798.97 15.11932
383933.01 3743798.97 12.68136 383953.01
3743798.97 10.84267
383973.01 3743798.97 9.40952 383993.01
3743798.97 8.26312
384013.01 3743798.97 7.32737 384033.01
3743798.97 6.55108
383253.01 3743818.97 4.48005 383793.01
3743818.97 46.28432
383813.01 3743818.97 40.12947 383833.01
3743818.97 32.58337
383853.01 3743818.97 25.54487 383873.01
3743818.97 20.18951
383893.01 3743818.97 16.36116 383913.01
3743818.97 13.59430
383933.01 3743818.97 11.52831 383953.01
3743818.97 9.93916
383973.01 3743818.97 8.68358 383993.01
3743818.97 7.66891
384013.01 3743818.97 6.83435 384033.01
3743818.97 6.13822
383253.01 3743838.97 4.43247 383793.01
3743838.97 34.43162
383813.01 3743838.97 30.49710 383833.01
3743838.97 25.91263
383853.01 3743838.97 21.39979 383873.01
3743838.97 17.59549
383893.01 3743838.97 14.61910 383913.01
3743838.97 12.33860
383933.01 3743838.97 10.57712 383953.01
3743838.97 9.19023
383973.01 3743838.97 8.07389 383993.01
3743838.97 7.16619
384013.01 3743838.97 6.41930 383253.01

```
3743858.97        4.34958
         383793.01    3743858.97       27.00547                       383813.01
3743858.97       24.30685
         383833.01    3743858.97       21.26187                       383853.01
3743858.97       18.18115
         383873.01    3743858.97       15.41924                       383893.01
3743858.97       13.10857
         383913.01    3743858.97       11.24146                       383933.01
3743858.97        9.74606
         383953.01    3743858.97        8.53936                       383973.01
3743858.97        7.54910
         383993.01    3743858.97        6.73747                       383253.01
3743878.97        4.23577
         383793.01    3743878.97       21.94650                       383813.01
3743878.97       19.99955

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        15:40:32

                                  PAGE  42
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         383833.01    3743878.97       17.83258                       383853.01
3743878.97       15.64151
         383873.01    3743878.97       13.59220                       383893.01
3743878.97       11.78908
         383913.01    3743878.97       10.26487                       383933.01
```

3743878.97 9.00082
383953.01 3743878.97 7.95454 383973.01 3743878.97 7.07986
383253.01 3743898.97 4.09704 383773.01 3743898.97 19.59197
383793.01 3743898.97 18.38000 383813.01 3743898.97 16.91203
383833.01 3743898.97 15.29949 383853.01 3743898.97 13.65171
383873.01 3743898.97 12.08536 383893.01 3743898.97 10.65727
383913.01 3743898.97 9.40479 383933.01 3743898.97 8.33210
383953.01 3743898.97 7.42237 383973.01 3743898.97 6.65313
383253.01 3743918.97 3.94082 383773.01 3743918.97 16.52099
383793.01 3743918.97 15.60970 383813.01 3743918.97 14.50592
383833.01 3743918.97 13.29208 383853.01 3743918.97 12.02701
383873.01 3743918.97 10.79519 383893.01 3743918.97 9.64890
383913.01 3743918.97 8.61691 383933.01 3743918.97 7.70977
383953.01 3743918.97 6.92544 383253.01 3743938.97 3.77400
383273.01 3743938.97 4.02521 383293.01 3743938.97 4.30284
383313.01 3743938.97 4.60558 383333.01 3743938.97 4.93994
383353.01 3743938.97 5.31006 383373.01 3743938.97 5.72084
383393.01 3743938.97 6.17755 383413.01 3743938.97 6.68416
383433.01 3743938.97 7.24057 383453.01 3743938.97 7.83830
383773.01 3743938.97 14.12762 383793.01 3743938.97 13.43350
383813.01 3743938.97 12.59564 383833.01 3743938.97 11.66728
383853.01 3743938.97 10.67764 383873.01 3743938.97 9.69120
383893.01 3743938.97 8.75861 383913.01 3743938.97 7.90516
383933.01 3743938.97 7.13873 383253.01 3743958.97 3.60203
383273.01 3743958.97 3.82596 383293.01 3743958.97 4.07174
383313.01 3743958.97 4.33771 383333.01

```
3743958.97        4.62908
         383353.01    3743958.97        4.94905                      383373.01
3743958.97        5.30097
         383393.01    3743958.97        5.68800                      383413.01
3743958.97        6.11230
         383433.01    3743958.97        6.57338                      383453.01
3743958.97        7.06522
         383773.01    3743958.97       12.23491                      383793.01
3743958.97       11.69906
         383813.01    3743958.97       11.04768                      383833.01
3743958.97       10.32123
         383853.01    3743958.97        9.53777                      383873.01
3743958.97        8.74745
         383893.01    3743958.97        7.98500                      383913.01
3743958.97        7.27460
         383253.01    3743978.97        3.43005                      383273.01
3743978.97        3.62953
         383293.01    3743978.97        3.84693                      383313.01
3743978.97        4.08160
         383333.01    3743978.97        4.33654                      383353.01
3743978.97        4.61459
         383373.01    3743978.97        4.91813                      383393.01
3743978.97        5.24900
         383413.01    3743978.97        5.60837                      383433.01
3743978.97        5.99560

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        15:40:32

                                  PAGE  43
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                               ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **
```

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
383453.01	3743978.97	6.40629	383773.01	3743978.97	10.70800
383793.01	3743978.97	10.28958	383813.01	3743978.97	9.77660
383833.01	3743978.97	9.20064	383853.01	3743978.97	8.57195
383873.01	3743978.97	7.93051	383893.01	3743978.97	7.30504
383253.01	3743998.97	3.26287	383273.01	3743998.97	3.44084
383293.01	3743998.97	3.63296	383313.01	3743998.97	3.84017
383333.01	3743998.97	4.06427	383353.01	3743998.97	4.30705
383373.01	3743998.97	4.57016	383393.01	3743998.97	4.85506
383413.01	3743998.97	5.16233	383433.01	3743998.97	5.49116
383453.01	3743998.97	5.83811	383773.01	3743998.97	9.45626
383793.01	3743998.97	9.12637	383813.01	3743998.97	8.71824
383833.01	3743998.97	8.25627	383853.01	3743998.97	7.74596
383873.01	3743998.97	7.21930	382953.01	3743178.97	0.94941
383003.01	3743178.97	1.01580	383053.01	3743178.97	1.08851
383103.01	3743178.97	1.16686	383153.01	3743178.97	1.12291
383203.01	3743178.97	1.27639	383253.01	3743178.97	1.42164
383303.01	3743178.97	1.54117	383353.01	3743178.97	1.64727
383403.01	3743178.97	1.75767	383453.01	3743178.97	1.86850
383503.01	3743178.97	1.98192	383553.01	3743178.97	2.09406
383603.01	3743178.97	2.20715	383653.01	3743178.97	2.32103
383703.01	3743178.97	2.43607	383753.01	3743178.97	2.54586
383803.01	3743178.97	2.65195	383853.01	3743178.97	2.75420
383903.01	3743178.97	2.85795	383953.01		

```
3743178.97        2.96203
         384003.01    3743178.97        3.06904                        384053.01
3743178.97        3.17483
         384103.01    3743178.97        3.26752                        384153.01
3743178.97        3.33329
         384203.01    3743178.97        3.36232                        384253.01
3743178.97        3.35070
         384303.01    3743178.97        3.29064                        384353.01
3743178.97        3.19033
         382953.01    3743228.97        1.01037                        383003.01
3743228.97        1.08637
         383053.01    3743228.97        1.17018                        383103.01
3743228.97        1.26159
         383153.01    3743228.97        1.36148                        383203.01
3743228.97        1.47031
         383253.01    3743228.97        1.58828                        383303.01
3743228.97        1.71435
         383353.01    3743228.97        1.84650                        383403.01
3743228.97        1.98596
         383453.01    3743228.97        2.12857                        383503.01
3743228.97        2.27553
         383553.01    3743228.97        2.42068                        383603.01
3743228.97        2.56683
         383653.01    3743228.97        2.71373                        383703.01
3743228.97        2.86283
         383753.01    3743228.97        3.00529                        383803.01
3743228.97        3.14241
         383853.01    3743228.97        3.27641                        383903.01
3743228.97        3.41309
         383953.01    3743228.97        3.54854                        384003.01
3743228.97        3.68439
         384053.01    3743228.97        3.80520                        384103.01
3743228.97        3.88862
         384153.01    3743228.97        3.92447                        384203.01
3743228.97        3.90147

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        15:40:32

                                   PAGE  44
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                 L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
```

```
                 L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                 L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                           ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         384253.01    3743228.97        3.82058                       384303.01
3743228.97        3.68135
         384353.01    3743228.97        3.50018                       382953.01
3743278.97        1.07454
         383003.01    3743278.97        1.16133                       383053.01
3743278.97        1.25823
         383103.01    3743278.97        1.36512                       383153.01
3743278.97        1.48381
         383203.01    3743278.97        1.61451                       383253.01
3743278.97        1.75832
         383303.01    3743278.97        1.91484                       383353.01
3743278.97        2.08296
         383403.01    3743278.97        2.26163                       383453.01
3743278.97        2.44884
         383503.01    3743278.97        2.64122                       383553.01
3743278.97        2.83471
         383603.01    3743278.97        3.02726                       383653.01
3743278.97        3.22446
         383703.01    3743278.97        3.42224                       383753.01
3743278.97        3.61104
         383803.01    3743278.97        3.79470                       383853.01
3743278.97        3.97644
         383903.01    3743278.97        4.15892                       383953.01
3743278.97        4.33554
         384003.01    3743278.97        4.49601                       384053.01
3743278.97        4.61181
         384103.01    3743278.97        4.65407                       384153.01
3743278.97        4.61655
         384203.01    3743278.97        4.49547                       384253.01
3743278.97        4.30454
         384303.01    3743278.97        4.05391                       384353.01
3743278.97        3.77049
         382953.01    3743328.97        1.14134                       383003.01
3743328.97        1.24005
         383053.01    3743328.97        1.35228                       383103.01
```

```
3743328.97        1.47728
         383153.01    3743328.97        1.61816                    383203.01
3743328.97        1.77579
         383253.01    3743328.97        1.95217                    383303.01
3743328.97        2.14787
         383353.01    3743328.97        2.36370                    383403.01
3743328.97        2.59516
         383453.01    3743328.97        2.84538                    383503.01
3743328.97        3.10271
         383553.01    3743328.97        3.36723                    383603.01
3743328.97        3.63677
         383653.01    3743328.97        3.90730                    383703.01
3743328.97        4.17310
         383753.01    3743328.97        4.43361                    383803.01
3743328.97        4.68760
         383853.01    3743328.97        4.94510                    383903.01
3743328.97        5.19159
         383953.01    3743328.97        5.40845                    384003.01
3743328.97        5.56795
         384053.01    3743328.97        5.62966                    384103.01
3743328.97        5.56814
         384153.01    3743328.97        5.38862                    384203.01
3743328.97        5.10811
         384253.01    3743328.97        4.75988                    384303.01
3743328.97        4.36827
         384353.01    3743328.97        3.96752                    382953.01
3743378.97        1.21028
         383003.01    3743378.97        1.32296                    383053.01
3743378.97        1.45131
         383103.01    3743378.97        1.59749                    383153.01
3743378.97        1.76455
         383203.01    3743378.97        1.95516                    383253.01
3743378.97        2.17241
         383303.01    3743378.97        2.41893                    383353.01
3743378.97        2.69608
         383403.01    3743378.97        3.00479                    383453.01
3743378.97        3.34324
         383503.01    3743378.97        3.70364                    383553.01
3743378.97        4.07882
         383603.01    3743378.97        4.46388                    383653.01
3743378.97        4.85325
         383703.01    3743378.97        5.23969                    383753.01
3743378.97        5.61691
         383803.01    3743378.97        5.98513                    383853.01
3743378.97        6.34366

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***       15:40:32
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
383903.01	3743378.97	6.66410	383953.01	3743378.97	6.89465
384003.01	3743378.97	6.97892	384053.01	3743378.97	6.88082
384103.01	3743378.97	6.60448	384153.01	3743378.97	6.18518
384203.01	3743378.97	5.67545	384253.01	3743378.97	5.12641
384303.01	3743378.97	4.57761	384353.01	3743378.97	4.05729
382953.01	3743428.97	1.28032	383003.01	3743428.97	1.40699
383053.01	3743428.97	1.55454	383103.01	3743428.97	1.72381
383153.01	3743428.97	1.92053	383203.01	3743428.97	2.15065
383253.01	3743428.97	2.41831	383303.01	3743428.97	2.73390
383353.01	3743428.97	3.09522	383403.01	3743428.97	3.51000
383453.01	3743428.97	3.98007	383503.01	3743428.97	4.50057
383553.01	3743428.97	5.05947	383603.01	3743428.97	5.64014
383703.01	3743428.97	6.81184	383753.01		

3743428.97 7.38191
383803.01 3743428.97 7.93749 383853.01
3743428.97 8.44121
383903.01 3743428.97 8.80876 383953.01
3743428.97 8.93870
384003.01 3743428.97 8.76727 384053.01
3743428.97 8.31936
384103.01 3743428.97 7.66178 384153.01
3743428.97 6.89342
384203.01 3743428.97 6.09655 384253.01
3743428.97 5.33460
384303.01 3743428.97 4.63687 384353.01
3743428.97 4.01948
382953.01 3743478.97 1.34997 383003.01
3743478.97 1.49245
383053.01 3743478.97 1.66037 383103.01
3743478.97 1.85546
383153.01 3743478.97 2.08664 383203.01
3743478.97 2.36323
384053.01 3743478.97 9.80025 384103.01
3743478.97 8.58109
384153.01 3743478.97 7.38198 384203.01
3743478.97 6.28570
384253.01 3743478.97 5.33240 384303.01
3743478.97 4.52300
384353.01 3743478.97 3.85043 382953.01
3743528.97 1.42084
383003.01 3743528.97 1.57931 383053.01
3743528.97 1.76758
383103.01 3743528.97 1.99159 383153.01
3743528.97 2.26180
383203.01 3743528.97 2.59033 384053.01
3743528.97 11.01692
384103.01 3743528.97 9.12801 384153.01
3743528.97 7.50135
384203.01 3743528.97 6.16707 384253.01
3743528.97 5.09771
384303.01 3743528.97 4.24743 384353.01
3743528.97 3.57451
382953.01 3743578.97 1.49086 383003.01
3743578.97 1.66517
383053.01 3743578.97 1.87496 383103.01
3743578.97 2.12717
383153.01 3743578.97 2.43890 383203.01
3743578.97 2.82525
384053.01 3743578.97 11.55139 384103.01
3743578.97 9.05761
384153.01 3743578.97 7.16130 384203.01
3743578.97 5.73867
384253.01 3743578.97 4.67078 384303.01

3743578.97   3.85851
         384353.01   3743578.97   3.23673   382953.01
3743628.97   1.55989
         383003.01   3743628.97   1.75036   383053.01
3743628.97   1.98100

 *** AERMOD - VERSION 24142 ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***   06/25/25
 *** AERMET - VERSION 22112 ***   ***
                      ***   15:40:32

                                   PAGE 46
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                   INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         383103.01   3743628.97   2.26361   383153.01
3743628.97   2.61667
         383203.01   3743628.97   3.06501   384053.01
3743628.97   11.04214
         384103.01   3743628.97   8.31246   384153.01
3743628.97   6.42741
         384203.01   3743628.97   5.10126   384253.01
3743628.97   4.13614
         384303.01   3743628.97   3.42745   384353.01
3743628.97   2.89381
         382953.01   3743678.97   1.62477   383003.01
3743678.97   1.83016
         383053.01   3743678.97   2.08188   383103.01
3743678.97   2.39304
         383153.01   3743678.97   2.78626   383203.01

3743678.97 3.29780
384053.01 3743678.97 9.56076 384103.01
3743678.97 7.12288
384153.01 3743678.97 5.51832 384203.01
3743678.97 4.40463
384253.01 3743678.97 3.61903 384303.01
3743678.97 3.02976
384353.01 3743678.97 2.57916 382953.01
3743728.97 1.68312
383003.01 3743728.97 1.90133 383053.01
3743728.97 2.17036
383103.01 3743728.97 2.50630 383153.01
3743728.97 2.93616
383203.01 3743728.97 3.50077 384053.01
3743728.97 7.76703
384103.01 3743728.97 5.90361 384153.01
3743728.97 4.66853
384203.01 3743728.97 3.80776 384253.01
3743728.97 3.17057
384303.01 3743728.97 2.68192 384353.01
3743728.97 2.28949
382953.01 3743778.97 1.72853 383003.01
3743778.97 1.95562
383053.01 3743778.97 2.23567 383103.01
3743778.97 2.58723
383153.01 3743778.97 3.03929 383203.01
3743778.97 3.63742
384053.01 3743778.97 6.32666 384103.01
3743778.97 4.97456
384153.01 3743778.97 4.02857 384203.01
3743778.97 3.33677
384253.01 3743778.97 2.79791 384303.01
3743778.97 2.37855
384353.01 3743778.97 2.09860 382953.01
3743828.97 1.75307
383003.01 3743828.97 1.98333 383053.01
3743828.97 2.26462
383103.01 3743828.97 2.61550 383153.01
3743828.97 3.06623
383203.01 3743828.97 3.65560 384153.01
3743828.97 3.56213
384203.01 3743828.97 2.97853 384253.01
3743828.97 2.51554
384303.01 3743828.97 2.20907 384353.01
3743828.97 1.93750
382953.01 3743878.97 1.75337 383003.01
3743878.97 1.97635
383053.01 3743878.97 2.24678 383103.01
3743878.97 2.57934
383153.01 3743878.97 2.99898 383203.01

3743878.97   3.53301
         384253.01   3743878.97   2.34589   384303.01
3743878.97   2.04737
         384353.01   3743878.97   1.80281   382953.01
3743928.97   1.72397
         383003.01   3743928.97   1.93160   383053.01
3743928.97   2.18028
         383103.01   3743928.97   2.47810   383153.01
3743928.97   2.84451
         383203.01   3743928.97   3.29385   384253.01
3743928.97   2.18317
         384303.01   3743928.97   1.91256   384353.01
3743928.97   1.69146
         382953.01   3743978.97   1.66672   383003.01
3743978.97   1.85483

 *** AERMOD - VERSION 24142 ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***   06/25/25
 *** AERMET - VERSION 22112 ***   ***
                       ***   15:40:32

                                  PAGE 47
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         383053.01   3743978.97   2.07280   383103.01
3743978.97   2.32905
         383153.01   3743978.97   2.63233   383203.01
3743978.97   2.99397
         384203.01   3743978.97   2.33616   384253.01

3743978.97 2.03748
384303.01 3743978.97 1.79503 384353.01 3743978.97 1.59493
382953.01 3744028.97 1.59122 383003.01 3744028.97 1.75258
383053.01 3744028.97 1.93801 383103.01 3744028.97 2.15117
383153.01 3744028.97 2.39768 383203.01 3744028.97 2.68439
383253.01 3744028.97 3.02048 383303.01 3744028.97 3.41841
383353.01 3744028.97 3.89373 383403.01 3744028.97 4.46212
383453.01 3744028.97 5.12468 384153.01 3744028.97 2.48354
384203.01 3744028.97 2.16401 384253.01 3744028.97 1.90356
384303.01 3744028.97 1.68707 384353.01 3744028.97 1.50712
382953.01 3744078.97 1.49896 383003.01 3744078.97 1.63615
383053.01 3744078.97 1.79106 383103.01 3744078.97 1.96600
383153.01 3744078.97 2.16495 383203.01 3744078.97 2.39261
383253.01 3744078.97 2.65560 383303.01 3744078.97 2.96165
383353.01 3744078.97 3.31942 383403.01 3744078.97 3.73607
383453.01 3744078.97 4.20807 384103.01 3744078.97 2.60236
384153.01 3744078.97 2.27568 384203.01 3744078.97 2.00327
384253.01 3744078.97 1.77689 384303.01 3744078.97 1.58585
384353.01 3744078.97 1.42470 382953.01 3744128.97 1.39979
383003.01 3744128.97 1.51515 383053.01 3744128.97 1.64401
383103.01 3744128.97 1.78794 383153.01 3744128.97 1.95001
383203.01 3744128.97 2.13361 383253.01 3744128.97 2.34388
383303.01 3744128.97 2.58509 383353.01 3744128.97 2.86255
383403.01 3744128.97 3.17757 383453.01 3744128.97 3.52433
384103.01 3744128.97 2.35928 384153.01 3744128.97 2.08424
384203.01 3744128.97 1.85262 384253.01

```
3744128.97        1.65628
         384303.01    3744128.97        1.48883                        384353.01
3744128.97        1.34551
         382953.01    3744178.97        1.29983                        383003.01
3744178.97        1.39719
         383053.01    3744178.97        1.50495                        383103.01
3744178.97        1.62480
         383153.01    3744178.97        1.75893                        383203.01
3744178.97        1.91008
         383253.01    3744178.97        2.08140                        383303.01
3744178.97        2.27529
         383353.01    3744178.97        2.49409                        383403.01
3744178.97        2.73701
         383453.01    3744178.97        2.99908                        384053.01
3744178.97        2.40677
         384103.01    3744178.97        2.13847                        384153.01
3744178.97        1.90843
         384203.01    3744178.97        1.71241                        384253.01
3744178.97        1.54234
         384303.01    3744178.97        1.39609                        384353.01
3744178.97        1.26918
         382953.01    3744228.97        1.20384                        383003.01
3744228.97        1.28676
         383053.01    3744228.97        1.37814                        383103.01
3744228.97        1.47963

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        15:40:32

                                 PAGE  48
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                               ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **
```

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
383153.01	3744228.97	1.59279	383203.01	3744228.97	1.71872
383253.01	3744228.97	1.86107	383303.01	3744228.97	2.01938
383353.01	3744228.97	2.19393	383403.01	3744228.97	2.38365
383453.01	3744228.97	2.58468	383503.01	3744228.97	2.79108
383553.01	3744228.97	2.99167	383603.01	3744228.97	3.17087
383653.01	3744228.97	3.30834	383703.01	3744228.97	3.38736
383753.01	3744228.97	3.39816	383803.01	3744228.97	3.31054
383853.01	3744228.97	3.14313	383903.01	3744228.97	2.88907
383953.01	3744228.97	2.64146	384003.01	3744228.97	2.40627
384053.01	3744228.97	2.16202	384103.01	3744228.97	1.94280
384153.01	3744228.97	1.75012	384203.01	3744228.97	1.58204
384253.01	3744228.97	1.43576	384303.01	3744228.97	1.30781
384353.01	3744228.97	1.19577	382953.01	3744278.97	1.11467
383003.01	3744278.97	1.18623	383053.01	3744278.97	1.26495
383103.01	3744278.97	1.35206	383153.01	3744278.97	1.44867
383203.01	3744278.97	1.55544	383253.01	3744278.97	1.67300
383303.01	3744278.97	1.80389	383353.01	3744278.97	1.94646
383403.01	3744278.97	2.09700	383453.01	3744278.97	2.25310
383503.01	3744278.97	2.41225	383553.01	3744278.97	2.56534
383603.01	3744278.97	2.70038	383653.01	3744278.97	2.79973
383703.01	3744278.97	2.86933	383753.01	3744278.97	2.87219
383803.01	3744278.97	2.81880	383853.01	3744278.97	2.68147
383903.01	3744278.97	2.50860	383953.01		

```
3744278.97        2.34476
         384003.01    3744278.97        2.14454                        384053.01
3744278.97        1.94935
         384103.01    3744278.97        1.77079                        384153.01
3744278.97        1.60787
         384203.01    3744278.97        1.46430                        384253.01
3744278.97        1.33729
         384303.01    3744278.97        1.22530                        384353.01
3744278.97        1.12600
         382453.01    3742678.97        0.31279                        382553.01
3742678.97        0.35327
         382653.01    3742678.97        0.38694                        382753.01
3742678.97        0.36771
         382853.01    3742678.97        0.39652                        382953.01
3742678.97        0.40324
         383053.01    3742678.97        0.46108                        383153.01
3742678.97        0.48448
         383253.01    3742678.97        0.63716                        383353.01
3742678.97        0.68058
         383453.01    3742678.97        0.70976                        383553.01
3742678.97        0.75115
         383653.01    3742678.97        0.79866                        383753.01
3742678.97        0.83999
         383853.01    3742678.97        0.87842                        383953.01
3742678.97        0.91171
         384053.01    3742678.97        0.94088                        384153.01
3742678.97        0.97005
         384253.01    3742678.97        1.01785                        384353.01
3742678.97        1.04436
         384453.01    3742678.97        1.08839                        384553.01
3742678.97        1.12978
         384653.01    3742678.97        1.16008                        384753.01
3742678.97        1.17283
         384853.01    3742678.97        1.16455                        382453.01
3742778.97        0.35965

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        15:40:32

                                 PAGE  49
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
```

```
                 L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                 L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         382553.01    3742778.97        0.40577                       382653.01
3742778.97        0.44864
         382753.01    3742778.97        0.45260                       382853.01
3742778.97        0.49742
         382953.01    3742778.97        0.46819                       383053.01
3742778.97        0.53666
         383153.01    3742778.97        0.65693                       383253.01
3742778.97        0.68311
         383353.01    3742778.97        0.69953                       383453.01
3742778.97        0.83803
         383553.01    3742778.97        0.88513                       383653.01
3742778.97        0.94238
         383753.01    3742778.97        0.99617                       383853.01
3742778.97        1.04557
         383953.01    3742778.97        1.08856                       384053.01
3742778.97        1.12759
         384153.01    3742778.97        1.16970                       384253.01
3742778.97        1.21904
         384353.01    3742778.97        1.27429                       384453.01
3742778.97        1.32756
         384553.01    3742778.97        1.36643                       384653.01
3742778.97        1.38132
         384753.01    3742778.97        1.36578                       384853.01
3742778.97        1.32159
         382453.01    3742878.97        0.40771                       382553.01
3742878.97        0.44935
         382653.01    3742878.97        0.49685                       382753.01
3742878.97        0.54382
         382853.01    3742878.97        0.58582                       382953.01
3742878.97        0.64139
         383053.01    3742878.97        0.69106                       383153.01
3742878.97        0.75388
         383253.01    3742878.97        0.81808                       383353.01
3742878.97        0.91222
         383453.01    3742878.97        0.99212                       383553.01
```

```
3742878.97        1.06091
         383653.01    3742878.97        1.13299                    383753.01
3742878.97        1.20428
         383853.01    3742878.97        1.27013                    383953.01
3742878.97        1.32751
         384053.01    3742878.97        1.38264                    384153.01
3742878.97        1.44585
         384253.01    3742878.97        1.51827                    384353.01
3742878.97        1.58866
         384453.01    3742878.97        1.64006                    384553.01
3742878.97        1.65489
         384653.01    3742878.97        1.62909                    384753.01
3742878.97        1.56089
         384853.01    3742878.97        1.46188                    382453.01
3742978.97        0.44499
         382553.01    3742978.97        0.49133                    382653.01
3742978.97        0.54427
         382753.01    3742978.97        0.60094                    382853.01
3742978.97        0.66297
         382953.01    3742978.97        0.74221                    383053.01
3742978.97        0.81444
         383153.01    3742978.97        0.90282                    383253.01
3742978.97        0.99221
         383353.01    3742978.97        1.10080                    383453.01
3742978.97        1.19653
         383553.01    3742978.97        1.29326                    383653.01
3742978.97        1.39317
         383753.01    3742978.97        1.49229                    383853.01
3742978.97        1.58262
         383953.01    3742978.97        1.66393                    384053.01
3742978.97        1.74843
         384153.01    3742978.97        1.84468                    384253.01
3742978.97        1.94271
         384353.01    3742978.97        2.01305                    384453.01
3742978.97        2.02807
         384553.01    3742978.97        1.98155                    384653.01
3742978.97        1.87526
         384753.01    3742978.97        1.72895                    384853.01
3742978.97        1.55991
         382453.01    3743078.97        0.48255                    382553.01
3743078.97        0.53553
         382653.01    3743078.97        0.59563                    382753.01
3743078.97        0.66599
         382853.01    3743078.97        0.74237                    382953.01
3743078.97        0.83853

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***       15:40:32
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
383053.01	3743078.97	0.94416	383153.01	3743078.97	1.06393
383253.01	3743078.97	1.19548	383353.01	3743078.97	1.33389
383453.01	3743078.97	1.47500	383553.01	3743078.97	1.61802
383653.01	3743078.97	1.76350	383753.01	3743078.97	1.90751
383853.01	3743078.97	2.03916	383953.01	3743078.97	2.16395
384053.01	3743078.97	2.29656	384153.01	3743078.97	2.44050
384253.01	3743078.97	2.54268	384353.01	3743078.97	2.55837
384453.01	3743078.97	2.47193	384553.01	3743078.97	2.29940
384653.01	3743078.97	2.07514	384753.01	3743078.97	1.83036
384853.01	3743078.97	1.59076	382453.01	3743178.97	0.51920
382553.01	3743178.97	0.57859	382653.01	3743178.97	0.65077
382753.01	3743178.97	0.73367	382853.01	3743178.97	0.83212
384453.01	3743178.97	2.89560	384553.01		

3743178.97 2.53735
384653.01 3743178.97 2.17091 384753.01
3743178.97 1.83400
384853.01 3743178.97 1.54182 382453.01
3743278.97 0.55397
382553.01 3743278.97 0.62253 382653.01
3743278.97 0.70501
382753.01 3743278.97 0.80441 382853.01
3743278.97 0.92552
384453.01 3743278.97 3.16718 384553.01
3743278.97 2.60386
384653.01 3743278.97 2.12267 384753.01
3743278.97 1.73232
384853.01 3743278.97 1.42336 382453.01
3743378.97 0.58681
382553.01 3743378.97 0.66440 382653.01
3743378.97 0.75915
382753.01 3743378.97 0.87638 382853.01
3743378.97 1.02339
384453.01 3743378.97 3.15785 384553.01
3743378.97 2.46023
384653.01 3743378.97 1.93962 384753.01
3743378.97 1.55421
384853.01 3743378.97 1.26753 382453.01
3743478.97 0.61870
382553.01 3743478.97 0.70504 382653.01
3743478.97 0.81211
382753.01 3743478.97 0.94705 382853.01
3743478.97 1.12109
384453.01 3743478.97 2.84049 384553.01
3743478.97 2.15570
384653.01 3743478.97 1.68521 384753.01
3743478.97 1.35232
384853.01 3743478.97 1.10232 382453.01
3743578.97 0.65053
382553.01 3743578.97 0.74534 382653.01
3743578.97 0.86444
382753.01 3743578.97 1.01730 382853.01
3743578.97 1.21820
384453.01 3743578.97 2.37043 384553.01
3743578.97 1.81474
384653.01 3743578.97 1.43037 384753.01
3743578.97 1.17025
384853.01 3743578.97 0.97677 382453.01
3743678.97 0.68140
382553.01 3743678.97 0.78436 382653.01
3743678.97 0.91486
382753.01 3743678.97 1.08449 382853.01
3743678.97 1.31094
384453.01 3743678.97 1.92174 384553.01

3743678.97   1.52920
         384653.01   3743678.97   1.24010   384753.01
3743678.97   1.02914
         384853.01   3743678.97   0.87054   382453.01
3743778.97   0.70829

 *** AERMOD - VERSION 24142 ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***   06/25/25
 *** AERMET - VERSION 22112 ***   ***
                      ***   15:40:32

                                  PAGE 51
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         382553.01   3743778.97   0.81764   382653.01
3743778.97   0.95692
         382753.01   3743778.97   1.13917   382853.01
3743778.97   1.38475
         384453.01   3743778.97   1.64089   384553.01
3743778.97   1.32117
         384653.01   3743778.97   1.09098   384753.01
3743778.97   0.91865
         384853.01   3743778.97   0.78610   382453.01
3743878.97   0.72525
         382553.01   3743878.97   0.83725   382653.01
3743878.97   0.97943
         382753.01   3743878.97   1.16430   382853.01
3743878.97   1.41144
         384453.01   3743878.97   1.43374   384553.01

3743878.97 1.17237
384653.01 3743878.97 0.97992 384753.01 3743878.97 0.83346
384853.01 3743878.97 0.71912 382453.01 3743978.97 0.72755
382553.01 3743978.97 0.83621 382653.01 3743978.97 0.97235
382753.01 3743978.97 1.14551 382853.01 3743978.97 1.37027
384453.01 3743978.97 1.28672 384553.01 3743978.97 1.06391
384653.01 3743978.97 0.89680 384753.01 3743978.97 0.76797
384853.01 3743978.97 0.66656 382453.01 3744078.97 0.71324
382553.01 3744078.97 0.81257 382653.01 3744078.97 0.93383
382753.01 3744078.97 1.08256 382853.01 3744078.97 1.26727
384453.01 3744078.97 1.16894 384553.01 3744078.97 0.97764
384653.01 3744078.97 0.83093 384753.01 3744078.97 0.71618
384853.01 3744078.97 0.62470 382453.01 3744178.97 0.68302
382553.01 3744178.97 0.76868 382653.01 3744178.97 0.86966
382753.01 3744178.97 0.98896 382853.01 3744178.97 1.13059
384453.01 3744178.97 1.06112 384553.01 3744178.97 0.89978
384653.01 3744178.97 0.77264 384753.01 3744178.97 0.67107
384853.01 3744178.97 0.58880 382453.01 3744278.97 0.64023
382553.01 3744278.97 0.71043 382653.01 3744278.97 0.79081
382753.01 3744278.97 0.88285 382853.01 3744278.97 0.98946
384453.01 3744278.97 0.95903 384553.01 3744278.97 0.82531
384653.01 3744278.97 0.71700 384753.01 3744278.97 0.62841
384853.01 3744278.97 0.55530 382453.01 3744378.97 0.59034
382553.01 3744378.97 0.64636 382653.01 3744378.97 0.70936
382753.01 3744378.97 0.78066 382853.01 3744378.97 0.86327
382953.01 3744378.97 0.96086 383053.01

```
3744378.97        1.07669
         383153.01    3744378.97        1.21529                      383253.01
3744378.97        1.37719
         383353.01    3744378.97        1.56130                      383453.01
3744378.97        1.75808
         383553.01    3744378.97        1.94722                      383653.01
3744378.97        2.09394
         383753.01    3744378.97        2.14651                      383853.01
3744378.97        2.05770
         383953.01    3744378.97        1.85613                      384053.01
3744378.97        1.60359
         384153.01    3744378.97        1.36376                      384253.01
3744378.97        1.16202
         384353.01    3744378.97        0.99784                      384453.01
3744378.97        0.86416

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        15:40:32

                                  PAGE  52
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                         X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         384553.01    3744378.97        0.75423                      384653.01
3744378.97        0.66300
         384753.01    3744378.97        0.58666                      384853.01
3744378.97        0.52253
         382453.01    3744478.97        0.53854                      382553.01
```

3744478.97 0.58362
382653.01 3744478.97 0.63425 382753.01
3744478.97 0.69194
382853.01 3744478.97 0.75881 382953.01
3744478.97 0.83741
383053.01 3744478.97 0.92906 383153.01
3744478.97 1.03477
383253.01 3744478.97 1.15284 383353.01
3744478.97 1.28025
383453.01 3744478.97 1.41152 383553.01
3744478.97 1.53212
383653.01 3744478.97 1.62931 383753.01
3744478.97 1.66055
383853.01 3744478.97 1.62322 383953.01
3744478.97 1.50072
384053.01 3744478.97 1.33531 384153.01
3744478.97 1.16572
384253.01 3744478.97 1.01415 384353.01
3744478.97 0.88567
384453.01 3744478.97 0.77819 384553.01
3744478.97 0.68780
384653.01 3744478.97 0.61119 384753.01
3744478.97 0.54613
384853.01 3744478.97 0.49031 382453.01
3744578.97 0.48951
382553.01 3744578.97 0.52683 382653.01
3744578.97 0.56908
382753.01 3744578.97 0.61759 382853.01
3744578.97 0.67353
382953.01 3744578.97 0.73787 383053.01
3744578.97 0.81065
383153.01 3744578.97 0.89136 383253.01
3744578.97 0.97773
383353.01 3744578.97 1.06858 383453.01
3744578.97 1.15790
383553.01 3744578.97 1.24366 383653.01
3744578.97 1.29964
383753.01 3744578.97 1.33796 383853.01
3744578.97 1.31400
383953.01 3744578.97 1.23745 384053.01
3744578.97 1.12642
384153.01 3744578.97 1.00472 384253.01
3744578.97 0.88969
384353.01 3744578.97 0.78859 384453.01
3744578.97 0.70158
384553.01 3744578.97 0.62705 384653.01
3744578.97 0.56289
384753.01 3744578.97 0.50732 384853.01
3744578.97 0.45902
382453.01 3744678.97 0.44573 382553.01

```
3744678.97        0.47780
         382653.01    3744678.97        0.51419                        382753.01
3744678.97        0.55570
         382853.01    3744678.97        0.60269                        382953.01
3744678.97        0.65547
         383053.01    3744678.97        0.71324                        383153.01
3744678.97        0.77518
         383253.01    3744678.97        0.83952                        383353.01
3744678.97        0.90555
         383453.01    3744678.97        0.97019                        383553.01
3744678.97        1.02447
         383653.01    3744678.97        1.07832                        383753.01
3744678.97        1.09978
         383853.01    3744678.97        1.08542                        383953.01
3744678.97        1.03652
         384053.01    3744678.97        0.96084                        384153.01
3744678.97        0.87340
         384253.01    3744678.97        0.78529                        384353.01
3744678.97        0.70476
         384453.01    3744678.97        0.63392                        384553.01
3744678.97        0.57216
         384653.01    3744678.97        0.51815                        384753.01
3744678.97        0.47078
         384853.01    3744678.97        0.42905                        382453.01
3744778.97        0.40796

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        15:40:32

                                  PAGE  53
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                               ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **
```

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
382553.01	3744778.97	0.43606	382653.01	3744778.97	0.46795
382753.01	3744778.97	0.50367	382853.01	3744778.97	0.54322
382953.01	3744778.97	0.58622	383053.01	3744778.97	0.63198
383153.01	3744778.97	0.67969	383253.01	3744778.97	0.72862
383353.01	3744778.97	0.77632	383453.01	3744778.97	0.82405
383553.01	3744778.97	0.87032	383653.01	3744778.97	0.90497
383753.01	3744778.97	0.92179	383853.01	3744778.97	0.91463
383953.01	3744778.97	0.88211	384053.01	3744778.97	0.82923
384153.01	3744778.97	0.76461	384253.01	3744778.97	0.69695
384353.01	3744778.97	0.63269	384453.01	3744778.97	0.57453
384553.01	3744778.97	0.52298	384653.01	3744778.97	0.47732
384753.01	3744778.97	0.43680	384853.01	3744778.97	0.40072
381453.01	3741678.97	0.12946	381653.01	3741678.97	0.11393
381853.01	3741678.97	0.11348	382053.01	3741678.97	0.12711
382253.01	3741678.97	0.13871	382453.01	3741678.97	0.17118
382653.01	3741678.97	0.18241	382853.01	3741678.97	0.17157
383053.01	3741678.97	0.17165	383253.01	3741678.97	0.19056
383453.01	3741678.97	0.22141	383653.01	3741678.97	0.24229
383853.01	3741678.97	0.26571	384053.01	3741678.97	0.29170
384253.01	3741678.97	0.31446	384453.01	3741678.97	0.31391
384653.01	3741678.97	0.33474	384853.01	3741678.97	0.34191
385053.01	3741678.97	0.34022	385253.01	3741678.97	0.35631
385453.01	3741678.97	0.37277	385653.01		

```
3741678.97        0.38636
         385853.01    3741678.97        0.39349                        381453.01
3741878.97        0.12812
         381653.01    3741878.97        0.14800                        381853.01
3741878.97        0.12961
         382053.01    3741878.97        0.13871                        382253.01
3741878.97        0.15029
         382453.01    3741878.97        0.16422                        382653.01
3741878.97        0.18375
         382853.01    3741878.97        0.18800                        383053.01
3741878.97        0.19585
         383253.01    3741878.97        0.21904                        383453.01
3741878.97        0.29426
         383653.01    3741878.97        0.31386                        383853.01
3741878.97        0.33288
         384053.01    3741878.97        0.35172                        384253.01
3741878.97        0.36451
         384453.01    3741878.97        0.38230                        384653.01
3741878.97        0.38943
         384853.01    3741878.97        0.39847                        385053.01
3741878.97        0.41847
         385253.01    3741878.97        0.44014                        385453.01
3741878.97        0.45754
         385653.01    3741878.97        0.46555                        385853.01
3741878.97        0.46142
         381453.01    3742078.97        0.12935                        381653.01
3742078.97        0.15975
         381853.01    3742078.97        0.17963                        382053.01
3742078.97        0.16352
         382253.01    3742078.97        0.16702                        382453.01
3742078.97        0.18501
         382653.01    3742078.97        0.20291                        382853.01
3742078.97        0.22518
         383053.01    3742078.97        0.24913                        383253.01
3742078.97        0.26635

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        15:40:32

                                 PAGE  54
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                 L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
```

```
                 L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                 L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         383453.01    3742078.97        0.34340                       383653.01
3742078.97        0.36302
         383853.01    3742078.97        0.39193                       384053.01
3742078.97        0.42609
         384253.01    3742078.97        0.44096                       384453.01
3742078.97        0.51622
         384653.01    3742078.97        0.47499                       384853.01
3742078.97        0.50075
         385053.01    3742078.97        0.52934                       385253.01
3742078.97        0.55239
         385453.01    3742078.97        0.56150                       385653.01
3742078.97        0.55189
         385853.01    3742078.97        0.52510                       381453.01
3742278.97        0.14147
         381653.01    3742278.97        0.15196                       381853.01
3742278.97        0.17523
         382053.01    3742278.97        0.20434                       382253.01
3742278.97        0.18876
         382453.01    3742278.97        0.21134                       382653.01
3742278.97        0.23493
         382853.01    3742278.97        0.27409                       383053.01
3742278.97        0.34243
         383253.01    3742278.97        0.38879                       383453.01
3742278.97        0.39176
         383653.01    3742278.97        0.45808                       383853.01
3742278.97        0.48372
         384053.01    3742278.97        0.53240                       384253.01
3742278.97        0.55420
         384453.01    3742278.97        0.57856                       384653.01
3742278.97        0.61181
         384853.01    3742278.97        0.65150                       385053.01
3742278.97        0.68337
         385253.01    3742278.97        0.69295                       385453.01
3742278.97        0.67364
         385653.01    3742278.97        0.62915                       385853.01
```

```
3742278.97        0.56856
         381453.01    3742478.97        0.16439                     381653.01
3742478.97        0.18301
         381853.01    3742478.97        0.18743                     382053.01
3742478.97        0.21757
         382253.01    3742478.97        0.21874                     382453.01
3742478.97        0.24495
         382653.01    3742478.97        0.27710                     382853.01
3742478.97        0.31198
         383053.01    3742478.97        0.41063                     383253.01
3742478.97        0.49413
         383453.01    3742478.97        0.52436                     383653.01
3742478.97        0.59881
         383853.01    3742478.97        0.64841                     384053.01
3742478.97        0.69048
         384253.01    3742478.97        0.72489                     384453.01
3742478.97        0.76956
         384653.01    3742478.97        0.82546                     384853.01
3742478.97        0.87152
         385053.01    3742478.97        1.10247                     385253.01
3742478.97        0.84299
         385453.01    3742478.97        0.76766                     385653.01
3742478.97        0.67342
         385853.01    3742478.97        0.57636                     381453.01
3742678.97        0.18577
         381653.01    3742678.97        0.20160                     381853.01
3742678.97        0.21909
         382053.01    3742678.97        0.24013                     382253.01
3742678.97        0.26204
         385053.01    3742678.97        1.08759                     385253.01
3742678.97        0.95234
         385453.01    3742678.97        0.80593                     385653.01
3742678.97        0.66435
         385853.01    3742678.97        0.54340                     381453.01
3742878.97        0.20773
         381653.01    3742878.97        0.23473                     381853.01
3742878.97        0.25763
         382053.01    3742878.97        0.28634                     382253.01
3742878.97        0.35009
         385053.01    3742878.97        1.21766                     385253.01
3742878.97        0.97207
         385453.01    3742878.97        0.76487                     385653.01
3742878.97        0.60352
         385853.01    3742878.97        0.48192                     381453.01
3743078.97        0.22786

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***       15:40:32
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
381653.01	3743078.97	0.25643	381853.01	3743078.97	0.29219
382053.01	3743078.97	0.33702	382253.01	3743078.97	0.40158
385053.01	3743078.97	1.17922	385253.01	3743078.97	0.87664
385453.01	3743078.97	0.66515	385653.01	3743078.97	0.51825
385853.01	3743078.97	0.41476	381453.01	3743278.97	0.24668
381653.01	3743278.97	0.27572	381853.01	3743278.97	0.31883
382053.01	3743278.97	0.37455	382253.01	3743278.97	0.44788
385053.01	3743278.97	0.98733	385253.01	3743278.97	0.72682
385453.01	3743278.97	0.55561	385653.01	3743278.97	0.44027
385853.01	3743278.97	0.35912	381453.01	3743478.97	0.25547
381653.01	3743478.97	0.28596	381853.01	3743478.97	0.33910
382053.01	3743478.97	0.40132	382253.01	3743478.97	0.49005
385053.01	3743478.97	0.79211	385253.01		

3743478.97 0.59817
385453.01 3743478.97 0.47085 385653.01
3743478.97 0.38237
385853.01 3743478.97 0.31808 381453.01
3743678.97 0.27556
381653.01 3743678.97 0.31953 381853.01
3743678.97 0.35816
382053.01 3743678.97 0.43442 382253.01
3743678.97 0.53121
385053.01 3743678.97 0.65063 385253.01
3743678.97 0.50813
385453.01 3743678.97 0.40992 385653.01
3743678.97 0.33905
385853.01 3743678.97 0.28600 381453.01
3743878.97 0.28850
381653.01 3743878.97 0.32222 381853.01
3743878.97 0.37799
382053.01 3743878.97 0.45588 382253.01
3743878.97 0.56215
385053.01 3743878.97 0.55407 385253.01
3743878.97 0.44231
385453.01 3743878.97 0.36282 385653.01
3743878.97 0.30401
385853.01 3743878.97 0.25917 381453.01
3744078.97 0.29576
381653.01 3744078.97 0.32187 381853.01
3744078.97 0.37659
382053.01 3744078.97 0.45509 382253.01
3744078.97 0.56207
385053.01 3744078.97 0.48947 385253.01
3744078.97 0.39578
385453.01 3744078.97 0.32804 385653.01
3744078.97 0.27716
385853.01 3744078.97 0.23787 381453.01
3744278.97 0.27815
381653.01 3744278.97 0.31649 381853.01
3744278.97 0.36682
382053.01 3744278.97 0.43603 382253.01
3744278.97 0.52508
385053.01 3744278.97 0.44315 385253.01
3744278.97 0.36265
385453.01 3744278.97 0.30301 385653.01
3744278.97 0.25762
385853.01 3744278.97 0.22222 381453.01
3744478.97 0.26216
381653.01 3744478.97 0.29780 381853.01
3744478.97 0.34268
382053.01 3744478.97 0.39667 382253.01
3744478.97 0.46105
385053.01 3744478.97 0.40082 385253.01

3744478.97   0.33357
         385453.01   3744478.97   0.28196   385653.01
3744478.97   0.24171
         385853.01   3744478.97   0.20972   381453.01
3744678.97   0.24439

 *** AERMOD - VERSION 24142 ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***   06/25/25
 *** AERMET - VERSION 22112 ***   ***
                      ***   15:40:32

                                  PAGE 56
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         381653.01   3744678.97   0.27417   381853.01
3744678.97   0.30802
         382053.01   3744678.97   0.34667   382253.01
3744678.97   0.39167
         385053.01   3744678.97   0.35950   385253.01
3744678.97   0.30479
         385453.01   3744678.97   0.26137   385653.01
3744678.97   0.22644
         385853.01   3744678.97   0.19810   381453.01
3744878.97   0.22319
         381653.01   3744878.97   0.24554   381853.01
3744878.97   0.27052
         382053.01   3744878.97   0.29910   382253.01
3744878.97   0.33326
         382453.01   3744878.97   0.37559   382653.01

3744878.97 0.42835
382853.01 3744878.97 0.49187 383053.01 3744878.97 0.56329
383253.01 3744878.97 0.63824 383453.01 3744878.97 0.71228
383653.01 3744878.97 0.77204 383853.01 3744878.97 0.78261
384053.01 3744878.97 0.72243 384253.01 3744878.97 0.62198
384453.01 3744878.97 0.52244 384653.01 3744878.97 0.44030
384853.01 3744878.97 0.37423 385053.01 3744878.97 0.32059
385253.01 3744878.97 0.27668 385453.01 3744878.97 0.24072
385653.01 3744878.97 0.21099 385853.01 3744878.97 0.18630
381453.01 3745078.97 0.20027 381653.01 3745078.97 0.21741
381853.01 3745078.97 0.23696 382053.01 3745078.97 0.26033
382253.01 3745078.97 0.28857 382453.01 3745078.97 0.32294
382653.01 3745078.97 0.36318 382853.01 3745078.97 0.40794
383053.01 3745078.97 0.45468 383253.01 3745078.97 0.49973
383453.01 3745078.97 0.54763 383653.01 3745078.97 0.58417
383853.01 3745078.97 0.59419 384053.01 3745078.97 0.56366
384253.01 3745078.97 0.50312 384453.01 3745078.97 0.43633
384653.01 3745078.97 0.37676 384853.01 3745078.97 0.32695
385053.01 3745078.97 0.28534 385253.01 3745078.97 0.25032
385453.01 3745078.97 0.22073 385653.01 3745078.97 0.19569
385853.01 3745078.97 0.17442 381453.01 3745278.97 0.17907
381653.01 3745278.97 0.19336 381853.01 3745278.97 0.21010
382053.01 3745278.97 0.23015 382253.01 3745278.97 0.25393
382453.01 3745278.97 0.28178 382653.01 3745278.97 0.31132
382853.01 3745278.97 0.34271 383053.01 3745278.97 0.37346
383253.01 3745278.97 0.40635 383453.01

```
3745278.97        0.43595
         383653.01    3745278.97        0.46006                       383853.01
3745278.97        0.46838
         384053.01    3745278.97        0.45216                       384253.01
3745278.97        0.41489
         384453.01    3745278.97        0.36913                       384653.01
3745278.97        0.32523
         384853.01    3745278.97        0.28700                       385053.01
3745278.97        0.25432
         385253.01    3745278.97        0.22621                       385453.01
3745278.97        0.20194
         385653.01    3745278.97        0.18092                       385853.01
3745278.97        0.16276
         381453.01    3745478.97        0.16133                       381653.01
3745478.97        0.17400

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        15:40:32

                                  PAGE  57
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                          X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         381853.01    3745478.97        0.18889                       382053.01
3745478.97        0.20608
         382253.01    3745478.97        0.23394                       382453.01
3745478.97        0.24682
         382653.01    3745478.97        0.27118                       382853.01
```

3745478.97 0.29183
383053.01 3745478.97 0.31421 383253.01 3745478.97 0.33626
383453.01 3745478.97 0.35689 383653.01 3745478.97 0.37364
383853.01 3745478.97 0.38040 384053.01 3745478.97 0.37155
384253.01 3745478.97 0.34787 384453.01 3745478.97 0.31594
384653.01 3745478.97 0.28324 384853.01 3745478.97 0.25345
385053.01 3745478.97 0.22738 385253.01 3745478.97 0.20463
385453.01 3745478.97 0.18465 385653.01 3745478.97 0.16702
385853.01 3745478.97 0.15152 381453.01 3745678.97 0.14692
381653.01 3745678.97 0.15829 381853.01 3745678.97 0.17135
382053.01 3745678.97 0.18586 382253.01 3745678.97 0.20151
382453.01 3745678.97 0.22243 382653.01 3745678.97 0.23477
382853.01 3745678.97 0.25142 383053.01 3745678.97 0.26780
383253.01 3745678.97 0.28370 383453.01 3745678.97 0.29856
383653.01 3745678.97 0.31071 383853.01 3745678.97 0.31630
384053.01 3745678.97 0.31149 384253.01 3745678.97 0.29597
384453.01 3745678.97 0.27344 384653.01 3745678.97 0.24876
384853.01 3745678.97 0.22526 385053.01 3745678.97 0.20417
385253.01 3745678.97 0.18552 385453.01 3745678.97 0.16894
385653.01 3745678.97 0.15414 385853.01 3745678.97 0.14096
381453.01 3745878.97 0.13505 381653.01 3745878.97 0.14517
381853.01 3745878.97 0.15627 382053.01 3745878.97 0.16820
382253.01 3745878.97 0.18066 382453.01 3745878.97 0.19352
382653.01 3745878.97 0.20624 382853.01 3745878.97 0.21901
383053.01 3745878.97 0.23126 383253.01 3745878.97 0.24309
383453.01 3745878.97 0.25432 383653.01

```
3745878.97        0.26357
         383853.01    3745878.97        0.26823                      384053.01
3745878.97        0.26566
         384253.01    3745878.97        0.25522                      384453.01
3745878.97        0.23896
         384653.01    3745878.97        0.22017                      384853.01
3745878.97        0.20147
         385053.01    3745878.97        0.18421                      385253.01
3745878.97        0.16873
         385453.01    3745878.97        0.15485                      385653.01
3745878.97        0.14234
         385853.01    3745878.97        0.13103                      378453.01
3738678.97        0.02066
         378953.01    3738678.97        0.02104                      379453.01
3738678.97        0.02361
         379953.01    3738678.97        0.02754                      380453.01
3738678.97        0.04231
         380953.01    3738678.97        0.04532                      381453.01
3738678.97        0.04077
         381953.01    3738678.97        0.05100                      382453.01
3738678.97        0.05345
         382953.01    3738678.97        0.05602                      383453.01
3738678.97        0.05932
         383953.01    3738678.97        0.06307                      384453.01
3738678.97        0.06620

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        15:40:32

                                  PAGE  58
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                               ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **
```

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
384953.01	3738678.97	0.06842	385453.01	3738678.97	0.06977
385953.01	3738678.97	0.07093	386453.01	3738678.97	0.07241
386953.01	3738678.97	0.07451	387453.01	3738678.97	0.07745
387953.01	3738678.97	0.08125	388453.01	3738678.97	0.08534
388953.01	3738678.97	0.08876	378453.01	3739178.97	0.02493
378953.01	3739178.97	0.02662	379453.01	3739178.97	0.02944
379953.01	3739178.97	0.04369	380453.01	3739178.97	0.04750
380953.01	3739178.97	0.05147	381453.01	3739178.97	0.05542
381953.01	3739178.97	0.05915	382453.01	3739178.97	0.04822
382953.01	3739178.97	0.05619	383453.01	3739178.97	0.07004
383953.01	3739178.97	0.07493	384453.01	3739178.97	0.07897
384953.01	3739178.97	0.08166	385453.01	3739178.97	0.08336
385953.01	3739178.97	0.08502	386453.01	3739178.97	0.08748
386953.01	3739178.97	0.09105	387453.01	3739178.97	0.09592
387953.01	3739178.97	0.10131	388453.01	3739178.97	0.10550
388953.01	3739178.97	0.10701	378453.01	3739678.97	0.02827
378953.01	3739678.97	0.03003	379453.01	3739678.97	0.03243
379953.01	3739678.97	0.03643	380453.01	3739678.97	0.05361
380953.01	3739678.97	0.05888	381453.01	3739678.97	0.06429
381953.01	3739678.97	0.06063	382453.01	3739678.97	0.07431
382953.01	3739678.97	0.06010	383453.01	3739678.97	0.06827
383953.01	3739678.97	0.09090	384453.01	3739678.97	0.09616
384953.01	3739678.97	0.09946	385453.01		

```
3739678.97        0.10176
         385953.01    3739678.97        0.10457                        386453.01
3739678.97        0.10904
         386953.01    3739678.97        0.11538                        387453.01
3739678.97        0.12266
         387953.01    3739678.97        0.12815                        388453.01
3739678.97        0.12917
         388953.01    3739678.97        0.12494                        378453.01
3740178.97        0.03270
         378953.01    3740178.97        0.03423                        379453.01
3740178.97        0.03654
         379953.01    3740178.97        0.04060                        380453.01
3740178.97        0.04453
         380953.01    3740178.97        0.06782                        381453.01
3740178.97        0.07535
         381953.01    3740178.97        0.07525                        382453.01
3740178.97        0.07711
         382953.01    3740178.97        0.09553                        383453.01
3740178.97        0.10418
         383953.01    3740178.97        0.10980                        384453.01
3740178.97        0.12346
         384953.01    3740178.97        0.13545                        385453.01
3740178.97        0.12813
         385953.01    3740178.97        0.13358                        386453.01
3740178.97        0.14212
         386953.01    3740178.97        0.15224                        387453.01
3740178.97        0.15955
         387953.01    3740178.97        0.15957                        388453.01
3740178.97        0.15105
         388953.01    3740178.97        0.13650                        378453.01
3740678.97        0.03940
         378953.01    3740678.97        0.04095                        379453.01
3740678.97        0.04309
         379953.01    3740678.97        0.04592                        380453.01
3740678.97        0.05188

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        15:40:32

                                 PAGE  59
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                 INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                 L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
```

L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
380953.01	3740678.97	0.07864	381453.01	3740678.97	0.08856
381953.01	3740678.97	0.09774	382453.01	3740678.97	0.08306
382953.01	3740678.97	0.08840	383453.01	3740678.97	0.10560
383953.01	3740678.97	0.13686	384453.01	3740678.97	0.16299
384953.01	3740678.97	0.17807	385453.01	3740678.97	0.19707
385953.01	3740678.97	0.20599	386453.01	3740678.97	0.19521
386953.01	3740678.97	0.20525	387453.01	3740678.97	0.20241
387953.01	3740678.97	0.18613	388453.01	3740678.97	0.16165
388953.01	3740678.97	0.13555	378453.01	3741178.97	0.04906
378953.01	3741178.97	0.05108	379453.01	3741178.97	0.05300
379953.01	3741178.97	0.05604	380453.01	3741178.97	0.06091
380953.01	3741178.97	0.09183	381453.01	3741178.97	0.08150
381953.01	3741178.97	0.09684	382453.01	3741178.97	0.14087
382953.01	3741178.97	0.11694	383453.01	3741178.97	0.14000
383953.01	3741178.97	0.19773	384453.01	3741178.97	0.22785
384953.01	3741178.97	0.23436	385453.01	3741178.97	0.23823
385953.01	3741178.97	0.26352	386453.01	3741178.97	0.27567
386953.01	3741178.97	0.26549	387453.01		

```
3741178.97        0.23340
         387953.01    3741178.97        0.19250                      388453.01
3741178.97        0.15362
         388953.01    3741178.97        0.12185                      378453.01
3741678.97        0.05794
         378953.01    3741678.97        0.06317                      379453.01
3741678.97        0.06781
         379953.01    3741678.97        0.07138                      380453.01
3741678.97        0.09113
         380953.01    3741678.97        0.10796                      385953.01
3741678.97        0.39386
         386453.01    3741678.97        0.36328                      386953.01
3741678.97        0.29765
         387453.01    3741678.97        0.22858                      387953.01
3741678.97        0.17245
         388453.01    3741678.97        0.13153                      388953.01
3741678.97        0.10294
         378453.01    3742178.97        0.06523                      378953.01
3742178.97        0.07227
         379453.01    3742178.97        0.08071                      379953.01
3742178.97        0.09189
         380453.01    3742178.97        0.10142                      380953.01
3742178.97        0.12720
         385953.01    3742178.97        0.52440                      386453.01
3742178.97        0.38369
         386953.01    3742178.97        0.26822                      387453.01
3742178.97        0.19053
         387953.01    3742178.97        0.14088                      388453.01
3742178.97        0.10861
         388953.01    3742178.97        0.08693                      378453.01
3742678.97        0.06828
         378953.01    3742678.97        0.07793                      379453.01
3742678.97        0.09072
         379953.01    3742678.97        0.10492                      380453.01
3742678.97        0.12199
         380953.01    3742678.97        0.14819                      385953.01
3742678.97        0.49162
         386453.01    3742678.97        0.30788                      386953.01
3742678.97        0.20819
         387453.01    3742678.97        0.15123                      387953.01
3742678.97        0.11607
         388453.01    3742678.97        0.09275                      388953.01
3742678.97        0.07638
         378453.01    3743178.97        0.07019                      378953.01
3743178.97        0.07880

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***       15:40:32
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
379453.01	3743178.97	0.09239	379953.01	3743178.97	0.11038
380453.01	3743178.97	0.13425	380953.01	3743178.97	0.17393
385953.01	3743178.97	0.34914	386453.01	3743178.97	0.23066
386953.01	3743178.97	0.16642	387453.01	3743178.97	0.12714
387953.01	3743178.97	0.10111	388453.01	3743178.97	0.08284
388953.01	3743178.97	0.05891	378453.01	3743678.97	0.07416
378953.01	3743678.97	0.08665	379453.01	3743678.97	0.10182
379953.01	3743678.97	0.12191	380453.01	3743678.97	0.15105
380953.01	3743678.97	0.19913	385953.01	3743678.97	0.26435
386453.01	3743678.97	0.18714	386953.01	3743678.97	0.14079
387453.01	3743678.97	0.11054	387953.01	3743678.97	0.08956
388453.01	3743678.97	0.07440	388953.01	3743678.97	0.04645
378453.01	3744178.97	0.07959	378953.01		

3744178.97 0.09240
379453.01 3744178.97 0.10911 379953.01 3744178.97 0.13062
380453.01 3744178.97 0.16561 380953.01 3744178.97 0.21688
385953.01 3744178.97 0.21392 386453.01 3744178.97 0.15637
386953.01 3744178.97 0.12069 387453.01 3744178.97 0.09645
387953.01 3744178.97 0.07924 388453.01 3744178.97 0.06612
388953.01 3744178.97 0.03233 378453.01 3744678.97 0.07689
378953.01 3744678.97 0.08873 379453.01 3744678.97 0.09475
379953.01 3744678.97 0.11574 380453.01 3744678.97 0.14478
380953.01 3744678.97 0.20513 385953.01 3744678.97 0.18589
386453.01 3744678.97 0.13931 386953.01 3744678.97 0.10878
387453.01 3744678.97 0.08771 387953.01 3744678.97 0.07157
388453.01 3744678.97 0.05955 388953.01 3744678.97 0.05181
378453.01 3745178.97 0.07431 378953.01 3745178.97 0.08614
379453.01 3745178.97 0.10149 379953.01 3745178.97 0.12089
380453.01 3745178.97 0.13083 380953.01 3745178.97 0.17022
385953.01 3745178.97 0.15978 386453.01 3745178.97 0.12443
386953.01 3745178.97 0.09949 387453.01 3745178.97 0.08131
387953.01 3745178.97 0.06516 388453.01 3745178.97 0.04414
388953.01 3745178.97 0.03828 378453.01 3745678.97 0.07171
378953.01 3745678.97 0.08409 379453.01 3745678.97 0.09348
379953.01 3745678.97 0.09541 380453.01 3745678.97 0.10882
380953.01 3745678.97 0.12487 385953.01 3745678.97 0.13487
386453.01 3745678.97 0.10919 386953.01 3745678.97 0.08912
387453.01 3745678.97 0.07074 387953.01 3745678.97 0.05345
388453.01 3745678.97 0.03408 388953.01

3745678.97   0.04609
         378453.01   3746178.97   0.06693   378953.01
3746178.97   0.07314
         379453.01   3746178.97   0.07736   379953.01
3746178.97   0.08140

 *** AERMOD - VERSION 24142 ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***   06/25/25
 *** AERMET - VERSION 22112 ***   ***
                      ***   15:40:32

                                  PAGE 61
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         380453.01   3746178.97   0.08962   380953.01
3746178.97   0.10278
         381453.01   3746178.97   0.12026   381953.01
3746178.97   0.14120
         382453.01   3746178.97   0.16360   382953.01
3746178.97   0.18546
         383453.01   3746178.97   0.20525   383953.01
3746178.97   0.21544
         384453.01   3746178.97   0.19834   384953.01
3746178.97   0.16568
         385453.01   3746178.97   0.13646   385953.01
3746178.97   0.08756
         386453.01   3746178.97   0.07206   386953.01
3746178.97   0.06080
         387453.01   3746178.97   0.05664   387953.01

3746178.97 0.05884
388453.01 3746178.97 0.03964 388953.01 3746178.97 0.03396
378453.01 3746678.97 0.05699 378953.01 3746678.97 0.05888
379453.01 3746678.97 0.06210 379953.01 3746678.97 0.06821
380453.01 3746678.97 0.07688 380953.01 3746678.97 0.08764
381453.01 3746678.97 0.10459 381953.01 3746678.97 0.11369
382453.01 3746678.97 0.12716 382953.01 3746678.97 0.13999
383453.01 3746678.97 0.15167 383953.01 3746678.97 0.15840
384453.01 3746678.97 0.14959 384953.01 3746678.97 0.09770
385453.01 3746678.97 0.06347 385953.01 3746678.97 0.04668
386453.01 3746678.97 0.03288 386953.01 3746678.97 0.02729
387453.01 3746678.97 0.04514 387953.01 3746678.97 0.04055
388453.01 3746678.97 0.03543 388953.01 3746678.97 0.04219
378453.01 3747178.97 0.04654 378953.01 3747178.97 0.04952
379453.01 3747178.97 0.05440 379953.01 3747178.97 0.06097
380453.01 3747178.97 0.06838 380953.01 3747178.97 0.07887
381453.01 3747178.97 0.08424 381953.01 3747178.97 0.09322
382453.01 3747178.97 0.10196 382953.01 3747178.97 0.11009
383453.01 3747178.97 0.11752 383953.01 3747178.97 0.10937
384453.01 3747178.97 0.09252 384953.01 3747178.97 0.06439
385453.01 3747178.97 0.04644 385953.01 3747178.97 0.03397
386453.01 3747178.97 0.02813 386953.01 3747178.97 0.02537
387453.01 3747178.97 0.03952 387953.01 3747178.97 0.03567
388453.01 3747178.97 0.03223 388953.01 3747178.97 0.02840
378453.01 3747678.97 0.04087 378953.01 3747678.97 0.04471
379453.01 3747678.97 0.04952 379953.01

```
3747678.97        0.05521
         380453.01    3747678.97        0.06074                      380953.01
3747678.97        0.06731
         381453.01    3747678.97        0.07165                      381953.01
3747678.97        0.07785
         382453.01    3747678.97        0.08382                      382953.01
3747678.97        0.08930
         383453.01    3747678.97        0.08594                      383953.01
3747678.97        0.08156
         384453.01    3747678.97        0.06985                      384953.01
3747678.97        0.05818
         385453.01    3747678.97        0.04091                      385953.01
3747678.97        0.03184
         386453.01    3747678.97        0.02736                      386953.01
3747678.97        0.02851

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        15:40:32

                                  PAGE  62
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                         X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         387453.01    3747678.97        0.03416                      387953.01
3747678.97        0.03161
         388453.01    3747678.97        0.02870                      388953.01
3747678.97        0.02543
         378453.01    3748178.97        0.03747                      378953.01
```

3748178.97 0.04112
379453.01 3748178.97 0.04527 379953.01
3748178.97 0.04989
380453.01 3748178.97 0.05263 380953.01
3748178.97 0.05710
381453.01 3748178.97 0.06163 381953.01
3748178.97 0.06610
382453.01 3748178.97 0.07034 382953.01
3748178.97 0.07270
383453.01 3748178.97 0.07014 383953.01
3748178.97 0.06704
384453.01 3748178.97 0.05898 384953.01
3748178.97 0.04914
385453.01 3748178.97 0.03991 385953.01
3748178.97 0.03281
386453.01 3748178.97 0.02890 386953.01
3748178.97 0.02745
387453.01 3748178.97 0.02780 387953.01
3748178.97 0.02801
388453.01 3748178.97 0.02597 388953.01
3748178.97 0.02325
378453.01 3748678.97 0.03475 378953.01
3748678.97 0.03710
379453.01 3748678.97 0.04020 379953.01
3748678.97 0.04347
380453.01 3748678.97 0.04682 380953.01
3748678.97 0.05181
381453.01 3748678.97 0.05361 381953.01
3748678.97 0.05694
382453.01 3748678.97 0.05995 382953.01
3748678.97 0.06170
383453.01 3748678.97 0.06006 383953.01
3748678.97 0.05827
384453.01 3748678.97 0.05258 384953.01
3748678.97 0.04703
385453.01 3748678.97 0.03920 385953.01
3748678.97 0.03478
386453.01 3748678.97 0.02987 386953.01
3748678.97 0.02799
387453.01 3748678.97 0.02765 387953.01
3748678.97 0.02527
388453.01 3748678.97 0.02326 388953.01
3748678.97 0.01795
383403.59 3743811.23 11.31735 383435.05
3743828.05 14.31104
383402.50 3743847.04 9.74250 383440.47
3743859.51 11.89743
383407.93 3743900.20 7.82872 383370.50
3743907.25 6.39240
383517.51 3743913.22 11.82413 383555.48

```
3743914.30       13.36013
         383597.25    3744004.35        8.32281                       383583.69
3743978.31        9.41066
         383540.29    3743981.03        8.28018                       383502.86
3743982.65        7.36914
         383501.23    3744030.39        5.80173                       383501.77
3744065.65        4.97861
         383502.86    3744098.74        4.36697                       383530.53
3744138.88        3.95399
         383553.85    3744161.67        3.77647                       383605.39
3744148.11        4.27506
         383575.01    3744160.58        3.91346                       383509.37
3744139.43        3.79794
         383384.06    3743907.25        6.78763


 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        15:40:32

                                  PAGE  63
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
        383453.01   3743678.97       71.46676  (17022701)                383473.01
3743678.97       76.80235  (17022701)
        383493.01   3743678.97       82.78348  (17022701)                383513.01
3743678.97       89.58680  (17022701)
        383533.01   3743678.97       97.33989  (17022701)                383553.01
```

3743678.97 106.27799 (17022701)
383573.01 3743678.97 116.71465 (17022701) 383593.01
3743678.97 142.10724 (17091509)
383613.01 3743678.97 185.79038 (17091809) 383453.01
3743698.97 85.20832 (17022701)
383473.01 3743698.97 92.69701 (17022701) 383493.01
3743698.97 101.41521 (17022701)
383513.01 3743698.97 111.72278 (17022701) 383533.01
3743698.97 124.07174 (17022701)
383553.01 3743698.97 139.14553 (17022701) 383573.01
3743698.97 158.02625 (17022701)
383593.01 3743698.97 190.82393 (19120316) 383613.01
3743698.97 243.01260 (19120316)
383453.01 3743718.97 96.63509 (17022701) 383473.01
3743718.97 105.47814 (17022701)
383493.01 3743718.97 115.88106 (17022701) 383513.01
3743718.97 128.26124 (17022701)
383533.01 3743718.97 143.19427 (17022701) 383553.01
3743718.97 161.44489 (17022701)
383573.01 3743718.97 183.74516 (17022701) 383593.01
3743718.97 211.42725 (19120316)
383613.01 3743718.97 258.13194 (19120316) 383453.01
3743738.97 106.11794 (17022701)
383473.01 3743738.97 115.30276 (17022701) 383493.01
3743738.97 126.10427 (19022422)
383513.01 3743738.97 138.75786 (19121407) 383533.01
3743738.97 153.91665 (19121407)
383553.01 3743738.97 172.26868 (19121407) 383573.01
3743738.97 194.68805 (19121407)
383593.01 3743738.97 221.78632 (19121407) 383613.01
3743738.97 260.83281 (19120316)
383453.01 3743758.97 118.76443 (19121407) 383473.01
3743758.97 128.88600 (19121407)
383493.01 3743758.97 139.40788 (19121407) 383513.01
3743758.97 150.59857 (19121407)
383533.01 3743758.97 163.80142 (15012101) 383553.01
3743758.97 179.99209 (15012101)
383573.01 3743758.97 199.46648 (16012923) 383593.01
3743758.97 224.78279 (15021703)
383613.01 3743758.97 271.78571 (19011505) 383793.01
3743798.97 230.14273 (19011505)
383813.01 3743798.97 194.09229 (19011505) 383833.01
3743798.97 148.03997 (16093007)
383253.01 3743478.97 20.15101 (16010402) 383273.01
3743478.97 20.86940 (17010905)
383293.01 3743478.97 21.59641 (17010905) 383313.01
3743478.97 22.26372 (17010905)
383333.01 3743478.97 22.85148 (17010905) 383353.01
3743478.97 23.34195 (17010905)
383373.01 3743478.97 23.71224 (17010905) 383393.01

```
3743478.97       23.93354  (17010905)
        383413.01   3743478.97       23.97202  (17010905)                383433.01
3743478.97       23.79254  (17010905)
        383453.01   3743478.97       23.36251  (17010905)                383473.01
3743478.97       22.64521  (17010905)
        383493.01   3743478.97       25.28314  (19113016)                383513.01
3743478.97       30.10890  (19113016)
        383533.01   3743478.97       35.29450  (19113016)                383553.01
3743478.97       40.40753  (19113016)
        383573.01   3743478.97       44.82681  (19113016)                383593.01
3743478.97       48.05678  (19113016)
        383613.01   3743478.97       51.04882  (17120503)                383693.01
3743478.97       81.17343  (17120503)
        383713.01   3743478.97       82.77648  (19120219)                383733.01
3743478.97       82.41435  (17120819)
        383753.01   3743478.97       82.51479  (16122020)                383773.01
3743478.97       82.13135  (16122020)
        383793.01   3743478.97       80.47338  (17121120)                383813.01
3743478.97       78.55505  (16020824)
        383833.01   3743478.97       77.85891  (17121219)                383853.01
3743478.97       76.03027  (17121219)
        383873.01   3743478.97       73.12271  (16012104)                383893.01
3743478.97       70.56043  (15020905)
        383913.01   3743478.97       68.70959  (16021119)                383933.01
3743478.97       66.63048  (18012922)

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        15:40:32

                                 PAGE  64
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                 INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                   L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                   L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                   L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                              ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **
```

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
383953.01	3743478.97	63.89660	(18010602)	383973.01	3743478.97	61.90721	(19012618)
383993.01	3743478.97	59.45013	(19012618)	384013.01	3743478.97	56.83456	(16021423)
384033.01	3743478.97	54.52879	(16021423)	383253.01	3743498.97	21.02877	(16010402)
383273.01	3743498.97	21.86218	(16010402)	383293.01	3743498.97	22.66620	(16010402)
383313.01	3743498.97	23.55728	(17010905)	383333.01	3743498.97	24.40853	(17010905)
383353.01	3743498.97	25.18870	(17010905)	383373.01	3743498.97	25.87624	(17010905)
383393.01	3743498.97	26.43616	(17010905)	383413.01	3743498.97	26.82258	(17010905)
383433.01	3743498.97	26.99568	(17010905)	383453.01	3743498.97	26.90529	(17010905)
383473.01	3743498.97	26.48922	(17010905)	383493.01	3743498.97	25.70327	(17010905)
383513.01	3743498.97	30.24404	(19113016)	383533.01	3743498.97	36.05031	(19113016)
383553.01	3743498.97	41.98459	(19113016)	383573.01	3743498.97	47.46640	(19113016)
383593.01	3743498.97	51.83185	(19113016)	383613.01	3743498.97	54.92157	(19113016)
383693.01	3743498.97	87.97670	(17120503)	383713.01	3743498.97	89.70571	(19120219)
383733.01	3743498.97	89.32061	(17120819)	383753.01	3743498.97	89.54965	(16122020)
383773.01	3743498.97	88.38826	(16122020)	383793.01	3743498.97	86.65988	(15021019)
383813.01	3743498.97	84.61217	(17121219)	383833.01	3743498.97	84.06159	(17121219)
383853.01	3743498.97	80.59672	(17121219)	383873.01	3743498.97	77.86570	(16012104)
383893.01	3743498.97	75.64984	(16021119)	383913.01	3743498.97	73.44755	(18012922)
383933.01	3743498.97	70.27911	(18010602)	383953.01	3743498.97	67.94361	(19012618)
383973.01	3743498.97	65.08285	(19012618)	383993.01	3743498.97	62.16301	(16021423)
384013.01	3743498.97	59.45470	(18013006)	384033.01	3743498.97	57.05061	(15021201)
383253.01	3743518.97	21.70662	(15021807)	383273.01	3743518.97	22.73266	(16010402)
383293.01	3743518.97	23.76794	(16010402)	383313.01			

```
3743518.97       24.78555  (16010402)
        383333.01   3743518.97       25.76913  (17010905)                383353.01
3743518.97       26.86189  (17010905)
        383373.01   3743518.97       27.90263  (17010905)                383393.01
3743518.97       28.85301  (17010905)
        383413.01   3743518.97       29.65858  (17010905)                383433.01
3743518.97       30.28708  (17010905)
        383453.01   3743518.97       30.66512  (17010905)                383473.01
3743518.97       30.70557  (17010905)
        383493.01   3743518.97       30.32621  (17010905)                383513.01
3743518.97       30.09369  (19113016)
        383533.01   3743518.97       36.67562  (19113016)                383553.01
3743518.97       43.73004  (19113016)
        383573.01   3743518.97       50.62457  (19113016)                383593.01
3743518.97       56.54665  (19113016)
        383613.01   3743518.97       60.90871  (19113016)                383693.01
3743518.97       95.78046  (17120503)
        383713.01   3743518.97       97.63921  (19120219)                383733.01
3743518.97       97.23679  (17120819)
        383753.01   3743518.97       97.47833  (16122020)                383773.01
3743518.97       95.81785  (15021019)
        383793.01   3743518.97       93.69722  (19022824)                383813.01
3743518.97       92.67201  (17121219)
        383833.01   3743518.97       90.36322  (17121219)                383853.01
3743518.97       86.73177  (16012104)
        383873.01   3743518.97       83.66120  (15020905)                383893.01
3743518.97       81.40059  (18012922)
        383913.01   3743518.97       77.78199  (18010602)                383933.01
3743518.97       75.07853  (16021120)
        383953.01   3743518.97       71.73981  (19012618)                383973.01
3743518.97       68.43443  (16021423)
        383993.01   3743518.97       65.30664  (18013006)                384013.01
3743518.97       62.37438  (15021201)
        384033.01   3743518.97       59.42566  (15021203)                383253.01
3743538.97       22.51931  (15021807)

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        15:40:32

                                 PAGE  65
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                 INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
```

```
                L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        383273.01   3743538.97       23.57050  (15021807)               383293.01
3743538.97       24.62988  (15021807)
        383313.01   3743538.97       25.89400  (16010402)               383333.01
3743538.97       27.15089  (16010402)
        383353.01   3743538.97       28.40506  (16010402)               383373.01
3743538.97       29.68970  (17010905)
        383393.01   3743538.97       31.06531  (17010905)               383413.01
3743538.97       32.34259  (17010905)
        383433.01   3743538.97       33.52811  (17010905)               383453.01
3743538.97       34.50841  (17010905)
        383473.01   3743538.97       35.17939  (17010905)               383493.01
3743538.97       35.42141  (17010905)
        383513.01   3743538.97       35.13377  (17010905)               383533.01
3743538.97       36.77994  (19113016)
        383553.01   3743538.97       45.15344  (19113016)               383573.01
3743538.97       53.85451  (19113016)
        383593.01   3743538.97       62.11019  (19113016)               383613.01
3743538.97       68.22145  (19113016)
        383693.01   3743538.97      104.77699  (17120503)               383713.01
3743538.97      106.74570  (19120219)
        383733.01   3743538.97      106.34528  (17120819)               383753.01
3743538.97      106.43185  (16122020)
        383773.01   3743538.97      104.73409  (15021019)               383793.01
3743538.97      102.08321  (19022824)
        383813.01   3743538.97      101.14588  (17121219)               383833.01
3743538.97       96.87616  (16123001)
        383853.01   3743538.97       93.43768  (15020905)               383873.01
3743538.97       90.75823  (18012922)
        383893.01   3743538.97       86.77925  (18012922)               383913.01
3743538.97       83.49866  (16021120)
        383933.01   3743538.97       79.56828  (16021120)               383953.01
3743538.97       75.78716  (19011921)
        383973.01   3743538.97       72.18046  (15021201)               383993.01
3743538.97       68.52096  (15021201)
        384013.01   3743538.97       65.46874  (15021203)               384033.01
```

```
3743538.97       62.24938  (15021203)
        383253.01   3743558.97       23.10275  (18120620)                383273.01
3743558.97       24.32042  (15021807)
        383293.01   3743558.97       25.62149  (15021807)                383313.01
3743558.97       26.95044  (15021807)
        383333.01   3743558.97       28.26559  (15021807)                383353.01
3743558.97       29.82808  (16010402)
        383373.01   3743558.97       31.45446  (16010402)                383393.01
3743558.97       33.08245  (16010402)
        383413.01   3743558.97       34.75111  (17010905)                383433.01
3743558.97       36.55003  (17010905)
        383453.01   3743558.97       38.24503  (17010905)                383473.01
3743558.97       39.72204  (17010905)
        383493.01   3743558.97       40.83375  (17010905)                383513.01
3743558.97       41.43006  (17010905)
        383533.01   3743558.97       41.29162  (17010905)                383553.01
3743558.97       46.09198  (19113016)
        383573.01   3743558.97       56.73829  (19113016)                383593.01
3743558.97       67.18927  (19113016)
        383613.01   3743558.97       75.95607  (19113016)                383693.01
3743558.97      115.15957  (17120503)
        383713.01   3743558.97      117.15472  (19120219)                383733.01
3743558.97      116.80340  (17120819)
        383753.01   3743558.97      116.48049  (16122020)                383773.01
3743558.97      114.64461  (15021019)
        383793.01   3743558.97      112.82051  (17121219)                383813.01
3743558.97      109.84893  (17121219)
        383833.01   3743558.97      105.08078  (16123001)                383853.01
3743558.97      102.01161  (18012922)
        383873.01   3743558.97       97.78143  (18012922)                383893.01
3743558.97       93.63053  (16021120)
        383913.01   3743558.97       88.93271  (16021120)                383933.01
3743558.97       84.52271  (19011921)
        383953.01   3743558.97       80.34452  (15021201)                383973.01
3743558.97       75.76571  (15021203)
        383993.01   3743558.97       72.17198  (15021203)                384013.01
3743558.97       68.34982  (17121118)
        384033.01   3743558.97       65.04222  (17121118)                383253.01
3743578.97       24.06105  (15021121)
        383273.01   3743578.97       25.12010  (15021121)                383293.01
3743578.97       26.34155  (18120620)
        383313.01   3743578.97       27.86925  (15021807)                383333.01
3743578.97       29.48784  (15021807)
        383353.01   3743578.97       31.17947  (15021807)                383373.01
3743578.97       32.93042  (15021807)

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        15:40:32
```

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL   ***
INCLUDING SOURCE(S):   L0000001   , L0000002 , L0000003   , L0000004   , L0000005   ,
L0000006   , L0000007   , L0000008   , L0000009   , L0000010 , L0000011   , L0000012   , L0000013   ,
L0000014   , L0000015   , L0000016   , L0000017   , L0000018 , L0000019   , L0000020   , L0000021   ,
L0000022   , L0000023   , L0000024   , L0000025   , L0000026 , L0000027   , L0000028   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10   IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
383393.01	3743578.97	34.93723	(16010402)	383413.01	3743578.97	37.06590	(16010402)
383433.01	3743578.97	39.28041	(16010402)	383453.01	3743578.97	41.63130	(17010905)
383473.01	3743578.97	44.05958	(17010905)	383493.01	3743578.97	46.28324	(17010905)
383513.01	3743578.97	48.11708	(17010905)	383533.01	3743578.97	49.24222	(17010905)
383553.01	3743578.97	49.34361	(17010905)	383573.01	3743578.97	59.30118	(19113016)
383593.01	3743578.97	72.87853	(19113016)	383613.01	3743578.97	84.99822	(19113016)
383693.01	3743578.97	127.22560	(17120503)	383713.01	3743578.97	129.08479	(19120219)
383733.01	3743578.97	128.91917	(17120819)	383753.01	3743578.97	128.71069	(15020718)
383773.01	3743578.97	126.44827	(19022824)	383793.01	3743578.97	124.78682	(17121219)
383813.01	3743578.97	119.72546	(16123001)	383833.01	3743578.97	115.63342	(18012922)
383853.01	3743578.97	111.13462	(18012922)	383873.01	3743578.97	105.94424	(16021120)
383893.01	3743578.97	100.22421	(16021120)	383913.01	3743578.97	95.10261	(18013006)
383933.01	3743578.97	90.05738	(15021201)	383953.01			

```
3743578.97       85.20799  (15021203)
        383973.01   3743578.97       80.28874  (15021203)                383993.01
3743578.97       75.93345  (17121118)
        384013.01   3743578.97       71.34682  (17121118)                384033.01
3743578.97       66.48282  (17121118)
        383253.01   3743598.97       25.02239  (15021121)                383273.01
3743598.97       26.32073  (15021121)
        383293.01   3743598.97       27.67496  (15021121)                383313.01
3743598.97       29.08266  (15021121)
        383333.01   3743598.97       30.50376  (15021121)                383353.01
3743598.97       32.32467  (18120620)
        383373.01   3743598.97       34.43883  (15021807)                383393.01
3743598.97       36.69395  (15021807)
        383413.01   3743598.97       39.05507  (15021807)                383433.01
3743598.97       41.75478  (16010402)
        383453.01   3743598.97       44.80807  (16010402)                383473.01
3743598.97       47.97254  (16010402)
        383493.01   3743598.97       51.36167  (17010905)                383513.01
3743598.97       54.75607  (17010905)
        383533.01   3743598.97       57.68650  (17010905)                383553.01
3743598.97       59.68849  (17010905)
        383573.01   3743598.97       61.08750  (19113016)                383593.01
3743598.97       78.75289  (19113016)
        383613.01   3743598.97       95.83212  (19113016)                383693.01
3743598.97      141.19523  (17120503)
        383713.01   3743598.97      142.66845  (17120819)                383733.01
3743598.97      142.85462  (15020718)
        383753.01   3743598.97      143.05870  (15021019)                383773.01
3743598.97      141.17552  (17121219)
        383793.01   3743598.97      137.54019  (17121219)                383813.01
3743598.97      132.65320  (19012420)
        383833.01   3743598.97      127.73121  (18012922)                383853.01
3743598.97      121.20621  (16021120)
        383873.01   3743598.97      114.22557  (19011921)                383893.01
3743598.97      108.20043  (18013006)
        383913.01   3743598.97      101.63397  (15021201)                383933.01
3743598.97       96.14953  (15021203)
        383953.01   3743598.97       90.49146  (17121118)                383973.01
3743598.97       84.85570  (17121118)
        383993.01   3743598.97       78.63814  (17121118)                384013.01
3743598.97       72.19429  (17121118)
        384033.01   3743598.97       65.77327  (17121118)                383253.01
3743618.97       25.60821  (15021121)
        383273.01   3743618.97       27.13516  (15021121)                383293.01
3743618.97       28.75217  (15021121)
        383313.01   3743618.97       30.45499  (15021121)                383333.01
3743618.97       32.20787  (15021121)
        383353.01   3743618.97       34.07391  (15021121)                383373.01
3743618.97       36.06295  (15021121)
        383393.01   3743618.97       38.18567  (15021121)                383413.01
```

3743618.97 124.42886 (15021201)
383893.01 3743618.97 116.72038 (15021203) 383913.01
3743618.97 109.32441 (17121118)
383933.01 3743618.97 102.46960 (17121118) 383953.01
3743618.97 94.71941 (17121118)
383973.01 3743618.97 86.46913 (17121118) 383993.01
3743618.97 78.18241 (17121118)
384013.01 3743618.97 70.15819 (17121118) 384033.01
3743618.97 62.61954 (18012919)
383253.01 3743638.97 30.81673 (17022701) 383273.01
3743638.97 31.78906 (17022701)
383293.01 3743638.97 32.82344 (17022701) 383313.01
3743638.97 33.90944 (17022701)
383333.01 3743638.97 35.00298 (17022701) 383353.01
3743638.97 36.19264 (17022701)
383373.01 3743638.97 38.01076 (15021121) 383393.01
3743638.97 40.58657 (15021121)
383413.01 3743638.97 43.39514 (15021121) 383433.01
3743638.97 46.57793 (15021121)
383453.01 3743638.97 50.14130 (15021121) 383473.01
3743638.97 54.67330 (15021807)
383493.01 3743638.97 60.09442 (15021807) 383513.01
3743638.97 66.17442 (15021807)
383533.01 3743638.97 73.42693 (16010402) 383553.01
3743638.97 81.21149 (17010905)
383573.01 3743638.97 89.40049 (17010905) 383593.01
3743638.97 95.68096 (17010905)
383613.01 3743638.97 124.33134 (19113016) 383693.01
3743638.97 178.56323 (15021923)
383713.01 3743638.97 180.01668 (18010802) 383733.01
3743638.97 181.11921 (15020906)
383753.01 3743638.97 183.31787 (16020919) 383773.01
3743638.97 183.11600 (19120116)
383793.01 3743638.97 185.12476 (19120116) 383813.01
3743638.97 171.56040 (19120116)
383833.01 3743638.97 155.65232 (18013006) 383853.01
3743638.97 145.28773 (18010724)
383873.01 3743638.97 135.36534 (15021203) 383893.01
3743638.97 126.36776 (17121118)
383913.01 3743638.97 116.57034 (17121118) 383933.01
3743638.97 105.96573 (17121118)
383953.01 3743638.97 95.05606 (17121118) 383973.01
3743638.97 84.38175 (17121118)
383993.01 3743638.97 74.85585 (18012919) 384013.01
3743638.97 69.44342 (17122518)
384033.01 3743638.97 64.46268 (17122518) 383253.01
3743658.97 36.20333 (17022701)
383273.01 3743658.97 37.63321 (17022701) 383293.01
3743658.97 39.17081 (17022701)
383313.01 3743658.97 40.80741 (17022701) 383333.01

```
3743658.97       42.51511  (17022701)
        383353.01   3743658.97       44.40533  (17022701)                383373.01
3743658.97       46.48500  (17022701)
        383393.01   3743658.97       48.74688  (17022701)                383413.01
3743658.97       51.14994  (17022701)
        383433.01   3743658.97       53.81614  (17022701)                383453.01
3743658.97       56.69122  (17022701)
        383473.01   3743658.97       59.72430  (17022701)                383493.01
3743658.97       64.41572  (15021121)
        383513.01   3743658.97       71.13472  (15021121)                383533.01
3743658.97       79.86122  (15021807)
        383553.01   3743658.97       90.56053  (15021807)                383573.01
3743658.97      103.44701  (16010402)
        383593.01   3743658.97      117.66931  (17010905)                383613.01
3743658.97      139.97961  (19113016)

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        15:40:32

                                  PAGE  68
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        383893.01   3743658.97      133.16379  (17121118)                383913.01
3743658.97      118.82784  (17121118)
        383933.01   3743658.97      104.45621  (17121118)                383953.01
3743658.97       92.07243  (17122518)
        383973.01   3743658.97       84.42129  (17122518)                383993.01
```

```
3743658.97       77.91737  (16120919)
        384013.01   3743658.97       72.02034  (16120919)                384033.01
3743658.97       66.52037  (16120919)
        383253.01   3743678.97       41.45634  (17022701)                383273.01
3743678.97       43.39311  (17022701)
        383293.01   3743678.97       45.48524  (17022701)                383313.01
3743678.97       47.72585  (17022701)
        383333.01   3743678.97       50.08914  (17022701)                383353.01
3743678.97       52.71384  (17022701)
        383373.01   3743678.97       55.64342  (17022701)                383393.01
3743678.97       58.92038  (17022701)
        383413.01   3743678.97       62.55501  (17022701)                383433.01
3743678.97       66.72878  (17022701)
        383893.01   3743678.97      133.54701  (17121118)                383913.01
3743678.97      117.19483  (17122518)
        383933.01   3743678.97      106.42993  (16120919)                383953.01
3743678.97       96.69425  (16120919)
        383973.01   3743678.97       87.68751  (16120919)                383993.01
3743678.97       80.04584  (17120318)
        384013.01   3743678.97       73.73211  (16021418)                384033.01
3743678.97       68.31641  (16021418)
        383253.01   3743698.97       46.19938  (17022701)                383273.01
3743698.97       48.66863  (17022701)
        383293.01   3743698.97       51.35079  (17022701)                383313.01
3743698.97       54.24213  (17022701)
        383333.01   3743698.97       57.29360  (17022701)                383353.01
3743698.97       60.65195  (17022701)
        383373.01   3743698.97       64.37122  (17022701)                383393.01
3743698.97       68.53825  (17022701)
        383413.01   3743698.97       73.25388  (17022701)                383433.01
3743698.97       78.76901  (17022701)
        383893.01   3743698.97      139.13708  (16120919)                383913.01
3743698.97      126.91667  (15042418)
        383933.01   3743698.97      114.80375  (15042418)                383953.01
3743698.97      103.00551  (15042418)
        383973.01   3743698.97       92.10572  (15042418)                383993.01
3743698.97       82.94232  (18012718)
        384013.01   3743698.97       76.13635  (18012718)                384033.01
3743698.97       70.17487  (18012718)
        383253.01   3743718.97       49.98434  (17022701)                383273.01
3743718.97       52.96895  (17022701)
        383293.01   3743718.97       56.25648  (17022701)                383313.01
3743718.97       59.84427  (17022701)
        383333.01   3743718.97       63.68485  (17022701)                383353.01
3743718.97       67.85382  (17022701)
        383373.01   3743718.97       72.36374  (17022701)                383393.01
3743718.97       77.26799  (17022701)
        383413.01   3743718.97       82.73163  (17022701)                383433.01
3743718.97       89.11177  (17022701)
        383893.01   3743718.97      158.30346  (15042418)                383913.01
```

```
3743718.97      137.03135  (15042418)
        383933.01   3743718.97      117.69948  (15042418)                383953.01
3743718.97      104.18684  (18012718)
        383973.01   3743718.97       93.58582  (18012718)                383993.01
3743718.97       84.51548  (18012718)
        384013.01   3743718.97       76.77021  (18012718)                384033.01
3743718.97       70.16313  (18012718)
        383253.01   3743738.97       52.35327  (17022701)                383273.01
3743738.97       55.75785  (17022701)
        383293.01   3743738.97       59.56996  (17022701)                383313.01
3743738.97       63.81311  (17022701)
        383333.01   3743738.97       68.47981  (17022701)                383353.01
3743738.97       73.63696  (17022701)
        383373.01   3743738.97       79.26753  (17022701)                383393.01
3743738.97       85.27363  (17022701)
        383413.01   3743738.97       91.51839  (17022701)                383433.01
3743738.97       98.24779  (17022701)
        383893.01   3743738.97      154.81873  (16011919)                383913.01
3743738.97      134.10080  (16011919)
        383933.01   3743738.97      117.64840  (16011919)                383953.01
3743738.97      104.25783  (16011919)
        383973.01   3743738.97       93.37640  (16011919)                383993.01
3743738.97       84.26719  (16011919)
        384013.01   3743738.97       76.59547  (16011919)                384033.01
3743738.97       70.05693  (16011919)

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        15:40:32

                                 PAGE  69
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                 INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                           ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **
```

X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
- -
- -
383253.01   3743758.97   53.41283 (18010822)   383273.01
3743758.97   57.06035 (18010822)
383293.01   3743758.97   61.18759 (18010822)   383313.01
3743758.97   65.85120 (18010822)
383333.01   3743758.97   71.13406 (18010822)   383353.01
3743758.97   77.17154 (18010822)
383373.01   3743758.97   84.05357 (18010822)   383393.01
3743758.97   91.94916 (19022422)
383413.01   3743758.97   100.86551 (19022422)   383433.01
3743758.97   109.80759 (19022422)
383893.01   3743758.97   149.28883 (17122519)   383913.01
3743758.97   129.08198 (19020820)
383933.01   3743758.97   113.43154 (19020820)   383953.01
3743758.97   100.69299 (19020820)
383973.01   3743758.97   90.43453 (19020820)   383993.01
3743758.97   81.80711 (19020820)
384013.01   3743758.97   74.44753 (19020820)   384033.01
3743758.97   68.12418 (19020820)
383253.01   3743778.97   54.01407 (17011420)   383893.01
3743778.97   127.29518 (17122519)
383913.01   3743778.97   112.49544 (17122519)   383933.01
3743778.97   100.32324 (17122519)
383953.01   3743778.97   90.24281 (17122519)   383973.01
3743778.97   81.81016 (17122519)
383993.01   3743778.97   74.61489 (17122519)   384013.01
3743778.97   68.40387 (17122519)
384033.01   3743778.97   63.00518 (17122519)   383253.01
3743798.97   54.04756 (16011806)
383853.01   3743798.97   110.51661 (17122519)   383873.01
3743798.97   103.44443 (17122519)
383893.01   3743798.97   95.80701 (17122519)   383913.01
3743798.97   88.37294 (17122519)
383933.01   3743798.97   81.41676 (17122519)   383953.01
3743798.97   75.12652 (17122519)
383973.01   3743798.97   69.47543 (17122519)   383993.01
3743798.97   64.39883 (17122519)
384013.01   3743798.97   59.83640 (17122519)   384033.01
3743798.97   55.73096 (17122519)
383253.01   3743818.97   54.07296 (18011419)   383793.01
3743818.97   153.75750 (16093007)
383813.01   3743818.97   134.49060 (16093007)   383833.01
3743818.97   111.88391 (16093007)
383853.01   3743818.97   90.67444 (16093007)   383873.01
3743818.97   73.66368 (16093007)
383893.01   3743818.97   66.60182 (17122519)   383913.01

3743818.97   64.25202 (17122519)
        383933.01   3743818.97   61.46886 (17122519)   383953.01
3743818.97   58.50002 (17122519)
        383973.01   3743818.97   55.49992 (17122519)   383993.01
3743818.97   52.55779 (17122519)
        384013.01   3743818.97   49.73676 (17122519)   384033.01
3743818.97   47.07592 (17122519)
        383253.01   3743838.97   53.45719 (19120317)   383793.01
3743838.97   114.06545 (16093007)
        383813.01   3743838.97   102.20074 (16093007)   383833.01
3743838.97   88.85404 (16093007)
        383853.01   3743838.97   75.70112 (16093007)   383873.01
3743838.97   64.14976 (16093007)
        383893.01   3743838.97   55.35170 (15042107)   383913.01
3743838.97   49.79881 (15042107)
        383933.01   3743838.97   44.85678 (15042102)   383953.01
3743838.97   43.48987 (15042102)
        383973.01   3743838.97   42.22221 (17122519)   383993.01
3743838.97   40.90812 (17122519)
        384013.01   3743838.97   39.57703 (17122519)   383253.01
3743858.97   52.07429 (19120317)
        383793.01   3743858.97   89.40337 (16093007)   383813.01
3743858.97   81.51499 (16093007)
        383833.01   3743858.97   72.84082 (16093007)   383853.01
3743858.97   64.06442 (16093007)
        383873.01   3743858.97   55.94548 (16093007)   383893.01
3743858.97   48.80463 (16093007)
        383913.01   3743858.97   43.60722 (15042107)   383933.01
3743858.97   40.37299 (15042107)
        383953.01   3743858.97   36.72120 (15042107)   383973.01
3743858.97   32.97867 (15042107)
        383993.01   3743858.97   31.58815 (15042102)   383253.01
3743878.97   51.36652 (15021707)
        383793.01   3743878.97   75.40458 (19121916)   383813.01
3743878.97   67.99980 (19121916)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                 L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,

```
                L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        383833.01   3743878.97       61.04571  (16093007)               383853.01
3743878.97       54.91767  (16093007)
        383873.01   3743878.97       49.04203  (16093007)               383893.01
3743878.97       43.64875  (16093007)
        383913.01   3743878.97       38.84939  (16093007)               383933.01
3743878.97       35.35364  (15042107)
        383953.01   3743878.97       33.41003  (15042107)               383973.01
3743878.97       31.05170  (15042107)
        383253.01   3743898.97       50.33120  (16011923)               383773.01
3743898.97       67.74967  (19121916)
        383793.01   3743898.97       65.22582  (19121916)               383813.01
3743898.97       59.53795  (19121916)
        383833.01   3743898.97       52.24199  (16093007)               383853.01
3743898.97       47.72224  (16093007)
        383873.01   3743898.97       43.33125  (16093007)               383893.01
3743898.97       39.18155  (16093007)
        383913.01   3743898.97       35.36989  (16093007)               383933.01
3743898.97       31.93703  (16093007)
        383953.01   3743898.97       29.25212  (15042107)               383973.01
3743898.97       28.06759  (15042107)
        383253.01   3743918.97       49.31641  (16011923)               383773.01
3743918.97       58.76616  (19121916)
        383793.01   3743918.97       57.04237  (19121916)               383813.01
3743918.97       52.68149  (19121916)
        383833.01   3743918.97       45.89219  (19121916)               383853.01
3743918.97       41.87676  (16093007)
        383873.01   3743918.97       38.49477  (16093007)               383893.01
3743918.97       35.24600  (16093007)
        383913.01   3743918.97       32.19617  (16093007)               383933.01
3743918.97       29.38509  (16093007)
        383953.01   3743918.97       26.83666  (16093007)               383253.01
3743938.97       48.15548  (16011924)
        383273.01   3743938.97       50.76168  (16011924)               383293.01
3743938.97       53.17523  (16011924)
        383313.01   3743938.97       55.25782  (16011924)               383333.01
```

```
3743938.97       56.91227  (16011924)
        383353.01   3743938.97       58.03429  (16011924)                383373.01
3743938.97       58.69015  (18011021)
        383393.01   3743938.97       59.67719  (15012104)                383413.01
3743938.97       60.12900  (15012104)
        383433.01   3743938.97       59.94575  (15012104)                383453.01
3743938.97       59.04601  (15012104)
        383773.01   3743938.97       51.35676  (19121916)                383793.01
3743938.97       50.28532  (19121916)
        383813.01   3743938.97       47.05327  (19121916)                383833.01
3743938.97       41.86645  (19121916)
        383853.01   3743938.97       37.04936  (16093007)                383873.01
3743938.97       34.39257  (16093007)
        383893.01   3743938.97       31.80701  (16093007)                383913.01
3743938.97       29.34805  (16093007)
        383933.01   3743938.97       27.04082  (16093007)                383253.01
3743958.97       46.69167  (16011924)
        383273.01   3743958.97       48.45954  (16011924)                383293.01
3743958.97       49.93742  (16011924)
        383313.01   3743958.97       51.01487  (16011924)                383333.01
3743958.97       51.63546  (16011924)
        383353.01   3743958.97       52.48269  (15012104)                383373.01
3743958.97       53.10031  (15012104)
        383393.01   3743958.97       53.17297  (15012104)                383413.01
3743958.97       52.68917  (15012104)
        383433.01   3743958.97       51.63353  (15012104)                383453.01
3743958.97       49.96132  (15012104)
        383773.01   3743958.97       45.18391  (19121916)                383793.01
3743958.97       44.63785  (19121916)
        383813.01   3743958.97       42.25518  (19121916)                383833.01
3743958.97       38.24502  (19121916)
        383853.01   3743958.97       34.28940  (16121216)                383873.01
3743958.97       30.90803  (16093007)
        383893.01   3743958.97       28.83472  (16093007)                383913.01
3743958.97       26.83560  (16093007)
        383253.01   3743978.97       44.22612  (16011924)                383273.01
3743978.97       45.21579  (16011924)
        383293.01   3743978.97       45.87002  (16011924)                383313.01
3743978.97       46.47695  (15012104)
        383333.01   3743978.97       47.20893  (15012104)                383353.01
3743978.97       47.49578  (15012104)
        383373.01   3743978.97       47.30871  (15012104)                383393.01
3743978.97       46.63710  (15012104)
        383413.01   3743978.97       45.48267  (15012104)                383433.01
3743978.97       43.84893  (15012104)

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        15:40:32
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
383453.01	3743978.97	41.73521	(15012104)	383773.01	3743978.97	39.97372	(19121916)
383793.01	3743978.97	39.83674	(19121916)	383813.01	3743978.97	38.13059	(19121916)
383833.01	3743978.97	35.04635	(19121916)	383853.01	3743978.97	31.70895	(16121216)
383873.01	3743978.97	28.76865	(16121216)	383893.01	3743978.97	26.24375	(16093007)
383253.01	3743998.97	41.04844	(16011924)	383273.01	3743998.97	41.52639	(18011021)
383293.01	3743998.97	42.21950	(15012104)	383313.01	3743998.97	42.64482	(15012104)
383333.01	3743998.97	42.68169	(15012104)	383353.01	3743998.97	42.30978	(15012104)
383373.01	3743998.97	41.52279	(15012104)	383393.01	3743998.97	40.32961	(15012104)
383413.01	3743998.97	38.74551	(15012104)	383433.01	3743998.97	36.79349	(15012104)
383453.01	3743998.97	34.50174	(15012104)	383773.01	3743998.97	35.53963	(19121916)
383793.01	3743998.97	35.70995	(19121916)	383813.01	3743998.97	34.54309	(19121916)
383833.01	3743998.97	32.19322	(19121916)	383853.01	3743998.97	29.27444	(16121216)
383873.01	3743998.97	27.15402	(16121216)	382953.01			

3743178.97 7.85799 (17010905)
383003.01 3743178.97 7.78667 (17010905) 383053.01
3743178.97 7.57556 (17010905)
383103.01 3743178.97 7.20786 (17010905) 383153.01
3743178.97 8.23238 (15020607)
383203.01 3743178.97 6.31638 (19022724) 383253.01
3743178.97 6.20187 (16093007)
383303.01 3743178.97 7.77181 (19113016) 383353.01
3743178.97 10.55373 (19113016)
383403.01 3743178.97 13.28254 (19113016) 383453.01
3743178.97 15.39746 (19113016)
383503.01 3743178.97 15.99317 (19113016) 383553.01
3743178.97 19.52851 (17120503)
383603.01 3743178.97 26.32541 (17120503) 383653.01
3743178.97 31.98773 (17120503)
383703.01 3743178.97 34.64909 (19120219) 383753.01
3743178.97 34.58740 (18120719)
383803.01 3743178.97 34.69489 (16122020) 383853.01
3743178.97 33.94103 (16122020)
383903.01 3743178.97 33.09182 (15020602) 383953.01
3743178.97 32.02163 (18013021)
384003.01 3743178.97 31.28403 (17121219) 384053.01
3743178.97 29.55158 (16012104)
384103.01 3743178.97 27.96744 (15020905) 384153.01
3743178.97 26.82120 (16021119)
384203.01 3743178.97 25.40031 (18010420) 384253.01
3743178.97 24.07285 (15011719)
384303.01 3743178.97 22.94853 (19012618) 384353.01
3743178.97 21.52992 (16021423)
382953.01 3743228.97 8.83277 (17010905) 383003.01
3743228.97 8.98103 (17010905)
383053.01 3743228.97 8.98023 (17010905) 383103.01
3743228.97 8.79690 (17010905)
383153.01 3743228.97 8.41408 (17010905) 383203.01
3743228.97 7.82742 (17010905)
383253.01 3743228.97 7.05391 (17010905) 383303.01
3743228.97 7.36680 (16093007)
383353.01 3743228.97 10.32832 (19113016) 383403.01
3743228.97 13.75142 (19113016)
383453.01 3743228.97 16.82749 (19113016) 383503.01
3743228.97 18.36536 (19113016)
383553.01 3743228.97 20.62266 (17120503) 383603.01
3743228.97 28.57368 (17120503)
383653.01 3743228.97 35.45670 (17120503) 383703.01
3743228.97 38.77074 (19120219)
383753.01 3743228.97 38.71232 (18120719) 383803.01
3743228.97 39.05353 (16122020)
383853.01 3743228.97 37.81324 (17121120) 383903.01
3743228.97 36.70273 (16020824)
383953.01 3743228.97 35.73948 (17121219) 384003.01

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        384253.01   3743228.97   25.83021 (19012618)   384303.01
3743228.97   24.18595 (16021423)
        384353.01   3743228.97   22.70667 (18013006)   382953.01
3743278.97   9.63726 (17010905)
        383003.01   3743278.97   10.05851 (17010905)   383053.01
3743278.97   10.34876 (17010905)
        383103.01   3743278.97   10.45443 (17010905)   383153.01
3743278.97   10.33716 (17010905)
        383203.01   3743278.97   9.95667 (17010905)   383253.01
3743278.97   9.29761 (17010905)
        383303.01   3743278.97   8.36928 (17010905)   383353.01
3743278.97   9.82256 (19113016)
        383403.01   3743278.97   13.84179 (19113016)   383453.01
3743278.97   17.94837 (19113016)
        383503.01   3743278.97   20.92648 (19113016)   383553.01

3743278.97 21.78051 (17120503)
383603.01 3743278.97 31.11321 (17120503) 383653.01
3743278.97 39.62104 (17120503)
383703.01 3743278.97 43.79909 (19120219) 383753.01
3743278.97 43.89085 (16021020)
383803.01 3743278.97 44.15992 (16122020) 383853.01
3743278.97 42.54380 (17121120)
383903.01 3743278.97 40.99151 (16020824) 383953.01
3743278.97 39.74372 (17121219)
384003.01 3743278.97 37.28265 (16012104) 384053.01
3743278.97 35.26715 (18011323)
384103.01 3743278.97 33.26682 (18012922) 384153.01
3743278.97 31.15920 (15011719)
384203.01 3743278.97 29.36440 (19012618) 384253.01
3743278.97 27.42269 (16021423)
384303.01 3743278.97 25.59131 (15021201) 384353.01
3743278.97 23.88938 (16011918)
382953.01 3743328.97 10.31071 (16010402) 383003.01
3743328.97 10.88710 (17010905)
383053.01 3743328.97 11.53306 (17010905) 383103.01
3743328.97 12.02635 (17010905)
383153.01 3743328.97 12.31175 (17010905) 383203.01
3743328.97 12.31415 (17010905)
383253.01 3743328.97 11.97228 (17010905) 383303.01
3743328.97 11.23853 (17010905)
383353.01 3743328.97 10.11187 (17010905) 383403.01
3743328.97 13.52963 (19113016)
383453.01 3743328.97 18.73299 (19113016) 383503.01
3743328.97 23.66657 (19113016)
383553.01 3743328.97 26.15170 (19113016) 383603.01
3743328.97 34.06886 (17120503)
383653.01 3743328.97 44.69174 (17120503) 383703.01
3743328.97 49.96852 (19120219)
383753.01 3743328.97 50.30376 (16021020) 383803.01
3743328.97 50.10217 (16122020)
383853.01 3743328.97 48.00699 (15020602) 383903.01
3743328.97 46.53939 (17121219)
383953.01 3743328.97 43.65648 (16012104) 384003.01
3743328.97 41.10025 (18011323)
384053.01 3743328.97 38.88014 (18012922) 384103.01
3743328.97 36.16848 (15011719)
384153.01 3743328.97 33.83759 (19012618) 384203.01
3743328.97 31.40940 (16021423)
384253.01 3743328.97 29.19913 (15021201) 384303.01
3743328.97 27.03045 (19012624)
384353.01 3743328.97 25.35350 (15021203) 382953.01
3743378.97 10.83369 (15021807)
383003.01 3743378.97 11.63393 (16010402) 383053.01
3743378.97 12.49213 (16010402)
383103.01 3743378.97 13.30850 (17010905) 383153.01

```
3743378.97       14.11724  (17010905)
        383203.01   3743378.97       14.68908  (17010905)                383253.01
3743378.97       14.91595  (17010905)
        383303.01   3743378.97       14.68343  (17010905)                383353.01
3743378.97       13.88923  (17010905)
        383403.01   3743378.97       12.77456  (19113016)                383453.01
3743378.97       18.96096  (19113016)
        383503.01   3743378.97       25.80829  (19113016)                383553.01
3743378.97       30.90459  (19113016)
        383603.01   3743378.97       37.48397  (17120503)                383653.01
3743378.97       50.99160  (17120503)
        383703.01   3743378.97       57.96491  (19120219)                383753.01
3743378.97       58.50492  (16021020)
        383803.01   3743378.97       57.28923  (16122020)                383853.01
3743378.97       55.07356  (16020824)

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        15:40:32

                                  PAGE  73
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        383903.01   3743378.97       53.03883  (17121219)                383953.01
3743378.97       48.92025  (16012104)
        384003.01   3743378.97       46.14230  (18012922)                384053.01
3743378.97       42.71526  (15011719)
        384103.01   3743378.97       39.61810  (19012618)                384153.01
```

3743378.97 36.46390 (16021423)
384203.01 3743378.97 33.60947 (15021201) 384253.01
3743378.97 31.14776 (15021203)
384303.01 3743378.97 28.72306 (19012820) 384353.01
3743378.97 26.65780 (17121118)
382953.01 3743428.97 11.27278 (18120620) 383003.01
3743428.97 12.24164 (15021807)
383053.01 3743428.97 13.25867 (15021807) 383103.01
3743428.97 14.38116 (16010402)
383153.01 3743428.97 15.56197 (16010402) 383203.01
3743428.97 16.74407 (17010905)
383253.01 3743428.97 17.78609 (17010905) 383303.01
3743428.97 18.44064 (17010905)
383353.01 3743428.97 18.46954 (17010905) 383403.01
3743428.97 17.67391 (17010905)
383453.01 3743428.97 18.42866 (19113016) 383503.01
3743428.97 26.99784 (19113016)
383553.01 3743428.97 35.03796 (19113016) 383603.01
3743428.97 41.54781 (17120503)
383703.01 3743428.97 68.32894 (19120219) 383753.01
3743428.97 68.84092 (16021020)
383803.01 3743428.97 66.97340 (17121120) 383853.01
3743428.97 64.28179 (17121219)
383903.01 3743428.97 60.15114 (16012104) 383953.01
3743428.97 56.01483 (16021119)
384003.01 3743428.97 51.51276 (18010602) 384053.01
3743428.97 47.28069 (19012618)
384103.01 3743428.97 43.12565 (18013006) 384153.01
3743428.97 39.24034 (16122920)
384203.01 3743428.97 36.09518 (15021203) 384253.01
3743428.97 33.16208 (17121118)
384303.01 3743428.97 29.89676 (17121118) 384353.01
3743428.97 26.34507 (17121118)
382953.01 3743478.97 11.92224 (15021121) 383003.01
3743478.97 12.79053 (15021121)
383053.01 3743478.97 13.85839 (18021007) 383103.01
3743478.97 15.25741 (15021807)
383153.01 3743478.97 16.75059 (15021807) 383203.01
3743478.97 18.42490 (16010402)
384053.01 3743478.97 52.38591 (15021201) 384103.01
3743478.97 47.27492 (15021203)
384153.01 3743478.97 42.72527 (17121118) 384203.01
3743478.97 38.21210 (17121118)
384253.01 3743478.97 33.19174 (17121118) 384303.01
3743478.97 28.21668 (17121118)
384353.01 3743478.97 24.56666 (18012919) 382953.01
3743528.97 12.33959 (15021121)
383003.01 3743528.97 13.55271 (15021121) 383053.01
3743528.97 14.87001 (15021121)
383103.01 3743528.97 16.26410 (15021121) 383153.01

```
3743528.97       17.75115  (18021007)
        383203.01   3743528.97       19.78349  (15021807)                384053.01
3743528.97       57.94546  (15021203)
        384103.01   3743528.97       51.33154  (17121118)                384153.01
3743528.97       43.70278  (17121118)
        384203.01   3743528.97       36.20544  (17121118)                384253.01
3743528.97       31.12767  (18012919)
        384303.01   3743528.97       27.98756  (17122518)                384353.01
3743528.97       25.39321  (17122518)
        382953.01   3743578.97       13.98650  (17022701)                383003.01
3743578.97       14.51986  (17022701)
        383053.01   3743578.97       15.19353  (17120917)                383103.01
3743578.97       17.00800  (15021121)
        383153.01   3743578.97       19.14123  (15021121)                383203.01
3743578.97       21.50113  (15021121)
        384053.01   3743578.97       61.42723  (17121118)                384103.01
3743578.97       49.04925  (17121118)
        384153.01   3743578.97       41.30636  (18010421)                384203.01
3743578.97       36.43806  (17122518)
        384253.01   3743578.97       32.50359  (16120919)                384303.01
3743578.97       29.12393  (16120919)
        384353.01   3743578.97       26.09369  (17120318)                382953.01
3743628.97       18.89408  (17022701)
        383003.01   3743628.97       20.15643  (17022701)                383053.01
3743628.97       21.53202  (17022701)

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        15:40:32

                                PAGE  74
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                   L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                   L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                   L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **
```

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
383103.01	3743628.97	23.01643	(17022701)	383153.01	3743628.97	24.62056	(17022701)
383203.01	3743628.97	26.33447	(17022701)	384053.01	3743628.97	59.30040	(17122518)
384103.01	3743628.97	50.63513	(16120919)	384153.01	3743628.97	43.40369	(16120919)
384203.01	3743628.97	37.72530	(17120318)	384253.01	3743628.97	33.40280	(16021418)
384303.01	3743628.97	29.96035	(16021418)	384353.01	3743628.97	26.98968	(16021418)
382953.01	3743678.97	23.13327	(17022701)	383003.01	3743678.97	25.17923	(17022701)
383053.01	3743678.97	27.54840	(17022701)	383103.01	3743678.97	30.26979	(17022701)
383153.01	3743678.97	33.42430	(17022701)	383203.01	3743678.97	37.13033	(17022701)
384053.01	3743678.97	63.36644	(16021418)	384103.01	3743678.97	53.03803	(16021418)
384153.01	3743678.97	45.46018	(18012718)	384203.01	3743678.97	39.48677	(18012718)
384253.01	3743678.97	34.69915	(18012718)	384303.01	3743678.97	30.70457	(18012718)
384353.01	3743678.97	27.40106	(18012718)	382953.01	3743728.97	25.48217	(17022701)
383003.01	3743728.97	28.03602	(17022701)	383053.01	3743728.97	31.07488	(17022701)
383103.01	3743728.97	34.70565	(17022701)	383153.01	3743728.97	39.11763	(17022701)
383203.01	3743728.97	44.54773	(17022701)	384053.01	3743728.97	64.96307	(16011919)
384103.01	3743728.97	53.67173	(16011919)	384153.01	3743728.97	45.57542	(16011919)
384203.01	3743728.97	39.31852	(16011919)	384253.01	3743728.97	34.31547	(16011919)
384303.01	3743728.97	30.19141	(16011919)	384353.01	3743728.97	26.55266	(16011919)
382953.01	3743778.97	26.01292	(18010822)	383003.01	3743778.97	28.67891	(18010822)
383053.01	3743778.97	31.85398	(18010822)	383103.01	3743778.97	35.68392	(18010822)
383153.01	3743778.97	40.38951	(18010822)	383203.01	3743778.97	46.29163	(18010822)
384053.01	3743778.97	58.32965	(17122519)	384103.01	3743778.97	49.36230	(19020820)
384153.01	3743778.97	42.31623	(19020820)	384203.01			

```
3743778.97       36.72366  (19020820)
        384253.01   3743778.97       31.85178  (19020820)                384303.01
3743778.97       27.83702  (19020820)
        384353.01   3743778.97       25.75561  (19020820)                382953.01
3743828.97       25.86928  (16011806)
        383003.01   3743828.97       28.44485  (16011806)                383053.01
3743828.97       31.62228  (18011419)
        383103.01   3743828.97       35.56224  (18011419)                383153.01
3743828.97       40.33233  (18011419)
        383203.01   3743828.97       46.12095  (18011419)                384153.01
3743828.97       32.72668  (17122519)
        384203.01   3743828.97       29.22278  (17122519)                384253.01
3743828.97       25.89535  (17122519)
        384303.01   3743828.97       24.23925  (17122519)                384353.01
3743828.97       22.23797  (17122519)
        382953.01   3743878.97       25.53427  (18011419)                383003.01
3743878.97       27.97288  (19120317)
        383053.01   3743878.97       31.22134  (19120317)                383103.01
3743878.97       34.92278  (19120317)
        383153.01   3743878.97       39.14249  (19120317)                383203.01
3743878.97       44.08283  (17021924)
        384253.01   3743878.97       19.13395  (17122519)                384303.01
3743878.97       18.11740  (17122519)
        384353.01   3743878.97       17.07562  (17122519)                382953.01
3743928.97       25.09915  (19120317)
        383003.01   3743928.97       27.27659  (17021924)                383053.01
3743928.97       30.15032  (15021707)
        383103.01   3743928.97       33.71259  (15021707)                383153.01
3743928.97       37.47451  (15021707)
        383203.01   3743928.97       42.88447  (16011923)                384253.01
3743928.97       12.77612  (15042102)
        384303.01   3743928.97       12.35749  (15042102)                384353.01
3743928.97       11.89079  (15042102)
        382953.01   3743978.97       24.50394  (15021707)                383003.01
3743978.97       26.65710  (15021707)

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        15:40:32

                                 PAGE  75
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                 INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
```

```
                L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        383053.01   3743978.97       29.53055  (16011923)               383103.01
3743978.97       32.75891  (16011923)
        383153.01   3743978.97       36.22067  (16011924)               383203.01
3743978.97       40.65071  (16011924)
        384203.01   3743978.97       11.37685  (15042107)               384253.01
3743978.97        9.56886  (15042107)
        384303.01   3743978.97        8.35455  (15042102)               384353.01
3743978.97        8.29436  (15042102)
        382953.01   3744028.97       24.06046  (16011923)               383003.01
3744028.97       26.10810  (16011923)
        383053.01   3744028.97       28.55747  (16011924)               383103.01
3744028.97       31.47209  (16011924)
        383153.01   3744028.97       33.89796  (16011924)               383203.01
3744028.97       35.39308  (16011924)
        383253.01   3744028.97       36.61226  (15012104)               383303.01
3744028.97       36.65775  (15012104)
        383353.01   3744028.97       34.69755  (15012104)               383403.01
3744028.97       30.84694  (15012104)
        383453.01   3744028.97       25.61510  (15012104)               384153.01
3744028.97       11.06102  (15042107)
        384203.01   3744028.97       10.41082  (15042107)               384253.01
3744028.97        9.43438  (15042107)
        384303.01   3744028.97        8.30350  (15042107)               384353.01
3744028.97        7.14703  (15042107)
        382953.01   3744078.97       23.32980  (16011924)               383003.01
3744078.97       25.35824  (16011924)
        383053.01   3744078.97       27.06991  (16011924)               383103.01
3744078.97       28.22255  (16011924)
        383153.01   3744078.97       29.07305  (15012104)               383203.01
3744078.97       29.64399  (15012104)
        383253.01   3744078.97       28.96947  (15012104)               383303.01
3744078.97       26.92227  (15012104)
        383353.01   3744078.97       23.65914  (15012104)               383403.01
3744078.97       19.62145  (15012104)
        383453.01   3744078.97       20.85466  (19120616)               384103.01
```

```
3744078.97       11.09187  (19020817)
        384153.01   3744078.97        9.71528  (19020817)                384203.01
3744078.97        8.49606  (15042107)
        384253.01   3744078.97        8.29143  (15042107)                384303.01
3744078.97        7.79519  (15042107)
        384353.01   3744078.97        7.11486  (15042107)                382953.01
3744128.97       22.29371  (16011924)
        383003.01   3744128.97       23.17738  (16011924)                383053.01
3744128.97       23.75994  (18011021)
        383103.01   3744128.97       24.42080  (15012104)                383153.01
3744128.97       24.33972  (15012104)
        383203.01   3744128.97       23.33028  (15012104)                383253.01
3744128.97       21.38933  (15012104)
        383303.01   3744128.97       18.65871  (15012104)                383353.01
3744128.97       15.48123  (15012104)
        383403.01   3744128.97       15.87380  (19042418)                383453.01
3744128.97       20.57642  (19120616)
        384103.01   3744128.97        9.54430  (19020817)                384153.01
3744128.97        9.08952  (19020817)
        384203.01   3744128.97        8.12776  (19020817)                384253.01
3744128.97        6.92467  (16093007)
        384303.01   3744128.97        6.64475  (15042107)                384353.01
3744128.97        6.43591  (15042107)
        382953.01   3744178.97       19.89722  (18011021)                383003.01
3744178.97       20.48467  (15012104)
        383053.01   3744178.97       20.66342  (15012104)                383103.01
3744178.97       20.22385  (15012104)
        383153.01   3744178.97       19.10125  (15012104)                383203.01
3744178.97       17.32603  (15012104)
        383253.01   3744178.97       15.04297  (15012104)                383303.01
3744178.97       12.49511  (15012104)
        383353.01   3744178.97       12.63622  (19042418)                383403.01
3744178.97       14.92267  (19120616)
        383453.01   3744178.97       19.70326  (19120616)                384053.01
3744178.97        9.35014  (16093007)
        384103.01   3744178.97        8.52208  (19120516)                384153.01
3744178.97        7.90395  (19020817)
        384203.01   3744178.97        7.62239  (19020817)                384253.01
3744178.97        6.91185  (19020817)
        384303.01   3744178.97        6.00592  (19020817)                384353.01
3744178.97        5.35952  (15042107)
        382953.01   3744228.97       17.75035  (15012104)                383003.01
3744228.97       17.61012  (15012104)
        383053.01   3744228.97       16.98322  (15012104)                383103.01
3744228.97       15.85731  (15012104)

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        15:40:32
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
383153.01	3744228.97	14.27461	(15012104)	383203.01	3744228.97	12.34629	(15012104)
383253.01	3744228.97	10.28839	(15012104)	383303.01	3744228.97	10.18897	(16083018)
383353.01	3744228.97	11.64304	(19042418)	383403.01	3744228.97	14.91797	(19120616)
383453.01	3744228.97	18.37666	(19120616)	383503.01	3744228.97	19.94431	(19120616)
383553.01	3744228.97	18.73200	(19120616)	383603.01	3744228.97	17.10378	(17052606)
383653.01	3744228.97	15.79151	(19051018)	383703.01	3744228.97	13.80700	(19020216)
383753.01	3744228.97	14.21100	(19020216)	383803.01	3744228.97	13.84771	(17021417)
383853.01	3744228.97	13.30546	(19121916)	383903.01	3744228.97	12.23074	(16121216)
383953.01	3744228.97	11.89042	(16121216)	384003.01	3744228.97	9.98450	(17010416)
384053.01	3744228.97	8.31991	(16093007)	384103.01	3744228.97	7.67099	(16093007)
384153.01	3744228.97	7.05561	(16093007)	384203.01	3744228.97	6.66775	(19020817)
384253.01	3744228.97	6.46166	(19020817)	384303.01	3744228.97	5.96213	(19020817)
384353.01	3744228.97	5.27685	(19020817)	382953.01			

```
3744278.97       15.10781  (15012104)
        383003.01   3744278.97       14.39874  (15012104)                383053.01
3744278.97       13.31663  (15012104)
        383103.01   3744278.97       11.91930  (15012104)                383153.01
3744278.97       10.30136  (15012104)
        383203.01   3744278.97        8.59726  (15012104)                383253.01
3744278.97        8.84336  (16083018)
        383303.01   3744278.97        9.75699  (19042418)                383353.01
3744278.97       11.21109  (19120616)
        383403.01   3744278.97       14.50745  (19120616)                383453.01
3744278.97       16.76963  (19120616)
        383503.01   3744278.97       17.12251  (19120616)                383553.01
3744278.97       15.20791  (19120616)
        383603.01   3744278.97       14.53153  (17052606)                383653.01
3744278.97       13.43056  (19051018)
        383703.01   3744278.97       12.54225  (19122516)                383753.01
3744278.97       12.51914  (19020216)
        383803.01   3744278.97       11.90533  (19121016)                383853.01
3744278.97       11.40449  (19121916)
        383903.01   3744278.97       10.68792  (19121916)                383953.01
3744278.97       10.64463  (16121216)
        384003.01   3744278.97        9.54188  (16121216)                384053.01
3744278.97        7.71339  (17010416)
        384103.01   3744278.97        6.92939  (16093007)                384153.01
3744278.97        6.44567  (19120516)
        384203.01   3744278.97        5.95781  (16093007)                384253.01
3744278.97        5.71213  (19020817)
        384303.01   3744278.97        5.59298  (19020817)                384353.01
3744278.97        5.22762  (19020817)
        382453.01   3742678.97        3.83412  (15020607)                382553.01
3742678.97        2.97470  (19022724)
        382653.01   3742678.97        2.34598  (19022724)                382753.01
3742678.97        3.91062  (19120323)
        382853.01   3742678.97        4.07121  (19012422)                382953.01
3742678.97        5.22685  (18012920)
        383053.01   3742678.97        4.42837  (18012920)                383153.01
3742678.97        4.70663  (18010608)
        383253.01   3742678.97        5.47779  (19113016)                383353.01
3742678.97        5.39636  (19113016)
        383453.01   3742678.97        7.47308  (17120503)                383553.01
3742678.97       11.86955  (17120503)
        383653.01   3742678.97       14.99187  (17120503)                383753.01
3742678.97       15.41694  (19120219)
        383853.01   3742678.97       15.72978  (16021020)                383953.01
3742678.97       15.44928  (16122020)
        384053.01   3742678.97       14.86458  (15020602)                384153.01
3742678.97       14.26210  (16020824)
        384253.01   3742678.97       14.65458  (17121219)                384353.01
3742678.97       12.92341  (16012104)
        384453.01   3742678.97       12.11362  (15020905)                384553.01
```

```
3742778.97       16.46361  (17122720)
        384153.01   3742778.97       15.91228  (17121219)                384253.01
3742778.97       15.10896  (18020220)
        384353.01   3742778.97       13.99020  (18121520)                384453.01
3742778.97       13.37249  (16021119)
        384553.01   3742778.97       12.48234  (18010420)                384653.01
3742778.97       11.66906  (19012618)
        384753.01   3742778.97       10.90333  (15020719)                384853.01
3742778.97       10.20555  (16021423)
        382453.01   3742878.97        4.83384  (17010905)                382553.01
3742878.97        4.50588  (17010905)
        382653.01   3742878.97        4.10411  (17010905)                382753.01
3742878.97        3.72155  (17010905)
        382853.01   3742878.97        3.23647  (17010905)                382953.01
3742878.97        2.86407  (16093007)
        383053.01   3742878.97        3.14383  (16093007)                383153.01
3742878.97        4.34529  (19113016)
        383253.01   3742878.97        6.57134  (19113016)                383353.01
3742878.97        7.93617  (19113016)
        383453.01   3742878.97        8.12703  (17120503)                383553.01
3742878.97       14.27546  (17120503)
        383653.01   3742878.97       19.41467  (17120503)                383753.01
3742878.97       20.12654  (18120719)
        383853.01   3742878.97       20.28959  (16122020)                383953.01
3742878.97       19.70655  (17121120)
        384053.01   3742878.97       18.96581  (16020824)                384153.01
3742878.97       18.17750  (17121219)
        384253.01   3742878.97       16.81990  (16012104)                384353.01
3742878.97       15.72076  (18011323)
        384453.01   3742878.97       14.57043  (18012922)                384553.01
3742878.97       13.53744  (19012618)
        384653.01   3742878.97       12.58424  (15020719)                384753.01
3742878.97       11.65523  (16021423)
        384853.01   3742878.97       10.81234  (15021201)                382453.01
3742978.97        5.32090  (16013005)
        382553.01   3742978.97        5.28753  (17010905)                382653.01
3742978.97        5.16675  (17010905)
        382753.01   3742978.97        5.00004  (17010905)                382853.01
3742978.97        4.62584  (17010905)
        382953.01   3742978.97        3.95202  (17010905)                383053.01
3742978.97        3.57138  (16093007)
        383153.01   3742978.97        3.96545  (16093007)                383253.01
3742978.97        6.66674  (19113016)
        383353.01   3742978.97        9.21073  (19113016)                383453.01
3742978.97        9.61027  (19113016)
        383553.01   3742978.97       15.79581  (17120503)                383653.01
3742978.97       22.51959  (17120503)
        383753.01   3742978.97       23.63545  (18120719)                383853.01
3742978.97       23.95751  (16122020)
        383953.01   3742978.97       22.86919  (15020602)                384053.01
```

```
3742978.97       21.63104  (18013021)
        384153.01   3742978.97       20.19427  (18020220)                384253.01
3742978.97       18.75448  (18011323)
        384353.01   3742978.97       17.43875  (18012922)                384453.01
3742978.97       15.99131  (19012618)
        384553.01   3742978.97       14.73636  (15020719)                384653.01
3742978.97       13.45580  (18013006)
        384753.01   3742978.97       12.38872  (16011918)                384853.01
3742978.97       11.48341  (15021203)
        382453.01   3743078.97        5.56793  (16010402)                382553.01
3743078.97        5.72124  (16010402)
        382653.01   3743078.97        6.03315  (17010905)                382753.01
3743078.97        6.18184  (17010905)
        382853.01   3743078.97        6.23757  (17010905)                382953.01
3743078.97        5.78008  (17010905)

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        15:40:32

                                  PAGE  78
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        383053.01   3743078.97        5.05178  (17010905)                383153.01
3743078.97        4.60440  (16093007)
        383253.01   3743078.97        6.28954  (19113016)                383353.01
3743078.97       10.19584  (19113016)
        383453.01   3743078.97       12.37637  (19113016)                383553.01
```

```
3743078.97       17.53688  (17120503)
        383653.01   3743078.97       26.55323  (17120503)                383753.01
3743078.97       28.24792  (18120719)
        383853.01   3743078.97       28.44646  (16122020)                383953.01
3743078.97       26.67289  (16020824)
        384053.01   3743078.97       25.45293  (17121219)                384153.01
3743078.97       22.90454  (16012104)
        384253.01   3743078.97       21.30473  (18012922)                384353.01
3743078.97       19.32993  (15011719)
        384453.01   3743078.97       17.57868  (15020719)                384553.01
3743078.97       15.93471  (18013006)
        384653.01   3743078.97       14.44975  (15021822)                384753.01
3743078.97       13.26448  (15021203)
        384853.01   3743078.97       12.18089  (17121118)                382453.01
3743178.97        5.68753  (15021807)
        382553.01   3743178.97        6.12490  (15021807)                382653.01
3743178.97        6.51745  (16010402)
        382753.01   3743178.97        7.09116  (17010905)                382853.01
3743178.97        7.64037  (17010905)
        384453.01   3743178.97       19.30102  (15021201)                384553.01
3743178.97       17.34597  (15021203)
        384653.01   3743178.97       15.61826  (17121118)                384753.01
3743178.97       13.91475  (17121118)
        384853.01   3743178.97       11.84548  (17121118)                382453.01
3743278.97        5.82093  (15021121)
        382553.01   3743278.97        6.28363  (18021007)                382653.01
3743278.97        6.93597  (15021807)
        382753.01   3743278.97        7.75317  (15021807)                382853.01
3743278.97        8.70170  (16010402)
        384453.01   3743278.97       21.06871  (19012820)                384553.01
3743278.97       18.59389  (17121118)
        384653.01   3743278.97       15.50417  (17121118)                384753.01
3743278.97       12.40087  (17121118)
        384853.01   3743278.97       11.20942  (18012919)                382453.01
3743378.97        5.94813  (15021121)
        382553.01   3743378.97        6.67260  (15021121)                382653.01
3743378.97        7.44639  (15021121)
        382753.01   3743378.97        8.26168  (18021007)                382853.01
3743378.97        9.41058  (18120620)
        384453.01   3743378.97       21.58902  (17121118)                384553.01
3743378.97       16.74883  (18011120)
        384653.01   3743378.97       14.67748  (18012919)                384753.01
3743378.97       13.03079  (17122518)
        384853.01   3743378.97       11.55081  (16120919)                382453.01
3743478.97        6.14827  (17120917)
        382553.01   3743478.97        6.85675  (17120917)                382653.01
3743478.97        7.65575  (17120917)
        382753.01   3743478.97        9.06686  (15021121)                382853.01
3743478.97       10.26520  (15021121)
        384453.01   3743478.97       20.66772  (17122518)                384553.01
```

```
3743478.97       17.66918  (16120919)
        384653.01   3743478.97       15.42511  (16120919)                384753.01
3743478.97       13.44152  (17120318)
        384853.01   3743478.97       11.72531  (17120318)                382453.01
3743578.97        9.31882  (17022701)
        382553.01   3743578.97       10.08980  (17022701)                382653.01
3743578.97       10.94689  (17022701)
        382753.01   3743578.97       11.92530  (17022701)                382853.01
3743578.97       12.94706  (17022701)
        384453.01   3743578.97       21.56421  (17122319)                384553.01
3743578.97       18.47345  (16021418)
        384653.01   3743578.97       15.80131  (16021418)                384753.01
3743578.97       13.82526  (16021418)
        384853.01   3743578.97       12.35846  (18012718)                382453.01
3743678.97       11.97727  (17022701)
        382553.01   3743678.97       13.37537  (17022701)                382653.01
3743678.97       15.06932  (17022701)
        382753.01   3743678.97       17.16062  (17022701)                382853.01
3743678.97       19.77932  (17022701)
        384453.01   3743678.97       21.78259  (18012718)                384553.01
3743678.97       18.71228  (16011919)
        384653.01   3743678.97       16.11898  (16011919)                384753.01
3743678.97       14.05951  (16011919)
        384853.01   3743678.97       12.40845  (16011919)                382453.01
3743778.97       12.60654  (18010822)

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        15:40:32

                                  PAGE  79
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **
```

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
382553.01	3743778.97	14.19541	(18010822)	382653.01	3743778.97	16.15114	(18010822)
382753.01	3743778.97	18.61614	(18010822)	382853.01	3743778.97	21.79345	(18010822)
384453.01	3743778.97	21.38303	(19020820)	384553.01	3743778.97	18.05709	(19020820)
384653.01	3743778.97	15.54076	(19020820)	384753.01	3743778.97	13.56504	(19020820)
384853.01	3743778.97	11.98379	(19020820)	382453.01	3743878.97	12.64327	(16011806)
382553.01	3743878.97	14.15471	(16011806)	382653.01	3743878.97	15.99826	(18011419)
382753.01	3743878.97	18.52507	(18011419)	382853.01	3743878.97	21.64783	(18011419)
384453.01	3743878.97	15.14969	(17122519)	384553.01	3743878.97	13.49212	(17122519)
384653.01	3743878.97	12.08532	(17122519)	384753.01	3743878.97	10.88631	(17122519)
384853.01	3743878.97	9.85917	(17122519)	382453.01	3743978.97	12.31181	(18011419)
382553.01	3743978.97	13.89824	(19120317)	382653.01	3743978.97	15.82400	(19120317)
382753.01	3743978.97	17.97638	(19120317)	382853.01	3743978.97	20.59001	(17021924)
384453.01	3743978.97	8.03096	(15042102)	384553.01	3743978.97	7.66080	(15042102)
384653.01	3743978.97	7.29680	(15022822)	384753.01	3743978.97	6.99407	(15022822)
384853.01	3743978.97	6.66145	(15022822)	382453.01	3744078.97	12.05437	(17021924)
382553.01	3744078.97	13.43484	(15021707)	382653.01	3744078.97	15.26198	(15021707)
382753.01	3744078.97	17.17236	(16011923)	382853.01	3744078.97	20.07844	(16011923)
384453.01	3744078.97	5.55049	(15042107)	384553.01	3744078.97	4.32620	(18041121)
384653.01	3744078.97	4.19621	(18041121)	384753.01	3744078.97	4.08735	(15042102)
384853.01	3744078.97	4.03169	(15042102)	382453.01	3744178.97	11.68857	(15021707)
382553.01	3744178.97	13.21097	(16011923)	382653.01	3744178.97	14.75548	(16011923)
382753.01	3744178.97	16.73612	(16011924)	382853.01	3744178.97	18.79707	(16011924)
384453.01	3744178.97	5.13337	(15042107)	384553.01			

```
3744178.97        4.46766  (15042107)
        384653.01   3744178.97        3.62850  (15042107)                384753.01
3744178.97        2.87205  (17083118)
        384853.01   3744178.97        2.59178  (18041121)                382453.01
3744278.97       11.40124  (16011923)
        382553.01   3744278.97       12.80132  (16011924)                382653.01
3744278.97       14.07284  (16011924)
        382753.01   3744278.97       14.76839  (16011924)                382853.01
3744278.97       15.42264  (15012104)
        384453.01   3744278.97        4.07723  (19020817)                384553.01
3744278.97        3.68002  (15042107)
        384653.01   3744278.97        3.47253  (15042107)                384753.01
3744278.97        3.05964  (15042107)
        384853.01   3744278.97        2.55455  (15042107)                382453.01
3744378.97       11.07142  (16011924)
        382553.01   3744378.97       11.55934  (16011924)                382653.01
3744378.97       12.00106  (15012104)
        382753.01   3744378.97       12.07947  (15012104)                382853.01
3744378.97       11.31631  (15012104)
        382953.01   3744378.97        9.67895  (15012104)                383053.01
3744378.97        7.42204  (15012104)
        383153.01   3744378.97        6.60967  (18020923)                383253.01
3744378.97        7.60820  (19042418)
        383353.01   3744378.97       11.14853  (19120616)                383453.01
3744378.97       13.27582  (19120616)
        383553.01   3744378.97       11.68819  (17052606)                383653.01
3744378.97       10.29165  (19051018)
        383753.01   3744378.97        9.28148  (19020216)                383853.01
3744378.97        8.95321  (17021417)
        383953.01   3744378.97        8.13163  (16121216)                384053.01
3744378.97        7.30501  (16121216)
        384153.01   3744378.97        5.36960  (16093007)                384253.01
3744378.97        4.73785  (19120516)
        384353.01   3744378.97        4.34730  (19020817)                384453.01
3744378.97        4.08186  (19020817)

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        15:40:32

                                   PAGE  80
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                 L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
```

```
                 L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                 L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)             X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        384553.01   3744378.97        3.35068  (19020817)               384653.01
3744378.97        2.84127  (16093007)
        384753.01   3744378.97        2.66222  (15042107)               384853.01
3744378.97        2.49643  (15042107)
        382453.01   3744478.97        9.65775  (15012104)               382553.01
3744478.97        9.87555  (15012104)
        382653.01   3744478.97        9.57365  (15012104)               382753.01
3744478.97        8.68058  (15012104)
        382853.01   3744478.97        7.26212  (15012104)               382953.01
3744478.97        5.55753  (15012104)
        383053.01   3744478.97        5.29075  (18020923)               383153.01
3744478.97        5.77053  (16012119)
        383253.01   3744478.97        7.02660  (19120616)               383353.01
3744478.97       10.11548  (19120616)
        383453.01   3744478.97       10.02375  (19120616)               383553.01
3744478.97        9.48206  (17052606)
        383653.01   3744478.97        7.59243  (19051018)               383753.01
3744478.97        7.31310  (19020216)
        383853.01   3744478.97        7.17740  (17021417)               383953.01
3744478.97        6.27501  (19022717)
        384053.01   3744478.97        6.46479  (16121216)               384153.01
3744478.97        4.88384  (17010416)
        384253.01   3744478.97        4.08093  (16093007)               384353.01
3744478.97        3.65557  (16093007)
        384453.01   3744478.97        3.41796  (19020817)               384553.01
3744478.97        3.28988  (19020817)
        384653.01   3744478.97        2.82977  (19020817)               384753.01
3744478.97        2.34529  (16093007)
        384853.01   3744478.97        2.11225  (16093007)               382453.01
3744578.97        8.14049  (15012104)
        382553.01   3744578.97        7.66082  (15012104)               382653.01
3744578.97        6.78453  (15012104)
        382753.01   3744578.97        5.60087  (15012104)               382853.01
3744578.97        4.28803  (15012104)
        382953.01   3744578.97        4.35950  (18020923)               383053.01
```

```
3744578.97        4.70740  (17021920)
        383153.01   3744578.97        5.08639  (18020921)                383253.01
3744578.97        7.12585  (19120616)
        383353.01   3744578.97        8.62172  (19120616)                383453.01
3744578.97        7.78727  (17052606)
        383553.01   3744578.97        7.04031  (17052606)                383653.01
3744578.97        6.07408  (19122516)
        383753.01   3744578.97        5.92711  (19021117)                383853.01
3744578.97        5.81339  (18020617)
        383953.01   3744578.97        5.35000  (17021217)                384053.01
3744578.97        5.38062  (16121216)
        384153.01   3744578.97        4.69850  (16121216)                384253.01
3744578.97        3.53788  (16093007)
        384353.01   3744578.97        3.22175  (16093007)                384453.01
3744578.97        2.92210  (16093007)
        384553.01   3744578.97        2.76130  (19020817)                384653.01
3744578.97        2.69524  (19020817)
        384753.01   3744578.97        2.38099  (19020817)                384853.01
3744578.97        1.97379  (16093007)
        382453.01   3744678.97        6.19512  (15012104)                382553.01
3744678.97        5.39214  (15012104)
        382653.01   3744678.97        4.41074  (15012104)                382753.01
3744678.97        3.43305  (19102722)
        382853.01   3744678.97        3.67114  (18020923)                382953.01
3744678.97        3.92654  (17021920)
        383053.01   3744678.97        4.23392  (16012119)                383153.01
3744678.97        4.79847  (19120616)
        383253.01   3744678.97        6.72027  (19120616)                383353.01
3744678.97        7.01424  (19120616)
        383453.01   3744678.97        6.46309  (17052606)                383553.01
3744678.97        5.72521  (19051018)
        383653.01   3744678.97        5.14693  (19122516)                383753.01
3744678.97        4.93206  (19021117)
        383853.01   3744678.97        4.81649  (18020617)                383953.01
3744678.97        4.56277  (17021217)
        384053.01   3744678.97        4.29944  (16121216)                384153.01
3744678.97        4.34983  (16121216)
        384253.01   3744678.97        3.38871  (17010416)                384353.01
3744678.97        2.91638  (19091018)
        384453.01   3744678.97        2.61798  (16093007)                384553.01
3744678.97        2.39851  (16093007)
        384653.01   3744678.97        2.28271  (19020817)                384753.01
3744678.97        2.25767  (19020817)
        384853.01   3744678.97        2.03876  (19020817)                382453.01
3744778.97        4.34888  (15012104)

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        15:40:32
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
382553.01	3744778.97	3.53664	(15012104)	382653.01	3744778.97	2.94580	(17010820)
382753.01	3744778.97	3.15189	(17021319)	382853.01	3744778.97	3.34734	(18020923)
382953.01	3744778.97	3.59429	(16012119)	383053.01	3744778.97	3.81718	(18020921)
383153.01	3744778.97	4.92599	(19120616)	383253.01	3744778.97	5.99904	(19120616)
383353.01	3744778.97	5.65477	(19120616)	383453.01	3744778.97	5.44938	(17052606)
383553.01	3744778.97	4.77439	(19051018)	383653.01	3744778.97	4.41905	(19122516)
383753.01	3744778.97	4.16710	(19021117)	383853.01	3744778.97	4.10042	(19050918)
383953.01	3744778.97	3.98222	(18020617)	384053.01	3744778.97	3.58193	(19022717)
384153.01	3744778.97	3.80989	(16121216)	384253.01	3744778.97	3.28922	(16121216)
384353.01	3744778.97	2.53341	(16093007)	384453.01	3744778.97	2.43481	(19091018)
384553.01	3744778.97	2.17660	(16093007)	384653.01	3744778.97	2.01039	(16093007)
384753.01	3744778.97	1.91629	(19020817)	384853.01	3744778.97	1.91753	(19020817)
381453.01	3741678.97	0.76935	(17010905)	381653.01			

3741678.97 1.41436 (15021606)
381853.01 3741678.97 2.00556 (19012520) 382053.01
3741678.97 1.81956 (19012422)
382253.01 3741678.97 1.89889 (18012920) 382453.01
3741678.97 1.08495 (19122618)
382653.01 3741678.97 1.29338 (19113016) 382853.01
3741678.97 1.67456 (19113016)
383053.01 3741678.97 2.00084 (18012918) 383253.01
3741678.97 2.62000 (19030603)
383453.01 3741678.97 5.26249 (17120503) 383653.01
3741678.97 8.09106 (18120320)
383853.01 3741678.97 8.68478 (17120819) 384053.01
3741678.97 10.02710 (18010802)
384253.01 3741678.97 9.34239 (16022521) 384453.01
3741678.97 6.49810 (15120119)
384653.01 3741678.97 7.14199 (19120702) 384853.01
3741678.97 6.25813 (16012106)
385053.01 3741678.97 5.07005 (18121520) 385253.01
3741678.97 4.83117 (18011323)
385453.01 3741678.97 4.51259 (18012922) 385653.01
3741678.97 4.21175 (18010602)
385853.01 3741678.97 3.99262 (19012618) 381453.01
3741878.97 1.34256 (19022724)
381653.01 3741878.97 0.96839 (17010905) 381853.01
3741878.97 1.88198 (15021606)
382053.01 3741878.97 2.09631 (17010902) 382253.01
3741878.97 2.23896 (19011420)
382453.01 3741878.97 2.40075 (18012920) 382653.01
3741878.97 2.17935 (18010608)
382853.01 3741878.97 2.35507 (18010608) 383053.01
3741878.97 2.37226 (18012918)
383253.01 3741878.97 2.63258 (19030603) 383453.01
3741878.97 5.13640 (17120503)
383653.01 3741878.97 7.25112 (17120503) 383853.01
3741878.97 7.37597 (18120719)
384053.01 3741878.97 12.64007 (18010802) 384253.01
3741878.97 7.85058 (17121120)
384453.01 3741878.97 7.91687 (19022824) 384653.01
3741878.97 6.97111 (17121219)
384853.01 3741878.97 6.03841 (16012104) 385053.01
3741878.97 5.60364 (18011323)
385253.01 3741878.97 5.25697 (18012922) 385453.01
3741878.97 4.87506 (18010602)
385653.01 3741878.97 4.57933 (19012618) 385853.01
3741878.97 4.20363 (16021423)
381453.01 3742078.97 2.49772 (15020607) 381653.01
3742078.97 1.52450 (17010905)
381853.01 3742078.97 1.20760 (17010905) 382053.01
3742078.97 1.88968 (15021606)
382253.01 3742078.97 2.59531 (17010902) 382453.01

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        383453.01   3742078.97   5.71724 (17120503)   383653.01
3742078.97   9.39716 (17120503)
        383853.01   3742078.97   10.45267 (17120819)   384053.01
3742078.97   10.73990 (15020906)
        384253.01   3742078.97   8.18667 (15020602)   384453.01
3742078.97   12.61786 (19120702)
        384653.01   3742078.97   7.25490 (18020220)   384853.01
3742078.97   6.61131 (15020905)
        385053.01   3742078.97   6.21533 (16121122)   385253.01
3742078.97   5.73310 (18010602)
        385453.01   3742078.97   5.33466 (19012618)   385653.01
3742078.97   4.88124 (16021423)
        385853.01   3742078.97   4.48175 (15021201)   381453.01
3742278.97   3.83655 (16121307)
        381653.01   3742278.97   3.45533 (16121307)   381853.01

3742278.97 2.50044 (15020607)
382053.01 3742278.97 1.73710 (19022724) 382253.01
3742278.97 2.92384 (15021606)
382453.01 3742278.97 3.03384 (17010902) 382653.01
3742278.97 3.31808 (18012920)
382853.01 3742278.97 2.91686 (18011524) 383053.01
3742278.97 3.03157 (19113016)
383253.01 3742278.97 2.88042 (19113016) 383453.01
3742278.97 6.42882 (17120503)
383653.01 3742278.97 10.53450 (17120503) 383853.01
3742278.97 13.65482 (17120819)
384053.01 3742278.97 10.33876 (16122020) 384253.01
3742278.97 9.47067 (16020824)
384453.01 3742278.97 9.05444 (17121219) 384653.01
3742278.97 8.18139 (16012104)
384853.01 3742278.97 7.56604 (16021119) 385053.01
3742278.97 6.87898 (18010420)
385253.01 3742278.97 6.32407 (19012618) 385453.01
3742278.97 5.74202 (16021423)
385653.01 3742278.97 5.22915 (15021201) 385853.01
3742278.97 4.76977 (19012624)
381453.01 3742478.97 3.82313 (15020607) 381653.01
3742478.97 3.62981 (15020607)
381853.01 3742478.97 4.57090 (16121307) 382053.01
3742478.97 3.37805 (15020607)
382253.01 3742478.97 3.16544 (16013006) 382453.01
3742478.97 3.39898 (15021606)
382653.01 3742478.97 3.65432 (17010902) 382853.01
3742478.97 4.11089 (18012920)
383053.01 3742478.97 3.32940 (19113016) 383253.01
3742478.97 4.09024 (19113016)
383453.01 3742478.97 6.83581 (17120503) 383653.01
3742478.97 12.04635 (17120503)
383853.01 3742478.97 12.65745 (16021020) 384053.01
3742478.97 12.01273 (17121120)
384253.01 3742478.97 11.30459 (18013021) 384453.01
3742478.97 10.31175 (16012104)
384653.01 3742478.97 9.43259 (18011323) 384853.01
3742478.97 8.49750 (18010420)
385053.01 3742478.97 12.13043 (17121724) 385253.01
3742478.97 6.85535 (16021423)
385453.01 3742478.97 6.16187 (16011918) 385653.01
3742478.97 5.61961 (15021203)
385853.01 3742478.97 5.10137 (17121118) 381453.01
3742678.97 4.82080 (19123119)
381653.01 3742678.97 5.34898 (18011907) 381853.01
3742678.97 5.81745 (16121307)
382053.01 3742678.97 5.86791 (16121307) 382253.01
3742678.97 5.66643 (16121307)
385053.01 3742678.97 8.43984 (18013006) 385253.01

```
3742678.97        7.42702  (19012624)
        385453.01   3742678.97        6.67977  (19012820)                385653.01
3742678.97        5.90969  (17121118)
        385853.01   3742678.97        4.84533  (17121118)                381453.01
3742878.97        4.86416  (15021221)
        381653.01   3742878.97        6.01179  (18011906)                381853.01
3742878.97        6.17109  (17020122)
        382053.01   3742878.97        6.71126  (18011907)                382253.01
3742878.97        4.57806  (16013005)
        385053.01   3742878.97        9.37003  (15021203)                385253.01
3742878.97        8.12879  (17121118)
        385453.01   3742878.97        6.50999  (17121118)                385653.01
3742878.97        5.24798  (16022404)
        385853.01   3742878.97        4.71039  (18012919)                381453.01
3743078.97        5.12675  (15012007)

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        15:40:32

                                   PAGE  83
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        381653.01   3743078.97        5.57630  (15012520)                381853.01
3743078.97        5.89366  (15021221)
        382053.01   3743078.97        7.31140  (18011906)                382253.01
3743078.97        4.75009  (15021807)
        385053.01   3743078.97        9.43566  (17121118)                385253.01
```

```
3743078.97        7.30266  (18011120)
        385453.01   3743078.97        6.29540  (18010421)                385653.01
3743078.97        5.53595  (17122518)
        385853.01   3743078.97        4.87147  (16120919)                381453.01
3743278.97        5.78711  (15021119)
        381653.01   3743278.97        5.64218  (15021119)                381853.01
3743278.97        5.52923  (15021119)
        382053.01   3743278.97        5.35526  (15011207)                382253.01
3743278.97        4.96088  (15021121)
        385053.01   3743278.97        9.13055  (17122518)                385253.01
3743278.97        7.75235  (16120919)
        385453.01   3743278.97        6.59489  (16120919)                385653.01
3743278.97        5.70188  (17120318)
        385853.01   3743278.97        4.99159  (17122319)                381453.01
3743478.97        5.37444  (18011823)
        381653.01   3743478.97        4.67026  (17022701)                381853.01
3743478.97        5.26232  (17022701)
        382053.01   3743478.97        5.22623  (17022701)                382253.01
3743478.97        5.53564  (17022701)
        385053.01   3743478.97        9.69444  (16021418)                385253.01
3743478.97        8.08681  (16021418)
        385453.01   3743478.97        6.82665  (18012718)                385653.01
3743478.97        5.95599  (18012718)
        385853.01   3743478.97        5.22559  (18012718)                381453.01
3743678.97        8.61628  (18011823)
        381653.01   3743678.97        9.53054  (18011823)                381853.01
3743678.97        7.71670  (17022701)
        382053.01   3743678.97        9.17728  (17022701)                382253.01
3743678.97        9.82864  (17022701)
        385053.01   3743678.97        9.93181  (16011919)                385253.01
3743678.97        8.18285  (16011919)
        385453.01   3743678.97        6.89465  (16011919)                385653.01
3743678.97        5.91256  (16011919)
        385853.01   3743678.97        5.14336  (16011919)                381453.01
3743878.97        8.31748  (19020505)
        381653.01   3743878.97        7.43225  (17011420)                381853.01
3743878.97        8.03486  (17011420)
        382053.01   3743878.97        9.07465  (17011420)                382253.01
3743878.97       10.27070  (16011806)
        385053.01   3743878.97        8.21680  (17122519)                385253.01
3743878.97        6.97971  (19020820)
        385453.01   3743878.97        6.02822  (19020820)                385653.01
3743878.97        5.27509  (19020820)
        385853.01   3743878.97        4.66615  (19020820)                381453.01
3744078.97        8.15686  (17021624)
        381653.01   3744078.97        6.65257  (18011419)                381853.01
3744078.97        7.15925  (18011419)
        382053.01   3744078.97        8.35339  (19120317)                382253.01
3744078.97       10.04381  (19120317)
        385053.01   3744078.97        3.83844  (15042102)                385253.01
```

```
3744078.97        3.64066  (15022822)
        385453.01   3744078.97        3.45967  (15022822)                385653.01
3744078.97        3.25740  (15022822)
        385853.01   3744078.97        3.05257  (15022822)                381453.01
3744278.97        6.27821  (19120317)
        381653.01   3744278.97        6.42355  (18121024)                381853.01
3744278.97        6.88667  (19120404)
        382053.01   3744278.97        8.09820  (15021707)                382253.01
3744278.97        9.52063  (16011923)
        385053.01   3744278.97        1.90627  (16093007)                385253.01
3744278.97        1.69704  (18041121)
        385453.01   3744278.97        1.64195  (18041121)                385653.01
3744278.97        1.63115  (18032520)
        385853.01   3744278.97        1.61009  (18032520)                381453.01
3744478.97        5.40782  (15021707)
        381653.01   3744478.97        5.79421  (16010506)                381853.01
3744478.97        6.77429  (16011923)
        382053.01   3744478.97        7.69513  (16011924)                382253.01
3744478.97        9.01848  (16011924)
        385053.01   3744478.97        1.88746  (15042107)                385253.01
3744478.97        1.49724  (15042107)
        385453.01   3744478.97        1.21903  (16093007)                385653.01
3744478.97        1.04328  (16093007)
        385853.01   3744478.97        0.90321  (16093007)                381453.01
3744678.97        5.08925  (16011923)

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        15:40:32

                                PAGE  84
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **
```

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
381653.01	3744678.97	5.69601	(16011924)	381853.01	3744678.97	6.43713	(16011924)
382053.01	3744678.97	6.78143	(18011021)	382253.01	3744678.97	6.99166	(15012104)
385053.01	3744678.97	1.55113	(16093007)	385253.01	3744678.97	1.32641	(15042107)
385453.01	3744678.97	1.24021	(15042107)	385653.01	3744678.97	1.02567	(15042107)
385853.01	3744678.97	0.85713	(16093007)	381453.01	3744878.97	4.90291	(16011924)
381653.01	3744878.97	5.09913	(18011021)	381853.01	3744878.97	5.31921	(15012104)
382053.01	3744878.97	5.06222	(15012104)	382253.01	3744878.97	4.17684	(15012104)
382453.01	3744878.97	2.88220	(15012104)	382653.01	3744878.97	2.74558	(17021319)
382853.01	3744878.97	3.09024	(17021920)	383053.01	3744878.97	3.46913	(19120616)
383253.01	3744878.97	5.30223	(19120616)	383453.01	3744878.97	4.55951	(17052606)
383653.01	3744878.97	3.82431	(19122516)	383853.01	3744878.97	3.52912	(19050918)
384053.01	3744878.97	3.15178	(19022717)	384253.01	3744878.97	3.12455	(16121216)
384453.01	3744878.97	2.16062	(19091018)	384653.01	3744878.97	1.84288	(16093007)
384853.01	3744878.97	1.63217	(19020817)	385053.01	3744878.97	1.54457	(19020817)
385253.01	3744878.97	1.19408	(16093007)	385453.01	3744878.97	1.04123	(16093007)
385653.01	3744878.97	0.96125	(15042107)	385853.01	3744878.97	0.89721	(15042107)
381453.01	3745078.97	4.19588	(15012104)	381653.01	3745078.97	4.14491	(15012104)
381853.01	3745078.97	3.70195	(15012104)	382053.01	3745078.97	2.91738	(15012104)
382253.01	3745078.97	1.99142	(19102722)	382453.01	3745078.97	2.15464	(17021319)
382653.01	3745078.97	2.38436	(17021920)	382853.01	3745078.97	2.64005	(18020921)
383053.01	3745078.97	3.56746	(19120616)	383253.01	3745078.97	3.44360	(19120616)
383453.01	3745078.97	3.14244	(17052606)	383653.01	3745078.97	2.92805	(19122516)
383853.01	3745078.97	2.66063	(19050918)	384053.01			

```
3745078.97        2.45443  (18020617)
        384253.01   3745078.97        2.47306  (16121216)                384453.01
3745078.97        1.90977  (17010416)
        384653.01   3745078.97        1.61762  (19091018)                384853.01
3745078.97        1.37855  (16093007)
        385053.01   3745078.97        1.22577  (19020817)                385253.01
3745078.97        1.20685  (19020817)
        385453.01   3745078.97        0.95188  (16093007)                385653.01
3745078.97        0.84562  (16093007)
        385853.01   3745078.97        0.75443  (16093007)                381453.01
3745278.97        3.22280  (15012104)
        381653.01   3745278.97        2.75155  (15012104)                381853.01
3745278.97        2.10130  (15012104)
        382053.01   3745278.97        1.67624  (19011619)                382253.01
3745278.97        1.75151  (17011518)
        382453.01   3745278.97        2.02848  (18020923)                382653.01
3745278.97        2.09816  (16012119)
        382853.01   3745278.97        2.21824  (19020120)                383053.01
3745278.97        3.02287  (19120616)
        383253.01   3745278.97        2.76551  (17052606)                383453.01
3745278.97        2.39064  (19051018)
        383653.01   3745278.97        2.32617  (19122516)                383853.01
3745278.97        2.10232  (19021117)
        384053.01   3745278.97        2.12822  (18020617)                384253.01
3745278.97        1.74509  (16121216)
        384453.01   3745278.97        1.83309  (16121216)                384653.01
3745278.97        1.32399  (16093007)
        384853.01   3745278.97        1.21142  (19091018)                385053.01
3745278.97        1.07646  (16093007)
        385253.01   3745278.97        0.96608  (16093007)                385453.01
3745278.97        0.96123  (19020817)
        385653.01   3745278.97        0.80068  (19020817)                385853.01
3745278.97        0.70235  (16093007)
        381453.01   3745478.97        2.07513  (15012104)                381653.01
3745478.97        1.55629  (15012104)

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        15:40:32

                                  PAGE  85
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                 L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
```

```
                 L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                 L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)             X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        381853.01   3745478.97        1.36127  (19011619)               382053.01
3745478.97        1.46313  (17011518)
        382253.01   3745478.97        4.10719  (15010906)               382453.01
3745478.97        1.72206  (16012119)
        382653.01   3745478.97        2.24054  (19020120)               382853.01
3745478.97        2.12976  (19120616)
        383053.01   3745478.97        2.31700  (19120616)               383253.01
3745478.97        2.27706  (17052606)
        383453.01   3745478.97        1.86803  (19051018)               383653.01
3745478.97        1.89261  (19122516)
        383853.01   3745478.97        1.71661  (19021117)               384053.01
3745478.97        1.79909  (18020617)
        384253.01   3745478.97        1.49245  (19022717)               384453.01
3745478.97        1.57961  (16121216)
        384653.01   3745478.97        1.24942  (17010416)               384853.01
3745478.97        1.05850  (19091018)
        385053.01   3745478.97        0.95371  (16093007)               385253.01
3745478.97        0.86782  (16093007)
        385453.01   3745478.97        0.78855  (16093007)               385653.01
3745478.97        0.78591  (19020817)
        385853.01   3745478.97        0.68191  (19020817)               381453.01
3745678.97        1.17807  (15012104)
        381653.01   3745678.97        1.16959  (19011619)               381853.01
3745678.97        1.24699  (17011518)
        382053.01   3745678.97        1.34776  (18020923)               382253.01
3745678.97        1.44216  (17021920)
        382453.01   3745678.97        2.48736  (17020620)               382653.01
3745678.97        1.59203  (19020120)
        382853.01   3745678.97        1.99965  (19120616)               383053.01
3745678.97        1.67638  (19120616)
        383253.01   3745678.97        1.84301  (17052606)               383453.01
3745678.97        1.48468  (19051018)
        383653.01   3745678.97        1.56945  (19122516)               383853.01
3745678.97        1.42314  (19021117)
        384053.01   3745678.97        1.49858  (18020617)               384253.01
```

```
3745678.97        1.23062  (19022717)
        384453.01   3745678.97        1.23320  (16121216)                384653.01
3745678.97        1.19287  (16121216)
        384853.01   3745678.97        0.95394  (18122717)                385053.01
3745678.97        0.87041  (19091018)
        385253.01   3745678.97        0.78063  (16093007)                385453.01
3745678.97        0.71706  (16093007)
        385653.01   3745678.97        0.65800  (16093007)                385853.01
3745678.97        0.64435  (19020817)
        381453.01   3745878.97        1.02012  (19011619)                381653.01
3745878.97        1.07973  (17011518)
        381853.01   3745878.97        1.16182  (18020923)                382053.01
3745878.97        1.23295  (17021920)
        382253.01   3745878.97        1.31360  (16012119)                382453.01
3745878.97        1.38111  (18020921)
        382653.01   3745878.97        1.48549  (19120616)                382853.01
3745878.97        1.70928  (19120616)
        383053.01   3745878.97        1.55793  (17052606)                383253.01
3745878.97        1.47400  (17052606)
        383453.01   3745878.97        1.21133  (19051018)                383653.01
3745878.97        1.32204  (19122516)
        383853.01   3745878.97        1.20015  (19020216)                384053.01
3745878.97        1.23789  (18020617)
        384253.01   3745878.97        1.06789  (18020617)                384453.01
3745878.97        0.99478  (16121518)
        384653.01   3745878.97        1.08324  (16121216)                384853.01
3745878.97        0.91830  (17010416)
        385053.01   3745878.97        0.78519  (18122717)                385253.01
3745878.97        0.70779  (19091018)
        385453.01   3745878.97        0.65270  (16093007)                385653.01
3745878.97        0.60421  (16093007)
        385853.01   3745878.97        0.55890  (16093007)                378453.01
3738678.97        2.70521  (15021002)
        378953.01   3738678.97        2.73150  (16011224)                379453.01
3738678.97        2.27434  (15022303)
        379953.01   3738678.97        1.02017  (16022222)                380453.01
3738678.97        0.28557  (19092908)
        380953.01   3738678.97        0.29950  (19101808)                381453.01
3738678.97        0.37371  (18010608)
        381953.01   3738678.97        0.30894  (19113016)                382453.01
3738678.97        0.32080  (16022808)
        382953.01   3738678.97        0.79285  (17120503)                383453.01
3738678.97        1.68731  (17120503)
        383953.01   3738678.97        1.79398  (19120219)                384453.01
3738678.97        1.88590  (16021020)

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        15:40:32
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
384953.01	3738678.97	1.77076	(16122020)	385453.01	3738678.97	1.72459	(15020602)
385953.01	3738678.97	1.67513	(18013021)	386453.01	3738678.97	1.58455	(18020220)
386953.01	3738678.97	1.46974	(16012104)	387453.01	3738678.97	1.38683	(18011323)
387953.01	3738678.97	1.28889	(18012922)	388453.01	3738678.97	1.20022	(18010602)
388953.01	3738678.97	1.13690	(19012618)	378453.01	3739178.97	2.16458	(19121823)
378953.01	3739178.97	1.54653	(16011401)	379453.01	3739178.97	0.81460	(18012620)
379953.01	3739178.97	0.31723	(16070608)	380453.01	3739178.97	0.32956	(16022008)
380953.01	3739178.97	0.31238	(19101808)	381453.01	3739178.97	0.32595	(19110608)
381953.01	3739178.97	0.40587	(19113016)	382453.01	3739178.97	0.62875	(18012918)
382953.01	3739178.97	0.84991	(19030603)	383453.01	3739178.97	1.92393	(17120503)
383953.01	3739178.97	2.08657	(18120719)	384453.01	3739178.97	2.13161	(16021020)
384953.01	3739178.97	2.05039	(17123120)	385453.01	3739178.97	1.98329	(16020824)
385953.01	3739178.97	1.89502	(17121219)	386453.01			

3739178.97 1.74087 (16012104)
386953.01 3739178.97 1.61528 (15020905) 387453.01
3739178.97 1.50882 (16121122)
387953.01 3739178.97 1.39940 (18010602) 388453.01
3739178.97 1.31205 (19012618)
388953.01 3739178.97 1.19356 (17120118) 378453.01
3739678.97 1.68817 (18121802)
378953.01 3739678.97 1.41384 (16020224) 379453.01
3739678.97 1.05032 (16022624)
379953.01 3739678.97 0.83405 (19012520) 380453.01
3739678.97 0.34589 (16022008)
380953.01 3739678.97 0.34594 (16022008) 381453.01
3739678.97 0.35421 (19101808)
381953.01 3739678.97 0.48038 (19113016) 382453.01
3739678.97 0.38210 (19113016)
382953.01 3739678.97 0.93330 (19030603) 383453.01
3739678.97 3.49799 (18120320)
383953.01 3739678.97 2.48976 (18120719) 384453.01
3739678.97 2.50948 (16122020)
384953.01 3739678.97 2.42155 (17121120) 385453.01
3739678.97 2.28624 (18013021)
385953.01 3739678.97 2.14887 (18020220) 386453.01
3739678.97 1.93130 (19022722)
386953.01 3739678.97 1.81033 (16021119) 387453.01
3739678.97 1.65919 (18010420)
387953.01 3739678.97 1.54077 (19012618) 388453.01
3739678.97 1.39822 (16021423)
388953.01 3739678.97 1.27635 (18013006) 378453.01
3740178.97 1.48548 (16010604)
378953.01 3740178.97 1.34574 (15022306) 379453.01
3740178.97 1.46727 (17120321)
379953.01 3740178.97 0.97992 (15020604) 380453.01
3740178.97 1.12431 (16011801)
380953.01 3740178.97 0.38994 (16022008) 381453.01
3740178.97 0.37013 (19092908)
381953.01 3740178.97 0.48153 (18010608) 382453.01
3740178.97 0.60523 (18012918)
382953.01 3740178.97 0.80377 (19030603) 383453.01
3740178.97 2.59978 (17120503)
383953.01 3740178.97 3.69142 (17120819) 384453.01
3740178.97 5.57462 (15020906)
384953.01 3740178.97 4.57021 (17020221) 385453.01
3740178.97 2.68198 (17121219)
385953.01 3740178.97 2.43969 (16012104) 386453.01
3740178.97 2.23025 (16021119)
386953.01 3740178.97 2.02113 (18010420) 387453.01
3740178.97 1.84293 (19012618)
387953.01 3740178.97 1.66384 (16021423) 388453.01
3740178.97 1.50204 (15021201)
388953.01 3740178.97 1.36669 (16122919) 378453.01

3740678.97   1.97216 (16010604)
        378953.01   3740678.97   1.65298 (16121307)   379453.01
3740678.97   1.31564 (16121307)
        379953.01   3740678.97   1.52076 (15020622)   380453.01
3740678.97   1.15181 (15020604)

 *** AERMOD - VERSION 24142 ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***   06/25/25
 *** AERMET - VERSION 22112 ***   ***
                      ***   15:40:32

                                   PAGE 87
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                   INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_10   IN MICROGRAMS/M**3
                 **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        380953.01   3740678.97   0.40227 (16070608)   381453.01
3740678.97   0.43910 (16022008)
        381953.01   3740678.97   0.43572 (19101808)   382453.01
3740678.97   1.17206 (15122205)
        382953.01   3740678.97   1.34909 (15120620)   383453.01
3740678.97   4.69735 (18120320)
        383953.01   3740678.97   6.26091 (16011220)   384453.01
3740678.97   6.16713 (15012907)
        384953.01   3740678.97   5.27611 (16121421)   385453.01
3740678.97   5.03020 (18012901)
        385953.01   3740678.97   3.99603 (16020723)   386453.01
3740678.97   2.52738 (18010420)
        386953.01   3740678.97   2.25905 (19012618)   387453.01
3740678.97   2.00001 (16021423)
        387953.01   3740678.97   1.79118 (16020922)   388453.01

3740678.97 1.61824 (15021203)
388953.01 3740678.97 1.46352 (17121118) 378453.01
3741178.97 2.50429 (15020101)
378953.01 3741178.97 2.48730 (15120824) 379453.01
3741178.97 2.19023 (16121307)
379953.01 3741178.97 2.14810 (16010604) 380453.01
3741178.97 1.38831 (15020407)
380953.01 3741178.97 0.48386 (17010905) 381453.01
3741178.97 1.43152 (19012520)
381953.01 3741178.97 1.51110 (18012920) 382453.01
3741178.97 0.90471 (19113016)
382953.01 3741178.97 1.60653 (18012918) 383453.01
3741178.97 5.48900 (18120320)
383953.01 3741178.97 4.78789 (16012619) 384453.01
3741178.97 8.09627 (17021220)
384953.01 3741178.97 5.13590 (18120101) 385453.01
3741178.97 3.65487 (15011819)
385953.01 3741178.97 3.32210 (18010420) 386453.01
3741178.97 2.85818 (19012618)
386953.01 3741178.97 2.49130 (18013006) 387453.01
3741178.97 2.18675 (16122919)
387953.01 3741178.97 1.94509 (18011401) 388453.01
3741178.97 1.67049 (17121118)
388953.01 3741178.97 1.28846 (18013001) 378453.01
3741678.97 2.68350 (15012106)
378953.01 3741678.97 2.84969 (17020305) 379453.01
3741678.97 2.85583 (15020101)
379953.01 3741678.97 2.23757 (17011522) 380453.01
3741678.97 1.18127 (17010905)
380953.01 3741678.97 1.10218 (17010905) 385953.01
3741678.97 3.82580 (15020719)
386453.01 3741678.97 3.24367 (15021201) 386953.01
3741678.97 2.77233 (15021203)
387453.01 3741678.97 2.36488 (17121118) 387953.01
3741678.97 1.73828 (18013001)
388453.01 3741678.97 1.51772 (18011120) 388953.01
3741678.97 1.35004 (18012919)
378453.01 3742178.97 2.81627 (18122021) 378953.01
3742178.97 2.75935 (18011002)
379453.01 3742178.97 2.82240 (16022320) 379953.01
3742178.97 3.20438 (17020305)
380453.01 3742178.97 3.10264 (19123119) 380953.01
3742178.97 1.62360 (16010402)
385953.01 3742178.97 4.42320 (15021822) 386453.01
3742178.97 3.66368 (17121118)
386953.01 3742178.97 2.53670 (18013001) 387453.01
3742178.97 2.14252 (18012919)
387953.01 3742178.97 1.83965 (18010421) 388453.01
3742178.97 1.58797 (17122518)
388953.01 3742178.97 1.40700 (16120919) 378453.01

3742678.97   2.73130 (18012221)
        378953.01   3742678.97   2.82447 (18010623)   379453.01
3742678.97   3.08393 (15021322)
        379953.01   3742678.97   3.06575 (16022705)   380453.01
3742678.97   3.06873 (15012520)
        380953.01   3742678.97   2.97619 (15021221)   385953.01
3742678.97   4.28752 (17121118)
        386453.01   3742678.97   3.34681 (18012919)   386953.01
3742678.97   2.71073 (17122518)
        387453.01   3742678.97   2.27957 (16120919)   387953.01
3742678.97   1.91497 (17120318)
        388453.01   3742678.97   1.62199 (19012418)   388953.01
3742678.97   1.44359 (17122319)
        378453.01   3743178.97   3.03783 (16022604)   378953.01
3743178.97   2.63199 (15010823)

 *** AERMOD - VERSION 24142 ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***   06/25/25
 *** AERMET - VERSION 22112 ***   ***
                       ***   15:40:32

                                   PAGE 88
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                   INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        379453.01   3743178.97   2.76133 (15022101)   379953.01
3743178.97   2.96329 (16120602)
        380453.01   3743178.97   3.12210 (19121323)   380953.01
3743178.97   4.00441 (16020819)
        385953.01   3743178.97   4.66417 (17120318)   386453.01

3743178.97 3.57448 (17122319)
386953.01 3743178.97 2.87689 (16021418) 387453.01
3743178.97 2.34435 (18010603)
387953.01 3743178.97 2.00507 (18012718) 388453.01
3743178.97 1.72232 (18012718)
388953.01 3743178.97 3.56909 (17121302) 378453.01
3743678.97 3.81811 (18011823)
378953.01 3743678.97 4.21387 (18011823) 379453.01
3743678.97 4.46686 (18011823)
379953.01 3743678.97 4.75022 (18011823) 380453.01
3743678.97 5.27926 (18011823)
380953.01 3743678.97 6.71274 (18011823) 385953.01
3743678.97 4.81942 (16011919)
386453.01 3743678.97 3.63711 (17022323) 386953.01
3743678.97 2.88149 (17022323)
387453.01 3743678.97 2.35754 (17022323) 387953.01
3743678.97 1.97728 (17022323)
388453.01 3743678.97 1.68998 (17022323) 388953.01
3743678.97 3.87296 (19010719)
378453.01 3744178.97 3.95435 (18012820) 378953.01
3744178.97 4.11327 (15020404)
379453.01 3744178.97 4.38849 (15020404) 379953.01
3744178.97 4.62742 (19020402)
380453.01 3744178.97 5.64455 (19020402) 380953.01
3744178.97 6.97747 (17021624)
385953.01 3744178.97 2.16505 (15022822) 386453.01
3744178.97 1.97157 (15022822)
386953.01 3744178.97 1.76034 (15022822) 387453.01
3744178.97 1.56697 (15022822)
387953.01 3744178.97 1.39753 (15022822) 388453.01
3744178.97 1.26642 (15022822)
388953.01 3744178.97 2.31913 (18122619) 378453.01
3744678.97 3.86703 (19121220)
378953.01 3744678.97 3.73750 (19011323) 379453.01
3744678.97 2.22484 (19120317)
379953.01 3744678.97 2.61003 (19120317) 380453.01
3744678.97 3.12974 (19120404)
380953.01 3744678.97 6.30416 (17121605) 385953.01
3744678.97 0.80386 (16093007)
386453.01 3744678.97 0.59980 (16093007) 386953.01
3744678.97 0.52990 (18041121)
387453.01 3744678.97 0.53199 (18032520) 387953.01
3744678.97 0.53481 (18032520)
388453.01 3744678.97 0.52875 (18032520) 388953.01
3744678.97 0.51505 (18032520)
378453.01 3745178.97 3.68588 (19010703) 378953.01
3745178.97 3.51192 (17021401)
379453.01 3745178.97 3.68862 (17121605) 379953.01
3745178.97 4.19815 (16022221)
380453.01 3745178.97 2.92363 (16011924) 380953.01

```
3745178.97        6.01744  (19121401)
        385953.01   3745178.97        0.69059  (16093007)                386453.01
3745178.97        0.60767  (15042107)
        386953.01   3745178.97        0.42874  (16093007)                387453.01
3745178.97        0.34967  (16093007)
        387953.01   3745178.97        0.30505  (19121116)                388453.01
3745178.97        0.46825  (16120821)
        388953.01   3745178.97        0.40467  (16120821)                378453.01
3745678.97        2.90683  (16022221)
        378953.01   3745678.97        3.61623  (19010701)                379453.01
3745678.97        3.56088  (16010324)
        379953.01   3745678.97        2.34752  (16011924)                380453.01
3745678.97        2.47781  (15012104)
        380953.01   3745678.97        2.13370  (15012104)                385953.01
3745678.97        0.62637  (19020817)
        386453.01   3745678.97        0.46988  (16093007)                386953.01
3745678.97        0.42251  (19092307)
        387453.01   3745678.97        0.38173  (15042107)                387953.01
3745678.97        0.35521  (19010618)
        388453.01   3745678.97        0.79733  (17010319)                388953.01
3745678.97        0.22782  (19050707)
        378453.01   3746178.97        2.90671  (16010324)                378953.01
3746178.97        3.37311  (19121401)
        379453.01   3746178.97        3.60192  (15022622)                379953.01
3746178.97        2.75365  (15022622)

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        15:40:32

                                  PAGE  89
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **
```

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
380453.01	3746178.97	1.24362	(15012104)	380953.01	3746178.97	0.80108	(16022822)
381453.01	3746178.97	0.92187	(17021319)	381953.01	3746178.97	1.06333	(16012119)
382453.01	3746178.97	1.12969	(19020120)	382953.01	3746178.97	1.25226	(17052606)
383453.01	3746178.97	0.90747	(19051018)	383953.01	3746178.97	0.93336	(19082818)
384453.01	3746178.97	0.84409	(19022717)	384953.01	3746178.97	0.80392	(17010416)
385453.01	3746178.97	0.57277	(19091018)	385953.01	3746178.97	0.85115	(18022718)
386453.01	3746178.97	0.77510	(19022519)	386953.01	3746178.97	0.67274	(18010321)
387453.01	3746178.97	0.44644	(16122917)	387953.01	3746178.97	0.34409	(19092307)
388453.01	3746178.97	0.38971	(16123103)	388953.01	3746178.97	0.38251	(19010618)
378453.01	3746678.97	3.09180	(16011922)	378953.01	3746678.97	2.75754	(15022622)
379453.01	3746678.97	1.74781	(15022622)	379953.01	3746678.97	1.53581	(15021401)
380453.01	3746678.97	0.76178	(18123118)	380953.01	3746678.97	0.69818	(17011518)
381453.01	3746678.97	2.23253	(15122619)	381953.01	3746678.97	0.87565	(18020921)
382453.01	3746678.97	1.05166	(19120616)	382953.01	3746678.97	1.00406	(17052606)
383453.01	3746678.97	0.68212	(19122516)	383953.01	3746678.97	0.71102	(19082818)
384453.01	3746678.97	0.71939	(16121519)	384953.01	3746678.97	2.94883	(17021823)
385453.01	3746678.97	4.20628	(17020402)	385953.01	3746678.97	3.19407	(18013023)
386453.01	3746678.97	4.08739	(17010404)	386953.01	3746678.97	3.65344	(16011607)
387453.01	3746678.97	0.62304	(16022318)	387953.01	3746678.97	0.51220	(16122917)
388453.01	3746678.97	0.46210	(16123103)	388953.01	3746678.97	0.29560	(17053110)
378453.01	3747178.97	1.82109	(15022622)	378953.01	3747178.97	1.53198	(19121222)
379453.01	3747178.97	1.45949	(15021401)	379953.01	3747178.97	1.29970	(18121018)
380453.01	3747178.97	0.93687	(15012023)	380953.01			

```
3747178.97        2.15578  (18011423)
        381453.01   3747178.97        0.67463  (18020921)                381953.01
3747178.97        0.68106  (19020120)
        382453.01   3747178.97        0.70792  (19120616)                382953.01
3747178.97        0.70222  (17052606)
        383453.01   3747178.97        0.53805  (19122516)                383953.01
3747178.97        2.48870  (17020318)
        384453.01   3747178.97        4.02850  (15011002)                384953.01
3747178.97        5.91775  (18120501)
        385453.01   3747178.97        5.59924  (16123107)                385953.01
3747178.97        4.20752  (17010221)
        386453.01   3747178.97        3.86772  (16112524)                386953.01
3747178.97        3.35386  (18040805)
        387453.01   3747178.97        0.61260  (18122119)                387953.01
3747178.97        0.53954  (16022318)
        388453.01   3747178.97        0.45591  (18010321)                388953.01
3747178.97        0.43876  (16122917)
        378453.01   3747678.97        1.31099  (18020323)                378953.01
3747678.97        1.30920  (18121019)
        379453.01   3747678.97        1.26366  (15021622)                379953.01
3747678.97        1.21904  (18020118)
        380453.01   3747678.97        0.84798  (16121517)                380953.01
3747678.97        0.99068  (16011522)
        381453.01   3747678.97        0.57618  (19020120)                381953.01
3747678.97        0.64373  (19120616)
        382453.01   3747678.97        0.55989  (17052606)                382953.01
3747678.97        0.49807  (19020217)
        383453.01   3747678.97        2.72457  (15010821)                383953.01
3747678.97        3.95374  (18121801)
        384453.01   3747678.97        4.75281  (17121419)                384953.01
3747678.97        4.50164  (16021223)
        385453.01   3747678.97        5.04259  (18020407)                385953.01
3747678.97        4.49023  (16123107)
        386453.01   3747678.97        3.28356  (16022104)                386953.01
3747678.97        1.85758  (18020424)

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        15:40:32

                                  PAGE  90
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                 L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
```

L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
387453.01	3747678.97	0.64345	(17010318)	387953.01	3747678.97	0.53573	(18122119)
388453.01	3747678.97	0.48696	(16022318)	388953.01	3747678.97	0.45968	(18010321)
378453.01	3748178.97	1.03806	(19121322)	378953.01	3748178.97	1.11030	(15021622)
379453.01	3748178.97	1.05095	(18020118)	379953.01	3748178.97	1.05611	(16012118)
380453.01	3748178.97	0.44566	(17021920)	380953.01	3748178.97	0.48211	(18020921)
381453.01	3748178.97	0.46589	(19020120)	381953.01	3748178.97	0.53473	(19120616)
382453.01	3748178.97	0.54885	(17052606)	382953.01	3748178.97	1.27021	(15022201)
383453.01	3748178.97	2.57229	(18022023)	383953.01	3748178.97	3.62413	(18121801)
384453.01	3748178.97	4.46617	(16021406)	384953.01	3748178.97	4.50014	(16021223)
385453.01	3748178.97	4.45316	(17021101)	385953.01	3748178.97	3.79302	(16123107)
386453.01	3748178.97	2.56109	(17020402)	386953.01	3748178.97	1.41452	(18013023)
387453.01	3748178.97	0.86716	(17010919)	387953.01	3748178.97	0.54698	(17010318)
388453.01	3748178.97	0.47474	(18122119)	388953.01	3748178.97	0.45814	(16022318)
378453.01	3748678.97	0.86259	(15021622)	378953.01	3748678.97	0.32490	(18020924)
379453.01	3748678.97	0.35259	(18020923)	379953.01	3748678.97	0.37694	(17021920)
380453.01	3748678.97	0.40277	(16121416)	380953.01	3748678.97	1.28182	(18011420)
381453.01	3748678.97	0.44961	(19120616)	381953.01	3748678.97	0.36682	(19120616)
382453.01	3748678.97	0.77368	(17020722)	382953.01			

```
3748678.97        0.90097  (15022124)
        383453.01   3748678.97        1.88322  (15010821)                383953.01
3748678.97        2.65337  (18121801)
        384453.01   3748678.97        3.61861  (16121102)                384953.01
3748678.97        3.38274  (17121419)
        385453.01   3748678.97        3.37534  (18120501)                385953.01
3748678.97        2.43153  (15011306)
        386453.01   3748678.97        2.16983  (17020402)                386953.01
3748678.97        1.18125  (15011118)
        387453.01   3748678.97        0.60568  (15021023)                387953.01
3748678.97        0.52479  (18010618)
        388453.01   3748678.97        0.48823  (17010318)                388953.01
3748678.97        0.81413  (15010220)
        383403.59   3743811.23      104.93644  (19120317)                383435.05
3743828.05      114.36086  (16011923)
        383402.50   3743847.04       93.02095  (16011923)                383440.47
3743859.51       98.64189  (16011924)
        383407.93   3743900.20       75.22244  (16011924)                383370.50
3743907.25       68.93473  (16011924)
        383517.51   3743913.22       67.42404  (15012104)                383555.48
3743914.30       59.13574  (15012104)
        383597.25   3744004.35       47.73186  (19120616)                383583.69
3743978.31       52.35968  (19120616)
        383540.29   3743981.03       41.94231  (19120616)                383502.86
3743982.65       33.50531  (15012104)
        383501.23   3744030.39       29.97485  (19120616)                383501.77
3744065.65       28.81136  (19120616)
        383502.86   3744098.74       27.42129  (19120616)                383530.53
3744138.88       26.64201  (19120616)
        383553.85   3744161.67       24.51647  (19120616)                383605.39
3744148.11       22.43931  (19120616)
        383575.01   3744160.58       23.65020  (19120616)                383509.37
3744139.43       25.64158  (19120616)
        383384.06   3743907.25       70.41507  (16011924)


 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        15:40:32

                                  PAGE  91
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                       *** THE SUMMARY OF MAXIMUM PERIOD ( 43824
HRS) RESULTS ***


                                    ** CONC OF PM_10    IN MICROGRAMS/M**3
             **
```

```
                        NETWORK
GROUP ID                        AVERAGE CONC                RECEPTOR  (XR, YR, ZELEV,
ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -

ALL       1ST HIGHEST VALUE IS      86.57359 AT (  383613.01,  3743758.97,     7.39,
    7.39,    0.00)  DC
          2ND HIGHEST VALUE IS      80.04487 AT (  383613.01,  3743738.97,     7.51,
    7.51,    0.00)  DC
          3RD HIGHEST VALUE IS      73.59922 AT (  383613.01,  3743718.97,     7.55,
    7.55,    0.00)  DC
          4TH HIGHEST VALUE IS      68.38954 AT (  383593.01,  3743758.97,     7.50,
    7.50,    0.00)  DC
          5TH HIGHEST VALUE IS      68.01502 AT (  383793.01,  3743798.97,     5.82,
    5.82,    0.00)  DC
          6TH HIGHEST VALUE IS      64.14998 AT (  383613.01,  3743698.97,     7.50,
    7.50,    0.00)  DC
          7TH HIGHEST VALUE IS      59.09514 AT (  383593.01,  3743738.97,     7.64,
    7.64,    0.00)  DC
          8TH HIGHEST VALUE IS      58.07638 AT (  383573.01,  3743758.97,     7.51,
    7.51,    0.00)  DC
          9TH HIGHEST VALUE IS      57.54161 AT (  383753.01,  3743638.97,     6.63,
    6.63,    0.00)  DC
         10TH HIGHEST VALUE IS      57.48476 AT (  383813.01,  3743798.97,     6.26,
    6.26,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        15:40:32

                                  PAGE  92
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                                *** THE SUMMARY OF HIGHEST  1-HR
RESULTS ***


                                  ** CONC OF PM_10    IN MICROGRAMS/M**3
              **
```

```
                                                     DATE
                                          NETWORK
GROUP ID                          AVERAGE CONC     (YYMMDDHH)             RECEPTOR
(XR, YR, ZELEV, ZHILL, ZFLAG)    OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

ALL      HIGH   1ST HIGH VALUE IS     271.78571  ON 19011505: AT (  383613.01,
3743758.97,     7.39,     7.39,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR

 *** AERMOD - VERSION 24142  ***   *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Carson Calas Park Stor ***        06/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        15:40:32

                                  PAGE  93
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of          916 Informational Message(s)

 A Total of        43824 Hours Were Processed

 A Total of          689 Calm Hours Identified

 A Total of          227 Missing Hours Identified (  0.52 Percent)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186     382       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
     0.50
 ME W187     382       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


    **********************************
```

*** AERMOD Finishes Successfully ***
****

HARP2 - HRACalc (dated 22118) 6/25/2025 4:53:27 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 1.17

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 1.17
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: True
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: RMP

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: ON

****
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05
Soil mixing depth (m): 0.01
Dermal climate: Mixed

****
HOMEGROWN CROP PATHWAY SETTINGS

Household type: HouseholdsthatGarden
Fraction leafy: 0.137
Fraction exposed: 0.137
Fraction protected: 0.137
Fraction root: 0.137

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: C:\Users\anoll\OneDrive - Dudek\Desktop\HARP2\Carson Calas Park Stormwater Capture\CALAS PARK RESIDENT UNMITIGATED\hra\Residential_UnmitigatedCancerRisk.csv
Cancer risk total by receptor saved to: C:\Users\anoll\OneDrive - Dudek\Desktop\HARP2\Carson Calas Park Stormwater Capture\CALAS PARK RESIDENT UNMITIGATED\hra\Residential_UnmitigatedCancerRiskSumByRec.csv
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to: C:\Users\anoll\OneDrive - Dudek\Desktop\HARP2\Carson Calas Park Stormwater Capture\CALAS PARK RESIDENT UNMITIGATED\hra\Residential_UnmitigatedNCChronicRisk.csv
Chronic risk total by receptor saved to: C:\Users\anoll\OneDrive - Dudek\Desktop\HARP2\Carson Calas Park Stormwater Capture\CALAS PARK RESIDENT UNMITIGATED\hra\Residential_UnmitigatedNCChronicRiskSumByRec.csv
Calculating acute risk
Acute risk breakdown by pollutant and receptor saved to: C:\Users\anoll\OneDrive - Dudek\Desktop\HARP2\Carson Calas Park Stormwater Capture\CALAS PARK RESIDENT UNMITIGATED\hra\Residential_UnmitigatedNCAcuteRisk.csv
Acute risk total by receptor saved to: C:\Users\anoll\OneDrive - Dudek\Desktop\HARP2\Carson Calas Park Stormwater Capture\CALAS PARK RESIDENT UNMITIGATED\hra\Residential_UnmitigatedNCAcuteRiskSumByRec.csv

HRA ran successfully

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_R	MMILK_RI	WATER_RI	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISI	PIG_RISK	CHICKEN_F	EGG_RISK
1	ALL		383453	3743679	7.81E-06	1.17YrCanc	7.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	ALL		383473	3743679	8.94E-06	1.17YrCanc	8.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	ALL		383493	3743679	1.03E-05	1.17YrCanc	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	ALL		383513	3743679	1.20E-05	1.17YrCanc	1.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	ALL		383533	3743679	1.41E-05	1.17YrCanc	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	ALL		383553	3743679	1.67E-05	1.17YrCanc	1.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	ALL		383573	3743679	2.04E-05	1.17YrCanc	2.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	ALL		383593	3743679	2.57E-05	1.17YrCanc	2.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	ALL		383613	3743679	3.45E-05	1.17YrCanc	3.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10	ALL		383453	3743699	8.67E-06	1.17YrCanc	8.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
11	ALL		383473	3743699	1.01E-05	1.17YrCanc	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12	ALL		383493	3743699	1.17E-05	1.17YrCanc	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13	ALL		383513	3743699	1.38E-05	1.17YrCanc	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
14	ALL		383533	3743699	1.63E-05	1.17YrCanc	1.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
15	ALL		383553	3743699	1.96E-05	1.17YrCanc	1.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16	ALL		383573	3743699	2.42E-05	1.17YrCanc	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17	ALL		383593	3743699	3.12E-05	1.17YrCanc	3.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
18	ALL		383613	3743699	4.43E-05	1.17YrCanc	4.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
19	ALL		383453	3743719	9.76E-06	1.17YrCanc	9.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20	ALL		383473	3743719	1.15E-05	1.17YrCanc	1.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21	ALL		383493	3743719	1.37E-05	1.17YrCanc	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22	ALL		383513	3743719	1.62E-05	1.17YrCanc	1.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23	ALL		383533	3743719	1.93E-05	1.17YrCanc	1.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
24	ALL		383553	3743719	2.30E-05	1.17YrCanc	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25	ALL		383573	3743719	2.82E-05	1.17YrCanc	2.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
26	ALL		383593	3743719	3.61E-05	1.17YrCanc	3.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27	ALL		383613	3743719	5.08E-05	1.17YrCanc	5.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28	ALL		383453	3743739	1.13E-05	1.17YrCanc	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
29	ALL		383473	3743739	1.38E-05	1.17YrCanc	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30	ALL		383493	3743739	1.68E-05	1.17YrCanc	1.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31	ALL		383513	3743739	2.02E-05	1.17YrCanc	2.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
32	ALL		383533	3743739	2.37E-05	1.17YrCanc	2.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33	ALL		383553	3743739	2.76E-05	1.17YrCanc	2.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34	ALL		383573	3743739	3.29E-05	1.17YrCanc	3.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35	ALL		383593	3743739	4.08E-05	1.17YrCanc	4.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36	ALL		383613	3743739	5.52E-05	1.17YrCanc	5.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
37	ALL		383453	3743759	1.37E-05	1.17YrCanc	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38	ALL		383473	3743759	1.84E-05	1.17YrCanc	1.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39	ALL		383493	3743759	2.35E-05	1.17YrCanc	2.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
40	ALL		383513	3743759	2.78E-05	1.17YrCanc	2.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41	ALL		383533	3743759	3.14E-05	1.17YrCanc	3.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
42	ALL		383553	3743759	3.52E-05	1.17YrCanc	3.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43	ALL		383573	3743759	4.01E-05	1.17YrCanc	4.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
44	ALL		383593	3743759	4.72E-05	1.17YrCanc	4.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
45	ALL		383613	3743759	5.98E-05	1.17YrCanc	5.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46	ALL		383793	3743799	4.69E-05	1.17YrCanc	4.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
47	ALL		383813	3743799	3.97E-05	1.17YrCanc	3.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48	ALL		383833	3743799	2.97E-05	1.17YrCanc	2.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
49	ALL		383253	3743479	1.86E-06	1.17YrCanc	1.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
50	ALL		383273	3743479	1.96E-06	1.17YrCanc	1.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51	ALL		383293	3743479	2.07E-06	1.17YrCanc	2.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52	ALL		383313	3743479	2.19E-06	1.17YrCanc	2.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53	ALL		383333	3743479	2.32E-06	1.17YrCanc	2.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54	ALL		383353	3743479	2.46E-06	1.17YrCanc	2.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55	ALL		383373	3743479	2.60E-06	1.17YrCanc	2.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56	ALL		383393	3743479	2.76E-06	1.17YrCanc	2.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57	ALL		383413	3743479	2.93E-06	1.17YrCanc	2.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
58	ALL		383433	3743479	3.11E-06	1.17YrCanc	3.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59	ALL		383453	3743479	3.31E-06	1.17YrCanc	3.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60	ALL		383473	3743479	3.51E-06	1.17YrCanc	3.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
61	ALL		383493	3743479	3.73E-06	1.17YrCanc	3.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
62	ALL		383513	3743479	3.96E-06	1.17YrCanc	3.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63	ALL		383533	3743479	4.19E-06	1.17YrCanc	4.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64	ALL		383553	3743479	4.44E-06	1.17YrCanc	4.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
65	ALL		383573	3743479	4.69E-06	1.17YrCanc	4.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
66	ALL		383593	3743479	4.95E-06	1.17YrCanc	4.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67	ALL		383613	3743479	5.21E-06	1.17YrCanc	5.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
68	ALL		383693	3743479	6.29E-06	1.17YrCanc	6.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
69	ALL		383713	3743479	6.55E-06	1.17YrCanc	6.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70	ALL		383733	3743479	6.81E-06	1.17YrCanc	6.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71	ALL		383753	3743479	7.06E-06	1.17YrCanc	7.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
72	ALL		383773	3743479	7.31E-06	1.17YrCanc	7.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
73	ALL		383793	3743479	7.54E-06	1.17YrCanc	7.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		383813	3743479	7.75E-06	1.17YrCanc	7.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
75	ALL		383833	3743479	7.94E-06	1.17YrCanc	7.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
76	ALL		383853	3743479	8.09E-06	1.17YrCanc	8.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
77	ALL		383873	3743479	8.18E-06	1.17YrCanc	8.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
78	ALL		383893	3743479	8.24E-06	1.17YrCanc	8.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
79	ALL		383913	3743479	8.23E-06	1.17YrCanc	8.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
80	ALL		383933	3743479	8.16E-06	1.17YrCanc	8.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
81	ALL		383953	3743479	8.04E-06	1.17YrCanc	8.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
82	ALL		383973	3743479	7.86E-06	1.17YrCanc	7.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
83	ALL		383993	3743479	7.64E-06	1.17YrCanc	7.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
84	ALL		384013	3743479	7.38E-06	1.17YrCanc	7.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
85	ALL		384033	3743479	7.08E-06	1.17YrCanc	7.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
86	ALL		383253	3743499	1.94E-06	1.17YrCanc	1.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
87	ALL		383273	3743499	2.05E-06	1.17YrCanc	2.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
88	ALL		383293	3743499	2.17E-06	1.17YrCanc	2.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
89	ALL		383313	3743499	2.31E-06	1.17YrCanc	2.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
90	ALL		383333	3743499	2.45E-06	1.17YrCanc	2.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

91	ALL	383353	3743499	2.60E-06	1.17YrCanc	2.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
92	ALL	383373	3743499	2.77E-06	1.17YrCanc	2.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
93	ALL	383393	3743499	2.95E-06	1.17YrCanc	2.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
94	ALL	383413	3743499	3.14E-06	1.17YrCanc	3.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
95	ALL	383433	3743499	3.35E-06	1.17YrCanc	3.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
96	ALL	383453	3743499	3.58E-06	1.17YrCanc	3.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
97	ALL	383473	3743499	3.82E-06	1.17YrCanc	3.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
98	ALL	383493	3743499	4.07E-06	1.17YrCanc	4.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
99	ALL	383513	3743499	4.34E-06	1.17YrCanc	4.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL	383533	3743499	4.63E-06	1.17YrCanc	4.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
101	ALL	383553	3743499	4.93E-06	1.17YrCanc	4.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
102	ALL	383573	3743499	5.24E-06	1.17YrCanc	5.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
103	ALL	383593	3743499	5.57E-06	1.17YrCanc	5.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
104	ALL	383613	3743499	5.89E-06	1.17YrCanc	5.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
105	ALL	383693	3743499	7.23E-06	1.17YrCanc	7.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
106	ALL	383713	3743499	7.56E-06	1.17YrCanc	7.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
107	ALL	383733	3743499	7.88E-06	1.17YrCanc	7.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
108	ALL	383753	3743499	8.20E-06	1.17YrCanc	8.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
109	ALL	383773	3743499	8.50E-06	1.17YrCanc	8.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
110	ALL	383793	3743499	8.77E-06	1.17YrCanc	8.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
111	ALL	383813	3743499	9.01E-06	1.17YrCanc	9.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
112	ALL	383833	3743499	9.20E-06	1.17YrCanc	9.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
113	ALL	383853	3743499	9.33E-06	1.17YrCanc	9.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
114	ALL	383873	3743499	9.39E-06	1.17YrCanc	9.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
115	ALL	383893	3743499	9.39E-06	1.17YrCanc	9.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
116	ALL	383913	3743499	9.30E-06	1.17YrCanc	9.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
117	ALL	383933	3743499	9.14E-06	1.17YrCanc	9.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
118	ALL	383953	3743499	8.92E-06	1.17YrCanc	8.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
119	ALL	383973	3743499	8.63E-06	1.17YrCanc	8.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
120	ALL	383993	3743499	8.30E-06	1.17YrCanc	8.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
121	ALL	384013	3743499	7.94E-06	1.17YrCanc	7.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
122	ALL	384033	3743499	7.55E-06	1.17YrCanc	7.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
123	ALL	383253	3743519	2.02E-06	1.17YrCanc	2.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
124	ALL	383273	3743519	2.15E-06	1.17YrCanc	2.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
125	ALL	383293	3743519	2.28E-06	1.17YrCanc	2.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
126	ALL	383313	3743519	2.43E-06	1.17YrCanc	2.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
127	ALL	383333	3743519	2.58E-06	1.17YrCanc	2.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
128	ALL	383353	3743519	2.75E-06	1.17YrCanc	2.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
129	ALL	383373	3743519	2.94E-06	1.17YrCanc	2.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
130	ALL	383393	3743519	3.15E-06	1.17YrCanc	3.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
131	ALL	383413	3743519	3.37E-06	1.17YrCanc	3.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
132	ALL	383433	3743519	3.61E-06	1.17YrCanc	3.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
133	ALL	383453	3743519	3.87E-06	1.17YrCanc	3.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
134	ALL	383473	3743519	4.16E-06	1.17YrCanc	4.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
135	ALL	383493	3743519	4.46E-06	1.17YrCanc	4.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
136	ALL	383513	3743519	4.79E-06	1.17YrCanc	4.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
137	ALL	383533	3743519	5.14E-06	1.17YrCanc	5.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
138	ALL	383553	3743519	5.51E-06	1.17YrCanc	5.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
139	ALL	383573	3743519	5.89E-06	1.17YrCanc	5.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
140	ALL	383593	3743519	6.30E-06	1.17YrCanc	6.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
141	ALL	383613	3743519	6.72E-06	1.17YrCanc	6.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
142	ALL	383693	3743519	8.43E-06	1.17YrCanc	8.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
143	ALL	383713	3743519	8.85E-06	1.17YrCanc	8.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
144	ALL	383733	3743519	9.26E-06	1.17YrCanc	9.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
145	ALL	383753	3743519	9.65E-06	1.17YrCanc	9.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
146	ALL	383773	3743519	1.00E-05	1.17YrCanc	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
147	ALL	383793	3743519	1.03E-05	1.17YrCanc	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
148	ALL	383813	3743519	1.06E-05	1.17YrCanc	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
149	ALL	383833	3743519	1.08E-05	1.17YrCanc	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
150	ALL	383853	3743519	1.08E-05	1.17YrCanc	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
151	ALL	383873	3743519	1.08E-05	1.17YrCanc	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
152	ALL	383893	3743519	1.07E-05	1.17YrCanc	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
153	ALL	383913	3743519	1.05E-05	1.17YrCanc	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
154	ALL	383933	3743519	1.02E-05	1.17YrCanc	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
155	ALL	383953	3743519	9.86E-06	1.17YrCanc	9.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
156	ALL	383973	3743519	9.43E-06	1.17YrCanc	9.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
157	ALL	383993	3743519	8.97E-06	1.17YrCanc	8.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
158	ALL	384013	3743519	8.48E-06	1.17YrCanc	8.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
159	ALL	384033	3743519	7.97E-06	1.17YrCanc	7.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
160	ALL	383253	3743539	2.11E-06	1.17YrCanc	2.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
161	ALL	383273	3743539	2.24E-06	1.17YrCanc	2.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
162	ALL	383293	3743539	2.39E-06	1.17YrCanc	2.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
163	ALL	383313	3743539	2.55E-06	1.17YrCanc	2.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
164	ALL	383333	3743539	2.72E-06	1.17YrCanc	2.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
165	ALL	383353	3743539	2.92E-06	1.17YrCanc	2.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
166	ALL	383373	3743539	3.13E-06	1.17YrCanc	3.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
167	ALL	383393	3743539	3.36E-06	1.17YrCanc	3.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
168	ALL	383413	3743539	3.61E-06	1.17YrCanc	3.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
169	ALL	383433	3743539	3.89E-06	1.17YrCanc	3.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
170	ALL	383453	3743539	4.20E-06	1.17YrCanc	4.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
171	ALL	383473	3743539	4.54E-06	1.17YrCanc	4.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
172	ALL	383493	3743539	4.90E-06	1.17YrCanc	4.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
173	ALL	383513	3743539	5.29E-06	1.17YrCanc	5.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
174	ALL	383533	3743539	5.72E-06	1.17YrCanc	5.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
175	ALL	383553	3743539	6.18E-06	1.17YrCanc	6.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
176	ALL	383573	3743539	6.67E-06	1.17YrCanc	6.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
177	ALL	383593	3743539	7.19E-06	1.17YrCanc	7.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
178	ALL	383613	3743539	7.73E-06	1.17YrCanc	7.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
179	ALL	383693	3743539	9.98E-06	1.17YrCanc	9.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
180	ALL	383713	3743539	1.05E-05	1.17YrCanc	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
181	ALL	383733	3743539	1.11E-05	1.17YrCanc	1.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

182	ALL	383753	3743539	1.15E-05	1.17YrCanc	1.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
183	ALL	383773	3743539	1.20E-05	1.17YrCanc	1.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
184	ALL	383793	3743539	1.23E-05	1.17YrCanc	1.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
185	ALL	383813	3743539	1.26E-05	1.17YrCanc	1.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
186	ALL	383833	3743539	1.27E-05	1.17YrCanc	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
187	ALL	383853	3743539	1.27E-05	1.17YrCanc	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
188	ALL	383873	3743539	1.25E-05	1.17YrCanc	1.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
189	ALL	383893	3743539	1.22E-05	1.17YrCanc	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
190	ALL	383913	3743539	1.19E-05	1.17YrCanc	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
191	ALL	383933	3743539	1.14E-05	1.17YrCanc	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
192	ALL	383953	3743539	1.08E-05	1.17YrCanc	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
193	ALL	383973	3743539	1.02E-05	1.17YrCanc	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
194	ALL	383993	3743539	9.60E-06	1.17YrCanc	9.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
195	ALL	384013	3743539	8.97E-06	1.17YrCanc	8.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
196	ALL	384033	3743539	8.34E-06	1.17YrCanc	8.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
197	ALL	383253	3743559	2.20E-06	1.17YrCanc	2.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
198	ALL	383273	3743559	2.34E-06	1.17YrCanc	2.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
199	ALL	383293	3743559	2.50E-06	1.17YrCanc	2.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
200	ALL	383313	3743559	2.68E-06	1.17YrCanc	2.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
201	ALL	383333	3743559	2.87E-06	1.17YrCanc	2.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
202	ALL	383353	3743559	3.09E-06	1.17YrCanc	3.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
203	ALL	383373	3743559	3.33E-06	1.17YrCanc	3.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
204	ALL	383393	3743559	3.59E-06	1.17YrCanc	3.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
205	ALL	383413	3743559	3.88E-06	1.17YrCanc	3.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
206	ALL	383433	3743559	4.20E-06	1.17YrCanc	4.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
207	ALL	383453	3743559	4.56E-06	1.17YrCanc	4.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
208	ALL	383473	3743559	4.96E-06	1.17YrCanc	4.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
209	ALL	383493	3743559	5.39E-06	1.17YrCanc	5.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
210	ALL	383513	3743559	5.88E-06	1.17YrCanc	5.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
211	ALL	383533	3743559	6.41E-06	1.17YrCanc	6.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
212	ALL	383553	3743559	6.99E-06	1.17YrCanc	6.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
213	ALL	383573	3743559	7.62E-06	1.17YrCanc	7.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
214	ALL	383593	3743559	8.30E-06	1.17YrCanc	8.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
215	ALL	383613	3743559	9.01E-06	1.17YrCanc	9.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
216	ALL	383693	3743559	1.20E-05	1.17YrCanc	1.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
217	ALL	383713	3743559	1.28E-05	1.17YrCanc	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
218	ALL	383733	3743559	1.35E-05	1.17YrCanc	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
219	ALL	383753	3743559	1.41E-05	1.17YrCanc	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
220	ALL	383773	3743559	1.46E-05	1.17YrCanc	1.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
221	ALL	383793	3743559	1.49E-05	1.17YrCanc	1.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
222	ALL	383813	3743559	1.51E-05	1.17YrCanc	1.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
223	ALL	383833	3743559	1.51E-05	1.17YrCanc	1.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
224	ALL	383853	3743559	1.49E-05	1.17YrCanc	1.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
225	ALL	383873	3743559	1.45E-05	1.17YrCanc	1.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
226	ALL	383893	3743559	1.40E-05	1.17YrCanc	1.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
227	ALL	383913	3743559	1.33E-05	1.17YrCanc	1.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
228	ALL	383933	3743559	1.26E-05	1.17YrCanc	1.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
229	ALL	383953	3743559	1.18E-05	1.17YrCanc	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
230	ALL	383973	3743559	1.10E-05	1.17YrCanc	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
231	ALL	383993	3743559	1.02E-05	1.17YrCanc	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
232	ALL	384013	3743559	9.37E-06	1.17YrCanc	9.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
233	ALL	384033	3743559	8.62E-06	1.17YrCanc	8.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
234	ALL	383253	3743579	2.29E-06	1.17YrCanc	2.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
235	ALL	383273	3743579	2.45E-06	1.17YrCanc	2.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
236	ALL	383293	3743579	2.62E-06	1.17YrCanc	2.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
237	ALL	383313	3743579	2.82E-06	1.17YrCanc	2.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
238	ALL	383333	3743579	3.03E-06	1.17YrCanc	3.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
239	ALL	383353	3743579	3.27E-06	1.17YrCanc	3.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
240	ALL	383373	3743579	3.54E-06	1.17YrCanc	3.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
241	ALL	383393	3743579	3.84E-06	1.17YrCanc	3.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
242	ALL	383413	3743579	4.17E-06	1.17YrCanc	4.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
243	ALL	383433	3743579	4.54E-06	1.17YrCanc	4.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
244	ALL	383453	3743579	4.97E-06	1.17YrCanc	4.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
245	ALL	383473	3743579	5.44E-06	1.17YrCanc	5.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
246	ALL	383493	3743579	5.96E-06	1.17YrCanc	5.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
247	ALL	383513	3743579	6.56E-06	1.17YrCanc	6.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
248	ALL	383533	3743579	7.22E-06	1.17YrCanc	7.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
249	ALL	383553	3743579	7.96E-06	1.17YrCanc	7.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
250	ALL	383573	3743579	8.78E-06	1.17YrCanc	8.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
251	ALL	383593	3743579	9.68E-06	1.17YrCanc	9.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
252	ALL	383613	3743579	1.06E-05	1.17YrCanc	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
253	ALL	383693	3743579	1.48E-05	1.17YrCanc	1.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
254	ALL	383713	3743579	1.59E-05	1.17YrCanc	1.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
255	ALL	383733	3743579	1.68E-05	1.17YrCanc	1.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
256	ALL	383753	3743579	1.75E-05	1.17YrCanc	1.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
257	ALL	383773	3743579	1.80E-05	1.17YrCanc	1.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
258	ALL	383793	3743579	1.83E-05	1.17YrCanc	1.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
259	ALL	383813	3743579	1.83E-05	1.17YrCanc	1.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
260	ALL	383833	3743579	1.80E-05	1.17YrCanc	1.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
261	ALL	383853	3743579	1.75E-05	1.17YrCanc	1.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
262	ALL	383873	3743579	1.67E-05	1.17YrCanc	1.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
263	ALL	383893	3743579	1.58E-05	1.17YrCanc	1.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
264	ALL	383913	3743579	1.48E-05	1.17YrCanc	1.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
265	ALL	383933	3743579	1.38E-05	1.17YrCanc	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
266	ALL	383953	3743579	1.27E-05	1.17YrCanc	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
267	ALL	383973	3743579	1.16E-05	1.17YrCanc	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
268	ALL	383993	3743579	1.06E-05	1.17YrCanc	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
269	ALL	384013	3743579	9.67E-06	1.17YrCanc	9.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
270	ALL	384033	3743579	8.79E-06	1.17YrCanc	8.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
271	ALL	383253	3743599	2.38E-06	1.17YrCanc	2.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
272	ALL	383273	3743599	2.55E-06	1.17YrCanc	2.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

273	ALL	383293	3743599	2.74E-06	1.17YrCanc	2.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
274	ALL	383313	3743599	2.96E-06	1.17YrCanc	2.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
275	ALL	383333	3743599	3.20E-06	1.17YrCanc	3.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
276	ALL	383353	3743599	3.46E-06	1.17YrCanc	3.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
277	ALL	383373	3743599	3.77E-06	1.17YrCanc	3.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
278	ALL	383393	3743599	4.11E-06	1.17YrCanc	4.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
279	ALL	383413	3743599	4.48E-06	1.17YrCanc	4.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
280	ALL	383433	3743599	4.92E-06	1.17YrCanc	4.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
281	ALL	383453	3743599	5.41E-06	1.17YrCanc	5.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
282	ALL	383473	3743599	5.97E-06	1.17YrCanc	5.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
283	ALL	383493	3743599	6.61E-06	1.17YrCanc	6.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
284	ALL	383513	3743599	7.34E-06	1.17YrCanc	7.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
285	ALL	383533	3743599	8.17E-06	1.17YrCanc	8.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
286	ALL	383553	3743599	9.13E-06	1.17YrCanc	9.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
287	ALL	383573	3743599	1.02E-05	1.17YrCanc	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
288	ALL	383593	3743599	1.14E-05	1.17YrCanc	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
289	ALL	383613	3743599	1.28E-05	1.17YrCanc	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
290	ALL	383693	3743599	1.89E-05	1.17YrCanc	1.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
291	ALL	383713	3743599	2.03E-05	1.17YrCanc	2.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
292	ALL	383733	3743599	2.14E-05	1.17YrCanc	2.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
293	ALL	383753	3743599	2.23E-05	1.17YrCanc	2.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
294	ALL	383773	3743599	2.28E-05	1.17YrCanc	2.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
295	ALL	383793	3743599	2.28E-05	1.17YrCanc	2.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
296	ALL	383813	3743599	2.24E-05	1.17YrCanc	2.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
297	ALL	383833	3743599	2.16E-05	1.17YrCanc	2.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
298	ALL	383853	3743599	2.05E-05	1.17YrCanc	2.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
299	ALL	383873	3743599	1.92E-05	1.17YrCanc	1.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
300	ALL	383893	3743599	1.78E-05	1.17YrCanc	1.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
301	ALL	383913	3743599	1.63E-05	1.17YrCanc	1.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
302	ALL	383933	3743599	1.49E-05	1.17YrCanc	1.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
303	ALL	383953	3743599	1.35E-05	1.17YrCanc	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
304	ALL	383973	3743599	1.22E-05	1.17YrCanc	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
305	ALL	383993	3743599	1.10E-05	1.17YrCanc	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
306	ALL	384013	3743599	9.84E-06	1.17YrCanc	9.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
307	ALL	384033	3743599	8.83E-06	1.17YrCanc	8.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
308	ALL	383253	3743619	2.47E-06	1.17YrCanc	2.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
309	ALL	383273	3743619	2.66E-06	1.17YrCanc	2.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
310	ALL	383293	3743619	2.87E-06	1.17YrCanc	2.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
311	ALL	383313	3743619	3.11E-06	1.17YrCanc	3.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
312	ALL	383333	3743619	3.37E-06	1.17YrCanc	3.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
313	ALL	383353	3743619	3.67E-06	1.17YrCanc	3.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
314	ALL	383373	3743619	4.01E-06	1.17YrCanc	4.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
315	ALL	383393	3743619	4.40E-06	1.17YrCanc	4.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
316	ALL	383413	3743619	4.83E-06	1.17YrCanc	4.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
317	ALL	383433	3743619	5.33E-06	1.17YrCanc	5.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
318	ALL	383453	3743619	5.91E-06	1.17YrCanc	5.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
319	ALL	383473	3743619	6.57E-06	1.17YrCanc	6.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
320	ALL	383493	3743619	7.34E-06	1.17YrCanc	7.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
321	ALL	383513	3743619	8.24E-06	1.17YrCanc	8.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
322	ALL	383533	3743619	9.29E-06	1.17YrCanc	9.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
323	ALL	383553	3743619	1.05E-05	1.17YrCanc	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
324	ALL	383573	3743619	1.20E-05	1.17YrCanc	1.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
325	ALL	383593	3743619	1.37E-05	1.17YrCanc	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
326	ALL	383613	3743619	1.57E-05	1.17YrCanc	1.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
327	ALL	383693	3743619	2.50E-05	1.17YrCanc	2.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
328	ALL	383713	3743619	2.69E-05	1.17YrCanc	2.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
329	ALL	383733	3743619	2.84E-05	1.17YrCanc	2.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
330	ALL	383753	3743619	2.93E-05	1.17YrCanc	2.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
331	ALL	383773	3743619	2.94E-05	1.17YrCanc	2.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
332	ALL	383793	3743619	2.88E-05	1.17YrCanc	2.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
333	ALL	383813	3743619	2.76E-05	1.17YrCanc	2.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
334	ALL	383833	3743619	2.59E-05	1.17YrCanc	2.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
335	ALL	383853	3743619	2.39E-05	1.17YrCanc	2.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
336	ALL	383873	3743619	2.19E-05	1.17YrCanc	2.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
337	ALL	383893	3743619	1.98E-05	1.17YrCanc	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
338	ALL	383913	3743619	1.77E-05	1.17YrCanc	1.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
339	ALL	383933	3743619	1.59E-05	1.17YrCanc	1.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
340	ALL	383953	3743619	1.41E-05	1.17YrCanc	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
341	ALL	383973	3743619	1.25E-05	1.17YrCanc	1.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
342	ALL	383993	3743619	1.11E-05	1.17YrCanc	1.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
343	ALL	384013	3743619	9.82E-06	1.17YrCanc	9.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
344	ALL	384033	3743619	8.71E-06	1.17YrCanc	8.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
345	ALL	383253	3743639	2.56E-06	1.17YrCanc	2.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
346	ALL	383273	3743639	2.77E-06	1.17YrCanc	2.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
347	ALL	383293	3743639	3.00E-06	1.17YrCanc	3.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
348	ALL	383313	3743639	3.26E-06	1.17YrCanc	3.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
349	ALL	383333	3743639	3.55E-06	1.17YrCanc	3.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
350	ALL	383353	3743639	3.88E-06	1.17YrCanc	3.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
351	ALL	383373	3743639	4.26E-06	1.17YrCanc	4.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
352	ALL	383393	3743639	4.70E-06	1.17YrCanc	4.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
353	ALL	383413	3743639	5.20E-06	1.17YrCanc	5.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
354	ALL	383433	3743639	5.78E-06	1.17YrCanc	5.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
355	ALL	383453	3743639	6.46E-06	1.17YrCanc	6.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
356	ALL	383473	3743639	7.25E-06	1.17YrCanc	7.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
357	ALL	383493	3743639	8.17E-06	1.17YrCanc	8.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
358	ALL	383513	3743639	9.28E-06	1.17YrCanc	9.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
359	ALL	383533	3743639	1.06E-05	1.17YrCanc	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
360	ALL	383553	3743639	1.22E-05	1.17YrCanc	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
361	ALL	383573	3743639	1.42E-05	1.17YrCanc	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
362	ALL	383593	3743639	1.67E-05	1.17YrCanc	1.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
363	ALL	383613	3743639	1.97E-05	1.17YrCanc	1.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

364	ALL	383693	3743639	3.48E-05	1.17YrCanc	3.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
365	ALL	383713	3743639	3.75E-05	1.17YrCanc	3.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
366	ALL	383733	3743639	3.91E-05	1.17YrCanc	3.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
367	ALL	383753	3743639	3.97E-05	1.17YrCanc	3.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
368	ALL	383773	3743639	3.90E-05	1.17YrCanc	3.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
369	ALL	383793	3743639	3.70E-05	1.17YrCanc	3.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
370	ALL	383813	3743639	3.42E-05	1.17YrCanc	3.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
371	ALL	383833	3743639	3.09E-05	1.17YrCanc	3.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
372	ALL	383853	3743639	2.76E-05	1.17YrCanc	2.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
373	ALL	383873	3743639	2.45E-05	1.17YrCanc	2.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
374	ALL	383893	3743639	2.16E-05	1.17YrCanc	2.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
375	ALL	383913	3743639	1.89E-05	1.17YrCanc	1.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
376	ALL	383933	3743639	1.65E-05	1.17YrCanc	1.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
377	ALL	383953	3743639	1.44E-05	1.17YrCanc	1.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
378	ALL	383973	3743639	1.26E-05	1.17YrCanc	1.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
379	ALL	383993	3743639	1.10E-05	1.17YrCanc	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
380	ALL	384013	3743639	9.61E-06	1.17YrCanc	9.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
381	ALL	384033	3743639	8.45E-06	1.17YrCanc	8.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
382	ALL	383253	3743659	2.66E-06	1.17YrCanc	2.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
383	ALL	383273	3743659	2.87E-06	1.17YrCanc	2.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
384	ALL	383293	3743659	3.12E-06	1.17YrCanc	3.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
385	ALL	383313	3743659	3.41E-06	1.17YrCanc	3.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
386	ALL	383333	3743659	3.73E-06	1.17YrCanc	3.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
387	ALL	383353	3743659	4.10E-06	1.17YrCanc	4.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
388	ALL	383373	3743659	4.53E-06	1.17YrCanc	4.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
389	ALL	383393	3743659	5.04E-06	1.17YrCanc	5.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
390	ALL	383413	3743659	5.61E-06	1.17YrCanc	5.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
391	ALL	383433	3743659	6.29E-06	1.17YrCanc	6.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
392	ALL	383453	3743659	7.09E-06	1.17YrCanc	7.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
393	ALL	383473	3743659	8.03E-06	1.17YrCanc	8.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
394	ALL	383493	3743659	9.14E-06	1.17YrCanc	9.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
395	ALL	383513	3743659	1.05E-05	1.17YrCanc	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
396	ALL	383533	3743659	1.22E-05	1.17YrCanc	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
397	ALL	383553	3743659	1.43E-05	1.17YrCanc	1.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
398	ALL	383573	3743659	1.70E-05	1.17YrCanc	1.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
399	ALL	383593	3743659	2.07E-05	1.17YrCanc	2.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
400	ALL	383613	3743659	2.57E-05	1.17YrCanc	2.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
401	ALL	383893	3743659	2.31E-05	1.17YrCanc	2.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
402	ALL	383913	3743659	1.98E-05	1.17YrCanc	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
403	ALL	383933	3743659	1.69E-05	1.17YrCanc	1.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
404	ALL	383953	3743659	1.44E-05	1.17YrCanc	1.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
405	ALL	383973	3743659	1.23E-05	1.17YrCanc	1.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
406	ALL	383993	3743659	1.06E-05	1.17YrCanc	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
407	ALL	384013	3743659	9.21E-06	1.17YrCanc	9.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
408	ALL	384033	3743659	8.05E-06	1.17YrCanc	8.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
409	ALL	383253	3743679	2.75E-06	1.17YrCanc	2.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
410	ALL	383273	3743679	2.98E-06	1.17YrCanc	2.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
411	ALL	383293	3743679	3.25E-06	1.17YrCanc	3.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
412	ALL	383313	3743679	3.56E-06	1.17YrCanc	3.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
413	ALL	383333	3743679	3.91E-06	1.17YrCanc	3.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
414	ALL	383353	3743679	4.33E-06	1.17YrCanc	4.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
415	ALL	383373	3743679	4.82E-06	1.17YrCanc	4.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
416	ALL	383393	3743679	5.39E-06	1.17YrCanc	5.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
417	ALL	383413	3743679	6.06E-06	1.17YrCanc	6.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
418	ALL	383433	3743679	6.86E-06	1.17YrCanc	6.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
419	ALL	383893	3743679	2.41E-05	1.17YrCanc	2.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
420	ALL	383913	3743679	2.00E-05	1.17YrCanc	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
421	ALL	383933	3743679	1.66E-05	1.17YrCanc	1.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
422	ALL	383953	3743679	1.39E-05	1.17YrCanc	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
423	ALL	383973	3743679	1.18E-05	1.17YrCanc	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
424	ALL	383993	3743679	1.00E-05	1.17YrCanc	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
425	ALL	384013	3743679	8.66E-06	1.17YrCanc	8.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
426	ALL	384033	3743679	7.53E-06	1.17YrCanc	7.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
427	ALL	383253	3743699	2.83E-06	1.17YrCanc	2.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
428	ALL	383273	3743699	3.08E-06	1.17YrCanc	3.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
429	ALL	383293	3743699	3.37E-06	1.17YrCanc	3.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
430	ALL	383313	3743699	3.71E-06	1.17YrCanc	3.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
431	ALL	383333	3743699	4.09E-06	1.17YrCanc	4.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
432	ALL	383353	3743699	4.56E-06	1.17YrCanc	4.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
433	ALL	383373	3743699	5.11E-06	1.17YrCanc	5.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
434	ALL	383393	3743699	5.77E-06	1.17YrCanc	5.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
435	ALL	383413	3743699	6.56E-06	1.17YrCanc	6.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
436	ALL	383433	3743699	7.51E-06	1.17YrCanc	7.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
437	ALL	383893	3743699	2.43E-05	1.17YrCanc	2.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
438	ALL	383913	3743699	1.95E-05	1.17YrCanc	1.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
439	ALL	383933	3743699	1.59E-05	1.17YrCanc	1.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
440	ALL	383953	3743699	1.31E-05	1.17YrCanc	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
441	ALL	383973	3743699	1.10E-05	1.17YrCanc	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
442	ALL	383993	3743699	9.29E-06	1.17YrCanc	9.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
443	ALL	384013	3743699	7.99E-06	1.17YrCanc	7.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
444	ALL	384033	3743699	6.95E-06	1.17YrCanc	6.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
445	ALL	383253	3743719	2.91E-06	1.17YrCanc	2.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
446	ALL	383273	3743719	3.18E-06	1.17YrCanc	3.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
447	ALL	383293	3743719	3.48E-06	1.17YrCanc	3.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
448	ALL	383313	3743719	3.85E-06	1.17YrCanc	3.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
449	ALL	383333	3743719	4.27E-06	1.17YrCanc	4.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
450	ALL	383353	3743719	4.78E-06	1.17YrCanc	4.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
451	ALL	383373	3743719	5.40E-06	1.17YrCanc	5.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
452	ALL	383393	3743719	6.17E-06	1.17YrCanc	6.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
453	ALL	383413	3743719	7.12E-06	1.17YrCanc	7.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
454	ALL	383433	3743719	8.30E-06	1.17YrCanc	8.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

455	ALL	383893	3743719	2.32E-05	1.17YrCanc	2.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
456	ALL	383913	3743719	1.81E-05	1.17YrCanc	1.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
457	ALL	383933	3743719	1.45E-05	1.17YrCanc	1.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
458	ALL	383953	3743719	1.19E-05	1.17YrCanc	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
459	ALL	383973	3743719	9.95E-06	1.17YrCanc	9.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
460	ALL	383993	3743719	8.44E-06	1.17YrCanc	8.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
461	ALL	384013	3743719	7.27E-06	1.17YrCanc	7.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
462	ALL	384033	3743719	6.35E-06	1.17YrCanc	6.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
463	ALL	383253	3743739	2.98E-06	1.17YrCanc	2.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
464	ALL	383273	3743739	3.26E-06	1.17YrCanc	3.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
465	ALL	383293	3743739	3.58E-06	1.17YrCanc	3.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
466	ALL	383313	3743739	3.97E-06	1.17YrCanc	3.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
467	ALL	383333	3743739	4.43E-06	1.17YrCanc	4.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
468	ALL	383353	3743739	4.99E-06	1.17YrCanc	4.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
469	ALL	383373	3743739	5.68E-06	1.17YrCanc	5.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
470	ALL	383393	3743739	6.57E-06	1.17YrCanc	6.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
471	ALL	383413	3743739	7.72E-06	1.17YrCanc	7.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
472	ALL	383433	3743739	9.25E-06	1.17YrCanc	9.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
473	ALL	383893	3743739	2.07E-05	1.17YrCanc	2.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
474	ALL	383913	3743739	1.60E-05	1.17YrCanc	1.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
475	ALL	383933	3743739	1.28E-05	1.17YrCanc	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
476	ALL	383953	3743739	1.06E-05	1.17YrCanc	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
477	ALL	383973	3743739	8.90E-06	1.17YrCanc	8.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
478	ALL	383993	3743739	7.61E-06	1.17YrCanc	7.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
479	ALL	384013	3743739	6.60E-06	1.17YrCanc	6.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
480	ALL	384033	3743739	5.80E-06	1.17YrCanc	5.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
481	ALL	383253	3743759	3.04E-06	1.17YrCanc	3.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
482	ALL	383273	3743759	3.33E-06	1.17YrCanc	3.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
483	ALL	383293	3743759	3.66E-06	1.17YrCanc	3.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
484	ALL	383313	3743759	4.07E-06	1.17YrCanc	4.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
485	ALL	383333	3743759	4.55E-06	1.17YrCanc	4.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
486	ALL	383353	3743759	5.15E-06	1.17YrCanc	5.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
487	ALL	383373	3743759	5.92E-06	1.17YrCanc	5.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
488	ALL	383393	3743759	6.93E-06	1.17YrCanc	6.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
489	ALL	383413	3743759	8.34E-06	1.17YrCanc	8.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
490	ALL	383433	3743759	1.04E-05	1.17YrCanc	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
491	ALL	383893	3743759	1.76E-05	1.17YrCanc	1.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
492	ALL	383913	3743759	1.38E-05	1.17YrCanc	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
493	ALL	383933	3743759	1.12E-05	1.17YrCanc	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
494	ALL	383953	3743759	9.32E-06	1.17YrCanc	9.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
495	ALL	383973	3743759	7.93E-06	1.17YrCanc	7.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
496	ALL	383993	3743759	6.85E-06	1.17YrCanc	6.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
497	ALL	384013	3743759	5.99E-06	1.17YrCanc	5.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
498	ALL	384033	3743759	5.30E-06	1.17YrCanc	5.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
499	ALL	383253	3743779	3.08E-06	1.17YrCanc	3.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
500	ALL	383893	3743779	1.48E-05	1.17YrCanc	1.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
501	ALL	383913	3743779	1.18E-05	1.17YrCanc	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
502	ALL	383933	3743779	9.80E-06	1.17YrCanc	9.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
503	ALL	383953	3743779	8.28E-06	1.17YrCanc	8.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
504	ALL	383973	3743779	7.13E-06	1.17YrCanc	7.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
505	ALL	383993	3743779	6.21E-06	1.17YrCanc	6.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
506	ALL	384013	3743779	5.47E-06	1.17YrCanc	5.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
507	ALL	384033	3743779	4.87E-06	1.17YrCanc	4.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
508	ALL	383253	3743799	3.10E-06	1.17YrCanc	3.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
509	ALL	383853	3743799	2.14E-05	1.17YrCanc	2.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
510	ALL	383873	3743799	1.61E-05	1.17YrCanc	1.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
511	ALL	383893	3743799	1.28E-05	1.17YrCanc	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
512	ALL	383913	3743799	1.04E-05	1.17YrCanc	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
513	ALL	383933	3743799	8.75E-06	1.17YrCanc	8.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
514	ALL	383953	3743799	7.48E-06	1.17YrCanc	7.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
515	ALL	383973	3743799	6.49E-06	1.17YrCanc	6.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
516	ALL	383993	3743799	5.70E-06	1.17YrCanc	5.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
517	ALL	384013	3743799	5.06E-06	1.17YrCanc	5.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
518	ALL	384033	3743799	4.52E-06	1.17YrCanc	4.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
519	ALL	383253	3743819	3.09E-06	1.17YrCanc	3.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
520	ALL	383793	3743819	3.19E-05	1.17YrCanc	3.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
521	ALL	383813	3743819	2.77E-05	1.17YrCanc	2.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
522	ALL	383833	3743819	2.25E-05	1.17YrCanc	2.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
523	ALL	383853	3743819	1.76E-05	1.17YrCanc	1.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
524	ALL	383873	3743819	1.39E-05	1.17YrCanc	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
525	ALL	383893	3743819	1.13E-05	1.17YrCanc	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
526	ALL	383913	3743819	9.38E-06	1.17YrCanc	9.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
527	ALL	383933	3743819	7.96E-06	1.17YrCanc	7.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
528	ALL	383953	3743819	6.86E-06	1.17YrCanc	6.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
529	ALL	383973	3743819	5.99E-06	1.17YrCanc	5.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
530	ALL	383993	3743819	5.29E-06	1.17YrCanc	5.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
531	ALL	384013	3743819	4.72E-06	1.17YrCanc	4.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
532	ALL	384033	3743819	4.24E-06	1.17YrCanc	4.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
533	ALL	383253	3743839	3.06E-06	1.17YrCanc	3.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
534	ALL	383793	3743839	2.38E-05	1.17YrCanc	2.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
535	ALL	383813	3743839	2.10E-05	1.17YrCanc	2.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
536	ALL	383833	3743839	1.79E-05	1.17YrCanc	1.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
537	ALL	383853	3743839	1.48E-05	1.17YrCanc	1.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
538	ALL	383873	3743839	1.21E-05	1.17YrCanc	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
539	ALL	383893	3743839	1.01E-05	1.17YrCanc	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
540	ALL	383913	3743839	8.52E-06	1.17YrCanc	8.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
541	ALL	383933	3743839	7.30E-06	1.17YrCanc	7.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
542	ALL	383953	3743839	6.34E-06	1.17YrCanc	6.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
543	ALL	383973	3743839	5.57E-06	1.17YrCanc	5.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
544	ALL	383993	3743839	4.95E-06	1.17YrCanc	4.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
545	ALL	384013	3743839	4.43E-06	1.17YrCanc	4.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

546	ALL	383253	3743859	3.00E-06	1.17YrCanc	3.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
547	ALL	383793	3743859	1.86E-05	1.17YrCanc	1.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
548	ALL	383813	3743859	1.68E-05	1.17YrCanc	1.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
549	ALL	383833	3743859	1.47E-05	1.17YrCanc	1.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
550	ALL	383853	3743859	1.25E-05	1.17YrCanc	1.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
551	ALL	383873	3743859	1.06E-05	1.17YrCanc	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
552	ALL	383893	3743859	9.05E-06	1.17YrCanc	9.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
553	ALL	383913	3743859	7.76E-06	1.17YrCanc	7.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
554	ALL	383933	3743859	6.73E-06	1.17YrCanc	6.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
555	ALL	383953	3743859	5.89E-06	1.17YrCanc	5.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
556	ALL	383973	3743859	5.21E-06	1.17YrCanc	5.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
557	ALL	383993	3743859	4.65E-06	1.17YrCanc	4.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
558	ALL	383253	3743879	2.92E-06	1.17YrCanc	2.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
559	ALL	383793	3743879	1.51E-05	1.17YrCanc	1.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
560	ALL	383813	3743879	1.38E-05	1.17YrCanc	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
561	ALL	383833	3743879	1.23E-05	1.17YrCanc	1.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
562	ALL	383853	3743879	1.08E-05	1.17YrCanc	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
563	ALL	383873	3743879	9.38E-06	1.17YrCanc	9.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
564	ALL	383893	3743879	8.14E-06	1.17YrCanc	8.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
565	ALL	383913	3743879	7.08E-06	1.17YrCanc	7.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
566	ALL	383933	3743879	6.21E-06	1.17YrCanc	6.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
567	ALL	383953	3743879	5.49E-06	1.17YrCanc	5.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
568	ALL	383973	3743879	4.89E-06	1.17YrCanc	4.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
569	ALL	383253	3743899	2.83E-06	1.17YrCanc	2.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
570	ALL	383773	3743899	1.35E-05	1.17YrCanc	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
571	ALL	383793	3743899	1.27E-05	1.17YrCanc	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
572	ALL	383813	3743899	1.17E-05	1.17YrCanc	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
573	ALL	383833	3743899	1.06E-05	1.17YrCanc	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
574	ALL	383853	3743899	9.42E-06	1.17YrCanc	9.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
575	ALL	383873	3743899	8.34E-06	1.17YrCanc	8.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
576	ALL	383893	3743899	7.36E-06	1.17YrCanc	7.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
577	ALL	383913	3743899	6.49E-06	1.17YrCanc	6.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
578	ALL	383933	3743899	5.75E-06	1.17YrCanc	5.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
579	ALL	383953	3743899	5.12E-06	1.17YrCanc	5.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
580	ALL	383973	3743899	4.59E-06	1.17YrCanc	4.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
581	ALL	383253	3743919	2.72E-06	1.17YrCanc	2.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
582	ALL	383773	3743919	1.14E-05	1.17YrCanc	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
583	ALL	383793	3743919	1.08E-05	1.17YrCanc	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
584	ALL	383813	3743919	1.00E-05	1.17YrCanc	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
585	ALL	383833	3743919	9.17E-06	1.17YrCanc	9.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
586	ALL	383853	3743919	8.30E-06	1.17YrCanc	8.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
587	ALL	383873	3743919	7.45E-06	1.17YrCanc	7.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
588	ALL	383893	3743919	6.66E-06	1.17YrCanc	6.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
589	ALL	383913	3743919	5.95E-06	1.17YrCanc	5.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
590	ALL	383933	3743919	5.32E-06	1.17YrCanc	5.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
591	ALL	383953	3743919	4.78E-06	1.17YrCanc	4.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
592	ALL	383253	3743939	2.60E-06	1.17YrCanc	2.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
593	ALL	383273	3743939	2.78E-06	1.17YrCanc	2.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
594	ALL	383293	3743939	2.97E-06	1.17YrCanc	2.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
595	ALL	383313	3743939	3.18E-06	1.17YrCanc	3.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
596	ALL	383333	3743939	3.41E-06	1.17YrCanc	3.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
597	ALL	383353	3743939	3.67E-06	1.17YrCanc	3.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
598	ALL	383373	3743939	3.95E-06	1.17YrCanc	3.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
599	ALL	383393	3743939	4.26E-06	1.17YrCanc	4.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
600	ALL	383413	3743939	4.61E-06	1.17YrCanc	4.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
601	ALL	383433	3743939	5.00E-06	1.17YrCanc	5.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
602	ALL	383453	3743939	5.41E-06	1.17YrCanc	5.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
603	ALL	383773	3743939	9.75E-06	1.17YrCanc	9.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
604	ALL	383793	3743939	9.27E-06	1.17YrCanc	9.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
605	ALL	383813	3743939	8.69E-06	1.17YrCanc	8.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
606	ALL	383833	3743939	8.05E-06	1.17YrCanc	8.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
607	ALL	383853	3743939	7.37E-06	1.17YrCanc	7.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
608	ALL	383873	3743939	6.69E-06	1.17YrCanc	6.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
609	ALL	383893	3743939	6.05E-06	1.17YrCanc	6.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
610	ALL	383913	3743939	5.46E-06	1.17YrCanc	5.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
611	ALL	383933	3743939	4.93E-06	1.17YrCanc	4.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
612	ALL	383253	3743959	2.49E-06	1.17YrCanc	2.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
613	ALL	383273	3743959	2.64E-06	1.17YrCanc	2.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
614	ALL	383293	3743959	2.81E-06	1.17YrCanc	2.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
615	ALL	383313	3743959	2.99E-06	1.17YrCanc	2.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
616	ALL	383333	3743959	3.20E-06	1.17YrCanc	3.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
617	ALL	383353	3743959	3.42E-06	1.17YrCanc	3.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
618	ALL	383373	3743959	3.66E-06	1.17YrCanc	3.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
619	ALL	383393	3743959	3.93E-06	1.17YrCanc	3.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
620	ALL	383413	3743959	4.22E-06	1.17YrCanc	4.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
621	ALL	383433	3743959	4.54E-06	1.17YrCanc	4.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
622	ALL	383453	3743959	4.88E-06	1.17YrCanc	4.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
623	ALL	383773	3743959	8.44E-06	1.17YrCanc	8.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
624	ALL	383793	3743959	8.07E-06	1.17YrCanc	8.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
625	ALL	383813	3743959	7.63E-06	1.17YrCanc	7.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
626	ALL	383833	3743959	7.12E-06	1.17YrCanc	7.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
627	ALL	383853	3743959	6.58E-06	1.17YrCanc	6.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
628	ALL	383873	3743959	6.04E-06	1.17YrCanc	6.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
629	ALL	383893	3743959	5.51E-06	1.17YrCanc	5.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
630	ALL	383913	3743959	5.02E-06	1.17YrCanc	5.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
631	ALL	383253	3743979	2.37E-06	1.17YrCanc	2.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
632	ALL	383273	3743979	2.51E-06	1.17YrCanc	2.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
633	ALL	383293	3743979	2.66E-06	1.17YrCanc	2.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
634	ALL	383313	3743979	2.82E-06	1.17YrCanc	2.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
635	ALL	383333	3743979	2.99E-06	1.17YrCanc	2.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
636	ALL	383353	3743979	3.19E-06	1.17YrCanc	3.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

637	ALL	383373	3743979	3.39E-06	1.17YrCanc	3.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
638	ALL	383393	3743979	3.62E-06	1.17YrCanc	3.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
639	ALL	383413	3743979	3.87E-06	1.17YrCanc	3.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
640	ALL	383433	3743979	4.14E-06	1.17YrCanc	4.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
641	ALL	383453	3743979	4.42E-06	1.17YrCanc	4.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
642	ALL	383773	3743979	7.39E-06	1.17YrCanc	7.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
643	ALL	383793	3743979	7.10E-06	1.17YrCanc	7.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
644	ALL	383813	3743979	6.75E-06	1.17YrCanc	6.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
645	ALL	383833	3743979	6.35E-06	1.17YrCanc	6.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
646	ALL	383853	3743979	5.92E-06	1.17YrCanc	5.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
647	ALL	383873	3743979	5.47E-06	1.17YrCanc	5.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
648	ALL	383893	3743979	5.04E-06	1.17YrCanc	5.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
649	ALL	383253	3743999	2.25E-06	1.17YrCanc	2.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
650	ALL	383273	3743999	2.37E-06	1.17YrCanc	2.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
651	ALL	383293	3743999	2.51E-06	1.17YrCanc	2.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
652	ALL	383313	3743999	2.65E-06	1.17YrCanc	2.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
653	ALL	383333	3743999	2.81E-06	1.17YrCanc	2.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
654	ALL	383353	3743999	2.97E-06	1.17YrCanc	2.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
655	ALL	383373	3743999	3.15E-06	1.17YrCanc	3.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
656	ALL	383393	3743999	3.35E-06	1.17YrCanc	3.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
657	ALL	383413	3743999	3.56E-06	1.17YrCanc	3.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
658	ALL	383433	3743999	3.79E-06	1.17YrCanc	3.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
659	ALL	383453	3743999	4.03E-06	1.17YrCanc	4.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
660	ALL	383773	3743999	6.53E-06	1.17YrCanc	6.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
661	ALL	383793	3743999	6.30E-06	1.17YrCanc	6.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
662	ALL	383813	3743999	6.02E-06	1.17YrCanc	6.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
663	ALL	383833	3743999	5.70E-06	1.17YrCanc	5.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
664	ALL	383853	3743999	5.35E-06	1.17YrCanc	5.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
665	ALL	383873	3743999	4.98E-06	1.17YrCanc	4.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
666	ALL	382953	3743179	6.55E-07	1.17YrCanc	6.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
667	ALL	383003	3743179	7.01E-07	1.17YrCanc	7.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
668	ALL	383053	3743179	7.51E-07	1.17YrCanc	7.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
669	ALL	383103	3743179	8.05E-07	1.17YrCanc	8.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
670	ALL	383153	3743179	7.75E-07	1.17YrCanc	7.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
671	ALL	383203	3743179	8.81E-07	1.17YrCanc	8.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
672	ALL	383253	3743179	9.81E-07	1.17YrCanc	9.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
673	ALL	383303	3743179	1.06E-06	1.17YrCanc	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
674	ALL	383353	3743179	1.14E-06	1.17YrCanc	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
675	ALL	383403	3743179	1.21E-06	1.17YrCanc	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
676	ALL	383453	3743179	1.29E-06	1.17YrCanc	1.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
677	ALL	383503	3743179	1.37E-06	1.17YrCanc	1.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
678	ALL	383553	3743179	1.45E-06	1.17YrCanc	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
679	ALL	383603	3743179	1.52E-06	1.17YrCanc	1.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
680	ALL	383653	3743179	1.60E-06	1.17YrCanc	1.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
681	ALL	383703	3743179	1.68E-06	1.17YrCanc	1.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
682	ALL	383753	3743179	1.76E-06	1.17YrCanc	1.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
683	ALL	383803	3743179	1.83E-06	1.17YrCanc	1.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
684	ALL	383853	3743179	1.90E-06	1.17YrCanc	1.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
685	ALL	383903	3743179	1.97E-06	1.17YrCanc	1.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
686	ALL	383953	3743179	2.04E-06	1.17YrCanc	2.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
687	ALL	384003	3743179	2.12E-06	1.17YrCanc	2.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
688	ALL	384053	3743179	2.19E-06	1.17YrCanc	2.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
689	ALL	384103	3743179	2.26E-06	1.17YrCanc	2.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
690	ALL	384153	3743179	2.30E-06	1.17YrCanc	2.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
691	ALL	384203	3743179	2.32E-06	1.17YrCanc	2.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
692	ALL	384253	3743179	2.31E-06	1.17YrCanc	2.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
693	ALL	384303	3743179	2.27E-06	1.17YrCanc	2.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
694	ALL	384353	3743179	2.20E-06	1.17YrCanc	2.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
695	ALL	382953	3743229	6.97E-07	1.17YrCanc	6.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
696	ALL	383003	3743229	7.50E-07	1.17YrCanc	7.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
697	ALL	383053	3743229	8.08E-07	1.17YrCanc	8.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
698	ALL	383103	3743229	8.71E-07	1.17YrCanc	8.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
699	ALL	383153	3743229	9.40E-07	1.17YrCanc	9.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
700	ALL	383203	3743229	1.01E-06	1.17YrCanc	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
701	ALL	383253	3743229	1.10E-06	1.17YrCanc	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
702	ALL	383303	3743229	1.18E-06	1.17YrCanc	1.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
703	ALL	383353	3743229	1.27E-06	1.17YrCanc	1.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
704	ALL	383403	3743229	1.37E-06	1.17YrCanc	1.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
705	ALL	383453	3743229	1.47E-06	1.17YrCanc	1.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
706	ALL	383503	3743229	1.57E-06	1.17YrCanc	1.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
707	ALL	383553	3743229	1.67E-06	1.17YrCanc	1.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
708	ALL	383603	3743229	1.77E-06	1.17YrCanc	1.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
709	ALL	383653	3743229	1.87E-06	1.17YrCanc	1.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
710	ALL	383703	3743229	1.98E-06	1.17YrCanc	1.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
711	ALL	383753	3743229	2.07E-06	1.17YrCanc	2.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
712	ALL	383803	3743229	2.17E-06	1.17YrCanc	2.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
713	ALL	383853	3743229	2.26E-06	1.17YrCanc	2.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
714	ALL	383903	3743229	2.36E-06	1.17YrCanc	2.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
715	ALL	383953	3743229	2.45E-06	1.17YrCanc	2.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
716	ALL	384003	3743229	2.54E-06	1.17YrCanc	2.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
717	ALL	384053	3743229	2.63E-06	1.17YrCanc	2.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718	ALL	384103	3743229	2.68E-06	1.17YrCanc	2.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719	ALL	384153	3743229	2.71E-06	1.17YrCanc	2.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720	ALL	384203	3743229	2.69E-06	1.17YrCanc	2.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721	ALL	384253	3743229	2.64E-06	1.17YrCanc	2.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
722	ALL	384303	3743229	2.54E-06	1.17YrCanc	2.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
723	ALL	384353	3743229	2.42E-06	1.17YrCanc	2.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
724	ALL	382953	3743279	7.42E-07	1.17YrCanc	7.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
725	ALL	383003	3743279	8.02E-07	1.17YrCanc	8.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
726	ALL	383053	3743279	8.68E-07	1.17YrCanc	8.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
727	ALL	383103	3743279	9.42E-07	1.17YrCanc	9.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

728	ALL	383153	3743279	1.02E-06	1.17YrCanc	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
729	ALL	383203	3743279	1.11E-06	1.17YrCanc	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
730	ALL	383253	3743279	1.21E-06	1.17YrCanc	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
731	ALL	383303	3743279	1.32E-06	1.17YrCanc	1.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
732	ALL	383353	3743279	1.44E-06	1.17YrCanc	1.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
733	ALL	383403	3743279	1.56E-06	1.17YrCanc	1.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
734	ALL	383453	3743279	1.69E-06	1.17YrCanc	1.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
735	ALL	383503	3743279	1.82E-06	1.17YrCanc	1.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
736	ALL	383553	3743279	1.96E-06	1.17YrCanc	1.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
737	ALL	383603	3743279	2.09E-06	1.17YrCanc	2.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
738	ALL	383653	3743279	2.23E-06	1.17YrCanc	2.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
739	ALL	383703	3743279	2.36E-06	1.17YrCanc	2.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
740	ALL	383753	3743279	2.49E-06	1.17YrCanc	2.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
741	ALL	383803	3743279	2.62E-06	1.17YrCanc	2.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
742	ALL	383853	3743279	2.74E-06	1.17YrCanc	2.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
743	ALL	383903	3743279	2.87E-06	1.17YrCanc	2.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
744	ALL	383953	3743279	2.99E-06	1.17YrCanc	2.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
745	ALL	384003	3743279	3.10E-06	1.17YrCanc	3.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
746	ALL	384053	3743279	3.18E-06	1.17YrCanc	3.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
747	ALL	384103	3743279	3.21E-06	1.17YrCanc	3.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
748	ALL	384153	3743279	3.19E-06	1.17YrCanc	3.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
749	ALL	384203	3743279	3.10E-06	1.17YrCanc	3.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
750	ALL	384253	3743279	2.97E-06	1.17YrCanc	2.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
751	ALL	384303	3743279	2.80E-06	1.17YrCanc	2.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
752	ALL	384353	3743279	2.60E-06	1.17YrCanc	2.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
753	ALL	382953	3743329	7.88E-07	1.17YrCanc	7.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
754	ALL	383003	3743329	8.56E-07	1.17YrCanc	8.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
755	ALL	383053	3743329	9.33E-07	1.17YrCanc	9.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
756	ALL	383103	3743329	1.02E-06	1.17YrCanc	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
757	ALL	383153	3743329	1.12E-06	1.17YrCanc	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
758	ALL	383203	3743329	1.23E-06	1.17YrCanc	1.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
759	ALL	383253	3743329	1.35E-06	1.17YrCanc	1.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
760	ALL	383303	3743329	1.48E-06	1.17YrCanc	1.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
761	ALL	383353	3743329	1.63E-06	1.17YrCanc	1.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
762	ALL	383403	3743329	1.79E-06	1.17YrCanc	1.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
763	ALL	383453	3743329	1.96E-06	1.17YrCanc	1.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
764	ALL	383503	3743329	2.14E-06	1.17YrCanc	2.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
765	ALL	383553	3743329	2.32E-06	1.17YrCanc	2.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
766	ALL	383603	3743329	2.51E-06	1.17YrCanc	2.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
767	ALL	383653	3743329	2.70E-06	1.17YrCanc	2.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
768	ALL	383703	3743329	2.88E-06	1.17YrCanc	2.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
769	ALL	383753	3743329	3.06E-06	1.17YrCanc	3.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
770	ALL	383803	3743329	3.24E-06	1.17YrCanc	3.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
771	ALL	383853	3743329	3.41E-06	1.17YrCanc	3.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
772	ALL	383903	3743329	3.58E-06	1.17YrCanc	3.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
773	ALL	383953	3743329	3.73E-06	1.17YrCanc	3.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
774	ALL	384003	3743329	3.84E-06	1.17YrCanc	3.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
775	ALL	384053	3743329	3.89E-06	1.17YrCanc	3.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
776	ALL	384103	3743329	3.84E-06	1.17YrCanc	3.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
777	ALL	384153	3743329	3.72E-06	1.17YrCanc	3.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
778	ALL	384203	3743329	3.53E-06	1.17YrCanc	3.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
779	ALL	384253	3743329	3.29E-06	1.17YrCanc	3.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
780	ALL	384303	3743329	3.02E-06	1.17YrCanc	3.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
781	ALL	384353	3743329	2.74E-06	1.17YrCanc	2.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
782	ALL	382953	3743379	8.35E-07	1.17YrCanc	8.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
783	ALL	383003	3743379	9.13E-07	1.17YrCanc	9.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
784	ALL	383053	3743379	1.00E-06	1.17YrCanc	1.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
785	ALL	383103	3743379	1.10E-06	1.17YrCanc	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
786	ALL	383153	3743379	1.22E-06	1.17YrCanc	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
787	ALL	383203	3743379	1.35E-06	1.17YrCanc	1.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
788	ALL	383253	3743379	1.50E-06	1.17YrCanc	1.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
789	ALL	383303	3743379	1.67E-06	1.17YrCanc	1.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
790	ALL	383353	3743379	1.86E-06	1.17YrCanc	1.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
791	ALL	383403	3743379	2.07E-06	1.17YrCanc	2.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
792	ALL	383453	3743379	2.31E-06	1.17YrCanc	2.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
793	ALL	383503	3743379	2.56E-06	1.17YrCanc	2.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
794	ALL	383553	3743379	2.82E-06	1.17YrCanc	2.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
795	ALL	383603	3743379	3.08E-06	1.17YrCanc	3.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
796	ALL	383653	3743379	3.35E-06	1.17YrCanc	3.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
797	ALL	383703	3743379	3.62E-06	1.17YrCanc	3.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
798	ALL	383753	3743379	3.88E-06	1.17YrCanc	3.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
799	ALL	383803	3743379	4.13E-06	1.17YrCanc	4.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
800	ALL	383853	3743379	4.38E-06	1.17YrCanc	4.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
801	ALL	383903	3743379	4.60E-06	1.17YrCanc	4.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
802	ALL	383953	3743379	4.76E-06	1.17YrCanc	4.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
803	ALL	384003	3743379	4.82E-06	1.17YrCanc	4.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
804	ALL	384053	3743379	4.75E-06	1.17YrCanc	4.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
805	ALL	384103	3743379	4.56E-06	1.17YrCanc	4.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
806	ALL	384153	3743379	4.27E-06	1.17YrCanc	4.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
807	ALL	384203	3743379	3.92E-06	1.17YrCanc	3.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
808	ALL	384253	3743379	3.54E-06	1.17YrCanc	3.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
809	ALL	384303	3743379	3.16E-06	1.17YrCanc	3.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
810	ALL	384353	3743379	2.80E-06	1.17YrCanc	2.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
811	ALL	382953	3743429	8.84E-07	1.17YrCanc	8.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
812	ALL	383003	3743429	9.71E-07	1.17YrCanc	9.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
813	ALL	383053	3743429	1.07E-06	1.17YrCanc	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
814	ALL	383103	3743429	1.19E-06	1.17YrCanc	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
815	ALL	383153	3743429	1.33E-06	1.17YrCanc	1.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
816	ALL	383203	3743429	1.48E-06	1.17YrCanc	1.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
817	ALL	383253	3743429	1.67E-06	1.17YrCanc	1.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
818	ALL	383303	3743429	1.89E-06	1.17YrCanc	1.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

819	ALL	383353	3743429	2.14E-06	1.17YrCanc	2.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
820	ALL	383403	3743429	2.42E-06	1.17YrCanc	2.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
821	ALL	383453	3743429	2.75E-06	1.17YrCanc	2.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
822	ALL	383503	3743429	3.11E-06	1.17YrCanc	3.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
823	ALL	383553	3743429	3.49E-06	1.17YrCanc	3.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
824	ALL	383603	3743429	3.89E-06	1.17YrCanc	3.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
825	ALL	383703	3743429	4.70E-06	1.17YrCanc	4.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
826	ALL	383753	3743429	5.10E-06	1.17YrCanc	5.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
827	ALL	383803	3743429	5.48E-06	1.17YrCanc	5.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
828	ALL	383853	3743429	5.83E-06	1.17YrCanc	5.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
829	ALL	383903	3743429	6.08E-06	1.17YrCanc	6.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
830	ALL	383953	3743429	6.17E-06	1.17YrCanc	6.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
831	ALL	384003	3743429	6.05E-06	1.17YrCanc	6.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
832	ALL	384053	3743429	5.74E-06	1.17YrCanc	5.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
833	ALL	384103	3743429	5.29E-06	1.17YrCanc	5.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
834	ALL	384153	3743429	4.76E-06	1.17YrCanc	4.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
835	ALL	384203	3743429	4.21E-06	1.17YrCanc	4.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
836	ALL	384253	3743429	3.68E-06	1.17YrCanc	3.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
837	ALL	384303	3743429	3.20E-06	1.17YrCanc	3.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
838	ALL	384353	3743429	2.77E-06	1.17YrCanc	2.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
839	ALL	382953	3743479	9.32E-07	1.17YrCanc	9.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
840	ALL	383003	3743479	1.03E-06	1.17YrCanc	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
841	ALL	383053	3743479	1.15E-06	1.17YrCanc	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
842	ALL	383103	3743479	1.28E-06	1.17YrCanc	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
843	ALL	383153	3743479	1.44E-06	1.17YrCanc	1.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
844	ALL	383203	3743479	1.63E-06	1.17YrCanc	1.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
845	ALL	384053	3743479	6.76E-06	1.17YrCanc	6.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
846	ALL	384103	3743479	5.92E-06	1.17YrCanc	5.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
847	ALL	384153	3743479	5.10E-06	1.17YrCanc	5.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
848	ALL	384203	3743479	4.34E-06	1.17YrCanc	4.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
849	ALL	384253	3743479	3.68E-06	1.17YrCanc	3.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
850	ALL	384303	3743479	3.12E-06	1.17YrCanc	3.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
851	ALL	384353	3743479	2.66E-06	1.17YrCanc	2.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
852	ALL	382953	3743529	9.81E-07	1.17YrCanc	9.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
853	ALL	383003	3743529	1.09E-06	1.17YrCanc	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
854	ALL	383053	3743529	1.22E-06	1.17YrCanc	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
855	ALL	383103	3743529	1.37E-06	1.17YrCanc	1.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
856	ALL	383153	3743529	1.56E-06	1.17YrCanc	1.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
857	ALL	383203	3743529	1.79E-06	1.17YrCanc	1.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
858	ALL	384053	3743529	7.60E-06	1.17YrCanc	7.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
859	ALL	384103	3743529	6.30E-06	1.17YrCanc	6.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
860	ALL	384153	3743529	5.18E-06	1.17YrCanc	5.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
861	ALL	384203	3743529	4.26E-06	1.17YrCanc	4.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
862	ALL	384253	3743529	3.52E-06	1.17YrCanc	3.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
863	ALL	384303	3743529	2.93E-06	1.17YrCanc	2.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
864	ALL	384353	3743529	2.47E-06	1.17YrCanc	2.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
865	ALL	382953	3743579	1.03E-06	1.17YrCanc	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
866	ALL	383003	3743579	1.15E-06	1.17YrCanc	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
867	ALL	383053	3743579	1.29E-06	1.17YrCanc	1.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
868	ALL	383103	3743579	1.47E-06	1.17YrCanc	1.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
869	ALL	383153	3743579	1.68E-06	1.17YrCanc	1.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
870	ALL	383203	3743579	1.95E-06	1.17YrCanc	1.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
871	ALL	384053	3743579	7.97E-06	1.17YrCanc	7.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
872	ALL	384103	3743579	6.25E-06	1.17YrCanc	6.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
873	ALL	384153	3743579	4.94E-06	1.17YrCanc	4.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
874	ALL	384203	3743579	3.96E-06	1.17YrCanc	3.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
875	ALL	384253	3743579	3.22E-06	1.17YrCanc	3.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
876	ALL	384303	3743579	2.66E-06	1.17YrCanc	2.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
877	ALL	384353	3743579	2.23E-06	1.17YrCanc	2.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
878	ALL	382953	3743629	1.08E-06	1.17YrCanc	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
879	ALL	383003	3743629	1.21E-06	1.17YrCanc	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
880	ALL	383053	3743629	1.37E-06	1.17YrCanc	1.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
881	ALL	383103	3743629	1.56E-06	1.17YrCanc	1.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
882	ALL	383153	3743629	1.81E-06	1.17YrCanc	1.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
883	ALL	383203	3743629	2.12E-06	1.17YrCanc	2.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
884	ALL	384053	3743629	7.62E-06	1.17YrCanc	7.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
885	ALL	384103	3743629	5.74E-06	1.17YrCanc	5.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
886	ALL	384153	3743629	4.44E-06	1.17YrCanc	4.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
887	ALL	384203	3743629	3.52E-06	1.17YrCanc	3.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
888	ALL	384253	3743629	2.85E-06	1.17YrCanc	2.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
889	ALL	384303	3743629	2.37E-06	1.17YrCanc	2.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
890	ALL	384353	3743629	2.00E-06	1.17YrCanc	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
891	ALL	382953	3743679	1.12E-06	1.17YrCanc	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
892	ALL	383003	3743679	1.26E-06	1.17YrCanc	1.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
893	ALL	383053	3743679	1.44E-06	1.17YrCanc	1.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
894	ALL	383103	3743679	1.65E-06	1.17YrCanc	1.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
895	ALL	383153	3743679	1.92E-06	1.17YrCanc	1.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
896	ALL	383203	3743679	2.28E-06	1.17YrCanc	2.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
897	ALL	384053	3743679	6.60E-06	1.17YrCanc	6.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
898	ALL	384103	3743679	4.92E-06	1.17YrCanc	4.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
899	ALL	384153	3743679	3.81E-06	1.17YrCanc	3.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
900	ALL	384203	3743679	3.04E-06	1.17YrCanc	3.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
901	ALL	384253	3743679	2.50E-06	1.17YrCanc	2.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
902	ALL	384303	3743679	2.09E-06	1.17YrCanc	2.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL	384353	3743679	1.78E-06	1.17YrCanc	1.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
904	ALL	382953	3743729	1.16E-06	1.17YrCanc	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
905	ALL	383003	3743729	1.31E-06	1.17YrCanc	1.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
906	ALL	383053	3743729	1.50E-06	1.17YrCanc	1.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
907	ALL	383103	3743729	1.73E-06	1.17YrCanc	1.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
908	ALL	383153	3743729	2.03E-06	1.17YrCanc	2.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
909	ALL	383203	3743729	2.42E-06	1.17YrCanc	2.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

910	ALL	384053	3743729	5.36E-06	1.17YrCanc	5.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
911	ALL	384103	3743729	4.07E-06	1.17YrCanc	4.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
912	ALL	384153	3743729	3.22E-06	1.17YrCanc	3.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
913	ALL	384203	3743729	2.63E-06	1.17YrCanc	2.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
914	ALL	384253	3743729	2.19E-06	1.17YrCanc	2.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
915	ALL	384303	3743729	1.85E-06	1.17YrCanc	1.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
916	ALL	384353	3743729	1.58E-06	1.17YrCanc	1.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
917	ALL	382953	3743779	1.19E-06	1.17YrCanc	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
918	ALL	383003	3743779	1.35E-06	1.17YrCanc	1.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
919	ALL	383053	3743779	1.54E-06	1.17YrCanc	1.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
920	ALL	383103	3743779	1.79E-06	1.17YrCanc	1.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
921	ALL	383153	3743779	2.10E-06	1.17YrCanc	2.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
922	ALL	383203	3743779	2.51E-06	1.17YrCanc	2.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
923	ALL	384053	3743779	4.37E-06	1.17YrCanc	4.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
924	ALL	384103	3743779	3.43E-06	1.17YrCanc	3.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
925	ALL	384153	3743779	2.78E-06	1.17YrCanc	2.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
926	ALL	384203	3743779	2.30E-06	1.17YrCanc	2.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
927	ALL	384253	3743779	1.93E-06	1.17YrCanc	1.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
928	ALL	384303	3743779	1.64E-06	1.17YrCanc	1.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
929	ALL	384353	3743779	1.45E-06	1.17YrCanc	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
930	ALL	382953	3743829	1.21E-06	1.17YrCanc	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
931	ALL	383003	3743829	1.37E-06	1.17YrCanc	1.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
932	ALL	383053	3743829	1.56E-06	1.17YrCanc	1.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
933	ALL	383103	3743829	1.81E-06	1.17YrCanc	1.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
934	ALL	383153	3743829	2.12E-06	1.17YrCanc	2.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
935	ALL	383203	3743829	2.52E-06	1.17YrCanc	2.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
936	ALL	384153	3743829	2.46E-06	1.17YrCanc	2.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
937	ALL	384203	3743829	2.06E-06	1.17YrCanc	2.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
938	ALL	384253	3743829	1.74E-06	1.17YrCanc	1.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
939	ALL	384303	3743829	1.52E-06	1.17YrCanc	1.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
940	ALL	384353	3743829	1.34E-06	1.17YrCanc	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
941	ALL	382953	3743879	1.21E-06	1.17YrCanc	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
942	ALL	383003	3743879	1.36E-06	1.17YrCanc	1.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
943	ALL	383053	3743879	1.55E-06	1.17YrCanc	1.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
944	ALL	383103	3743879	1.78E-06	1.17YrCanc	1.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
945	ALL	383153	3743879	2.07E-06	1.17YrCanc	2.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
946	ALL	383203	3743879	2.44E-06	1.17YrCanc	2.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
947	ALL	384253	3743879	1.62E-06	1.17YrCanc	1.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
948	ALL	384303	3743879	1.41E-06	1.17YrCanc	1.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
949	ALL	384353	3743879	1.24E-06	1.17YrCanc	1.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
950	ALL	382953	3743929	1.19E-06	1.17YrCanc	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
951	ALL	383003	3743929	1.33E-06	1.17YrCanc	1.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
952	ALL	383053	3743929	1.50E-06	1.17YrCanc	1.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
953	ALL	383103	3743929	1.71E-06	1.17YrCanc	1.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
954	ALL	383153	3743929	1.96E-06	1.17YrCanc	1.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
955	ALL	383203	3743929	2.27E-06	1.17YrCanc	2.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
956	ALL	384253	3743929	1.51E-06	1.17YrCanc	1.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
957	ALL	384303	3743929	1.32E-06	1.17YrCanc	1.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
958	ALL	384353	3743929	1.17E-06	1.17YrCanc	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
959	ALL	382953	3743979	1.15E-06	1.17YrCanc	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
960	ALL	383003	3743979	1.28E-06	1.17YrCanc	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
961	ALL	383053	3743979	1.43E-06	1.17YrCanc	1.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
962	ALL	383103	3743979	1.61E-06	1.17YrCanc	1.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
963	ALL	383153	3743979	1.82E-06	1.17YrCanc	1.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
964	ALL	383203	3743979	2.07E-06	1.17YrCanc	2.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
965	ALL	384203	3743979	1.61E-06	1.17YrCanc	1.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
966	ALL	384253	3743979	1.41E-06	1.17YrCanc	1.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL	384303	3743979	1.24E-06	1.17YrCanc	1.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
968	ALL	384353	3743979	1.10E-06	1.17YrCanc	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
969	ALL	382953	3744029	1.10E-06	1.17YrCanc	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
970	ALL	383003	3744029	1.21E-06	1.17YrCanc	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
971	ALL	383053	3744029	1.34E-06	1.17YrCanc	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
972	ALL	383103	3744029	1.48E-06	1.17YrCanc	1.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
973	ALL	383153	3744029	1.65E-06	1.17YrCanc	1.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
974	ALL	383203	3744029	1.85E-06	1.17YrCanc	1.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
975	ALL	383253	3744029	2.08E-06	1.17YrCanc	2.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
976	ALL	383303	3744029	2.36E-06	1.17YrCanc	2.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
977	ALL	383353	3744029	2.69E-06	1.17YrCanc	2.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
978	ALL	383403	3744029	3.08E-06	1.17YrCanc	3.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
979	ALL	383453	3744029	3.54E-06	1.17YrCanc	3.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
980	ALL	384153	3744029	1.71E-06	1.17YrCanc	1.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
981	ALL	384203	3744029	1.49E-06	1.17YrCanc	1.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
982	ALL	384253	3744029	1.31E-06	1.17YrCanc	1.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
983	ALL	384303	3744029	1.16E-06	1.17YrCanc	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
984	ALL	384353	3744029	1.04E-06	1.17YrCanc	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
985	ALL	382953	3744079	1.03E-06	1.17YrCanc	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
986	ALL	383003	3744079	1.13E-06	1.17YrCanc	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
987	ALL	383053	3744079	1.24E-06	1.17YrCanc	1.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
988	ALL	383103	3744079	1.36E-06	1.17YrCanc	1.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
989	ALL	383153	3744079	1.49E-06	1.17YrCanc	1.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
990	ALL	383203	3744079	1.65E-06	1.17YrCanc	1.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
991	ALL	383253	3744079	1.83E-06	1.17YrCanc	1.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
992	ALL	383303	3744079	2.04E-06	1.17YrCanc	2.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
993	ALL	383353	3744079	2.29E-06	1.17YrCanc	2.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
994	ALL	383403	3744079	2.58E-06	1.17YrCanc	2.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
995	ALL	383453	3744079	2.90E-06	1.17YrCanc	2.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
996	ALL	384103	3744079	1.80E-06	1.17YrCanc	1.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
997	ALL	384153	3744079	1.57E-06	1.17YrCanc	1.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
998	ALL	384203	3744079	1.38E-06	1.17YrCanc	1.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
999	ALL	384253	3744079	1.23E-06	1.17YrCanc	1.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1000	ALL	384303	3744079	1.09E-06	1.17YrCanc	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1001	ALL	384353	3744079	9.83E-07	1.17YrCanc	9.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1002	ALL	382953	3744129	9.66E-07	1.17YrCanc	9.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1003	ALL	383003	3744129	1.05E-06	1.17YrCanc	1.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1004	ALL	383053	3744129	1.13E-06	1.17YrCanc	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1005	ALL	383103	3744129	1.23E-06	1.17YrCanc	1.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1006	ALL	383153	3744129	1.35E-06	1.17YrCanc	1.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1007	ALL	383203	3744129	1.47E-06	1.17YrCanc	1.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1008	ALL	383253	3744129	1.62E-06	1.17YrCanc	1.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1009	ALL	383303	3744129	1.78E-06	1.17YrCanc	1.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1010	ALL	383353	3744129	1.98E-06	1.17YrCanc	1.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1011	ALL	383403	3744129	2.19E-06	1.17YrCanc	2.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1012	ALL	383453	3744129	2.43E-06	1.17YrCanc	2.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1013	ALL	384103	3744129	1.63E-06	1.17YrCanc	1.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1014	ALL	384153	3744129	1.44E-06	1.17YrCanc	1.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1015	ALL	384203	3744129	1.28E-06	1.17YrCanc	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1016	ALL	384253	3744129	1.14E-06	1.17YrCanc	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1017	ALL	384303	3744129	1.03E-06	1.17YrCanc	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1018	ALL	384353	3744129	9.29E-07	1.17YrCanc	9.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1019	ALL	382953	3744179	8.97E-07	1.17YrCanc	8.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1020	ALL	383003	3744179	9.64E-07	1.17YrCanc	9.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1021	ALL	383053	3744179	1.04E-06	1.17YrCanc	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1022	ALL	383103	3744179	1.12E-06	1.17YrCanc	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1023	ALL	383153	3744179	1.21E-06	1.17YrCanc	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1024	ALL	383203	3744179	1.32E-06	1.17YrCanc	1.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1025	ALL	383253	3744179	1.44E-06	1.17YrCanc	1.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1026	ALL	383303	3744179	1.57E-06	1.17YrCanc	1.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1027	ALL	383353	3744179	1.72E-06	1.17YrCanc	1.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1028	ALL	383403	3744179	1.89E-06	1.17YrCanc	1.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1029	ALL	383453	3744179	2.07E-06	1.17YrCanc	2.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1030	ALL	384053	3744179	1.66E-06	1.17YrCanc	1.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1031	ALL	384103	3744179	1.48E-06	1.17YrCanc	1.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1032	ALL	384153	3744179	1.32E-06	1.17YrCanc	1.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1033	ALL	384203	3744179	1.18E-06	1.17YrCanc	1.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1034	ALL	384253	3744179	1.06E-06	1.17YrCanc	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1035	ALL	384303	3744179	9.64E-07	1.17YrCanc	9.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1036	ALL	384353	3744179	8.76E-07	1.17YrCanc	8.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1037	ALL	382953	3744229	8.31E-07	1.17YrCanc	8.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1038	ALL	383003	3744229	8.88E-07	1.17YrCanc	8.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1039	ALL	383053	3744229	9.51E-07	1.17YrCanc	9.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1040	ALL	383103	3744229	1.02E-06	1.17YrCanc	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1041	ALL	383153	3744229	1.10E-06	1.17YrCanc	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1042	ALL	383203	3744229	1.19E-06	1.17YrCanc	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1043	ALL	383253	3744229	1.28E-06	1.17YrCanc	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1044	ALL	383303	3744229	1.39E-06	1.17YrCanc	1.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1045	ALL	383353	3744229	1.51E-06	1.17YrCanc	1.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1046	ALL	383403	3744229	1.65E-06	1.17YrCanc	1.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1047	ALL	383453	3744229	1.78E-06	1.17YrCanc	1.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1048	ALL	383503	3744229	1.93E-06	1.17YrCanc	1.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1049	ALL	383553	3744229	2.06E-06	1.17YrCanc	2.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1050	ALL	383603	3744229	2.19E-06	1.17YrCanc	2.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1051	ALL	383653	3744229	2.28E-06	1.17YrCanc	2.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1052	ALL	383703	3744229	2.34E-06	1.17YrCanc	2.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1053	ALL	383753	3744229	2.35E-06	1.17YrCanc	2.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1054	ALL	383803	3744229	2.28E-06	1.17YrCanc	2.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1055	ALL	383853	3744229	2.17E-06	1.17YrCanc	2.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1056	ALL	383903	3744229	1.99E-06	1.17YrCanc	1.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1057	ALL	383953	3744229	1.82E-06	1.17YrCanc	1.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1058	ALL	384003	3744229	1.66E-06	1.17YrCanc	1.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1059	ALL	384053	3744229	1.49E-06	1.17YrCanc	1.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1060	ALL	384103	3744229	1.34E-06	1.17YrCanc	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1061	ALL	384153	3744229	1.21E-06	1.17YrCanc	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1062	ALL	384203	3744229	1.09E-06	1.17YrCanc	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1063	ALL	384253	3744229	9.91E-07	1.17YrCanc	9.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1064	ALL	384303	3744229	9.03E-07	1.17YrCanc	9.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1065	ALL	384353	3744229	8.25E-07	1.17YrCanc	8.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1066	ALL	382953	3744279	7.69E-07	1.17YrCanc	7.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1067	ALL	383003	3744279	8.19E-07	1.17YrCanc	8.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1068	ALL	383053	3744279	8.73E-07	1.17YrCanc	8.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1069	ALL	383103	3744279	9.33E-07	1.17YrCanc	9.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1070	ALL	383153	3744279	1.00E-06	1.17YrCanc	1.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1071	ALL	383203	3744279	1.07E-06	1.17YrCanc	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1072	ALL	383253	3744279	1.15E-06	1.17YrCanc	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1073	ALL	383303	3744279	1.25E-06	1.17YrCanc	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1074	ALL	383353	3744279	1.34E-06	1.17YrCanc	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1075	ALL	383403	3744279	1.45E-06	1.17YrCanc	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1076	ALL	383453	3744279	1.56E-06	1.17YrCanc	1.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1077	ALL	383503	3744279	1.66E-06	1.17YrCanc	1.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1078	ALL	383553	3744279	1.77E-06	1.17YrCanc	1.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1079	ALL	383603	3744279	1.86E-06	1.17YrCanc	1.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1080	ALL	383653	3744279	1.93E-06	1.17YrCanc	1.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1081	ALL	383703	3744279	1.98E-06	1.17YrCanc	1.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1082	ALL	383753	3744279	1.98E-06	1.17YrCanc	1.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1083	ALL	383803	3744279	1.95E-06	1.17YrCanc	1.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1084	ALL	383853	3744279	1.85E-06	1.17YrCanc	1.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1085	ALL	383903	3744279	1.73E-06	1.17YrCanc	1.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1086	ALL	383953	3744279	1.62E-06	1.17YrCanc	1.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1087	ALL	384003	3744279	1.48E-06	1.17YrCanc	1.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1088	ALL	384053	3744279	1.35E-06	1.17YrCanc	1.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1089	ALL	384103	3744279	1.22E-06	1.17YrCanc	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1090	ALL	384153	3744279	1.11E-06	1.17YrCanc	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1091	ALL	384203	3744279	1.01E-06	1.17YrCanc	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1092	ALL	384253	3744279	9.23E-07	1.17YrCanc	9.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1093	ALL	384303	3744279	8.46E-07	1.17YrCanc	8.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1094	ALL	384353	3744279	7.77E-07	1.17YrCanc	7.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1095	ALL	382453	3742679	2.16E-07	1.17YrCanc	2.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1096	ALL	382553	3742679	2.44E-07	1.17YrCanc	2.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1097	ALL	382653	3742679	2.67E-07	1.17YrCanc	2.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1098	ALL	382753	3742679	2.54E-07	1.17YrCanc	2.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1099	ALL	382853	3742679	2.74E-07	1.17YrCanc	2.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1100	ALL	382953	3742679	2.78E-07	1.17YrCanc	2.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1101	ALL	383053	3742679	3.18E-07	1.17YrCanc	3.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1102	ALL	383153	3742679	3.34E-07	1.17YrCanc	3.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1103	ALL	383253	3742679	4.40E-07	1.17YrCanc	4.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1104	ALL	383353	3742679	4.70E-07	1.17YrCanc	4.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1105	ALL	383453	3742679	4.90E-07	1.17YrCanc	4.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1106	ALL	383553	3742679	5.18E-07	1.17YrCanc	5.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1107	ALL	383653	3742679	5.51E-07	1.17YrCanc	5.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1108	ALL	383753	3742679	5.80E-07	1.17YrCanc	5.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1109	ALL	383853	3742679	6.06E-07	1.17YrCanc	6.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1110	ALL	383953	3742679	6.29E-07	1.17YrCanc	6.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1111	ALL	384053	3742679	6.49E-07	1.17YrCanc	6.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1112	ALL	384153	3742679	6.70E-07	1.17YrCanc	6.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1113	ALL	384253	3742679	7.03E-07	1.17YrCanc	7.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1114	ALL	384353	3742679	7.21E-07	1.17YrCanc	7.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1115	ALL	384453	3742679	7.51E-07	1.17YrCanc	7.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1116	ALL	384553	3742679	7.80E-07	1.17YrCanc	7.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1117	ALL	384653	3742679	8.01E-07	1.17YrCanc	8.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1118	ALL	384753	3742679	8.09E-07	1.17YrCanc	8.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1119	ALL	384853	3742679	8.04E-07	1.17YrCanc	8.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1120	ALL	382453	3742779	2.48E-07	1.17YrCanc	2.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1121	ALL	382553	3742779	2.80E-07	1.17YrCanc	2.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1122	ALL	382653	3742779	3.10E-07	1.17YrCanc	3.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1123	ALL	382753	3742779	3.12E-07	1.17YrCanc	3.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1124	ALL	382853	3742779	3.43E-07	1.17YrCanc	3.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1125	ALL	382953	3742779	3.23E-07	1.17YrCanc	3.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1126	ALL	383053	3742779	3.70E-07	1.17YrCanc	3.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1127	ALL	383153	3742779	4.53E-07	1.17YrCanc	4.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1128	ALL	383253	3742779	4.71E-07	1.17YrCanc	4.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1129	ALL	383353	3742779	4.83E-07	1.17YrCanc	4.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1130	ALL	383453	3742779	5.78E-07	1.17YrCanc	5.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1131	ALL	383553	3742779	6.11E-07	1.17YrCanc	6.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1132	ALL	383653	3742779	6.50E-07	1.17YrCanc	6.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1133	ALL	383753	3742779	6.88E-07	1.17YrCanc	6.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1134	ALL	383853	3742779	7.22E-07	1.17YrCanc	7.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1135	ALL	383953	3742779	7.51E-07	1.17YrCanc	7.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1136	ALL	384053	3742779	7.78E-07	1.17YrCanc	7.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1137	ALL	384153	3742779	8.07E-07	1.17YrCanc	8.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1138	ALL	384253	3742779	8.41E-07	1.17YrCanc	8.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1139	ALL	384353	3742779	8.80E-07	1.17YrCanc	8.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1140	ALL	384453	3742779	9.16E-07	1.17YrCanc	9.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1141	ALL	384553	3742779	9.43E-07	1.17YrCanc	9.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1142	ALL	384653	3742779	9.53E-07	1.17YrCanc	9.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1143	ALL	384753	3742779	9.43E-07	1.17YrCanc	9.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1144	ALL	384853	3742779	9.12E-07	1.17YrCanc	9.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1145	ALL	382453	3742879	2.81E-07	1.17YrCanc	2.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1146	ALL	382553	3742879	3.10E-07	1.17YrCanc	3.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1147	ALL	382653	3742879	3.43E-07	1.17YrCanc	3.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1148	ALL	382753	3742879	3.75E-07	1.17YrCanc	3.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1149	ALL	382853	3742879	4.04E-07	1.17YrCanc	4.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1150	ALL	382953	3742879	4.43E-07	1.17YrCanc	4.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1151	ALL	383053	3742879	4.77E-07	1.17YrCanc	4.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1152	ALL	383153	3742879	5.20E-07	1.17YrCanc	5.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1153	ALL	383253	3742879	5.65E-07	1.17YrCanc	5.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1154	ALL	383353	3742879	6.30E-07	1.17YrCanc	6.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1155	ALL	383453	3742879	6.85E-07	1.17YrCanc	6.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1156	ALL	383553	3742879	7.32E-07	1.17YrCanc	7.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1157	ALL	383653	3742879	7.82E-07	1.17YrCanc	7.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1158	ALL	383753	3742879	8.31E-07	1.17YrCanc	8.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1159	ALL	383853	3742879	8.77E-07	1.17YrCanc	8.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1160	ALL	383953	3742879	9.16E-07	1.17YrCanc	9.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1161	ALL	384053	3742879	9.54E-07	1.17YrCanc	9.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1162	ALL	384153	3742879	9.98E-07	1.17YrCanc	9.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1163	ALL	384253	3742879	1.05E-06	1.17YrCanc	1.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1164	ALL	384353	3742879	1.10E-06	1.17YrCanc	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1165	ALL	384453	3742879	1.13E-06	1.17YrCanc	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1166	ALL	384553	3742879	1.14E-06	1.17YrCanc	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1167	ALL	384653	3742879	1.12E-06	1.17YrCanc	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1168	ALL	384753	3742879	1.08E-06	1.17YrCanc	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1169	ALL	384853	3742879	1.01E-06	1.17YrCanc	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1170	ALL	382453	3742979	3.07E-07	1.17YrCanc	3.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1171	ALL	382553	3742979	3.39E-07	1.17YrCanc	3.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1172	ALL	382653	3742979	3.76E-07	1.17YrCanc	3.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1173	ALL	382753	3742979	4.15E-07	1.17YrCanc	4.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1174	ALL	382853	3742979	4.58E-07	1.17YrCanc	4.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1175	ALL	382953	3742979	5.12E-07	1.17YrCanc	5.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1176	ALL	383053	3742979	5.62E-07	1.17YrCanc	5.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1177	ALL	383153	3742979	6.23E-07	1.17YrCanc	6.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1178	ALL	383253	3742979	6.85E-07	1.17YrCanc	6.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1179	ALL	383353	3742979	7.60E-07	1.17YrCanc	7.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1180	ALL	383453	3742979	8.26E-07	1.17YrCanc	8.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1181	ALL	383553	3742979	8.93E-07	1.17YrCanc	8.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1182	ALL	383653	3742979	9.62E-07	1.17YrCanc	9.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1183	ALL	383753	3742979	1.03E-06	1.17YrCanc	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1184	ALL	383853	3742979	1.09E-06	1.17YrCanc	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1185	ALL	383953	3742979	1.15E-06	1.17YrCanc	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1186	ALL	384053	3742979	1.21E-06	1.17YrCanc	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1187	ALL	384153	3742979	1.27E-06	1.17YrCanc	1.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1188	ALL	384253	3742979	1.34E-06	1.17YrCanc	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1189	ALL	384353	3742979	1.39E-06	1.17YrCanc	1.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1190	ALL	384453	3742979	1.40E-06	1.17YrCanc	1.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1191	ALL	384553	3742979	1.37E-06	1.17YrCanc	1.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1192	ALL	384653	3742979	1.29E-06	1.17YrCanc	1.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1193	ALL	384753	3742979	1.19E-06	1.17YrCanc	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1194	ALL	384853	3742979	1.08E-06	1.17YrCanc	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1195	ALL	382453	3743079	3.33E-07	1.17YrCanc	3.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1196	ALL	382553	3743079	3.70E-07	1.17YrCanc	3.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1197	ALL	382653	3743079	4.11E-07	1.17YrCanc	4.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1198	ALL	382753	3743079	4.60E-07	1.17YrCanc	4.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1199	ALL	382853	3743079	5.12E-07	1.17YrCanc	5.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1200	ALL	382953	3743079	5.79E-07	1.17YrCanc	5.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1201	ALL	383053	3743079	6.52E-07	1.17YrCanc	6.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1202	ALL	383153	3743079	7.34E-07	1.17YrCanc	7.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1203	ALL	383253	3743079	8.25E-07	1.17YrCanc	8.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1204	ALL	383353	3743079	9.21E-07	1.17YrCanc	9.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1205	ALL	383453	3743079	1.02E-06	1.17YrCanc	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1206	ALL	383553	3743079	1.12E-06	1.17YrCanc	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1207	ALL	383653	3743079	1.22E-06	1.17YrCanc	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1208	ALL	383753	3743079	1.32E-06	1.17YrCanc	1.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1209	ALL	383853	3743079	1.41E-06	1.17YrCanc	1.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1210	ALL	383953	3743079	1.49E-06	1.17YrCanc	1.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1211	ALL	384053	3743079	1.59E-06	1.17YrCanc	1.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1212	ALL	384153	3743079	1.68E-06	1.17YrCanc	1.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1213	ALL	384253	3743079	1.76E-06	1.17YrCanc	1.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1214	ALL	384353	3743079	1.77E-06	1.17YrCanc	1.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1215	ALL	384453	3743079	1.71E-06	1.17YrCanc	1.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1216	ALL	384553	3743079	1.59E-06	1.17YrCanc	1.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1217	ALL	384653	3743079	1.43E-06	1.17YrCanc	1.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1218	ALL	384753	3743079	1.26E-06	1.17YrCanc	1.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1219	ALL	384853	3743079	1.10E-06	1.17YrCanc	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1220	ALL	382453	3743179	3.58E-07	1.17YrCanc	3.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1221	ALL	382553	3743179	3.99E-07	1.17YrCanc	3.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1222	ALL	382653	3743179	4.49E-07	1.17YrCanc	4.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1223	ALL	382753	3743179	5.06E-07	1.17YrCanc	5.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1224	ALL	382853	3743179	5.74E-07	1.17YrCanc	5.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1225	ALL	384453	3743179	2.00E-06	1.17YrCanc	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1226	ALL	384553	3743179	1.75E-06	1.17YrCanc	1.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1227	ALL	384653	3743179	1.50E-06	1.17YrCanc	1.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1228	ALL	384753	3743179	1.27E-06	1.17YrCanc	1.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1229	ALL	384853	3743179	1.06E-06	1.17YrCanc	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1230	ALL	382453	3743279	3.82E-07	1.17YrCanc	3.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1231	ALL	382553	3743279	4.30E-07	1.17YrCanc	4.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1232	ALL	382653	3743279	4.87E-07	1.17YrCanc	4.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1233	ALL	382753	3743279	5.55E-07	1.17YrCanc	5.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1234	ALL	382853	3743279	6.39E-07	1.17YrCanc	6.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1235	ALL	384453	3743279	2.19E-06	1.17YrCanc	2.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1236	ALL	384553	3743279	1.80E-06	1.17YrCanc	1.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1237	ALL	384653	3743279	1.47E-06	1.17YrCanc	1.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1238	ALL	384753	3743279	1.20E-06	1.17YrCanc	1.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1239	ALL	384853	3743279	9.82E-07	1.17YrCanc	9.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1240	ALL	382453	3743379	4.05E-07	1.17YrCanc	4.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1241	ALL	382553	3743379	4.59E-07	1.17YrCanc	4.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1242	ALL	382653	3743379	5.24E-07	1.17YrCanc	5.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1243	ALL	382753	3743379	6.05E-07	1.17YrCanc	6.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1244	ALL	382853	3743379	7.06E-07	1.17YrCanc	7.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1245	ALL	384453	3743379	2.18E-06	1.17YrCanc	2.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1246	ALL	384553	3743379	1.70E-06	1.17YrCanc	1.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1247	ALL	384653	3743379	1.34E-06	1.17YrCanc	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1248	ALL	384753	3743379	1.07E-06	1.17YrCanc	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1249	ALL	384853	3743379	8.75E-07	1.17YrCanc	8.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1250	ALL	382453	3743479	4.27E-07	1.17YrCanc	4.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1251	ALL	382553	3743479	4.87E-07	1.17YrCanc	4.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1252	ALL	382653	3743479	5.61E-07	1.17YrCanc	5.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1253	ALL	382753	3743479	6.54E-07	1.17YrCanc	6.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1254	ALL	382853	3743479	7.74E-07	1.17YrCanc	7.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1255	ALL	384453	3743479	1.96E-06	1.17YrCanc	1.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1256	ALL	384553	3743479	1.49E-06	1.17YrCanc	1.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1257	ALL	384653	3743479	1.16E-06	1.17YrCanc	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1258	ALL	384753	3743479	9.33E-07	1.17YrCanc	9.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1259	ALL	384853	3743479	7.61E-07	1.17YrCanc	7.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1260	ALL	382453	3743579	4.49E-07	1.17YrCanc	4.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1261	ALL	382553	3743579	5.14E-07	1.17YrCanc	5.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1262	ALL	382653	3743579	5.97E-07	1.17YrCanc	5.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1263	ALL	382753	3743579	7.02E-07	1.17YrCanc	7.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1264	ALL	382853	3743579	8.41E-07	1.17YrCanc	8.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1265	ALL	384453	3743579	1.64E-06	1.17YrCanc	1.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1266	ALL	384553	3743579	1.25E-06	1.17YrCanc	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1267	ALL	384653	3743579	9.87E-07	1.17YrCanc	9.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1268	ALL	384753	3743579	8.08E-07	1.17YrCanc	8.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1269	ALL	384853	3743579	6.74E-07	1.17YrCanc	6.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1270	ALL	382453	3743679	4.70E-07	1.17YrCanc	4.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1271	ALL	382553	3743679	5.41E-07	1.17YrCanc	5.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1272	ALL	382653	3743679	6.31E-07	1.17YrCanc	6.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1273	ALL	382753	3743679	7.49E-07	1.17YrCanc	7.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1274	ALL	382853	3743679	9.05E-07	1.17YrCanc	9.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1275	ALL	384453	3743679	1.33E-06	1.17YrCanc	1.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1276	ALL	384553	3743679	1.06E-06	1.17YrCanc	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1277	ALL	384653	3743679	8.56E-07	1.17YrCanc	8.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1278	ALL	384753	3743679	7.10E-07	1.17YrCanc	7.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1279	ALL	384853	3743679	6.01E-07	1.17YrCanc	6.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1280	ALL	382453	3743779	4.89E-07	1.17YrCanc	4.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1281	ALL	382553	3743779	5.64E-07	1.17YrCanc	5.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1282	ALL	382653	3743779	6.60E-07	1.17YrCanc	6.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1283	ALL	382753	3743779	7.86E-07	1.17YrCanc	7.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1284	ALL	382853	3743779	9.56E-07	1.17YrCanc	9.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1285	ALL	384453	3743779	1.13E-06	1.17YrCanc	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1286	ALL	384553	3743779	9.12E-07	1.17YrCanc	9.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1287	ALL	384653	3743779	7.53E-07	1.17YrCanc	7.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1288	ALL	384753	3743779	6.34E-07	1.17YrCanc	6.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1289	ALL	384853	3743779	5.43E-07	1.17YrCanc	5.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1290	ALL	382453	3743879	5.01E-07	1.17YrCanc	5.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1291	ALL	382553	3743879	5.78E-07	1.17YrCanc	5.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1292	ALL	382653	3743879	6.76E-07	1.17YrCanc	6.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1293	ALL	382753	3743879	8.04E-07	1.17YrCanc	8.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1294	ALL	382853	3743879	9.74E-07	1.17YrCanc	9.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1295	ALL	384453	3743879	9.90E-07	1.17YrCanc	9.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1296	ALL	384553	3743879	8.09E-07	1.17YrCanc	8.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1297	ALL	384653	3743879	6.76E-07	1.17YrCanc	6.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1298	ALL	384753	3743879	5.75E-07	1.17YrCanc	5.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1299	ALL	384853	3743879	4.96E-07	1.17YrCanc	4.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1300	ALL	382453	3743979	5.02E-07	1.17YrCanc	5.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1301	ALL	382553	3743979	5.77E-07	1.17YrCanc	5.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1302	ALL	382653	3743979	6.71E-07	1.17YrCanc	6.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1303	ALL	382753	3743979	7.91E-07	1.17YrCanc	7.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1304	ALL	382853	3743979	9.46E-07	1.17YrCanc	9.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1305	ALL	384453	3743979	8.88E-07	1.17YrCanc	8.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1306	ALL	384553	3743979	7.34E-07	1.17YrCanc	7.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1307	ALL	384653	3743979	6.19E-07	1.17YrCanc	6.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1308	ALL	384753	3743979	5.30E-07	1.17YrCanc	5.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1309	ALL	384853	3743979	4.60E-07	1.17YrCanc	4.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1310	ALL	382453	3744079	4.92E-07	1.17YrCanc	4.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1311	ALL	382553	3744079	5.61E-07	1.17YrCanc	5.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1312	ALL	382653	3744079	6.45E-07	1.17YrCanc	6.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1313	ALL	382753	3744079	7.47E-07	1.17YrCanc	7.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1314	ALL	382853	3744079	8.75E-07	1.17YrCanc	8.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1315	ALL	384453	3744079	8.07E-07	1.17YrCanc	8.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1316	ALL	384553	3744079	6.75E-07	1.17YrCanc	6.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1317	ALL	384653	3744079	5.74E-07	1.17YrCanc	5.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1318	ALL	384753	3744079	4.94E-07	1.17YrCanc	4.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1319	ALL	384853	3744079	4.31E-07	1.17YrCanc	4.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1320	ALL	382453	3744179	4.71E-07	1.17YrCanc	4.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1321	ALL	382553	3744179	5.31E-07	1.17YrCanc	5.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1322	ALL	382653	3744179	6.00E-07	1.17YrCanc	6.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1323	ALL	382753	3744179	6.83E-07	1.17YrCanc	6.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1324	ALL	382853	3744179	7.80E-07	1.17YrCanc	7.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1325	ALL	384453	3744179	7.32E-07	1.17YrCanc	7.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1326	ALL	384553	3744179	6.21E-07	1.17YrCanc	6.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1327	ALL	384653	3744179	5.33E-07	1.17YrCanc	5.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1328	ALL	384753	3744179	4.63E-07	1.17YrCanc	4.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1329	ALL	384853	3744179	4.06E-07	1.17YrCanc	4.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1330	ALL	382453	3744279	4.42E-07	1.17YrCanc	4.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1331	ALL	382553	3744279	4.90E-07	1.17YrCanc	4.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1332	ALL	382653	3744279	5.46E-07	1.17YrCanc	5.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1333	ALL	382753	3744279	6.09E-07	1.17YrCanc	6.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1334	ALL	382853	3744279	6.83E-07	1.17YrCanc	6.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1335	ALL	384453	3744279	6.62E-07	1.17YrCanc	6.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1336	ALL	384553	3744279	5.70E-07	1.17YrCanc	5.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1337	ALL	384653	3744279	4.95E-07	1.17YrCanc	4.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1338	ALL	384753	3744279	4.34E-07	1.17YrCanc	4.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1339	ALL	384853	3744279	3.83E-07	1.17YrCanc	3.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1340	ALL	382453	3744379	4.07E-07	1.17YrCanc	4.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1341	ALL	382553	3744379	4.46E-07	1.17YrCanc	4.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1342	ALL	382653	3744379	4.90E-07	1.17YrCanc	4.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1343	ALL	382753	3744379	5.39E-07	1.17YrCanc	5.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1344	ALL	382853	3744379	5.96E-07	1.17YrCanc	5.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1345	ALL	382953	3744379	6.63E-07	1.17YrCanc	6.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1346	ALL	383053	3744379	7.43E-07	1.17YrCanc	7.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1347	ALL	383153	3744379	8.39E-07	1.17YrCanc	8.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1348	ALL	383253	3744379	9.51E-07	1.17YrCanc	9.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1349	ALL	383353	3744379	1.08E-06	1.17YrCanc	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1350	ALL	383453	3744379	1.21E-06	1.17YrCanc	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1351	ALL	383553	3744379	1.34E-06	1.17YrCanc	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1352	ALL	383653	3744379	1.45E-06	1.17YrCanc	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1353	ALL	383753	3744379	1.48E-06	1.17YrCanc	1.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1354	ALL	383853	3744379	1.42E-06	1.17YrCanc	1.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1355	ALL	383953	3744379	1.28E-06	1.17YrCanc	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1356	ALL	384053	3744379	1.11E-06	1.17YrCanc	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1357	ALL	384153	3744379	9.41E-07	1.17YrCanc	9.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1358	ALL	384253	3744379	8.02E-07	1.17YrCanc	8.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1359	ALL	384353	3744379	6.89E-07	1.17YrCanc	6.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1360	ALL	384453	3744379	5.96E-07	1.17YrCanc	5.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1361	ALL	384553	3744379	5.21E-07	1.17YrCanc	5.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1362	ALL	384653	3744379	4.58E-07	1.17YrCanc	4.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1363	ALL	384753	3744379	4.05E-07	1.17YrCanc	4.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1364	ALL	384853	3744379	3.61E-07	1.17YrCanc	3.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1365	ALL	382453	3744479	3.72E-07	1.17YrCanc	3.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1366	ALL	382553	3744479	4.03E-07	1.17YrCanc	4.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1367	ALL	382653	3744479	4.38E-07	1.17YrCanc	4.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1368	ALL	382753	3744479	4.78E-07	1.17YrCanc	4.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1369	ALL	382853	3744479	5.24E-07	1.17YrCanc	5.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1370	ALL	382953	3744479	5.78E-07	1.17YrCanc	5.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1371	ALL	383053	3744479	6.41E-07	1.17YrCanc	6.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1372	ALL	383153	3744479	7.14E-07	1.17YrCanc	7.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1373	ALL	383253	3744479	7.96E-07	1.17YrCanc	7.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1374	ALL	383353	3744479	8.84E-07	1.17YrCanc	8.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1375	ALL	383453	3744479	9.74E-07	1.17YrCanc	9.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1376	ALL	383553	3744479	1.06E-06	1.17YrCanc	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1377	ALL	383653	3744479	1.12E-06	1.17YrCanc	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1378	ALL	383753	3744479	1.15E-06	1.17YrCanc	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1379	ALL	383853	3744479	1.12E-06	1.17YrCanc	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1380	ALL	383953	3744479	1.04E-06	1.17YrCanc	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1381	ALL	384053	3744479	9.22E-07	1.17YrCanc	9.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1382	ALL	384153	3744479	8.05E-07	1.17YrCanc	8.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1383	ALL	384253	3744479	7.00E-07	1.17YrCanc	7.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1384	ALL	384353	3744479	6.11E-07	1.17YrCanc	6.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1385	ALL	384453	3744479	5.37E-07	1.17YrCanc	5.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1386	ALL	384553	3744479	4.75E-07	1.17YrCanc	4.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1387	ALL	384653	3744479	4.22E-07	1.17YrCanc	4.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1388	ALL	384753	3744479	3.77E-07	1.17YrCanc	3.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1389	ALL	384853	3744479	3.38E-07	1.17YrCanc	3.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1390	ALL	382453	3744579	3.38E-07	1.17YrCanc	3.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1391	ALL	382553	3744579	3.64E-07	1.17YrCanc	3.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1392	ALL	382653	3744579	3.93E-07	1.17YrCanc	3.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1393	ALL	382753	3744579	4.26E-07	1.17YrCanc	4.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1394	ALL	382853	3744579	4.65E-07	1.17YrCanc	4.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1395	ALL	382953	3744579	5.09E-07	1.17YrCanc	5.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1396	ALL	383053	3744579	5.60E-07	1.17YrCanc	5.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1397	ALL	383153	3744579	6.15E-07	1.17YrCanc	6.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1398	ALL	383253	3744579	6.75E-07	1.17YrCanc	6.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1399	ALL	383353	3744579	7.38E-07	1.17YrCanc	7.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1400	ALL	383453	3744579	7.99E-07	1.17YrCanc	7.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1401	ALL	383553	3744579	8.58E-07	1.17YrCanc	8.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1402	ALL	383653	3744579	8.97E-07	1.17YrCanc	8.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1403	ALL	383753	3744579	9.23E-07	1.17YrCanc	9.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1404	ALL	383853	3744579	9.07E-07	1.17YrCanc	9.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1405	ALL	383953	3744579	8.54E-07	1.17YrCanc	8.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1406	ALL	384053	3744579	7.77E-07	1.17YrCanc	7.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1407	ALL	384153	3744579	6.93E-07	1.17YrCanc	6.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1408	ALL	384253	3744579	6.14E-07	1.17YrCanc	6.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1409	ALL	384353	3744579	5.44E-07	1.17YrCanc	5.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1410	ALL	384453	3744579	4.84E-07	1.17YrCanc	4.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1411	ALL	384553	3744579	4.33E-07	1.17YrCanc	4.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1412	ALL	384653	3744579	3.89E-07	1.17YrCanc	3.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1413	ALL	384753	3744579	3.50E-07	1.17YrCanc	3.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1414	ALL	384853	3744579	3.17E-07	1.17YrCanc	3.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1415	ALL	382453	3744679	3.08E-07	1.17YrCanc	3.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1416	ALL	382553	3744679	3.30E-07	1.17YrCanc	3.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1417	ALL	382653	3744679	3.55E-07	1.17YrCanc	3.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1418	ALL	382753	3744679	3.84E-07	1.17YrCanc	3.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1419	ALL	382853	3744679	4.16E-07	1.17YrCanc	4.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1420	ALL	382953	3744679	4.52E-07	1.17YrCanc	4.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1421	ALL	383053	3744679	4.92E-07	1.17YrCanc	4.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1422	ALL	383153	3744679	5.35E-07	1.17YrCanc	5.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1423	ALL	383253	3744679	5.79E-07	1.17YrCanc	5.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1424	ALL	383353	3744679	6.25E-07	1.17YrCanc	6.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1425	ALL	383453	3744679	6.70E-07	1.17YrCanc	6.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1426	ALL	383553	3744679	7.07E-07	1.17YrCanc	7.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1427	ALL	383653	3744679	7.44E-07	1.17YrCanc	7.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1428	ALL	383753	3744679	7.59E-07	1.17YrCanc	7.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1429	ALL	383853	3744679	7.49E-07	1.17YrCanc	7.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1430	ALL	383953	3744679	7.15E-07	1.17YrCanc	7.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1431	ALL	384053	3744679	6.63E-07	1.17YrCanc	6.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1432	ALL	384153	3744679	6.03E-07	1.17YrCanc	6.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1433	ALL	384253	3744679	5.42E-07	1.17YrCanc	5.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1434	ALL	384353	3744679	4.86E-07	1.17YrCanc	4.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1435	ALL	384453	3744679	4.38E-07	1.17YrCanc	4.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1436	ALL	384553	3744679	3.95E-07	1.17YrCanc	3.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1437	ALL	384653	3744679	3.58E-07	1.17YrCanc	3.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1438	ALL	384753	3744679	3.25E-07	1.17YrCanc	3.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1439	ALL	384853	3744679	2.96E-07	1.17YrCanc	2.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1440	ALL	382453	3744779	2.82E-07	1.17YrCanc	2.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1441	ALL	382553	3744779	3.01E-07	1.17YrCanc	3.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1442	ALL	382653	3744779	3.23E-07	1.17YrCanc	3.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1443	ALL	382753	3744779	3.48E-07	1.17YrCanc	3.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1444	ALL	382853	3744779	3.75E-07	1.17YrCanc	3.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1445	ALL	382953	3744779	4.05E-07	1.17YrCanc	4.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1446	ALL	383053	3744779	4.36E-07	1.17YrCanc	4.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1447	ALL	383153	3744779	4.69E-07	1.17YrCanc	4.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1448	ALL	383253	3744779	5.03E-07	1.17YrCanc	5.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1449	ALL	383353	3744779	5.36E-07	1.17YrCanc	5.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1450	ALL	383453	3744779	5.69E-07	1.17YrCanc	5.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1451	ALL	383553	3744779	6.01E-07	1.17YrCanc	6.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1452	ALL	383653	3744779	6.25E-07	1.17YrCanc	6.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1453	ALL	383753	3744779	6.36E-07	1.17YrCanc	6.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1454	ALL	383853	3744779	6.31E-07	1.17YrCanc	6.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1455	ALL	383953	3744779	6.09E-07	1.17YrCanc	6.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1456	ALL	384053	3744779	5.72E-07	1.17YrCanc	5.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1457	ALL	384153	3744779	5.28E-07	1.17YrCanc	5.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1458	ALL	384253	3744779	4.81E-07	1.17YrCanc	4.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1459	ALL	384353	3744779	4.37E-07	1.17YrCanc	4.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1460	ALL	384453	3744779	3.97E-07	1.17YrCanc	3.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1461	ALL	384553	3744779	3.61E-07	1.17YrCanc	3.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1462	ALL	384653	3744779	3.29E-07	1.17YrCanc	3.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1463	ALL	384753	3744779	3.01E-07	1.17YrCanc	3.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1464	ALL	384853	3744779	2.77E-07	1.17YrCanc	2.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1465	ALL	381453	3741679	8.94E-08	1.17YrCanc	8.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1466	ALL	381653	3741679	7.86E-08	1.17YrCanc	7.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1467	ALL	381853	3741679	7.83E-08	1.17YrCanc	7.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1468	ALL	382053	3741679	8.77E-08	1.17YrCanc	8.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1469	ALL	382253	3741679	9.57E-08	1.17YrCanc	9.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1470	ALL	382453	3741679	1.18E-07	1.17YrCanc	1.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1471	ALL	382653	3741679	1.26E-07	1.17YrCanc	1.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1472	ALL	382853	3741679	1.18E-07	1.17YrCanc	1.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1473	ALL	383053	3741679	1.18E-07	1.17YrCanc	1.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1474	ALL	383253	3741679	1.32E-07	1.17YrCanc	1.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1475	ALL	383453	3741679	1.53E-07	1.17YrCanc	1.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1476	ALL	383653	3741679	1.67E-07	1.17YrCanc	1.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1477	ALL	383853	3741679	1.83E-07	1.17YrCanc	1.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1478	ALL	384053	3741679	2.01E-07	1.17YrCanc	2.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1479	ALL	384253	3741679	2.17E-07	1.17YrCanc	2.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1480	ALL	384453	3741679	2.17E-07	1.17YrCanc	2.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1481	ALL	384653	3741679	2.31E-07	1.17YrCanc	2.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1482	ALL	384853	3741679	2.36E-07	1.17YrCanc	2.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1483	ALL	385053	3741679	2.35E-07	1.17YrCanc	2.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1484	ALL	385253	3741679	2.46E-07	1.17YrCanc	2.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1485	ALL	385453	3741679	2.57E-07	1.17YrCanc	2.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1486	ALL	385653	3741679	2.67E-07	1.17YrCanc	2.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1487	ALL	385853	3741679	2.72E-07	1.17YrCanc	2.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1488	ALL	381453	3741879	8.84E-08	1.17YrCanc	8.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1489	ALL	381653	3741879	1.02E-07	1.17YrCanc	1.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1490	ALL	381853	3741879	8.95E-08	1.17YrCanc	8.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1491	ALL	382053	3741879	9.57E-08	1.17YrCanc	9.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1492	ALL	382253	3741879	1.04E-07	1.17YrCanc	1.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1493	ALL	382453	3741879	1.13E-07	1.17YrCanc	1.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1494	ALL	382653	3741879	1.27E-07	1.17YrCanc	1.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1495	ALL	382853	3741879	1.30E-07	1.17YrCanc	1.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1496	ALL	383053	3741879	1.35E-07	1.17YrCanc	1.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1497	ALL	383253	3741879	1.51E-07	1.17YrCanc	1.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1498	ALL	383453	3741879	2.03E-07	1.17YrCanc	2.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1499	ALL	383653	3741879	2.17E-07	1.17YrCanc	2.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1500	ALL	383853	3741879	2.30E-07	1.17YrCanc	2.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1501	ALL	384053	3741879	2.43E-07	1.17YrCanc	2.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1502	ALL	384253	3741879	2.52E-07	1.17YrCanc	2.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1503	ALL	384453	3741879	2.64E-07	1.17YrCanc	2.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1504	ALL	384653	3741879	2.69E-07	1.17YrCanc	2.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1505	ALL	384853	3741879	2.75E-07	1.17YrCanc	2.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1506	ALL	385053	3741879	2.89E-07	1.17YrCanc	2.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1507	ALL	385253	3741879	3.04E-07	1.17YrCanc	3.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1508	ALL	385453	3741879	3.16E-07	1.17YrCanc	3.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1509	ALL	385653	3741879	3.21E-07	1.17YrCanc	3.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1510	ALL	385853	3741879	3.18E-07	1.17YrCanc	3.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1511	ALL	381453	3742079	8.93E-08	1.17YrCanc	8.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1512	ALL	381653	3742079	1.10E-07	1.17YrCanc	1.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1513	ALL	381853	3742079	1.24E-07	1.17YrCanc	1.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1514	ALL	382053	3742079	1.13E-07	1.17YrCanc	1.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1515	ALL	382253	3742079	1.15E-07	1.17YrCanc	1.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1516	ALL	382453	3742079	1.28E-07	1.17YrCanc	1.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1517	ALL	382653	3742079	1.40E-07	1.17YrCanc	1.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1518	ALL	382853	3742079	1.55E-07	1.17YrCanc	1.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1519	ALL	383053	3742079	1.72E-07	1.17YrCanc	1.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1520	ALL	383253	3742079	1.84E-07	1.17YrCanc	1.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1521	ALL	383453	3742079	2.37E-07	1.17YrCanc	2.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1522	ALL	383653	3742079	2.51E-07	1.17YrCanc	2.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1523	ALL	383853	3742079	2.71E-07	1.17YrCanc	2.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1524	ALL	384053	3742079	2.94E-07	1.17YrCanc	2.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1525	ALL	384253	3742079	3.04E-07	1.17YrCanc	3.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1526	ALL	384453	3742079	3.56E-07	1.17YrCanc	3.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1527	ALL	384653	3742079	3.28E-07	1.17YrCanc	3.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1528	ALL	384853	3742079	3.46E-07	1.17YrCanc	3.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1529	ALL	385053	3742079	3.65E-07	1.17YrCanc	3.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1530	ALL	385253	3742079	3.81E-07	1.17YrCanc	3.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1531	ALL	385453	3742079	3.88E-07	1.17YrCanc	3.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1532	ALL	385653	3742079	3.81E-07	1.17YrCanc	3.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1533	ALL	385853	3742079	3.62E-07	1.17YrCanc	3.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1534	ALL	381453	3742279	9.76E-08	1.17YrCanc	9.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1535	ALL	381653	3742279	1.05E-07	1.17YrCanc	1.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1536	ALL	381853	3742279	1.21E-07	1.17YrCanc	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1537	ALL	382053	3742279	1.41E-07	1.17YrCanc	1.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1538	ALL	382253	3742279	1.30E-07	1.17YrCanc	1.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1539	ALL	382453	3742279	1.46E-07	1.17YrCanc	1.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1540	ALL	382653	3742279	1.62E-07	1.17YrCanc	1.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1541	ALL	382853	3742279	1.89E-07	1.17YrCanc	1.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1542	ALL	383053	3742279	2.36E-07	1.17YrCanc	2.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1543	ALL	383253	3742279	2.68E-07	1.17YrCanc	2.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1544	ALL	383453	3742279	2.70E-07	1.17YrCanc	2.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1545	ALL	383653	3742279	3.16E-07	1.17YrCanc	3.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1546	ALL	383853	3742279	3.34E-07	1.17YrCanc	3.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1547	ALL	384053	3742279	3.67E-07	1.17YrCanc	3.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1548	ALL	384253	3742279	3.83E-07	1.17YrCanc	3.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1549	ALL	384453	3742279	3.99E-07	1.17YrCanc	3.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1550	ALL	384653	3742279	4.22E-07	1.17YrCanc	4.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1551	ALL	384853	3742279	4.50E-07	1.17YrCanc	4.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1552	ALL	385053	3742279	4.72E-07	1.17YrCanc	4.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1553	ALL	385253	3742279	4.78E-07	1.17YrCanc	4.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1554	ALL	385453	3742279	4.65E-07	1.17YrCanc	4.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1555	ALL	385653	3742279	4.34E-07	1.17YrCanc	4.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1556	ALL	385853	3742279	3.92E-07	1.17YrCanc	3.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1557	ALL	381453	3742479	1.13E-07	1.17YrCanc	1.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1558	ALL	381653	3742479	1.26E-07	1.17YrCanc	1.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1559	ALL	381853	3742479	1.29E-07	1.17YrCanc	1.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1560	ALL	382053	3742479	1.50E-07	1.17YrCanc	1.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1561	ALL	382253	3742479	1.51E-07	1.17YrCanc	1.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1562	ALL	382453	3742479	1.69E-07	1.17YrCanc	1.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1563	ALL	382653	3742479	1.91E-07	1.17YrCanc	1.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1564	ALL	382853	3742479	2.15E-07	1.17YrCanc	2.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1565	ALL	383053	3742479	2.83E-07	1.17YrCanc	2.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1566	ALL	383253	3742479	3.41E-07	1.17YrCanc	3.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1567	ALL	383453	3742479	3.62E-07	1.17YrCanc	3.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1568	ALL	383653	3742479	4.13E-07	1.17YrCanc	4.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1569	ALL	383853	3742479	4.48E-07	1.17YrCanc	4.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1570	ALL	384053	3742479	4.77E-07	1.17YrCanc	4.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1571	ALL	384253	3742479	5.00E-07	1.17YrCanc	5.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1572	ALL	384453	3742479	5.31E-07	1.17YrCanc	5.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1573	ALL	384653	3742479	5.70E-07	1.17YrCanc	5.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1574	ALL	384853	3742479	6.02E-07	1.17YrCanc	6.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1575	ALL	385053	3742479	7.61E-07	1.17YrCanc	7.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1576	ALL	385253	3742479	5.82E-07	1.17YrCanc	5.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1577	ALL	385453	3742479	5.30E-07	1.17YrCanc	5.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1578	ALL	385653	3742479	4.65E-07	1.17YrCanc	4.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1579	ALL	385853	3742479	3.98E-07	1.17YrCanc	3.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1580	ALL	381453	3742679	1.28E-07	1.17YrCanc	1.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1581	ALL	381653	3742679	1.39E-07	1.17YrCanc	1.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1582	ALL	381853	3742679	1.51E-07	1.17YrCanc	1.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1583	ALL	382053	3742679	1.66E-07	1.17YrCanc	1.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1584	ALL	382253	3742679	1.81E-07	1.17YrCanc	1.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1585	ALL	385053	3742679	7.51E-07	1.17YrCanc	7.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1586	ALL	385253	3742679	6.57E-07	1.17YrCanc	6.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1587	ALL	385453	3742679	5.56E-07	1.17YrCanc	5.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1588	ALL	385653	3742679	4.59E-07	1.17YrCanc	4.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1589	ALL	385853	3742679	3.75E-07	1.17YrCanc	3.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1590	ALL	381453	3742879	1.43E-07	1.17YrCanc	1.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1591	ALL	381653	3742879	1.62E-07	1.17YrCanc	1.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1592	ALL	381853	3742879	1.78E-07	1.17YrCanc	1.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1593	ALL	382053	3742879	1.98E-07	1.17YrCanc	1.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1594	ALL	382253	3742879	2.42E-07	1.17YrCanc	2.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1595	ALL	385053	3742879	8.40E-07	1.17YrCanc	8.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1596	ALL	385253	3742879	6.71E-07	1.17YrCanc	6.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1597	ALL	385453	3742879	5.28E-07	1.17YrCanc	5.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1598	ALL	385653	3742879	4.17E-07	1.17YrCanc	4.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1599	ALL	385853	3742879	3.33E-07	1.17YrCanc	3.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1600	ALL	381453	3743079	1.57E-07	1.17YrCanc	1.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1601	ALL	381653	3743079	1.77E-07	1.17YrCanc	1.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1602	ALL	381853	3743079	2.02E-07	1.17YrCanc	2.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1603	ALL	382053	3743079	2.33E-07	1.17YrCanc	2.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1604	ALL	382253	3743079	2.77E-07	1.17YrCanc	2.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1605	ALL	385053	3743079	8.14E-07	1.17YrCanc	8.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1606	ALL	385253	3743079	6.05E-07	1.17YrCanc	6.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1607	ALL	385453	3743079	4.59E-07	1.17YrCanc	4.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1608	ALL	385653	3743079	3.58E-07	1.17YrCanc	3.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1609	ALL	385853	3743079	2.86E-07	1.17YrCanc	2.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1610	ALL	381453	3743279	1.70E-07	1.17YrCanc	1.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1611	ALL	381653	3743279	1.90E-07	1.17YrCanc	1.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1612	ALL	381853	3743279	2.20E-07	1.17YrCanc	2.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1613	ALL	382053	3743279	2.59E-07	1.17YrCanc	2.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1614	ALL	382253	3743279	3.09E-07	1.17YrCanc	3.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1615	ALL	385053	3743279	6.81E-07	1.17YrCanc	6.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1616	ALL	385253	3743279	5.02E-07	1.17YrCanc	5.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1617	ALL	385453	3743279	3.83E-07	1.17YrCanc	3.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1618	ALL	385653	3743279	3.04E-07	1.17YrCanc	3.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1619	ALL	385853	3743279	2.48E-07	1.17YrCanc	2.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1620	ALL	381453	3743479	1.76E-07	1.17YrCanc	1.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1621	ALL	381653	3743479	1.97E-07	1.17YrCanc	1.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1622	ALL	381853	3743479	2.34E-07	1.17YrCanc	2.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1623	ALL	382053	3743479	2.77E-07	1.17YrCanc	2.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1624	ALL	382253	3743479	3.38E-07	1.17YrCanc	3.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1625	ALL	385053	3743479	5.47E-07	1.17YrCanc	5.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1626	ALL	385253	3743479	4.13E-07	1.17YrCanc	4.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1627	ALL	385453	3743479	3.25E-07	1.17YrCanc	3.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1628	ALL	385653	3743479	2.64E-07	1.17YrCanc	2.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1629	ALL	385853	3743479	2.20E-07	1.17YrCanc	2.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1630	ALL	381453	3743679	1.90E-07	1.17YrCanc	1.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1631	ALL	381653	3743679	2.21E-07	1.17YrCanc	2.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1632	ALL	381853	3743679	2.47E-07	1.17YrCanc	2.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1633	ALL	382053	3743679	3.00E-07	1.17YrCanc	3.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1634	ALL	382253	3743679	3.67E-07	1.17YrCanc	3.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1635	ALL	385053	3743679	4.49E-07	1.17YrCanc	4.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1636	ALL	385253	3743679	3.51E-07	1.17YrCanc	3.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1637	ALL	385453	3743679	2.83E-07	1.17YrCanc	2.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1638	ALL	385653	3743679	2.34E-07	1.17YrCanc	2.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1639	ALL	385853	3743679	1.97E-07	1.17YrCanc	1.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1640	ALL	381453	3743879	1.99E-07	1.17YrCanc	1.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1641	ALL	381653	3743879	2.22E-07	1.17YrCanc	2.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1642	ALL	381853	3743879	2.61E-07	1.17YrCanc	2.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1643	ALL	382053	3743879	3.15E-07	1.17YrCanc	3.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1644	ALL	382253	3743879	3.88E-07	1.17YrCanc	3.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1645	ALL	385053	3743879	3.82E-07	1.17YrCanc	3.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1646	ALL	385253	3743879	3.05E-07	1.17YrCanc	3.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1647	ALL	385453	3743879	2.50E-07	1.17YrCanc	2.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1648	ALL	385653	3743879	2.10E-07	1.17YrCanc	2.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1649	ALL	385853	3743879	1.79E-07	1.17YrCanc	1.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1650	ALL	381453	3744079	2.04E-07	1.17YrCanc	2.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1651	ALL	381653	3744079	2.22E-07	1.17YrCanc	2.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1652	ALL	381853	3744079	2.60E-07	1.17YrCanc	2.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1653	ALL	382053	3744079	3.14E-07	1.17YrCanc	3.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1654	ALL	382253	3744079	3.88E-07	1.17YrCanc	3.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1655	ALL	385053	3744079	3.38E-07	1.17YrCanc	3.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1656	ALL	385253	3744079	2.73E-07	1.17YrCanc	2.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1657	ALL	385453	3744079	2.26E-07	1.17YrCanc	2.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1658	ALL	385653	3744079	1.91E-07	1.17YrCanc	1.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1659	ALL	385853	3744079	1.64E-07	1.17YrCanc	1.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1660	ALL	381453	3744279	1.92E-07	1.17YrCanc	1.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1661	ALL	381653	3744279	2.18E-07	1.17YrCanc	2.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1662	ALL	381853	3744279	2.53E-07	1.17YrCanc	2.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1663	ALL	382053	3744279	3.01E-07	1.17YrCanc	3.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1664	ALL	382253	3744279	3.62E-07	1.17YrCanc	3.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1665	ALL	385053	3744279	3.06E-07	1.17YrCanc	3.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1666	ALL	385253	3744279	2.50E-07	1.17YrCanc	2.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1667	ALL	385453	3744279	2.09E-07	1.17YrCanc	2.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1668	ALL	385653	3744279	1.78E-07	1.17YrCanc	1.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1669	ALL	385853	3744279	1.53E-07	1.17YrCanc	1.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1670	ALL	381453	3744479	1.81E-07	1.17YrCanc	1.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1671	ALL	381653	3744479	2.06E-07	1.17YrCanc	2.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1672	ALL	381853	3744479	2.37E-07	1.17YrCanc	2.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1673	ALL	382053	3744479	2.74E-07	1.17YrCanc	2.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1674	ALL	382253	3744479	3.18E-07	1.17YrCanc	3.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1675	ALL	385053	3744479	2.77E-07	1.17YrCanc	2.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1676	ALL	385253	3744479	2.30E-07	1.17YrCanc	2.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1677	ALL	385453	3744479	1.95E-07	1.17YrCanc	1.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1678	ALL	385653	3744479	1.67E-07	1.17YrCanc	1.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1679	ALL	385853	3744479	1.45E-07	1.17YrCanc	1.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1680	ALL	381453	3744679	1.69E-07	1.17YrCanc	1.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1681	ALL	381653	3744679	1.89E-07	1.17YrCanc	1.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1682	ALL	381853	3744679	2.13E-07	1.17YrCanc	2.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1683	ALL	382053	3744679	2.39E-07	1.17YrCanc	2.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1684	ALL	382253	3744679	2.70E-07	1.17YrCanc	2.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1685	ALL	385053	3744679	2.48E-07	1.17YrCanc	2.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1686	ALL	385253	3744679	2.10E-07	1.17YrCanc	2.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1687	ALL	385453	3744679	1.80E-07	1.17YrCanc	1.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1688	ALL	385653	3744679	1.56E-07	1.17YrCanc	1.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1689	ALL	385853	3744679	1.37E-07	1.17YrCanc	1.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1690	ALL	381453	3744879	1.54E-07	1.17YrCanc	1.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1691	ALL	381653	3744879	1.69E-07	1.17YrCanc	1.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1692	ALL	381853	3744879	1.87E-07	1.17YrCanc	1.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1693	ALL	382053	3744879	2.06E-07	1.17YrCanc	2.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1694	ALL	382253	3744879	2.30E-07	1.17YrCanc	2.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1695	ALL	382453	3744879	2.59E-07	1.17YrCanc	2.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1696	ALL	382653	3744879	2.96E-07	1.17YrCanc	2.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1697	ALL	382853	3744879	3.39E-07	1.17YrCanc	3.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1698	ALL	383053	3744879	3.89E-07	1.17YrCanc	3.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1699	ALL	383253	3744879	4.41E-07	1.17YrCanc	4.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1700	ALL	383453	3744879	4.92E-07	1.17YrCanc	4.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1701	ALL	383653	3744879	5.33E-07	1.17YrCanc	5.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1702	ALL	383853	3744879	5.40E-07	1.17YrCanc	5.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1703	ALL	384053	3744879	4.99E-07	1.17YrCanc	4.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1704	ALL	384253	3744879	4.29E-07	1.17YrCanc	4.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1705	ALL	384453	3744879	3.61E-07	1.17YrCanc	3.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1706	ALL	384653	3744879	3.04E-07	1.17YrCanc	3.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1707	ALL	384853	3744879	2.58E-07	1.17YrCanc	2.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1708	ALL	385053	3744879	2.21E-07	1.17YrCanc	2.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1709	ALL	385253	3744879	1.91E-07	1.17YrCanc	1.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1710	ALL	385453	3744879	1.66E-07	1.17YrCanc	1.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1711	ALL	385653	3744879	1.46E-07	1.17YrCanc	1.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1712	ALL	385853	3744879	1.29E-07	1.17YrCanc	1.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1713	ALL	381453	3745079	1.38E-07	1.17YrCanc	1.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1714	ALL	381653	3745079	1.50E-07	1.17YrCanc	1.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1715	ALL	381853	3745079	1.64E-07	1.17YrCanc	1.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1716	ALL	382053	3745079	1.80E-07	1.17YrCanc	1.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1717	ALL	382253	3745079	1.99E-07	1.17YrCanc	1.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1718	ALL	382453	3745079	2.23E-07	1.17YrCanc	2.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1719	ALL	382653	3745079	2.51E-07	1.17YrCanc	2.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1720	ALL	382853	3745079	2.82E-07	1.17YrCanc	2.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1721	ALL	383053	3745079	3.14E-07	1.17YrCanc	3.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1722	ALL	383253	3745079	3.45E-07	1.17YrCanc	3.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1723	ALL	383453	3745079	3.78E-07	1.17YrCanc	3.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1724	ALL	383653	3745079	4.03E-07	1.17YrCanc	4.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1725	ALL	383853	3745079	4.10E-07	1.17YrCanc	4.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1726	ALL	384053	3745079	3.89E-07	1.17YrCanc	3.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1727	ALL	384253	3745079	3.47E-07	1.17YrCanc	3.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1728	ALL	384453	3745079	3.01E-07	1.17YrCanc	3.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1729	ALL	384653	3745079	2.60E-07	1.17YrCanc	2.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1730	ALL	384853	3745079	2.26E-07	1.17YrCanc	2.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1731	ALL	385053	3745079	1.97E-07	1.17YrCanc	1.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1732	ALL	385253	3745079	1.73E-07	1.17YrCanc	1.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1733	ALL	385453	3745079	1.52E-07	1.17YrCanc	1.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1734	ALL	385653	3745079	1.35E-07	1.17YrCanc	1.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1735	ALL	385853	3745079	1.20E-07	1.17YrCanc	1.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1736	ALL	381453	3745279	1.24E-07	1.17YrCanc	1.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1737	ALL	381653	3745279	1.33E-07	1.17YrCanc	1.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1738	ALL	381853	3745279	1.45E-07	1.17YrCanc	1.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1739	ALL	382053	3745279	1.59E-07	1.17YrCanc	1.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1740	ALL	382253	3745279	1.75E-07	1.17YrCanc	1.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1741	ALL	382453	3745279	1.94E-07	1.17YrCanc	1.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1742	ALL	382653	3745279	2.15E-07	1.17YrCanc	2.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1743	ALL	382853	3745279	2.37E-07	1.17YrCanc	2.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1744	ALL	383053	3745279	2.58E-07	1.17YrCanc	2.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1745	ALL	383253	3745279	2.80E-07	1.17YrCanc	2.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1746	ALL	383453	3745279	3.01E-07	1.17YrCanc	3.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1747	ALL	383653	3745279	3.18E-07	1.17YrCanc	3.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1748	ALL	383853	3745279	3.23E-07	1.17YrCanc	3.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1749	ALL	384053	3745279	3.12E-07	1.17YrCanc	3.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1750	ALL	384253	3745279	2.86E-07	1.17YrCanc	2.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1751	ALL	384453	3745279	2.55E-07	1.17YrCanc	2.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1752	ALL	384653	3745279	2.24E-07	1.17YrCanc	2.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1753	ALL	384853	3745279	1.98E-07	1.17YrCanc	1.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1754	ALL	385053	3745279	1.76E-07	1.17YrCanc	1.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1755	ALL	385253	3745279	1.56E-07	1.17YrCanc	1.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1756	ALL	385453	3745279	1.39E-07	1.17YrCanc	1.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1757	ALL	385653	3745279	1.25E-07	1.17YrCanc	1.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1758	ALL	385853	3745279	1.12E-07	1.17YrCanc	1.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1759	ALL	381453	3745479	1.11E-07	1.17YrCanc	1.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1760	ALL	381653	3745479	1.20E-07	1.17YrCanc	1.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1761	ALL	381853	3745479	1.30E-07	1.17YrCanc	1.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1762	ALL	382053	3745479	1.42E-07	1.17YrCanc	1.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1763	ALL	382253	3745479	1.61E-07	1.17YrCanc	1.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1764	ALL	382453	3745479	1.70E-07	1.17YrCanc	1.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1765	ALL	382653	3745479	1.87E-07	1.17YrCanc	1.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1766	ALL	382853	3745479	2.01E-07	1.17YrCanc	2.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1767	ALL	383053	3745479	2.17E-07	1.17YrCanc	2.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1768	ALL	383253	3745479	2.32E-07	1.17YrCanc	2.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1769	ALL	383453	3745479	2.46E-07	1.17YrCanc	2.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1770	ALL	383653	3745479	2.58E-07	1.17YrCanc	2.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1771	ALL	383853	3745479	2.63E-07	1.17YrCanc	2.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1772	ALL	384053	3745479	2.56E-07	1.17YrCanc	2.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1773	ALL	384253	3745479	2.40E-07	1.17YrCanc	2.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1774	ALL	384453	3745479	2.18E-07	1.17YrCanc	2.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1775	ALL	384653	3745479	1.95E-07	1.17YrCanc	1.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1776	ALL	384853	3745479	1.75E-07	1.17YrCanc	1.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1777	ALL	385053	3745479	1.57E-07	1.17YrCanc	1.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1778	ALL	385253	3745479	1.41E-07	1.17YrCanc	1.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1779	ALL	385453	3745479	1.27E-07	1.17YrCanc	1.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1780	ALL	385653	3745479	1.15E-07	1.17YrCanc	1.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1781	ALL	385853	3745479	1.05E-07	1.17YrCanc	1.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1782	ALL	381453	3745679	1.01E-07	1.17YrCanc	1.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1783	ALL	381653	3745679	1.09E-07	1.17YrCanc	1.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1784	ALL	381853	3745679	1.18E-07	1.17YrCanc	1.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1785	ALL	382053	3745679	1.28E-07	1.17YrCanc	1.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1786	ALL	382253	3745679	1.39E-07	1.17YrCanc	1.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1787	ALL	382453	3745679	1.54E-07	1.17YrCanc	1.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1788	ALL	382653	3745679	1.62E-07	1.17YrCanc	1.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1789	ALL	382853	3745679	1.74E-07	1.17YrCanc	1.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1790	ALL	383053	3745679	1.85E-07	1.17YrCanc	1.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1791	ALL	383253	3745679	1.96E-07	1.17YrCanc	1.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1792	ALL	383453	3745679	2.06E-07	1.17YrCanc	2.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1793	ALL	383653	3745679	2.14E-07	1.17YrCanc	2.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1794	ALL	383853	3745679	2.18E-07	1.17YrCanc	2.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1795	ALL	384053	3745679	2.15E-07	1.17YrCanc	2.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1796	ALL	384253	3745679	2.04E-07	1.17YrCanc	2.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1797	ALL	384453	3745679	1.89E-07	1.17YrCanc	1.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1798	ALL	384653	3745679	1.72E-07	1.17YrCanc	1.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1799	ALL	384853	3745679	1.55E-07	1.17YrCanc	1.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1800	ALL	385053	3745679	1.41E-07	1.17YrCanc	1.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1801	ALL	385253	3745679	1.28E-07	1.17YrCanc	1.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1802	ALL	385453	3745679	1.17E-07	1.17YrCanc	1.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1803	ALL	385653	3745679	1.06E-07	1.17YrCanc	1.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1804	ALL	385853	3745679	9.73E-08	1.17YrCanc	9.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1805	ALL	381453	3745879	9.32E-08	1.17YrCanc	9.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1806	ALL	381653	3745879	1.00E-07	1.17YrCanc	1.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1807	ALL	381853	3745879	1.08E-07	1.17YrCanc	1.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1808	ALL	382053	3745879	1.16E-07	1.17YrCanc	1.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1809	ALL	382253	3745879	1.25E-07	1.17YrCanc	1.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1810	ALL	382453	3745879	1.34E-07	1.17YrCanc	1.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1811	ALL	382653	3745879	1.42E-07	1.17YrCanc	1.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1812	ALL	382853	3745879	1.51E-07	1.17YrCanc	1.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1813	ALL	383053	3745879	1.60E-07	1.17YrCanc	1.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1814	ALL	383253	3745879	1.68E-07	1.17YrCanc	1.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1815	ALL	383453	3745879	1.76E-07	1.17YrCanc	1.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1816	ALL	383653	3745879	1.82E-07	1.17YrCanc	1.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1817	ALL	383853	3745879	1.85E-07	1.17YrCanc	1.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1818	ALL	384053	3745879	1.83E-07	1.17YrCanc	1.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1819	ALL	384253	3745879	1.76E-07	1.17YrCanc	1.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1820	ALL	384453	3745879	1.65E-07	1.17YrCanc	1.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1821	ALL	384653	3745879	1.52E-07	1.17YrCanc	1.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1822	ALL	384853	3745879	1.39E-07	1.17YrCanc	1.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1823	ALL	385053	3745879	1.27E-07	1.17YrCanc	1.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1824	ALL	385253	3745879	1.16E-07	1.17YrCanc	1.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1825	ALL	385453	3745879	1.07E-07	1.17YrCanc	1.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1826	ALL	385653	3745879	9.82E-08	1.17YrCanc	9.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1827	ALL	385853	3745879	9.04E-08	1.17YrCanc	9.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1828	ALL	378453	3738679	1.43E-08	1.17YrCanc	1.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1829	ALL	378953	3738679	1.45E-08	1.17YrCanc	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1830	ALL	379453	3738679	1.63E-08	1.17YrCanc	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1831	ALL	379953	3738679	1.90E-08	1.17YrCanc	1.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1832	ALL	380453	3738679	2.92E-08	1.17YrCanc	2.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1833	ALL	380953	3738679	3.13E-08	1.17YrCanc	3.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1834	ALL	381453	3738679	2.81E-08	1.17YrCanc	2.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1835	ALL	381953	3738679	3.52E-08	1.17YrCanc	3.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1836	ALL	382453	3738679	3.69E-08	1.17YrCanc	3.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1837	ALL	382953	3738679	3.87E-08	1.17YrCanc	3.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1838	ALL	383453	3738679	4.09E-08	1.17YrCanc	4.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1839	ALL	383953	3738679	4.35E-08	1.17YrCanc	4.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1840	ALL	384453	3738679	4.57E-08	1.17YrCanc	4.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1841	ALL	384953	3738679	4.72E-08	1.17YrCanc	4.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1842	ALL	385453	3738679	4.82E-08	1.17YrCanc	4.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1843	ALL	385953	3738679	4.90E-08	1.17YrCanc	4.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1844	ALL	386453	3738679	5.00E-08	1.17YrCanc	5.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1845	ALL	386953	3738679	5.14E-08	1.17YrCanc	5.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1846	ALL	387453	3738679	5.35E-08	1.17YrCanc	5.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1847	ALL	387953	3738679	5.61E-08	1.17YrCanc	5.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1848	ALL	388453	3738679	5.89E-08	1.17YrCanc	5.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1849	ALL	388953	3738679	6.13E-08	1.17YrCanc	6.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1850	ALL	378453	3739179	1.72E-08	1.17YrCanc	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1851	ALL	378953	3739179	1.84E-08	1.17YrCanc	1.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1852	ALL	379453	3739179	2.03E-08	1.17YrCanc	2.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1853	ALL	379953	3739179	3.02E-08	1.17YrCanc	3.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1854	ALL	380453	3739179	3.28E-08	1.17YrCanc	3.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1855	ALL	380953	3739179	3.55E-08	1.17YrCanc	3.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1856	ALL	381453	3739179	3.83E-08	1.17YrCanc	3.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1857	ALL	381953	3739179	4.08E-08	1.17YrCanc	4.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1858	ALL	382453	3739179	3.33E-08	1.17YrCanc	3.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1859	ALL	382953	3739179	3.88E-08	1.17YrCanc	3.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1860	ALL	383453	3739179	4.83E-08	1.17YrCanc	4.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1861	ALL	383953	3739179	5.17E-08	1.17YrCanc	5.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1862	ALL	384453	3739179	5.45E-08	1.17YrCanc	5.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1863	ALL	384953	3739179	5.64E-08	1.17YrCanc	5.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1864	ALL	385453	3739179	5.75E-08	1.17YrCanc	5.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1865	ALL	385953	3739179	5.87E-08	1.17YrCanc	5.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1866	ALL	386453	3739179	6.04E-08	1.17YrCanc	6.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1867	ALL	386953	3739179	6.28E-08	1.17YrCanc	6.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1868	ALL	387453	3739179	6.62E-08	1.17YrCanc	6.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1869	ALL	387953	3739179	6.99E-08	1.17YrCanc	6.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1870	ALL	388453	3739179	7.28E-08	1.17YrCanc	7.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1871	ALL	388953	3739179	7.39E-08	1.17YrCanc	7.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1872	ALL	378453	3739679	1.95E-08	1.17YrCanc	1.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1873	ALL	378953	3739679	2.07E-08	1.17YrCanc	2.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1874	ALL	379453	3739679	2.24E-08	1.17YrCanc	2.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1875	ALL	379953	3739679	2.51E-08	1.17YrCanc	2.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1876	ALL	380453	3739679	3.70E-08	1.17YrCanc	3.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1877	ALL	380953	3739679	4.06E-08	1.17YrCanc	4.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1878	ALL	381453	3739679	4.44E-08	1.17YrCanc	4.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1879	ALL	381953	3739679	4.18E-08	1.17YrCanc	4.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1880	ALL	382453	3739679	5.13E-08	1.17YrCanc	5.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1881	ALL	382953	3739679	4.15E-08	1.17YrCanc	4.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1882	ALL	383453	3739679	4.71E-08	1.17YrCanc	4.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1883	ALL	383953	3739679	6.27E-08	1.17YrCanc	6.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1884	ALL	384453	3739679	6.64E-08	1.17YrCanc	6.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1885	ALL	384953	3739679	6.86E-08	1.17YrCanc	6.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1886	ALL	385453	3739679	7.02E-08	1.17YrCanc	7.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1887	ALL	385953	3739679	7.22E-08	1.17YrCanc	7.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1888	ALL	386453	3739679	7.53E-08	1.17YrCanc	7.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1889	ALL	386953	3739679	7.96E-08	1.17YrCanc	7.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1890	ALL	387453	3739679	8.47E-08	1.17YrCanc	8.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1891	ALL	387953	3739679	8.85E-08	1.17YrCanc	8.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1892	ALL	388453	3739679	8.92E-08	1.17YrCanc	8.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1893	ALL	388953	3739679	8.62E-08	1.17YrCanc	8.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1894	ALL	378453	3740179	2.26E-08	1.17YrCanc	2.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1895	ALL	378953	3740179	2.36E-08	1.17YrCanc	2.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1896	ALL	379453	3740179	2.52E-08	1.17YrCanc	2.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1897	ALL	379953	3740179	2.80E-08	1.17YrCanc	2.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1898	ALL	380453	3740179	3.07E-08	1.17YrCanc	3.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1899	ALL	380953	3740179	4.68E-08	1.17YrCanc	4.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1900	ALL	381453	3740179	5.20E-08	1.17YrCanc	5.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1901	ALL	381953	3740179	5.19E-08	1.17YrCanc	5.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1902	ALL	382453	3740179	5.32E-08	1.17YrCanc	5.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1903	ALL	382953	3740179	6.59E-08	1.17YrCanc	6.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1904	ALL	383453	3740179	7.19E-08	1.17YrCanc	7.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1905	ALL	383953	3740179	7.58E-08	1.17YrCanc	7.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1906	ALL	384453	3740179	8.52E-08	1.17YrCanc	8.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1907	ALL	384953	3740179	9.35E-08	1.17YrCanc	9.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1908	ALL	385453	3740179	8.84E-08	1.17YrCanc	8.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1909	ALL	385953	3740179	9.22E-08	1.17YrCanc	9.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1910	ALL	386453	3740179	9.81E-08	1.17YrCanc	9.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1911	ALL	386953	3740179	1.05E-07	1.17YrCanc	1.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1912	ALL	387453	3740179	1.10E-07	1.17YrCanc	1.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1913	ALL	387953	3740179	1.10E-07	1.17YrCanc	1.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1914	ALL	388453	3740179	1.04E-07	1.17YrCanc	1.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1915	ALL	388953	3740179	9.42E-08	1.17YrCanc	9.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1916	ALL	378453	3740679	2.72E-08	1.17YrCanc	2.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1917	ALL	378953	3740679	2.83E-08	1.17YrCanc	2.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1918	ALL	379453	3740679	2.97E-08	1.17YrCanc	2.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1919	ALL	379953	3740679	3.17E-08	1.17YrCanc	3.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1920	ALL	380453	3740679	3.58E-08	1.17YrCanc	3.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1921	ALL	380953	3740679	5.43E-08	1.17YrCanc	5.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1922	ALL	381453	3740679	6.11E-08	1.17YrCanc	6.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1923	ALL	381953	3740679	6.75E-08	1.17YrCanc	6.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1924	ALL	382453	3740679	5.73E-08	1.17YrCanc	5.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1925	ALL	382953	3740679	6.10E-08	1.17YrCanc	6.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1926	ALL	383453	3740679	7.29E-08	1.17YrCanc	7.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1927	ALL	383953	3740679	9.45E-08	1.17YrCanc	9.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1928	ALL	384453	3740679	1.13E-07	1.17YrCanc	1.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1929	ALL	384953	3740679	1.23E-07	1.17YrCanc	1.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1930	ALL	385453	3740679	1.36E-07	1.17YrCanc	1.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1931	ALL	385953	3740679	1.42E-07	1.17YrCanc	1.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1932	ALL	386453	3740679	1.35E-07	1.17YrCanc	1.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1933	ALL	386953	3740679	1.42E-07	1.17YrCanc	1.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1934	ALL	387453	3740679	1.40E-07	1.17YrCanc	1.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1935	ALL	387953	3740679	1.28E-07	1.17YrCanc	1.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1936	ALL	388453	3740679	1.12E-07	1.17YrCanc	1.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1937	ALL	388953	3740679	9.36E-08	1.17YrCanc	9.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1938	ALL	378453	3741179	3.39E-08	1.17YrCanc	3.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1939	ALL	378953	3741179	3.53E-08	1.17YrCanc	3.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1940	ALL	379453	3741179	3.66E-08	1.17YrCanc	3.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1941	ALL	379953	3741179	3.87E-08	1.17YrCanc	3.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1942	ALL	380453	3741179	4.20E-08	1.17YrCanc	4.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1943	ALL	380953	3741179	6.34E-08	1.17YrCanc	6.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1944	ALL	381453	3741179	5.63E-08	1.17YrCanc	5.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1945	ALL	381953	3741179	6.68E-08	1.17YrCanc	6.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1946	ALL	382453	3741179	9.72E-08	1.17YrCanc	9.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1947	ALL	382953	3741179	8.07E-08	1.17YrCanc	8.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1948	ALL	383453	3741179	9.66E-08	1.17YrCanc	9.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1949	ALL	383953	3741179	1.36E-07	1.17YrCanc	1.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1950	ALL	384453	3741179	1.57E-07	1.17YrCanc	1.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1951	ALL	384953	3741179	1.62E-07	1.17YrCanc	1.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1952	ALL	385453	3741179	1.64E-07	1.17YrCanc	1.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1953	ALL	385953	3741179	1.82E-07	1.17YrCanc	1.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1954	ALL	386453	3741179	1.90E-07	1.17YrCanc	1.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1955	ALL	386953	3741179	1.83E-07	1.17YrCanc	1.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1956	ALL	387453	3741179	1.61E-07	1.17YrCanc	1.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1957	ALL	387953	3741179	1.33E-07	1.17YrCanc	1.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1958	ALL	388453	3741179	1.06E-07	1.17YrCanc	1.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1959	ALL	388953	3741179	8.41E-08	1.17YrCanc	8.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1960	ALL	378453	3741679	4.00E-08	1.17YrCanc	4.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1961	ALL	378953	3741679	4.36E-08	1.17YrCanc	4.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1962	ALL	379453	3741679	4.68E-08	1.17YrCanc	4.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1963	ALL	379953	3741679	4.93E-08	1.17YrCanc	4.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1964	ALL	380453	3741679	6.29E-08	1.17YrCanc	6.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1965	ALL	380953	3741679	7.45E-08	1.17YrCanc	7.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1966	ALL	385953	3741679	2.72E-07	1.17YrCanc	2.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1967	ALL	386453	3741679	2.51E-07	1.17YrCanc	2.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1968	ALL	386953	3741679	2.05E-07	1.17YrCanc	2.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1969	ALL	387453	3741679	1.58E-07	1.17YrCanc	1.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1970	ALL	387953	3741679	1.19E-07	1.17YrCanc	1.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1971	ALL	388453	3741679	9.08E-08	1.17YrCanc	9.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1972	ALL	388953	3741679	7.11E-08	1.17YrCanc	7.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1973	ALL	378453	3742179	4.50E-08	1.17YrCanc	4.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1974	ALL	378953	3742179	4.99E-08	1.17YrCanc	4.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1975	ALL	379453	3742179	5.57E-08	1.17YrCanc	5.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1976	ALL	379953	3742179	6.34E-08	1.17YrCanc	6.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1977	ALL	380453	3742179	7.00E-08	1.17YrCanc	7.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1978	ALL	380953	3742179	8.78E-08	1.17YrCanc	8.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1979	ALL	385953	3742179	3.62E-07	1.17YrCanc	3.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1980	ALL	386453	3742179	2.65E-07	1.17YrCanc	2.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1981	ALL	386953	3742179	1.85E-07	1.17YrCanc	1.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1982	ALL	387453	3742179	1.32E-07	1.17YrCanc	1.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1983	ALL	387953	3742179	9.72E-08	1.17YrCanc	9.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1984	ALL	388453	3742179	7.50E-08	1.17YrCanc	7.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1985	ALL	388953	3742179	6.00E-08	1.17YrCanc	6.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1986	ALL	378453	3742679	4.71E-08	1.17YrCanc	4.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1987	ALL	378953	3742679	5.38E-08	1.17YrCanc	5.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1988	ALL	379453	3742679	6.26E-08	1.17YrCanc	6.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1989	ALL	379953	3742679	7.24E-08	1.17YrCanc	7.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1990	ALL	380453	3742679	8.42E-08	1.17YrCanc	8.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1991	ALL	380953	3742679	1.02E-07	1.17YrCanc	1.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1992	ALL	385953	3742679	3.39E-07	1.17YrCanc	3.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1993	ALL	386453	3742679	2.13E-07	1.17YrCanc	2.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1994	ALL	386953	3742679	1.44E-07	1.17YrCanc	1.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1995	ALL	387453	3742679	1.04E-07	1.17YrCanc	1.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1996	ALL	387953	3742679	8.01E-08	1.17YrCanc	8.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1997	ALL	388453	3742679	6.40E-08	1.17YrCanc	6.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1998	ALL	388953	3742679	5.27E-08	1.17YrCanc	5.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1999	ALL	378453	3743179	4.84E-08	1.17YrCanc	4.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2000	ALL	378953	3743179	5.44E-08	1.17YrCanc	5.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2001	ALL	379453	3743179	6.38E-08	1.17YrCanc	6.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

2002	ALL	379953	3743179	7.62E-08	1.17YrCanc	7.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2003	ALL	380453	3743179	9.27E-08	1.17YrCanc	9.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2004	ALL	380953	3743179	1.20E-07	1.17YrCanc	1.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2005	ALL	385953	3743179	2.41E-07	1.17YrCanc	2.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2006	ALL	386453	3743179	1.59E-07	1.17YrCanc	1.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2007	ALL	386953	3743179	1.15E-07	1.17YrCanc	1.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2008	ALL	387453	3743179	8.78E-08	1.17YrCanc	8.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2009	ALL	387953	3743179	6.98E-08	1.17YrCanc	6.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2010	ALL	388453	3743179	5.72E-08	1.17YrCanc	5.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2011	ALL	388953	3743179	4.07E-08	1.17YrCanc	4.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2012	ALL	378453	3743679	5.12E-08	1.17YrCanc	5.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2013	ALL	378953	3743679	5.98E-08	1.17YrCanc	5.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2014	ALL	379453	3743679	7.03E-08	1.17YrCanc	7.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2015	ALL	379953	3743679	8.41E-08	1.17YrCanc	8.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2016	ALL	380453	3743679	1.04E-07	1.17YrCanc	1.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2017	ALL	380953	3743679	1.37E-07	1.17YrCanc	1.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2018	ALL	385953	3743679	1.82E-07	1.17YrCanc	1.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2019	ALL	386453	3743679	1.29E-07	1.17YrCanc	1.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2020	ALL	386953	3743679	9.72E-08	1.17YrCanc	9.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2021	ALL	387453	3743679	7.63E-08	1.17YrCanc	7.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2022	ALL	387953	3743679	6.18E-08	1.17YrCanc	6.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2023	ALL	388453	3743679	5.14E-08	1.17YrCanc	5.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2024	ALL	388953	3743679	3.21E-08	1.17YrCanc	3.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2025	ALL	378453	3744179	5.49E-08	1.17YrCanc	5.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2026	ALL	378953	3744179	6.38E-08	1.17YrCanc	6.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2027	ALL	379453	3744179	7.53E-08	1.17YrCanc	7.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2028	ALL	379953	3744179	9.02E-08	1.17YrCanc	9.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2029	ALL	380453	3744179	1.14E-07	1.17YrCanc	1.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2030	ALL	380953	3744179	1.50E-07	1.17YrCanc	1.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2031	ALL	385953	3744179	1.48E-07	1.17YrCanc	1.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2032	ALL	386453	3744179	1.08E-07	1.17YrCanc	1.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2033	ALL	386953	3744179	8.33E-08	1.17YrCanc	8.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2034	ALL	387453	3744179	6.66E-08	1.17YrCanc	6.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2035	ALL	387953	3744179	5.47E-08	1.17YrCanc	5.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2036	ALL	388453	3744179	4.56E-08	1.17YrCanc	4.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2037	ALL	388953	3744179	2.23E-08	1.17YrCanc	2.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2038	ALL	378453	3744679	5.31E-08	1.17YrCanc	5.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2039	ALL	378953	3744679	6.12E-08	1.17YrCanc	6.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2040	ALL	379453	3744679	6.54E-08	1.17YrCanc	6.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2041	ALL	379953	3744679	7.99E-08	1.17YrCanc	7.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2042	ALL	380453	3744679	9.99E-08	1.17YrCanc	9.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2043	ALL	380953	3744679	1.42E-07	1.17YrCanc	1.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2044	ALL	385953	3744679	1.28E-07	1.17YrCanc	1.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2045	ALL	386453	3744679	9.62E-08	1.17YrCanc	9.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2046	ALL	386953	3744679	7.51E-08	1.17YrCanc	7.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2047	ALL	387453	3744679	6.05E-08	1.17YrCanc	6.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2048	ALL	387953	3744679	4.94E-08	1.17YrCanc	4.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2049	ALL	388453	3744679	4.11E-08	1.17YrCanc	4.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2050	ALL	388953	3744679	3.58E-08	1.17YrCanc	3.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2051	ALL	378453	3745179	5.13E-08	1.17YrCanc	5.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2052	ALL	378953	3745179	5.95E-08	1.17YrCanc	5.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2053	ALL	379453	3745179	7.00E-08	1.17YrCanc	7.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2054	ALL	379953	3745179	8.34E-08	1.17YrCanc	8.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2055	ALL	380453	3745179	9.03E-08	1.17YrCanc	9.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2056	ALL	380953	3745179	1.17E-07	1.17YrCanc	1.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2057	ALL	385953	3745179	1.10E-07	1.17YrCanc	1.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2058	ALL	386453	3745179	8.59E-08	1.17YrCanc	8.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2059	ALL	386953	3745179	6.87E-08	1.17YrCanc	6.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2060	ALL	387453	3745179	5.61E-08	1.17YrCanc	5.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2061	ALL	387953	3745179	4.50E-08	1.17YrCanc	4.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2062	ALL	388453	3745179	3.05E-08	1.17YrCanc	3.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2063	ALL	388953	3745179	2.64E-08	1.17YrCanc	2.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2064	ALL	378453	3745679	4.95E-08	1.17YrCanc	4.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2065	ALL	378953	3745679	5.80E-08	1.17YrCanc	5.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2066	ALL	379453	3745679	6.45E-08	1.17YrCanc	6.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2067	ALL	379953	3745679	6.59E-08	1.17YrCanc	6.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2068	ALL	380453	3745679	7.51E-08	1.17YrCanc	7.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2069	ALL	380953	3745679	8.62E-08	1.17YrCanc	8.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2070	ALL	385953	3745679	9.31E-08	1.17YrCanc	9.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2071	ALL	386453	3745679	7.54E-08	1.17YrCanc	7.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2072	ALL	386953	3745679	6.15E-08	1.17YrCanc	6.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2073	ALL	387453	3745679	4.88E-08	1.17YrCanc	4.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2074	ALL	387953	3745679	3.69E-08	1.17YrCanc	3.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2075	ALL	388453	3745679	2.35E-08	1.17YrCanc	2.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2076	ALL	388953	3745679	3.18E-08	1.17YrCanc	3.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2077	ALL	378453	3746179	4.62E-08	1.17YrCanc	4.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2078	ALL	378953	3746179	5.05E-08	1.17YrCanc	5.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2079	ALL	379453	3746179	5.34E-08	1.17YrCanc	5.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2080	ALL	379953	3746179	5.62E-08	1.17YrCanc	5.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2081	ALL	380453	3746179	6.19E-08	1.17YrCanc	6.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2082	ALL	380953	3746179	7.09E-08	1.17YrCanc	7.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2083	ALL	381453	3746179	8.30E-08	1.17YrCanc	8.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2084	ALL	381953	3746179	9.75E-08	1.17YrCanc	9.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2085	ALL	382453	3746179	1.13E-07	1.17YrCanc	1.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2086	ALL	382953	3746179	1.28E-07	1.17YrCanc	1.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2087	ALL	383453	3746179	1.42E-07	1.17YrCanc	1.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2088	ALL	383953	3746179	1.49E-07	1.17YrCanc	1.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2089	ALL	384453	3746179	1.37E-07	1.17YrCanc	1.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2090	ALL	384953	3746179	1.14E-07	1.17YrCanc	1.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2091	ALL	385453	3746179	9.42E-08	1.17YrCanc	9.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2092	ALL	385953	3746179	6.04E-08	1.17YrCanc	6.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

2093	ALL	386453	3746179	4.97E-08	1.17YrCanc	4.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2094	ALL	386953	3746179	4.20E-08	1.17YrCanc	4.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2095	ALL	387453	3746179	3.91E-08	1.17YrCanc	3.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2096	ALL	387953	3746179	4.06E-08	1.17YrCanc	4.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2097	ALL	388453	3746179	2.74E-08	1.17YrCanc	2.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2098	ALL	388953	3746179	2.34E-08	1.17YrCanc	2.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2099	ALL	378453	3746679	3.93E-08	1.17YrCanc	3.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2100	ALL	378953	3746679	4.06E-08	1.17YrCanc	4.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2101	ALL	379453	3746679	4.29E-08	1.17YrCanc	4.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2102	ALL	379953	3746679	4.71E-08	1.17YrCanc	4.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2103	ALL	380453	3746679	5.31E-08	1.17YrCanc	5.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2104	ALL	380953	3746679	6.05E-08	1.17YrCanc	6.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2105	ALL	381453	3746679	7.22E-08	1.17YrCanc	7.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2106	ALL	381953	3746679	7.85E-08	1.17YrCanc	7.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2107	ALL	382453	3746679	8.78E-08	1.17YrCanc	8.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2108	ALL	382953	3746679	9.66E-08	1.17YrCanc	9.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2109	ALL	383453	3746679	1.05E-07	1.17YrCanc	1.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2110	ALL	383953	3746679	1.09E-07	1.17YrCanc	1.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2111	ALL	384453	3746679	1.03E-07	1.17YrCanc	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2112	ALL	384953	3746679	6.74E-08	1.17YrCanc	6.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2113	ALL	385453	3746679	4.38E-08	1.17YrCanc	4.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2114	ALL	385953	3746679	3.22E-08	1.17YrCanc	3.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2115	ALL	386453	3746679	2.27E-08	1.17YrCanc	2.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2116	ALL	386953	3746679	1.88E-08	1.17YrCanc	1.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2117	ALL	387453	3746679	3.12E-08	1.17YrCanc	3.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2118	ALL	387953	3746679	2.80E-08	1.17YrCanc	2.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2119	ALL	388453	3746679	2.45E-08	1.17YrCanc	2.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2120	ALL	388953	3746679	2.91E-08	1.17YrCanc	2.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2121	ALL	378453	3747179	3.21E-08	1.17YrCanc	3.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2122	ALL	378953	3747179	3.42E-08	1.17YrCanc	3.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2123	ALL	379453	3747179	3.75E-08	1.17YrCanc	3.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2124	ALL	379953	3747179	4.21E-08	1.17YrCanc	4.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2125	ALL	380453	3747179	4.72E-08	1.17YrCanc	4.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2126	ALL	380953	3747179	5.44E-08	1.17YrCanc	5.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2127	ALL	381453	3747179	5.81E-08	1.17YrCanc	5.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2128	ALL	381953	3747179	6.43E-08	1.17YrCanc	6.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2129	ALL	382453	3747179	7.04E-08	1.17YrCanc	7.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2130	ALL	382953	3747179	7.60E-08	1.17YrCanc	7.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2131	ALL	383453	3747179	8.11E-08	1.17YrCanc	8.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2132	ALL	383953	3747179	7.55E-08	1.17YrCanc	7.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2133	ALL	384453	3747179	6.39E-08	1.17YrCanc	6.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2134	ALL	384953	3747179	4.44E-08	1.17YrCanc	4.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2135	ALL	385453	3747179	3.21E-08	1.17YrCanc	3.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2136	ALL	385953	3747179	2.34E-08	1.17YrCanc	2.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2137	ALL	386453	3747179	1.94E-08	1.17YrCanc	1.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2138	ALL	386953	3747179	1.75E-08	1.17YrCanc	1.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2139	ALL	387453	3747179	2.73E-08	1.17YrCanc	2.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2140	ALL	387953	3747179	2.46E-08	1.17YrCanc	2.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2141	ALL	388453	3747179	2.22E-08	1.17YrCanc	2.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2142	ALL	388953	3747179	1.96E-08	1.17YrCanc	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2143	ALL	378453	3747679	2.82E-08	1.17YrCanc	2.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2144	ALL	378953	3747679	3.09E-08	1.17YrCanc	3.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2145	ALL	379453	3747679	3.42E-08	1.17YrCanc	3.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2146	ALL	379953	3747679	3.81E-08	1.17YrCanc	3.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2147	ALL	380453	3747679	4.19E-08	1.17YrCanc	4.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2148	ALL	380953	3747679	4.65E-08	1.17YrCanc	4.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2149	ALL	381453	3747679	4.95E-08	1.17YrCanc	4.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2150	ALL	381953	3747679	5.37E-08	1.17YrCanc	5.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2151	ALL	382453	3747679	5.79E-08	1.17YrCanc	5.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2152	ALL	382953	3747679	6.16E-08	1.17YrCanc	6.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2153	ALL	383453	3747679	5.93E-08	1.17YrCanc	5.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2154	ALL	383953	3747679	5.63E-08	1.17YrCanc	5.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2155	ALL	384453	3747679	4.82E-08	1.17YrCanc	4.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2156	ALL	384953	3747679	4.02E-08	1.17YrCanc	4.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2157	ALL	385453	3747679	2.82E-08	1.17YrCanc	2.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2158	ALL	385953	3747679	2.20E-08	1.17YrCanc	2.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2159	ALL	386453	3747679	1.89E-08	1.17YrCanc	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2160	ALL	386953	3747679	1.97E-08	1.17YrCanc	1.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2161	ALL	387453	3747679	2.36E-08	1.17YrCanc	2.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2162	ALL	387953	3747679	2.18E-08	1.17YrCanc	2.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2163	ALL	388453	3747679	1.98E-08	1.17YrCanc	1.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2164	ALL	388953	3747679	1.76E-08	1.17YrCanc	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2165	ALL	378453	3748179	2.59E-08	1.17YrCanc	2.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2166	ALL	378953	3748179	2.84E-08	1.17YrCanc	2.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2167	ALL	379453	3748179	3.12E-08	1.17YrCanc	3.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2168	ALL	379953	3748179	3.44E-08	1.17YrCanc	3.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2169	ALL	380453	3748179	3.63E-08	1.17YrCanc	3.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2170	ALL	380953	3748179	3.94E-08	1.17YrCanc	3.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2171	ALL	381453	3748179	4.25E-08	1.17YrCanc	4.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2172	ALL	381953	3748179	4.56E-08	1.17YrCanc	4.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2173	ALL	382453	3748179	4.85E-08	1.17YrCanc	4.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2174	ALL	382953	3748179	5.02E-08	1.17YrCanc	5.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2175	ALL	383453	3748179	4.84E-08	1.17YrCanc	4.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2176	ALL	383953	3748179	4.63E-08	1.17YrCanc	4.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2177	ALL	384453	3748179	4.07E-08	1.17YrCanc	4.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2178	ALL	384953	3748179	3.39E-08	1.17YrCanc	3.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2179	ALL	385453	3748179	2.75E-08	1.17YrCanc	2.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2180	ALL	385953	3748179	2.26E-08	1.17YrCanc	2.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2181	ALL	386453	3748179	1.99E-08	1.17YrCanc	1.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2182	ALL	386953	3748179	1.89E-08	1.17YrCanc	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2183	ALL	387453	3748179	1.92E-08	1.17YrCanc	1.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

2184	ALL	387953	3748179	1.93E-08	1.17YrCanc	1.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2185	ALL	388453	3748179	1.79E-08	1.17YrCanc	1.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2186	ALL	388953	3748179	1.60E-08	1.17YrCanc	1.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2187	ALL	378453	3748679	2.40E-08	1.17YrCanc	2.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2188	ALL	378953	3748679	2.56E-08	1.17YrCanc	2.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2189	ALL	379453	3748679	2.77E-08	1.17YrCanc	2.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2190	ALL	379953	3748679	3.00E-08	1.17YrCanc	3.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2191	ALL	380453	3748679	3.23E-08	1.17YrCanc	3.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2192	ALL	380953	3748679	3.58E-08	1.17YrCanc	3.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2193	ALL	381453	3748679	3.70E-08	1.17YrCanc	3.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2194	ALL	381953	3748679	3.93E-08	1.17YrCanc	3.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2195	ALL	382453	3748679	4.14E-08	1.17YrCanc	4.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2196	ALL	382953	3748679	4.26E-08	1.17YrCanc	4.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2197	ALL	383453	3748679	4.15E-08	1.17YrCanc	4.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2198	ALL	383953	3748679	4.02E-08	1.17YrCanc	4.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2199	ALL	384453	3748679	3.63E-08	1.17YrCanc	3.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2200	ALL	384953	3748679	3.25E-08	1.17YrCanc	3.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2201	ALL	385453	3748679	2.71E-08	1.17YrCanc	2.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2202	ALL	385953	3748679	2.40E-08	1.17YrCanc	2.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2203	ALL	386453	3748679	2.06E-08	1.17YrCanc	2.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2204	ALL	386953	3748679	1.93E-08	1.17YrCanc	1.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2205	ALL	387453	3748679	1.91E-08	1.17YrCanc	1.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2206	ALL	387953	3748679	1.74E-08	1.17YrCanc	1.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2207	ALL	388453	3748679	1.61E-08	1.17YrCanc	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2208	ALL	388953	3748679	1.24E-08	1.17YrCanc	1.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE\	RESP	SKIN	EYE	BONE/TEET	ENDO	BLOOD	ODOR	GENERAL	MAXHI
1	ALL		383453	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.59E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.59E-03
2	ALL		383473	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.69E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.69E-03
3	ALL		383493	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-02
4	ALL		383513	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-02
5	ALL		383533	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-02
6	ALL		383553	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-02
7	ALL		383573	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-02
8	ALL		383593	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-02
9	ALL		383613	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-02
10	ALL		383453	3743699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.43E-03
11	ALL		383473	3743699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.78E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.78E-03
12	ALL		383493	3743699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-02
13	ALL		383513	3743699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-02
14	ALL		383533	3743699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-02
15	ALL		383553	3743699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-02
16	ALL		383573	3743699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-02
17	ALL		383593	3743699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-02
18	ALL		383613	3743699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-02
19	ALL		383453	3743719	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.49E-03
20	ALL		383473	3743719	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-02
21	ALL		383493	3743719	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-02
22	ALL		383513	3743719	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-02
23	ALL		383533	3743719	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-02
24	ALL		383553	3743719	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-02
25	ALL		383573	3743719	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-02
26	ALL		383593	3743719	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-02
27	ALL		383613	3743719	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-02
28	ALL		383453	3743739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-02
29	ALL		383473	3743739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-02
30	ALL		383493	3743739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-02
31	ALL		383513	3743739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-02
32	ALL		383533	3743739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-02
33	ALL		383553	3743739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-02
34	ALL		383573	3743739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-02
35	ALL		383593	3743739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-02
36	ALL		383613	3743739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.37E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.37E-02
37	ALL		383453	3743759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-02
38	ALL		383473	3743759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-02
39	ALL		383493	3743759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-02
40	ALL		383513	3743759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-02
41	ALL		383533	3743759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-02
42	ALL		383553	3743759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-02
43	ALL		383573	3743759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-02
44	ALL		383593	3743759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-02
45	ALL		383613	3743759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.81E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.81E-02
46	ALL		383793	3743799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-02
47	ALL		383813	3743799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-02
48	ALL		383833	3743799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-02
49	ALL		383253	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-03
50	ALL		383273	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-03
51	ALL		383293	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-03
52	ALL		383313	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-03
53	ALL		383333	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-03
54	ALL		383353	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-03
55	ALL		383373	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-03
56	ALL		383393	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-03
57	ALL		383413	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-03
58	ALL		383433	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-03
59	ALL		383453	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-03
60	ALL		383473	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-03
61	ALL		383493	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-03
62	ALL		383513	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-03
63	ALL		383533	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-03
64	ALL		383553	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-03
65	ALL		383573	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-03
66	ALL		383593	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-03
67	ALL		383613	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E-03
68	ALL		383693	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-03
69	ALL		383713	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.37E-03
70	ALL		383733	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.62E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.62E-03
71	ALL		383753	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.86E-03
72	ALL		383773	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E-03
73	ALL		383793	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.33E-03
74	ALL		383813	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-03
75	ALL		383833	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-03
76	ALL		383853	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.86E-03
77	ALL		383873	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.96E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.96E-03
78	ALL		383893	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.00E-03
79	ALL		383913	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.00E-03
80	ALL		383933	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.94E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.94E-03
81	ALL		383953	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.82E-03
82	ALL		383973	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-03
83	ALL		383993	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-03
84	ALL		384013	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.17E-03
85	ALL		384033	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-03
86	ALL		383253	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-03
87	ALL		383273	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-03
88	ALL		383293	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-03
89	ALL		383313	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-03
90	ALL		383333	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-03
91	ALL		383353	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-03
92	ALL		383373	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-03
93	ALL		383393	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-03
94	ALL		383413	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-03
95	ALL		383433	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-03
96	ALL		383453	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-03
97	ALL		383473	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-03
98	ALL		383493	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-03

99	ALL	383513	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-03
100	ALL	383533	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-03
101	ALL	383553	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E-03
102	ALL	383573	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-03
103	ALL	383593	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-03
104	ALL	383613	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-03
105	ALL	383693	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.03E-03
106	ALL	383713	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.35E-03
107	ALL	383733	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-03
108	ALL	383753	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.97E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.97E-03
109	ALL	383773	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.26E-03
110	ALL	383793	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.53E-03
111	ALL	383813	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.76E-03
112	ALL	383833	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.94E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.94E-03
113	ALL	383853	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.07E-03
114	ALL	383873	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.13E-03
115	ALL	383893	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.13E-03
116	ALL	383913	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.04E-03
117	ALL	383933	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.89E-03
118	ALL	383953	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.67E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.67E-03
119	ALL	383973	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-03
120	ALL	383993	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.07E-03
121	ALL	384013	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.71E-03
122	ALL	384033	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.33E-03
123	ALL	383253	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-03
124	ALL	383273	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-03
125	ALL	383293	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-03
126	ALL	383313	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-03
127	ALL	383333	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-03
128	ALL	383353	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-03
129	ALL	383373	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-03
130	ALL	383393	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-03
131	ALL	383413	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-03
132	ALL	383433	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-03
133	ALL	383453	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-03
134	ALL	383473	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-03
135	ALL	383493	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-03
136	ALL	383513	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-03
137	ALL	383533	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-03
138	ALL	383553	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.35E-03
139	ALL	383573	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-03
140	ALL	383593	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.12E-03
141	ALL	383613	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-03
142	ALL	383693	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.20E-03
143	ALL	383713	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.60E-03
144	ALL	383733	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-03
145	ALL	383753	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.38E-03
146	ALL	383773	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.73E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.73E-03
147	ALL	383793	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-02
148	ALL	383813	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-02
149	ALL	383833	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-02
150	ALL	383853	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-02
151	ALL	383873	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-02
152	ALL	383893	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-02
153	ALL	383913	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-02
154	ALL	383933	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-03
155	ALL	383953	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.58E-03
156	ALL	383973	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-03
157	ALL	383993	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.72E-03
158	ALL	384013	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.24E-03
159	ALL	384033	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.75E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.75E-03
160	ALL	383253	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-03
161	ALL	383273	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-03
162	ALL	383293	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-03
163	ALL	383313	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-03
164	ALL	383333	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-03
165	ALL	383353	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-03
166	ALL	383373	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-03
167	ALL	383393	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-03
168	ALL	383413	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-03
169	ALL	383433	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-03
170	ALL	383453	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-03
171	ALL	383473	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-03
172	ALL	383493	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-03
173	ALL	383513	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-03
174	ALL	383533	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-03
175	ALL	383553	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.01E-03
176	ALL	383573	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.49E-03
177	ALL	383593	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.99E-03
178	ALL	383613	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.51E-03
179	ALL	383693	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.70E-03
180	ALL	383713	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-02
181	ALL	383733	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-02
182	ALL	383753	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-02
183	ALL	383773	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-02
184	ALL	383793	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-02
185	ALL	383813	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-02
186	ALL	383833	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-02
187	ALL	383853	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-02
188	ALL	383873	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-02
189	ALL	383893	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-02
190	ALL	383913	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-02
191	ALL	383933	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-02
192	ALL	383953	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-02
193	ALL	383973	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.94E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.94E-03
194	ALL	383993	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.33E-03
195	ALL	384013	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.72E-03
196	ALL	384033	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.10E-03
197	ALL	383253	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-03

198	ALL	383273	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-03
199	ALL	383293	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-03
200	ALL	383313	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-03
201	ALL	383333	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-03
202	ALL	383353	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-03
203	ALL	383373	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-03
204	ALL	383393	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-03
205	ALL	383413	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-03
206	ALL	383433	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-03
207	ALL	383453	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-03
208	ALL	383473	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-03
209	ALL	383493	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-03
210	ALL	383513	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-03
211	ALL	383533	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-03
212	ALL	383553	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-03
213	ALL	383573	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-03
214	ALL	383593	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.06E-03
215	ALL	383613	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.76E-03
216	ALL	383693	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-02
217	ALL	383713	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-02
218	ALL	383733	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-02
219	ALL	383753	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-02
220	ALL	383773	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-02
221	ALL	383793	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-02
222	ALL	383813	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-02
223	ALL	383833	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-02
224	ALL	383853	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-02
225	ALL	383873	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-02
226	ALL	383893	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-02
227	ALL	383913	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-02
228	ALL	383933	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-02
229	ALL	383953	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-02
230	ALL	383973	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-02
231	ALL	383993	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.87E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.87E-03
232	ALL	384013	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.10E-03
233	ALL	384033	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.37E-03
234	ALL	383253	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-03
235	ALL	383273	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-03
236	ALL	383293	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-03
237	ALL	383313	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-03
238	ALL	383333	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-03
239	ALL	383353	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-03
240	ALL	383373	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-03
241	ALL	383393	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-03
242	ALL	383413	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-03
243	ALL	383433	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-03
244	ALL	383453	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-03
245	ALL	383473	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-03
246	ALL	383493	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-03
247	ALL	383513	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.37E-03
248	ALL	383533	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.02E-03
249	ALL	383553	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.74E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.74E-03
250	ALL	383573	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.54E-03
251	ALL	383593	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.41E-03
252	ALL	383613	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-02
253	ALL	383693	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-02
254	ALL	383713	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-02
255	ALL	383733	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-02
256	ALL	383753	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-02
257	ALL	383773	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-02
258	ALL	383793	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-02
259	ALL	383813	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-02
260	ALL	383833	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-02
261	ALL	383853	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-02
262	ALL	383873	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-02
263	ALL	383893	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-02
264	ALL	383913	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-02
265	ALL	383933	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-02
266	ALL	383953	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-02
267	ALL	383973	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-02
268	ALL	383993	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-02
269	ALL	384013	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.40E-03
270	ALL	384033	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.54E-03
271	ALL	383253	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-03
272	ALL	383273	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-03
273	ALL	383293	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-03
274	ALL	383313	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-03
275	ALL	383333	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-03
276	ALL	383353	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-03
277	ALL	383373	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-03
278	ALL	383393	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-03
279	ALL	383413	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-03
280	ALL	383433	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-03
281	ALL	383453	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-03
282	ALL	383473	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-03
283	ALL	383493	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.42E-03
284	ALL	383513	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.13E-03
285	ALL	383533	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.94E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.94E-03
286	ALL	383553	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.87E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.87E-03
287	ALL	383573	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-03
288	ALL	383593	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-02
289	ALL	383613	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-02
290	ALL	383693	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-02
291	ALL	383713	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-02
292	ALL	383733	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-02
293	ALL	383753	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-02
294	ALL	383773	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-02
295	ALL	383793	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-02
296	ALL	383813	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-02

297	ALL	383833	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-02
298	ALL	383853	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-02
299	ALL	383873	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-02
300	ALL	383893	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-02
301	ALL	383913	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-02
302	ALL	383933	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-02
303	ALL	383953	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-02
304	ALL	383973	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-02
305	ALL	383993	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-02
306	ALL	384013	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.56E-03
307	ALL	384033	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.58E-03
308	ALL	383253	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-03
309	ALL	383273	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-03
310	ALL	383293	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-03
311	ALL	383313	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-03
312	ALL	383333	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-03
313	ALL	383353	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-03
314	ALL	383373	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-03
315	ALL	383393	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-03
316	ALL	383413	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-03
317	ALL	383433	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-03
318	ALL	383453	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-03
319	ALL	383473	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-03
320	ALL	383493	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.13E-03
321	ALL	383513	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.01E-03
322	ALL	383533	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.03E-03
323	ALL	383553	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-02
324	ALL	383573	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-02
325	ALL	383593	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-02
326	ALL	383613	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-02
327	ALL	383693	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-02
328	ALL	383713	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-02
329	ALL	383733	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-02
330	ALL	383753	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-02
331	ALL	383773	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-02
332	ALL	383793	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-02
333	ALL	383813	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-02
334	ALL	383833	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-02
335	ALL	383853	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-02
336	ALL	383873	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-02
337	ALL	383893	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-02
338	ALL	383913	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-02
339	ALL	383933	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-02
340	ALL	383953	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-02
341	ALL	383973	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-02
342	ALL	383993	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-02
343	ALL	384013	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.54E-03
344	ALL	384033	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.47E-03
345	ALL	383253	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-03
346	ALL	383273	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-03
347	ALL	383293	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-03
348	ALL	383313	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-03
349	ALL	383333	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-03
350	ALL	383353	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-03
351	ALL	383373	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-03
352	ALL	383393	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-03
353	ALL	383413	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-03
354	ALL	383433	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-03
355	ALL	383453	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-03
356	ALL	383473	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.05E-03
357	ALL	383493	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.94E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.94E-03
358	ALL	383513	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.02E-03
359	ALL	383533	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-02
360	ALL	383553	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-02
361	ALL	383573	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-02
362	ALL	383593	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-02
363	ALL	383613	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-02
364	ALL	383693	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-02
365	ALL	383713	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-02
366	ALL	383733	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-02
367	ALL	383753	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-02
368	ALL	383773	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-02
369	ALL	383793	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-02
370	ALL	383813	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-02
371	ALL	383833	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-02
372	ALL	383853	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-02
373	ALL	383873	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-02
374	ALL	383893	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-02
375	ALL	383913	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-02
376	ALL	383933	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-02
377	ALL	383953	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-02
378	ALL	383973	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-02
379	ALL	383993	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-02
380	ALL	384013	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.34E-03
381	ALL	384033	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.21E-03
382	ALL	383253	3743659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-03
383	ALL	383273	3743659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-03
384	ALL	383293	3743659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-03
385	ALL	383313	3743659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-03
386	ALL	383333	3743659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-03
387	ALL	383353	3743659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-03
388	ALL	383373	3743659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-03
389	ALL	383393	3743659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.90E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.90E-03
390	ALL	383413	3743659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-03
391	ALL	383433	3743659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-03
392	ALL	383453	3743659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.89E-03
393	ALL	383473	3743659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.81E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.81E-03
394	ALL	383493	3743659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.89E-03
395	ALL	383513	3743659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-02

396	ALL	383533	3743659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-02
397	ALL	383553	3743659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-02
398	ALL	383573	3743659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-02
399	ALL	383593	3743659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-02
400	ALL	383613	3743659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-02
401	ALL	383893	3743659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-02
402	ALL	383913	3743659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-02
403	ALL	383933	3743659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-02
404	ALL	383953	3743659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-02
405	ALL	383973	3743659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-02
406	ALL	383993	3743659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-02
407	ALL	384013	3743659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.96E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.96E-03
408	ALL	384033	3743659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.82E-03
409	ALL	383253	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-03
410	ALL	383273	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-03
411	ALL	383293	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-03
412	ALL	383313	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-03
413	ALL	383333	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-03
414	ALL	383353	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-03
415	ALL	383373	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-03
416	ALL	383393	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-03
417	ALL	383413	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.89E-03
418	ALL	383433	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.67E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.67E-03
419	ALL	383893	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-02
420	ALL	383913	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-02
421	ALL	383933	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-02
422	ALL	383953	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-02
423	ALL	383973	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-02
424	ALL	383993	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.77E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.77E-03
425	ALL	384013	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.41E-03
426	ALL	384033	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-03
427	ALL	383253	3743699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-03
428	ALL	383273	3743699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-03
429	ALL	383293	3743699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-03
430	ALL	383313	3743699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-03
431	ALL	383333	3743699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-03
432	ALL	383353	3743699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-03
433	ALL	383373	3743699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-03
434	ALL	383393	3743699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-03
435	ALL	383413	3743699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.37E-03
436	ALL	383433	3743699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.30E-03
437	ALL	383893	3743699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-02
438	ALL	383913	3743699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-02
439	ALL	383933	3743699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-02
440	ALL	383953	3743699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-02
441	ALL	383973	3743699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-02
442	ALL	383993	3743699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.03E-03
443	ALL	384013	3743699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.76E-03
444	ALL	384033	3743699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.75E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.75E-03
445	ALL	383253	3743719	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-03
446	ALL	383273	3743719	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-03
447	ALL	383293	3743719	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-03
448	ALL	383313	3743719	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-03
449	ALL	383333	3743719	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-03
450	ALL	383353	3743719	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-03
451	ALL	383373	3743719	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-03
452	ALL	383393	3743719	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E-03
453	ALL	383413	3743719	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.92E-03
454	ALL	383433	3743719	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.06E-03
455	ALL	383893	3743719	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-02
456	ALL	383913	3743719	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-02
457	ALL	383933	3743719	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-02
458	ALL	383953	3743719	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-02
459	ALL	383973	3743719	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.67E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.67E-03
460	ALL	383993	3743719	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.21E-03
461	ALL	384013	3743719	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.07E-03
462	ALL	384033	3743719	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.17E-03
463	ALL	383253	3743739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-03
464	ALL	383273	3743739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-03
465	ALL	383293	3743739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-03
466	ALL	383313	3743739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-03
467	ALL	383333	3743739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-03
468	ALL	383353	3743739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-03
469	ALL	383373	3743739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.52E-03
470	ALL	383393	3743739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.38E-03
471	ALL	383413	3743739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.51E-03
472	ALL	383433	3743739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-03
473	ALL	383893	3743739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-02
474	ALL	383913	3743739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-02
475	ALL	383933	3743739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-02
476	ALL	383953	3743739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-02
477	ALL	383973	3743739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.65E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.65E-03
478	ALL	383993	3743739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.39E-03
479	ALL	384013	3743739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.42E-03
480	ALL	384033	3743739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-03
481	ALL	383253	3743759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-03
482	ALL	383273	3743759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-03
483	ALL	383293	3743759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-03
484	ALL	383313	3743759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-03
485	ALL	383333	3743759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-03
486	ALL	383353	3743759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-03
487	ALL	383373	3743759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.75E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.75E-03
488	ALL	383393	3743759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.74E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.74E-03
489	ALL	383413	3743759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.11E-03
490	ALL	383433	3743759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-02
491	ALL	383893	3743759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-02
492	ALL	383913	3743759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-02
493	ALL	383933	3743759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-02
494	ALL	383953	3743759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.06E-03

495	ALL	383973	3743759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.71E-03
496	ALL	383993	3743759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.66E-03
497	ALL	384013	3743759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-03
498	ALL	384033	3743759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.15E-03
499	ALL	383253	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-03
500	ALL	383893	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-02
501	ALL	383913	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-02
502	ALL	383933	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.52E-03
503	ALL	383953	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-03
504	ALL	383973	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.93E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.93E-03
505	ALL	383993	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-03
506	ALL	384013	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-03
507	ALL	384033	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-03
508	ALL	383253	3743799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-03
509	ALL	383853	3743799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-02
510	ALL	383873	3743799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-02
511	ALL	383893	3743799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-02
512	ALL	383913	3743799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-02
513	ALL	383933	3743799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.51E-03
514	ALL	383953	3743799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-03
515	ALL	383973	3743799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.31E-03
516	ALL	383993	3743799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-03
517	ALL	384013	3743799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E-03
518	ALL	384033	3743799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.39E-03
519	ALL	383253	3743819	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-03
520	ALL	383793	3743819	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-02
521	ALL	383813	3743819	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-02
522	ALL	383833	3743819	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-02
523	ALL	383853	3743819	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-02
524	ALL	383873	3743819	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-02
525	ALL	383893	3743819	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-02
526	ALL	383913	3743819	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.12E-03
527	ALL	383933	3743819	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.73E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.73E-03
528	ALL	383953	3743819	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.67E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.67E-03
529	ALL	383973	3743819	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-03
530	ALL	383993	3743819	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-03
531	ALL	384013	3743819	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-03
532	ALL	384033	3743819	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-03
533	ALL	383253	3743839	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-03
534	ALL	383793	3743839	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-02
535	ALL	383813	3743839	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-02
536	ALL	383833	3743839	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-02
537	ALL	383853	3743839	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-02
538	ALL	383873	3743839	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-02
539	ALL	383893	3743839	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.81E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.81E-03
540	ALL	383913	3743839	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.28E-03
541	ALL	383933	3743839	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E-03
542	ALL	383953	3743839	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.17E-03
543	ALL	383973	3743839	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E-03
544	ALL	383993	3743839	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-03
545	ALL	384013	3743839	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-03
546	ALL	383253	3743859	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-03
547	ALL	383793	3743859	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-02
548	ALL	383813	3743859	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-02
549	ALL	383833	3743859	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-02
550	ALL	383853	3743859	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-02
551	ALL	383873	3743859	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-02
552	ALL	383893	3743859	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.79E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.79E-03
553	ALL	383913	3743859	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-03
554	ALL	383933	3743859	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.54E-03
555	ALL	383953	3743859	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-03
556	ALL	383973	3743859	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.06E-03
557	ALL	383993	3743859	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-03
558	ALL	383253	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-03
559	ALL	383793	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-02
560	ALL	383813	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-02
561	ALL	383833	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-02
562	ALL	383853	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-02
563	ALL	383873	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.12E-03
564	ALL	383893	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.91E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.91E-03
565	ALL	383913	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.89E-03
566	ALL	383933	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-03
567	ALL	383953	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-03
568	ALL	383973	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-03
569	ALL	383253	3743899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-03
570	ALL	383773	3743899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-02
571	ALL	383793	3743899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-02
572	ALL	383813	3743899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-02
573	ALL	383833	3743899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-02
574	ALL	383853	3743899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.16E-03
575	ALL	383873	3743899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.11E-03
576	ALL	383893	3743899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.15E-03
577	ALL	383913	3743899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.31E-03
578	ALL	383933	3743899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.59E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.59E-03
579	ALL	383953	3743899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-03
580	ALL	383973	3743899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-03
581	ALL	383253	3743919	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-03
582	ALL	383773	3743919	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-02
583	ALL	383793	3743919	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-02
584	ALL	383813	3743919	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.73E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.73E-03
585	ALL	383833	3743919	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.92E-03
586	ALL	383853	3743919	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.07E-03
587	ALL	383873	3743919	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.24E-03
588	ALL	383893	3743919	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.47E-03
589	ALL	383913	3743919	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.78E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.78E-03
590	ALL	383933	3743919	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-03
591	ALL	383953	3743919	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-03
592	ALL	383253	3743939	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-03
593	ALL	383273	3743939	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-03

594	ALL	383293	3743939	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-03
595	ALL	383313	3743939	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-03
596	ALL	383333	3743939	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-03
597	ALL	383353	3743939	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-03
598	ALL	383373	3743939	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-03
599	ALL	383393	3743939	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-03
600	ALL	383413	3743939	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-03
601	ALL	383433	3743939	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-03
602	ALL	383453	3743939	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-03
603	ALL	383773	3743939	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.48E-03
604	ALL	383793	3743939	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.01E-03
605	ALL	383813	3743939	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.45E-03
606	ALL	383833	3743939	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-03
607	ALL	383853	3743939	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.16E-03
608	ALL	383873	3743939	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-03
609	ALL	383893	3743939	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-03
610	ALL	383913	3743939	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-03
611	ALL	383933	3743939	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E-03
612	ALL	383253	3743959	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-03
613	ALL	383273	3743959	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-03
614	ALL	383293	3743959	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-03
615	ALL	383313	3743959	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-03
616	ALL	383333	3743959	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-03
617	ALL	383353	3743959	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-03
618	ALL	383373	3743959	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-03
619	ALL	383393	3743959	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-03
620	ALL	383413	3743959	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-03
621	ALL	383433	3743959	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-03
622	ALL	383453	3743959	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-03
623	ALL	383773	3743959	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.21E-03
624	ALL	383793	3743959	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.85E-03
625	ALL	383813	3743959	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-03
626	ALL	383833	3743959	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.92E-03
627	ALL	383853	3743959	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.40E-03
628	ALL	383873	3743959	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E-03
629	ALL	383893	3743959	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.36E-03
630	ALL	383913	3743959	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.88E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.88E-03
631	ALL	383253	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-03
632	ALL	383273	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-03
633	ALL	383293	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-03
634	ALL	383313	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-03
635	ALL	383333	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-03
636	ALL	383353	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-03
637	ALL	383373	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-03
638	ALL	383393	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-03
639	ALL	383413	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-03
640	ALL	383433	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-03
641	ALL	383453	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-03
642	ALL	383773	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-03
643	ALL	383793	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.90E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.90E-03
644	ALL	383813	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-03
645	ALL	383833	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.17E-03
646	ALL	383853	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.75E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.75E-03
647	ALL	383873	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-03
648	ALL	383893	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.90E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.90E-03
649	ALL	383253	3743999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-03
650	ALL	383273	3743999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-03
651	ALL	383293	3743999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-03
652	ALL	383313	3743999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-03
653	ALL	383333	3743999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-03
654	ALL	383353	3743999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-03
655	ALL	383373	3743999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-03
656	ALL	383393	3743999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-03
657	ALL	383413	3743999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-03
658	ALL	383433	3743999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-03
659	ALL	383453	3743999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-03
660	ALL	383773	3743999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.34E-03
661	ALL	383793	3743999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.12E-03
662	ALL	383813	3743999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-03
663	ALL	383833	3743999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-03
664	ALL	383853	3743999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.20E-03
665	ALL	383873	3743999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-03
666	ALL	382953	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.37E-04
667	ALL	383003	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-04
668	ALL	383053	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.30E-04
669	ALL	383103	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-04
670	ALL	383153	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.53E-04
671	ALL	383203	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.56E-04
672	ALL	383253	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.54E-04
673	ALL	383303	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03
674	ALL	383353	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03
675	ALL	383403	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03
676	ALL	383453	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-03
677	ALL	383503	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03
678	ALL	383553	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03
679	ALL	383603	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03
680	ALL	383653	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-03
681	ALL	383703	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-03
682	ALL	383753	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-03
683	ALL	383803	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-03
684	ALL	383853	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-03
685	ALL	383903	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-03
686	ALL	383953	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-03
687	ALL	384003	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-03
688	ALL	384053	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-03
689	ALL	384103	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-03
690	ALL	384153	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-03
691	ALL	384203	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-03
692	ALL	384253	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-03

693	ALL	384303	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-03
694	ALL	384353	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-03
695	ALL	382953	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.78E-04
696	ALL	383003	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-04
697	ALL	383053	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.85E-04
698	ALL	383103	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.46E-04
699	ALL	383153	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.13E-04
700	ALL	383203	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.86E-04
701	ALL	383253	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03
702	ALL	383303	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03
703	ALL	383353	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03
704	ALL	383403	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03
705	ALL	383453	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-03
706	ALL	383503	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-03
707	ALL	383553	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-03
708	ALL	383603	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03
709	ALL	383653	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-03
710	ALL	383703	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-03
711	ALL	383753	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-03
712	ALL	383803	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-03
713	ALL	383853	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-03
714	ALL	383903	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-03
715	ALL	383953	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-03
716	ALL	384003	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-03
717	ALL	384053	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-03
718	ALL	384103	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-03
719	ALL	384153	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-03
720	ALL	384203	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-03
721	ALL	384253	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-03
722	ALL	384303	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-03
723	ALL	384353	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-03
724	ALL	382953	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.21E-04
725	ALL	383003	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E-04
726	ALL	383053	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.44E-04
727	ALL	383103	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.16E-04
728	ALL	383153	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.95E-04
729	ALL	383203	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03
730	ALL	383253	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03
731	ALL	383303	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03
732	ALL	383353	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03
733	ALL	383403	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03
734	ALL	383453	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03
735	ALL	383503	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-03
736	ALL	383553	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-03
737	ALL	383603	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-03
738	ALL	383653	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-03
739	ALL	383703	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-03
740	ALL	383753	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-03
741	ALL	383803	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-03
742	ALL	383853	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-03
743	ALL	383903	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-03
744	ALL	383953	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-03
745	ALL	384003	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-03
746	ALL	384053	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-03
747	ALL	384103	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-03
748	ALL	384153	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-03
749	ALL	384203	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-03
750	ALL	384253	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-03
751	ALL	384303	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-03
752	ALL	384353	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-03
753	ALL	382953	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-04
754	ALL	383003	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-04
755	ALL	383053	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.07E-04
756	ALL	383103	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.91E-04
757	ALL	383153	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03
758	ALL	383203	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03
759	ALL	383253	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03
760	ALL	383303	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03
761	ALL	383353	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-03
762	ALL	383403	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-03
763	ALL	383453	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-03
764	ALL	383503	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-03
765	ALL	383553	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-03
766	ALL	383603	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-03
767	ALL	383653	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-03
768	ALL	383703	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-03
769	ALL	383753	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-03
770	ALL	383803	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-03
771	ALL	383853	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-03
772	ALL	383903	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-03
773	ALL	383953	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-03
774	ALL	384003	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-03
775	ALL	384053	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-03
776	ALL	384103	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-03
777	ALL	384153	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-03
778	ALL	384203	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-03
779	ALL	384253	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-03
780	ALL	384303	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-03
781	ALL	384353	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-03
782	ALL	382953	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.12E-04
783	ALL	383003	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.88E-04
784	ALL	383053	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.74E-04
785	ALL	383103	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03
786	ALL	383153	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03
787	ALL	383203	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03
788	ALL	383253	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-03
789	ALL	383303	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-03
790	ALL	383353	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-03
791	ALL	383403	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-03

792	ALL	383453	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-03
793	ALL	383503	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-03
794	ALL	383553	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-03
795	ALL	383603	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-03
796	ALL	383653	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-03
797	ALL	383703	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-03
798	ALL	383753	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-03
799	ALL	383803	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-03
800	ALL	383853	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-03
801	ALL	383903	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-03
802	ALL	383953	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-03
803	ALL	384003	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-03
804	ALL	384053	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-03
805	ALL	384103	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-03
806	ALL	384153	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-03
807	ALL	384203	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-03
808	ALL	384253	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-03
809	ALL	384303	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-03
810	ALL	384353	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-03
811	ALL	382953	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.59E-04
812	ALL	383003	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.44E-04
813	ALL	383053	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03
814	ALL	383103	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03
815	ALL	383153	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03
816	ALL	383203	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03
817	ALL	383253	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-03
818	ALL	383303	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-03
819	ALL	383353	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-03
820	ALL	383403	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-03
821	ALL	383453	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-03
822	ALL	383503	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-03
823	ALL	383553	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-03
824	ALL	383603	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-03
825	ALL	383703	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-03
826	ALL	383753	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-03
827	ALL	383803	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-03
828	ALL	383853	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-03
829	ALL	383903	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.91E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.91E-03
830	ALL	383953	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E-03
831	ALL	384003	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-03
832	ALL	384053	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-03
833	ALL	384103	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-03
834	ALL	384153	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-03
835	ALL	384203	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-03
836	ALL	384253	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-03
837	ALL	384303	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-03
838	ALL	384353	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-03
839	ALL	382953	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.06E-04
840	ALL	383003	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03
841	ALL	383053	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03
842	ALL	383103	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03
843	ALL	383153	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03
844	ALL	383203	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-03
845	ALL	384053	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.57E-03
846	ALL	384103	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-03
847	ALL	384153	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-03
848	ALL	384203	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-03
849	ALL	384253	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-03
850	ALL	384303	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-03
851	ALL	384353	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-03
852	ALL	382953	3743529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.53E-04
853	ALL	383003	3743529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03
854	ALL	383053	3743529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03
855	ALL	383103	3743529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03
856	ALL	383153	3743529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03
857	ALL	383203	3743529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-03
858	ALL	384053	3743529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.39E-03
859	ALL	384103	3743529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.12E-03
860	ALL	384153	3743529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-03
861	ALL	384203	3743529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-03
862	ALL	384253	3743529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-03
863	ALL	384303	3743529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-03
864	ALL	384353	3743529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-03
865	ALL	382953	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03
866	ALL	383003	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03
867	ALL	383053	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03
868	ALL	383103	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-03
869	ALL	383153	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03
870	ALL	383203	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-03
871	ALL	384053	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.75E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.75E-03
872	ALL	384103	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.08E-03
873	ALL	384153	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-03
874	ALL	384203	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-03
875	ALL	384253	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-03
876	ALL	384303	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-03
877	ALL	384353	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-03
878	ALL	382953	3743629	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03
879	ALL	383003	3743629	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03
880	ALL	383053	3743629	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03
881	ALL	383103	3743629	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03
882	ALL	383153	3743629	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-03
883	ALL	383203	3743629	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-03
884	ALL	384053	3743629	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-03
885	ALL	384103	3743629	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-03
886	ALL	384153	3743629	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-03
887	ALL	384203	3743629	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-03
888	ALL	384253	3743629	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-03
889	ALL	384303	3743629	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-03
890	ALL	384353	3743629	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-03

891	ALL	382953	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03
892	ALL	383003	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03
893	ALL	383053	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03
894	ALL	383103	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-03
895	ALL	383153	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-03
896	ALL	383203	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-03
897	ALL	384053	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.41E-03
898	ALL	384103	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-03
899	ALL	384153	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-03
900	ALL	384203	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-03
901	ALL	384253	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-03
902	ALL	384303	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-03
903	ALL	384353	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-03
904	ALL	382953	3743729	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03
905	ALL	383003	3743729	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03
906	ALL	383053	3743729	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-03
907	ALL	383103	3743729	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-03
908	ALL	383153	3743729	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-03
909	ALL	383203	3743729	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-03
910	ALL	384053	3743729	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-03
911	ALL	384103	3743729	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-03
912	ALL	384153	3743729	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-03
913	ALL	384203	3743729	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-03
914	ALL	384253	3743729	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-03
915	ALL	384303	3743729	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-03
916	ALL	384353	3743729	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03
917	ALL	382953	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03
918	ALL	383003	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03
919	ALL	383053	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-03
920	ALL	383103	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-03
921	ALL	383153	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-03
922	ALL	383203	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-03
923	ALL	384053	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-03
924	ALL	384103	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-03
925	ALL	384153	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-03
926	ALL	384203	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-03
927	ALL	384253	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-03
928	ALL	384303	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03
929	ALL	384353	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03
930	ALL	382953	3743829	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03
931	ALL	383003	3743829	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03
932	ALL	383053	3743829	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03
933	ALL	383103	3743829	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-03
934	ALL	383153	3743829	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-03
935	ALL	383203	3743829	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-03
936	ALL	384153	3743829	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-03
937	ALL	384203	3743829	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-03
938	ALL	384253	3743829	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-03
939	ALL	384303	3743829	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03
940	ALL	384353	3743829	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03
941	ALL	382953	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03
942	ALL	383003	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03
943	ALL	383053	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-03
944	ALL	383103	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-03
945	ALL	383153	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-03
946	ALL	383203	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-03
947	ALL	384253	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-03
948	ALL	384303	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03
949	ALL	384353	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03
950	ALL	382953	3743929	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03
951	ALL	383003	3743929	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03
952	ALL	383053	3743929	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-03
953	ALL	383103	3743929	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-03
954	ALL	383153	3743929	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-03
955	ALL	383203	3743929	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-03
956	ALL	384253	3743929	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-03
957	ALL	384303	3743929	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03
958	ALL	384353	3743929	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03
959	ALL	382953	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03
960	ALL	383003	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03
961	ALL	383053	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-03
962	ALL	383103	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-03
963	ALL	383153	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-03
964	ALL	383203	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-03
965	ALL	384203	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-03
966	ALL	384253	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03
967	ALL	384303	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03
968	ALL	384353	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03
969	ALL	382953	3744029	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03
970	ALL	383003	3744029	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03
971	ALL	383053	3744029	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03
972	ALL	383103	3744029	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03
973	ALL	383153	3744029	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-03
974	ALL	383203	3744029	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-03
975	ALL	383253	3744029	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-03
976	ALL	383303	3744029	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-03
977	ALL	383353	3744029	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-03
978	ALL	383403	3744029	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-03
979	ALL	383453	3744029	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-03
980	ALL	384153	3744029	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-03
981	ALL	384203	3744029	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03
982	ALL	384253	3744029	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03
983	ALL	384303	3744029	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03
984	ALL	384353	3744029	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03
985	ALL	382953	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03
986	ALL	383003	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03
987	ALL	383053	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03
988	ALL	383103	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-03
989	ALL	383153	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03

990	ALL	383203	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-03
991	ALL	383253	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-03
992	ALL	383303	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-03
993	ALL	383353	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-03
994	ALL	383403	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-03
995	ALL	383453	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-03
996	ALL	384103	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-03
997	ALL	384153	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-03
998	ALL	384203	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03
999	ALL	384253	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03
1000	ALL	384303	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03
1001	ALL	384353	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.56E-04
1002	ALL	382953	3744129	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.39E-04
1003	ALL	383003	3744129	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03
1004	ALL	383053	3744129	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03
1005	ALL	383103	3744129	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03
1006	ALL	383153	3744129	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03
1007	ALL	383203	3744129	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-03
1008	ALL	383253	3744129	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-03
1009	ALL	383303	3744129	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-03
1010	ALL	383353	3744129	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-03
1011	ALL	383403	3744129	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-03
1012	ALL	383453	3744129	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-03
1013	ALL	384103	3744129	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-03
1014	ALL	384153	3744129	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03
1015	ALL	384203	3744129	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03
1016	ALL	384253	3744129	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03
1017	ALL	384303	3744129	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.99E-04
1018	ALL	384353	3744129	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.03E-04
1019	ALL	382953	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.72E-04
1020	ALL	383003	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.37E-04
1021	ALL	383053	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03
1022	ALL	383103	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03
1023	ALL	383153	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03
1024	ALL	383203	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03
1025	ALL	383253	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03
1026	ALL	383303	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-03
1027	ALL	383353	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-03
1028	ALL	383403	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-03
1029	ALL	383453	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-03
1030	ALL	384053	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-03
1031	ALL	384103	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-03
1032	ALL	384153	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03
1033	ALL	384203	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03
1034	ALL	384253	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03
1035	ALL	384303	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.37E-04
1036	ALL	384353	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.51E-04
1037	ALL	382953	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.08E-04
1038	ALL	383003	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.63E-04
1039	ALL	383053	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.25E-04
1040	ALL	383103	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-04
1041	ALL	383153	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03
1042	ALL	383203	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03
1043	ALL	383253	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-03
1044	ALL	383303	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03
1045	ALL	383353	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-03
1046	ALL	383403	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03
1047	ALL	383453	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-03
1048	ALL	383503	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-03
1049	ALL	383553	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-03
1050	ALL	383603	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-03
1051	ALL	383653	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-03
1052	ALL	383703	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-03
1053	ALL	383753	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-03
1054	ALL	383803	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-03
1055	ALL	383853	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-03
1056	ALL	383903	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-03
1057	ALL	383953	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-03
1058	ALL	384003	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-03
1059	ALL	384053	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03
1060	ALL	384103	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03
1061	ALL	384153	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03
1062	ALL	384203	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03
1063	ALL	384253	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.63E-04
1064	ALL	384303	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.77E-04
1065	ALL	384353	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-04
1066	ALL	382953	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E-04
1067	ALL	383003	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.96E-04
1068	ALL	383053	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.49E-04
1069	ALL	383103	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.07E-04
1070	ALL	383153	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.72E-04
1071	ALL	383203	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03
1072	ALL	383253	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03
1073	ALL	383303	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03
1074	ALL	383353	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03
1075	ALL	383403	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03
1076	ALL	383453	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-03
1077	ALL	383503	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-03
1078	ALL	383553	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03
1079	ALL	383603	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-03
1080	ALL	383653	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-03
1081	ALL	383703	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-03
1082	ALL	383753	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-03
1083	ALL	383803	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-03
1084	ALL	383853	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-03
1085	ALL	383903	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-03
1086	ALL	383953	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-03
1087	ALL	384003	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03
1088	ALL	384053	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03

1089	ALL	384103	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03
1090	ALL	384153	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03
1091	ALL	384203	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.82E-04
1092	ALL	384253	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.97E-04
1093	ALL	384303	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.22E-04
1094	ALL	384353	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-04
1095	ALL	382453	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04
1096	ALL	382553	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-04
1097	ALL	382653	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-04
1098	ALL	382753	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04
1099	ALL	382853	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04
1100	ALL	382953	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04
1101	ALL	383053	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-04
1102	ALL	383153	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-04
1103	ALL	383253	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-04
1104	ALL	383353	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-04
1105	ALL	383453	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-04
1106	ALL	383553	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-04
1107	ALL	383653	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.36E-04
1108	ALL	383753	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-04
1109	ALL	383853	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.89E-04
1110	ALL	383953	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.12E-04
1111	ALL	384053	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.31E-04
1112	ALL	384153	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-04
1113	ALL	384253	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.83E-04
1114	ALL	384353	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.01E-04
1115	ALL	384453	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.30E-04
1116	ALL	384553	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E-04
1117	ALL	384653	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.78E-04
1118	ALL	384753	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.87E-04
1119	ALL	384853	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.81E-04
1120	ALL	382453	3742779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04
1121	ALL	382553	3742779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04
1122	ALL	382653	3742779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-04
1123	ALL	382753	3742779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-04
1124	ALL	382853	3742779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-04
1125	ALL	382953	3742779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-04
1126	ALL	383053	3742779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-04
1127	ALL	383153	3742779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-04
1128	ALL	383253	3742779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-04
1129	ALL	383353	3742779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-04
1130	ALL	383453	3742779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-04
1131	ALL	383553	3742779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-04
1132	ALL	383653	3742779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.32E-04
1133	ALL	383753	3742779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.68E-04
1134	ALL	383853	3742779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.01E-04
1135	ALL	383953	3742779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.30E-04
1136	ALL	384053	3742779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.56E-04
1137	ALL	384153	3742779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.85E-04
1138	ALL	384253	3742779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-04
1139	ALL	384353	3742779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.55E-04
1140	ALL	384453	3742779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-04
1141	ALL	384553	3742779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-04
1142	ALL	384653	3742779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.27E-04
1143	ALL	384753	3742779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.16E-04
1144	ALL	384853	3742779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.87E-04
1145	ALL	382453	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04
1146	ALL	382553	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-04
1147	ALL	382653	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-04
1148	ALL	382753	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-04
1149	ALL	382853	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-04
1150	ALL	382953	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-04
1151	ALL	383053	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-04
1152	ALL	383153	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.06E-04
1153	ALL	383253	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-04
1154	ALL	383353	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.12E-04
1155	ALL	383453	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.66E-04
1156	ALL	383553	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.12E-04
1157	ALL	383653	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.60E-04
1158	ALL	383753	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.08E-04
1159	ALL	383853	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.52E-04
1160	ALL	383953	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-04
1161	ALL	384053	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.28E-04
1162	ALL	384153	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.70E-04
1163	ALL	384253	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03
1164	ALL	384353	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03
1165	ALL	384453	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03
1166	ALL	384553	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03
1167	ALL	384653	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03
1168	ALL	384753	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03
1169	ALL	384853	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.81E-04
1170	ALL	382453	3742979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-04
1171	ALL	382553	3742979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-04
1172	ALL	382653	3742979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-04
1173	ALL	382753	3742979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-04
1174	ALL	382853	3742979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-04
1175	ALL	382953	3742979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-04
1176	ALL	383053	3742979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.46E-04
1177	ALL	383153	3742979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.06E-04
1178	ALL	383253	3742979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.66E-04
1179	ALL	383353	3742979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.38E-04
1180	ALL	383453	3742979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.03E-04
1181	ALL	383553	3742979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-04
1182	ALL	383653	3742979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.35E-04
1183	ALL	383753	3742979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03
1184	ALL	383853	3742979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03
1185	ALL	383953	3742979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03
1186	ALL	384053	3742979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03
1187	ALL	384153	3742979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03

1188	ALL	384253	3742979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03
1189	ALL	384353	3742979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03
1190	ALL	384453	3742979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03
1191	ALL	384553	3742979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03
1192	ALL	384653	3742979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03
1193	ALL	384753	3742979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03
1194	ALL	384853	3742979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03
1195	ALL	382453	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-04
1196	ALL	382553	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-04
1197	ALL	382653	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-04
1198	ALL	382753	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-04
1199	ALL	382853	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-04
1200	ALL	382953	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-04
1201	ALL	383053	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.33E-04
1202	ALL	383153	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.14E-04
1203	ALL	383253	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-04
1204	ALL	383353	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.95E-04
1205	ALL	383453	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.90E-04
1206	ALL	383553	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03
1207	ALL	383653	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03
1208	ALL	383753	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03
1209	ALL	383853	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03
1210	ALL	383953	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03
1211	ALL	384053	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03
1212	ALL	384153	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03
1213	ALL	384253	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-03
1214	ALL	384353	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03
1215	ALL	384453	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-03
1216	ALL	384553	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03
1217	ALL	384653	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-03
1218	ALL	384753	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03
1219	ALL	384853	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03
1220	ALL	382453	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-04
1221	ALL	382553	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-04
1222	ALL	382653	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-04
1223	ALL	382753	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E-04
1224	ALL	382853	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-04
1225	ALL	384453	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-03
1226	ALL	384553	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-03
1227	ALL	384653	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-03
1228	ALL	384753	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03
1229	ALL	384853	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03
1230	ALL	382453	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-04
1231	ALL	382553	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-04
1232	ALL	382653	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-04
1233	ALL	382753	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-04
1234	ALL	382853	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.21E-04
1235	ALL	384453	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-03
1236	ALL	384553	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-03
1237	ALL	384653	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-03
1238	ALL	384753	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03
1239	ALL	384853	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.55E-04
1240	ALL	382453	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-04
1241	ALL	382553	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-04
1242	ALL	382653	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-04
1243	ALL	382753	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-04
1244	ALL	382853	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-04
1245	ALL	384453	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-03
1246	ALL	384553	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-03
1247	ALL	384653	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03
1248	ALL	384753	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03
1249	ALL	384853	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-04
1250	ALL	382453	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-04
1251	ALL	382553	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-04
1252	ALL	382653	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-04
1253	ALL	382753	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.35E-04
1254	ALL	382853	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.52E-04
1255	ALL	384453	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-03
1256	ALL	384553	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03
1257	ALL	384653	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03
1258	ALL	384753	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.07E-04
1259	ALL	384853	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-04
1260	ALL	382453	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-04
1261	ALL	382553	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-04
1262	ALL	382653	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-04
1263	ALL	382753	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.82E-04
1264	ALL	382853	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.17E-04
1265	ALL	384453	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-03
1266	ALL	384553	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03
1267	ALL	384653	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.60E-04
1268	ALL	384753	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.85E-04
1269	ALL	384853	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E-04
1270	ALL	382453	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-04
1271	ALL	382553	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-04
1272	ALL	382653	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E-04
1273	ALL	382753	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-04
1274	ALL	382853	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.79E-04
1275	ALL	384453	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03
1276	ALL	384553	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03
1277	ALL	384653	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-04
1278	ALL	384753	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.90E-04
1279	ALL	384853	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-04
1280	ALL	382453	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-04
1281	ALL	382553	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-04
1282	ALL	382653	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.42E-04
1283	ALL	382753	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-04
1284	ALL	382853	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.29E-04
1285	ALL	384453	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03
1286	ALL	384553	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.86E-04

1287	ALL	384653	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-04
1288	ALL	384753	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.16E-04
1289	ALL	384853	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-04
1290	ALL	382453	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.87E-04
1291	ALL	382553	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-04
1292	ALL	382653	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.57E-04
1293	ALL	382753	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.81E-04
1294	ALL	382853	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.47E-04
1295	ALL	384453	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.62E-04
1296	ALL	384553	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.86E-04
1297	ALL	384653	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.57E-04
1298	ALL	384753	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.59E-04
1299	ALL	384853	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-04
1300	ALL	382453	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.88E-04
1301	ALL	382553	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-04
1302	ALL	382653	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.52E-04
1303	ALL	382753	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.68E-04
1304	ALL	382853	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-04
1305	ALL	384453	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.63E-04
1306	ALL	384553	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.14E-04
1307	ALL	384653	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-04
1308	ALL	384753	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.15E-04
1309	ALL	384853	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-04
1310	ALL	382453	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-04
1311	ALL	382553	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-04
1312	ALL	382653	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.26E-04
1313	ALL	382753	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.26E-04
1314	ALL	382853	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-04
1315	ALL	384453	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.84E-04
1316	ALL	384553	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-04
1317	ALL	384653	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-04
1318	ALL	384753	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-04
1319	ALL	384853	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-04
1320	ALL	382453	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-04
1321	ALL	382553	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-04
1322	ALL	382653	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-04
1323	ALL	382753	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.63E-04
1324	ALL	382853	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E-04
1325	ALL	384453	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.12E-04
1326	ALL	384553	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-04
1327	ALL	384653	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-04
1328	ALL	384753	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-04
1329	ALL	384853	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-04
1330	ALL	382453	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-04
1331	ALL	382553	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-04
1332	ALL	382653	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.31E-04
1333	ALL	382753	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-04
1334	ALL	382853	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.64E-04
1335	ALL	384453	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.43E-04
1336	ALL	384553	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-04
1337	ALL	384653	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-04
1338	ALL	384753	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-04
1339	ALL	384853	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-04
1340	ALL	382453	3744379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-04
1341	ALL	382553	3744379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-04
1342	ALL	382653	3744379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-04
1343	ALL	382753	3744379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-04
1344	ALL	382853	3744379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-04
1345	ALL	382953	3744379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-04
1346	ALL	383053	3744379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-04
1347	ALL	383153	3744379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.15E-04
1348	ALL	383253	3744379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.24E-04
1349	ALL	383353	3744379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03
1350	ALL	383453	3744379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03
1351	ALL	383553	3744379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03
1352	ALL	383653	3744379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03
1353	ALL	383753	3744379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03
1354	ALL	383853	3744379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-03
1355	ALL	383953	3744379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-03
1356	ALL	384053	3744379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03
1357	ALL	384153	3744379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.15E-04
1358	ALL	384253	3744379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.80E-04
1359	ALL	384353	3744379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.69E-04
1360	ALL	384453	3744379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-04
1361	ALL	384553	3744379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.06E-04
1362	ALL	384653	3744379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-04
1363	ALL	384753	3744379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-04
1364	ALL	384853	3744379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-04
1365	ALL	382453	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-04
1366	ALL	382553	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-04
1367	ALL	382653	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-04
1368	ALL	382753	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-04
1369	ALL	382853	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-04
1370	ALL	382953	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-04
1371	ALL	383053	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-04
1372	ALL	383153	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-04
1373	ALL	383253	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.73E-04
1374	ALL	383353	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.59E-04
1375	ALL	383453	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.47E-04
1376	ALL	383553	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03
1377	ALL	383653	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03
1378	ALL	383753	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03
1379	ALL	383853	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03
1380	ALL	383953	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03
1381	ALL	384053	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.96E-04
1382	ALL	384153	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.82E-04
1383	ALL	384253	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-04
1384	ALL	384353	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-04
1385	ALL	384453	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-04

1386	ALL	384553	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-04
1387	ALL	384653	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-04
1388	ALL	384753	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-04
1389	ALL	384853	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-04
1390	ALL	382453	3744579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-04
1391	ALL	382553	3744579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-04
1392	ALL	382653	3744579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-04
1393	ALL	382753	3744579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-04
1394	ALL	382853	3744579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-04
1395	ALL	382953	3744579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-04
1396	ALL	383053	3744579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-04
1397	ALL	383153	3744579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.98E-04
1398	ALL	383253	3744579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-04
1399	ALL	383353	3744579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.17E-04
1400	ALL	383453	3744579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.77E-04
1401	ALL	383553	3744579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.34E-04
1402	ALL	383653	3744579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.72E-04
1403	ALL	383753	3744579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.98E-04
1404	ALL	383853	3744579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.82E-04
1405	ALL	383953	3744579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.30E-04
1406	ALL	384053	3744579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.56E-04
1407	ALL	384153	3744579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.74E-04
1408	ALL	384253	3744579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-04
1409	ALL	384353	3744579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-04
1410	ALL	384453	3744579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-04
1411	ALL	384553	3744579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-04
1412	ALL	384653	3744579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-04
1413	ALL	384753	3744579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-04
1414	ALL	384853	3744579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-04
1415	ALL	382453	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-04
1416	ALL	382553	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-04
1417	ALL	382653	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-04
1418	ALL	382753	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-04
1419	ALL	382853	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-04
1420	ALL	382953	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-04
1421	ALL	383053	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-04
1422	ALL	383153	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.20E-04
1423	ALL	383253	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-04
1424	ALL	383353	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-04
1425	ALL	383453	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-04
1426	ALL	383553	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-04
1427	ALL	383653	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.23E-04
1428	ALL	383753	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.38E-04
1429	ALL	383853	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-04
1430	ALL	383953	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.95E-04
1431	ALL	384053	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-04
1432	ALL	384153	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.86E-04
1433	ALL	384253	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-04
1434	ALL	384353	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-04
1435	ALL	384453	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-04
1436	ALL	384553	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-04
1437	ALL	384653	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-04
1438	ALL	384753	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-04
1439	ALL	384853	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-04
1440	ALL	382453	3744779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04
1441	ALL	382553	3744779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-04
1442	ALL	382653	3744779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-04
1443	ALL	382753	3744779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-04
1444	ALL	382853	3744779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-04
1445	ALL	382953	3744779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-04
1446	ALL	383053	3744779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-04
1447	ALL	383153	3744779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-04
1448	ALL	383253	3744779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.89E-04
1449	ALL	383353	3744779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-04
1450	ALL	383453	3744779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.53E-04
1451	ALL	383553	3744779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-04
1452	ALL	383653	3744779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-04
1453	ALL	383753	3744779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.18E-04
1454	ALL	383853	3744779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E-04
1455	ALL	383953	3744779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-04
1456	ALL	384053	3744779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-04
1457	ALL	384153	3744779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-04
1458	ALL	384253	3744779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-04
1459	ALL	384353	3744779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-04
1460	ALL	384453	3744779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-04
1461	ALL	384553	3744779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-04
1462	ALL	384653	3744779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-04
1463	ALL	384753	3744779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-04
1464	ALL	384853	3744779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04
1465	ALL	381453	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-05
1466	ALL	381653	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-05
1467	ALL	381853	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.61E-05
1468	ALL	382053	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.53E-05
1469	ALL	382253	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.31E-05
1470	ALL	382453	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04
1471	ALL	382653	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04
1472	ALL	382853	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04
1473	ALL	383053	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04
1474	ALL	383253	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04
1475	ALL	383453	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04
1476	ALL	383653	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04
1477	ALL	383853	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04
1478	ALL	384053	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04
1479	ALL	384253	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04
1480	ALL	384453	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04
1481	ALL	384653	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04
1482	ALL	384853	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04
1483	ALL	385053	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04
1484	ALL	385253	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04

1485	ALL	385453	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04
1486	ALL	385653	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-04
1487	ALL	385853	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04
1488	ALL	381453	3741879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.60E-05
1489	ALL	381653	3741879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-05
1490	ALL	381853	3741879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-05
1491	ALL	382053	3741879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.31E-05
1492	ALL	382253	3741879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
1493	ALL	382453	3741879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04
1494	ALL	382653	3741879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
1495	ALL	382853	3741879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04
1496	ALL	383053	3741879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04
1497	ALL	383253	3741879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04
1498	ALL	383453	3741879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04
1499	ALL	383653	3741879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04
1500	ALL	383853	3741879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-04
1501	ALL	384053	3741879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-04
1502	ALL	384253	3741879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04
1503	ALL	384453	3741879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04
1504	ALL	384653	3741879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04
1505	ALL	384853	3741879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-04
1506	ALL	385053	3741879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04
1507	ALL	385253	3741879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-04
1508	ALL	385453	3741879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-04
1509	ALL	385653	3741879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04
1510	ALL	385853	3741879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-04
1511	ALL	381453	3742079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-05
1512	ALL	381653	3742079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
1513	ALL	381853	3742079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04
1514	ALL	382053	3742079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04
1515	ALL	382253	3742079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04
1516	ALL	382453	3742079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04
1517	ALL	382653	3742079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
1518	ALL	382853	3742079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04
1519	ALL	383053	3742079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04
1520	ALL	383253	3742079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04
1521	ALL	383453	3742079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-04
1522	ALL	383653	3742079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04
1523	ALL	383853	3742079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04
1524	ALL	384053	3742079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04
1525	ALL	384253	3742079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-04
1526	ALL	384453	3742079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-04
1527	ALL	384653	3742079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-04
1528	ALL	384853	3742079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-04
1529	ALL	385053	3742079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-04
1530	ALL	385253	3742079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-04
1531	ALL	385453	3742079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-04
1532	ALL	385653	3742079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-04
1533	ALL	385853	3742079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-04
1534	ALL	381453	3742279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.49E-05
1535	ALL	381653	3742279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
1536	ALL	381853	3742279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04
1537	ALL	382053	3742279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04
1538	ALL	382253	3742279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04
1539	ALL	382453	3742279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04
1540	ALL	382653	3742279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04
1541	ALL	382853	3742279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04
1542	ALL	383053	3742279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-04
1543	ALL	383253	3742279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04
1544	ALL	383453	3742279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04
1545	ALL	383653	3742279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-04
1546	ALL	383853	3742279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-04
1547	ALL	384053	3742279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-04
1548	ALL	384253	3742279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-04
1549	ALL	384453	3742279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-04
1550	ALL	384653	3742279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-04
1551	ALL	384853	3742279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-04
1552	ALL	385053	3742279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-04
1553	ALL	385253	3742279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-04
1554	ALL	385453	3742279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-04
1555	ALL	385653	3742279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-04
1556	ALL	385853	3742279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-04
1557	ALL	381453	3742479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04
1558	ALL	381653	3742479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
1559	ALL	381853	3742479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04
1560	ALL	382053	3742479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04
1561	ALL	382253	3742479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04
1562	ALL	382453	3742479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04
1563	ALL	382653	3742479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04
1564	ALL	382853	3742479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04
1565	ALL	383053	3742479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04
1566	ALL	383253	3742479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-04
1567	ALL	383453	3742479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-04
1568	ALL	383653	3742479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-04
1569	ALL	383853	3742479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-04
1570	ALL	384053	3742479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-04
1571	ALL	384253	3742479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-04
1572	ALL	384453	3742479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-04
1573	ALL	384653	3742479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-04
1574	ALL	384853	3742479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-04
1575	ALL	385053	3742479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-04
1576	ALL	385253	3742479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-04
1577	ALL	385453	3742479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.15E-04
1578	ALL	385653	3742479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-04
1579	ALL	385853	3742479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-04
1580	ALL	381453	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04
1581	ALL	381653	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04
1582	ALL	381853	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04
1583	ALL	382053	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04

1584	ALL	382253	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04
1585	ALL	385053	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.30E-04
1586	ALL	385253	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-04
1587	ALL	385453	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-04
1588	ALL	385653	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-04
1589	ALL	385853	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-04
1590	ALL	381453	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04
1591	ALL	381653	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04
1592	ALL	381853	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04
1593	ALL	382053	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04
1594	ALL	382253	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-04
1595	ALL	385053	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.17E-04
1596	ALL	385253	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.52E-04
1597	ALL	385453	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-04
1598	ALL	385653	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-04
1599	ALL	385853	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-04
1600	ALL	381453	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04
1601	ALL	381653	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04
1602	ALL	381853	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04
1603	ALL	382053	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04
1604	ALL	382253	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04
1605	ALL	385053	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.91E-04
1606	ALL	385253	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-04
1607	ALL	385453	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-04
1608	ALL	385653	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-04
1609	ALL	385853	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-04
1610	ALL	381453	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04
1611	ALL	381653	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04
1612	ALL	381853	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04
1613	ALL	382053	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04
1614	ALL	382253	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-04
1615	ALL	385053	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.62E-04
1616	ALL	385253	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.88E-04
1617	ALL	385453	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-04
1618	ALL	385653	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-04
1619	ALL	385853	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04
1620	ALL	381453	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04
1621	ALL	381653	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04
1622	ALL	381853	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-04
1623	ALL	382053	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04
1624	ALL	382253	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-04
1625	ALL	385053	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.31E-04
1626	ALL	385253	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-04
1627	ALL	385453	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-04
1628	ALL	385653	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04
1629	ALL	385853	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04
1630	ALL	381453	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04
1631	ALL	381653	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04
1632	ALL	381853	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04
1633	ALL	382053	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-04
1634	ALL	382253	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-04
1635	ALL	385053	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-04
1636	ALL	385253	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-04
1637	ALL	385453	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04
1638	ALL	385653	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-04
1639	ALL	385853	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04
1640	ALL	381453	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04
1641	ALL	381653	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04
1642	ALL	381853	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04
1643	ALL	382053	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-04
1644	ALL	382253	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-04
1645	ALL	385053	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-04
1646	ALL	385253	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-04
1647	ALL	385453	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-04
1648	ALL	385653	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04
1649	ALL	385853	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04
1650	ALL	381453	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04
1651	ALL	381653	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04
1652	ALL	381853	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04
1653	ALL	382053	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-04
1654	ALL	382253	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-04
1655	ALL	385053	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-04
1656	ALL	385253	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04
1657	ALL	385453	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04
1658	ALL	385653	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04
1659	ALL	385853	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04
1660	ALL	381453	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04
1661	ALL	381653	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04
1662	ALL	381853	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04
1663	ALL	382053	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-04
1664	ALL	382253	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-04
1665	ALL	385053	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-04
1666	ALL	385253	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-04
1667	ALL	385453	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04
1668	ALL	385653	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04
1669	ALL	385853	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04
1670	ALL	381453	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04
1671	ALL	381653	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04
1672	ALL	381853	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-04
1673	ALL	382053	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04
1674	ALL	382253	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-04
1675	ALL	385053	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04
1676	ALL	385253	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-04
1677	ALL	385453	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04
1678	ALL	385653	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04
1679	ALL	385853	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04
1680	ALL	381453	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04
1681	ALL	381653	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04
1682	ALL	381853	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-04

1683	ALL	382053	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-04
1684	ALL	382253	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04
1685	ALL	385053	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04
1686	ALL	385253	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04
1687	ALL	385453	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04
1688	ALL	385653	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04
1689	ALL	385853	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04
1690	ALL	381453	3744879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04
1691	ALL	381653	3744879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04
1692	ALL	381853	3744879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04
1693	ALL	382053	3744879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04
1694	ALL	382253	3744879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-04
1695	ALL	382453	3744879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04
1696	ALL	382653	3744879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-04
1697	ALL	382853	3744879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-04
1698	ALL	383053	3744879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-04
1699	ALL	383253	3744879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-04
1700	ALL	383453	3744879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-04
1701	ALL	383653	3744879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-04
1702	ALL	383853	3744879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-04
1703	ALL	384053	3744879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-04
1704	ALL	384253	3744879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-04
1705	ALL	384453	3744879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-04
1706	ALL	384653	3744879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-04
1707	ALL	384853	3744879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04
1708	ALL	385053	3744879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04
1709	ALL	385253	3744879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04
1710	ALL	385453	3744879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04
1711	ALL	385653	3744879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04
1712	ALL	385853	3744879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04
1713	ALL	381453	3745079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04
1714	ALL	381653	3745079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04
1715	ALL	381853	3745079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04
1716	ALL	382053	3745079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04
1717	ALL	382253	3745079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04
1718	ALL	382453	3745079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04
1719	ALL	382653	3745079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04
1720	ALL	382853	3745079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04
1721	ALL	383053	3745079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-04
1722	ALL	383253	3745079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-04
1723	ALL	383453	3745079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-04
1724	ALL	383653	3745079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-04
1725	ALL	383853	3745079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-04
1726	ALL	384053	3745079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-04
1727	ALL	384253	3745079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-04
1728	ALL	384453	3745079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-04
1729	ALL	384653	3745079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04
1730	ALL	384853	3745079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04
1731	ALL	385053	3745079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04
1732	ALL	385253	3745079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04
1733	ALL	385453	3745079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04
1734	ALL	385653	3745079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04
1735	ALL	385853	3745079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
1736	ALL	381453	3745279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
1737	ALL	381653	3745279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04
1738	ALL	381853	3745279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04
1739	ALL	382053	3745279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04
1740	ALL	382253	3745279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04
1741	ALL	382453	3745279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04
1742	ALL	382653	3745279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04
1743	ALL	382853	3745279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-04
1744	ALL	383053	3745279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04
1745	ALL	383253	3745279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-04
1746	ALL	383453	3745279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-04
1747	ALL	383653	3745279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-04
1748	ALL	383853	3745279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-04
1749	ALL	384053	3745279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-04
1750	ALL	384253	3745279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-04
1751	ALL	384453	3745279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-04
1752	ALL	384653	3745279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-04
1753	ALL	384853	3745279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04
1754	ALL	385053	3745279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04
1755	ALL	385253	3745279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04
1756	ALL	385453	3745279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04
1757	ALL	385653	3745279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04
1758	ALL	385853	3745279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
1759	ALL	381453	3745479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04
1760	ALL	381653	3745479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
1761	ALL	381853	3745479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04
1762	ALL	382053	3745479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04
1763	ALL	382253	3745479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04
1764	ALL	382453	3745479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04
1765	ALL	382653	3745479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04
1766	ALL	382853	3745479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04
1767	ALL	383053	3745479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04
1768	ALL	383253	3745479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04
1769	ALL	383453	3745479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04
1770	ALL	383653	3745479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04
1771	ALL	383853	3745479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-04
1772	ALL	384053	3745479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-04
1773	ALL	384253	3745479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-04
1774	ALL	384453	3745479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04
1775	ALL	384653	3745479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-04
1776	ALL	384853	3745479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04
1777	ALL	385053	3745479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04
1778	ALL	385253	3745479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04
1779	ALL	385453	3745479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04
1780	ALL	385653	3745479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04
1781	ALL	385853	3745479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04

1782	ALL	381453	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.86E-05
1783	ALL	381653	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04
1784	ALL	381853	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04
1785	ALL	382053	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04
1786	ALL	382253	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04
1787	ALL	382453	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04
1788	ALL	382653	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04
1789	ALL	382853	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04
1790	ALL	383053	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04
1791	ALL	383253	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-04
1792	ALL	383453	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04
1793	ALL	383653	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04
1794	ALL	383853	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04
1795	ALL	384053	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04
1796	ALL	384253	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04
1797	ALL	384453	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04
1798	ALL	384653	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04
1799	ALL	384853	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04
1800	ALL	385053	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04
1801	ALL	385253	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04
1802	ALL	385453	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04
1803	ALL	385653	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04
1804	ALL	385853	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.46E-05
1805	ALL	381453	3745879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.06E-05
1806	ALL	381653	3745879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.74E-05
1807	ALL	381853	3745879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04
1808	ALL	382053	3745879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04
1809	ALL	382253	3745879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04
1810	ALL	382453	3745879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04
1811	ALL	382653	3745879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04
1812	ALL	382853	3745879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04
1813	ALL	383053	3745879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04
1814	ALL	383253	3745879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04
1815	ALL	383453	3745879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04
1816	ALL	383653	3745879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04
1817	ALL	383853	3745879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04
1818	ALL	384053	3745879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04
1819	ALL	384253	3745879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04
1820	ALL	384453	3745879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04
1821	ALL	384653	3745879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04
1822	ALL	384853	3745879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04
1823	ALL	385053	3745879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04
1824	ALL	385253	3745879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04
1825	ALL	385453	3745879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04
1826	ALL	385653	3745879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.55E-05
1827	ALL	385853	3745879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.79E-05
1828	ALL	378453	3738679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05
1829	ALL	378953	3738679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05
1830	ALL	379453	3738679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05
1831	ALL	379953	3738679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05
1832	ALL	380453	3738679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05
1833	ALL	380953	3738679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-05
1834	ALL	381453	3738679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05
1835	ALL	381953	3738679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-05
1836	ALL	382453	3738679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-05
1837	ALL	382953	3738679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05
1838	ALL	383453	3738679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-05
1839	ALL	383953	3738679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-05
1840	ALL	384453	3738679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-05
1841	ALL	384953	3738679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-05
1842	ALL	385453	3738679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-05
1843	ALL	385953	3738679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-05
1844	ALL	386453	3738679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-05
1845	ALL	386953	3738679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-05
1846	ALL	387453	3738679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.20E-05
1847	ALL	387953	3738679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-05
1848	ALL	388453	3738679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-05
1849	ALL	388953	3738679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.95E-05
1850	ALL	378453	3739179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05
1851	ALL	378953	3739179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05
1852	ALL	379453	3739179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05
1853	ALL	379953	3739179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-05
1854	ALL	380453	3739179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-05
1855	ALL	380953	3739179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05
1856	ALL	381453	3739179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-05
1857	ALL	381953	3739179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-05
1858	ALL	382453	3739179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-05
1859	ALL	382953	3739179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05
1860	ALL	383453	3739179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-05
1861	ALL	383953	3739179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-05
1862	ALL	384453	3739179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-05
1863	ALL	384953	3739179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.48E-05
1864	ALL	385453	3739179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.59E-05
1865	ALL	385953	3739179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.70E-05
1866	ALL	386453	3739179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E-05
1867	ALL	386953	3739179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-05
1868	ALL	387453	3739179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.43E-05
1869	ALL	387953	3739179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-05
1870	ALL	388453	3739179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.08E-05
1871	ALL	388953	3739179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-05
1872	ALL	378453	3739679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05
1873	ALL	378953	3739679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05
1874	ALL	379453	3739679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05
1875	ALL	379953	3739679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05
1876	ALL	380453	3739679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05
1877	ALL	380953	3739679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-05
1878	ALL	381453	3739679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-05
1879	ALL	381953	3739679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-05
1880	ALL	382453	3739679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-05

1881	ALL	382953	3739679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-05
1882	ALL	383453	3739679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-05
1883	ALL	383953	3739679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-05
1884	ALL	384453	3739679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-05
1885	ALL	384953	3739679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.67E-05
1886	ALL	385453	3739679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.83E-05
1887	ALL	385953	3739679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.02E-05
1888	ALL	386453	3739679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-05
1889	ALL	386953	3739679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.74E-05
1890	ALL	387453	3739679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.23E-05
1891	ALL	387953	3739679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.60E-05
1892	ALL	388453	3739679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.67E-05
1893	ALL	388953	3739679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-05
1894	ALL	378453	3740179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05
1895	ALL	378953	3740179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05
1896	ALL	379453	3740179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05
1897	ALL	379953	3740179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05
1898	ALL	380453	3740179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-05
1899	ALL	380953	3740179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-05
1900	ALL	381453	3740179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-05
1901	ALL	381953	3740179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-05
1902	ALL	382453	3740179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-05
1903	ALL	382953	3740179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.41E-05
1904	ALL	383453	3740179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.99E-05
1905	ALL	383953	3740179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.37E-05
1906	ALL	384453	3740179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.28E-05
1907	ALL	384953	3740179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.09E-05
1908	ALL	385453	3740179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.60E-05
1909	ALL	385953	3740179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.96E-05
1910	ALL	386453	3740179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.53E-05
1911	ALL	386953	3740179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
1912	ALL	387453	3740179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
1913	ALL	387953	3740179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
1914	ALL	388453	3740179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
1915	ALL	388953	3740179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.16E-05
1916	ALL	378453	3740679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-05
1917	ALL	378953	3740679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-05
1918	ALL	379453	3740679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05
1919	ALL	379953	3740679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-05
1920	ALL	380453	3740679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-05
1921	ALL	380953	3740679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-05
1922	ALL	381453	3740679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-05
1923	ALL	381953	3740679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-05
1924	ALL	382453	3740679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-05
1925	ALL	382953	3740679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-05
1926	ALL	383453	3740679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.08E-05
1927	ALL	383953	3740679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.18E-05
1928	ALL	384453	3740679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
1929	ALL	384953	3740679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04
1930	ALL	385453	3740679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04
1931	ALL	385953	3740679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04
1932	ALL	386453	3740679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04
1933	ALL	386953	3740679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04
1934	ALL	387453	3740679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
1935	ALL	387953	3740679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04
1936	ALL	388453	3740679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04
1937	ALL	388953	3740679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.09E-05
1938	ALL	378453	3741179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05
1939	ALL	378953	3741179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-05
1940	ALL	379453	3741179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-05
1941	ALL	379953	3741179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05
1942	ALL	380453	3741179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-05
1943	ALL	380953	3741179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.16E-05
1944	ALL	381453	3741179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-05
1945	ALL	381953	3741179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-05
1946	ALL	382453	3741179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.45E-05
1947	ALL	382953	3741179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.85E-05
1948	ALL	383453	3741179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.39E-05
1949	ALL	383953	3741179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04
1950	ALL	384453	3741179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04
1951	ALL	384953	3741179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04
1952	ALL	385453	3741179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04
1953	ALL	385953	3741179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04
1954	ALL	386453	3741179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04
1955	ALL	386953	3741179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04
1956	ALL	387453	3741179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04
1957	ALL	387953	3741179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04
1958	ALL	388453	3741179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04
1959	ALL	388953	3741179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.17E-05
1960	ALL	378453	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-05
1961	ALL	378953	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-05
1962	ALL	379453	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-05
1963	ALL	379953	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E-05
1964	ALL	380453	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-05
1965	ALL	380953	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.24E-05
1966	ALL	385953	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04
1967	ALL	386453	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04
1968	ALL	386953	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04
1969	ALL	387453	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04
1970	ALL	387953	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04
1971	ALL	388453	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.82E-05
1972	ALL	388953	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.91E-05
1973	ALL	378453	3742179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-05
1974	ALL	378953	3742179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-05
1975	ALL	379453	3742179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-05
1976	ALL	379953	3742179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.16E-05
1977	ALL	380453	3742179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-05
1978	ALL	380953	3742179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.53E-05
1979	ALL	385953	3742179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-04

1980	ALL	386453	3742179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04
1981	ALL	386953	3742179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04
1982	ALL	387453	3742179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04
1983	ALL	387953	3742179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.45E-05
1984	ALL	388453	3742179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-05
1985	ALL	388953	3742179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-05
1986	ALL	378453	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-05
1987	ALL	378953	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.23E-05
1988	ALL	379453	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-05
1989	ALL	379953	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.04E-05
1990	ALL	380453	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-05
1991	ALL	380953	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.94E-05
1992	ALL	385953	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-04
1993	ALL	386453	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-04
1994	ALL	386953	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04
1995	ALL	387453	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
1996	ALL	387953	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E-05
1997	ALL	388453	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-05
1998	ALL	388953	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-05
1999	ALL	378453	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-05
2000	ALL	378953	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-05
2001	ALL	379453	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.20E-05
2002	ALL	379953	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-05
2003	ALL	380453	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.01E-05
2004	ALL	380953	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
2005	ALL	385953	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-04
2006	ALL	386453	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04
2007	ALL	386953	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04
2008	ALL	387453	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.53E-05
2009	ALL	387953	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.78E-05
2010	ALL	388453	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-05
2011	ALL	388953	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-05
2012	ALL	378453	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-05
2013	ALL	378953	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.81E-05
2014	ALL	379453	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.83E-05
2015	ALL	379953	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-05
2016	ALL	380453	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
2017	ALL	380953	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04
2018	ALL	385953	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04
2019	ALL	386453	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04
2020	ALL	386953	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.45E-05
2021	ALL	387453	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.42E-05
2022	ALL	387953	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.01E-05
2023	ALL	388453	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-05
2024	ALL	388953	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05
2025	ALL	378453	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-05
2026	ALL	378953	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.20E-05
2027	ALL	379453	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-05
2028	ALL	379953	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.76E-05
2029	ALL	380453	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
2030	ALL	380953	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04
2031	ALL	385953	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04
2032	ALL	386453	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04
2033	ALL	386953	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.10E-05
2034	ALL	387453	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.47E-05
2035	ALL	387953	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-05
2036	ALL	388453	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-05
2037	ALL	388953	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05
2038	ALL	378453	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-05
2039	ALL	378953	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.95E-05
2040	ALL	379453	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.36E-05
2041	ALL	379953	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.76E-05
2042	ALL	380453	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.71E-05
2043	ALL	380953	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04
2044	ALL	385953	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04
2045	ALL	386453	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.35E-05
2046	ALL	386953	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.30E-05
2047	ALL	387453	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-05
2048	ALL	387953	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-05
2049	ALL	388453	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-05
2050	ALL	388953	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-05
2051	ALL	378453	3745179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-05
2052	ALL	378953	3745179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.78E-05
2053	ALL	379453	3745179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-05
2054	ALL	379953	3745179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.11E-05
2055	ALL	380453	3745179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.78E-05
2056	ALL	380953	3745179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04
2057	ALL	385953	3745179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
2058	ALL	386453	3745179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-05
2059	ALL	386953	3745179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.67E-05
2060	ALL	387453	3745179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-05
2061	ALL	387953	3745179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-05
2062	ALL	388453	3745179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-05
2063	ALL	388953	3745179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05
2064	ALL	378453	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-05
2065	ALL	378953	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-05
2066	ALL	379453	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.27E-05
2067	ALL	379953	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.40E-05
2068	ALL	380453	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.30E-05
2069	ALL	380953	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-05
2070	ALL	385953	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.05E-05
2071	ALL	386453	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.33E-05
2072	ALL	386953	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.98E-05
2073	ALL	387453	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-05
2074	ALL	387953	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-05
2075	ALL	388453	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05
2076	ALL	388953	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-05
2077	ALL	378453	3746179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-05
2078	ALL	378953	3746179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-05

2079	ALL	379453	3746179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-05
2080	ALL	379953	3746179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.46E-05
2081	ALL	380453	3746179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.01E-05
2082	ALL	380953	3746179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.90E-05
2083	ALL	381453	3746179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.07E-05
2084	ALL	381953	3746179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.47E-05
2085	ALL	382453	3746179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04
2086	ALL	382953	3746179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04
2087	ALL	383453	3746179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04
2088	ALL	383953	3746179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04
2089	ALL	384453	3746179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04
2090	ALL	384953	3746179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
2091	ALL	385453	3746179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.15E-05
2092	ALL	385953	3746179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E-05
2093	ALL	386453	3746179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-05
2094	ALL	386953	3746179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-05
2095	ALL	387453	3746179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-05
2096	ALL	387953	3746179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-05
2097	ALL	388453	3746179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05
2098	ALL	388953	3746179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05
2099	ALL	378453	3746679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-05
2100	ALL	378953	3746679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-05
2101	ALL	379453	3746679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-05
2102	ALL	379953	3746679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-05
2103	ALL	380453	3746679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-05
2104	ALL	380953	3746679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-05
2105	ALL	381453	3746679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.02E-05
2106	ALL	381953	3746679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-05
2107	ALL	382453	3746679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.53E-05
2108	ALL	382953	3746679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.39E-05
2109	ALL	383453	3746679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
2110	ALL	383953	3746679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04
2111	ALL	384453	3746679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04
2112	ALL	384953	3746679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E-05
2113	ALL	385453	3746679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-05
2114	ALL	385953	3746679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05
2115	ALL	386453	3746679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05
2116	ALL	386953	3746679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05
2117	ALL	387453	3746679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-05
2118	ALL	387953	3746679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05
2119	ALL	388453	3746679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05
2120	ALL	388953	3746679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05
2121	ALL	378453	3747179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05
2122	ALL	378953	3747179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-05
2123	ALL	379453	3747179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-05
2124	ALL	379953	3747179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-05
2125	ALL	380453	3747179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-05
2126	ALL	380953	3747179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-05
2127	ALL	381453	3747179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.65E-05
2128	ALL	381953	3747179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-05
2129	ALL	382453	3747179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.84E-05
2130	ALL	382953	3747179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.39E-05
2131	ALL	383453	3747179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-05
2132	ALL	383953	3747179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.34E-05
2133	ALL	384453	3747179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.21E-05
2134	ALL	384953	3747179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-05
2135	ALL	385453	3747179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05
2136	ALL	385953	3747179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05
2137	ALL	386453	3747179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05
2138	ALL	386953	3747179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05
2139	ALL	387453	3747179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05
2140	ALL	387953	3747179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05
2141	ALL	388453	3747179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-05
2142	ALL	388953	3747179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05
2143	ALL	378453	3747679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05
2144	ALL	378953	3747679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-05
2145	ALL	379453	3747679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-05
2146	ALL	379953	3747679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-05
2147	ALL	380453	3747679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-05
2148	ALL	380953	3747679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-05
2149	ALL	381453	3747679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-05
2150	ALL	381953	3747679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-05
2151	ALL	382453	3747679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-05
2152	ALL	382953	3747679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.99E-05
2153	ALL	383453	3747679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-05
2154	ALL	383953	3747679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-05
2155	ALL	384453	3747679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-05
2156	ALL	384953	3747679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-05
2157	ALL	385453	3747679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05
2158	ALL	385953	3747679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05
2159	ALL	386453	3747679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05
2160	ALL	386953	3747679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05
2161	ALL	387453	3747679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05
2162	ALL	387953	3747679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05
2163	ALL	388453	3747679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05
2164	ALL	388953	3747679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05
2165	ALL	378453	3748179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05
2166	ALL	378953	3748179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05
2167	ALL	379453	3748179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-05
2168	ALL	379953	3748179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-05
2169	ALL	380453	3748179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05
2170	ALL	380953	3748179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-05
2171	ALL	381453	3748179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-05
2172	ALL	381953	3748179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-05
2173	ALL	382453	3748179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-05
2174	ALL	382953	3748179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.88E-05
2175	ALL	383453	3748179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-05
2176	ALL	383953	3748179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-05
2177	ALL	384453	3748179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-05

2178	ALL	384953	3748179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-05
2179	ALL	385453	3748179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05
2180	ALL	385953	3748179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05
2181	ALL	386453	3748179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05
2182	ALL	386953	3748179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05
2183	ALL	387453	3748179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05
2184	ALL	387953	3748179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05
2185	ALL	388453	3748179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05
2186	ALL	388953	3748179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05
2187	ALL	378453	3748679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05
2188	ALL	378953	3748679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05
2189	ALL	379453	3748679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05
2190	ALL	379953	3748679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-05
2191	ALL	380453	3748679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05
2192	ALL	380953	3748679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-05
2193	ALL	381453	3748679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05
2194	ALL	381953	3748679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-05
2195	ALL	382453	3748679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-05
2196	ALL	382953	3748679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-05
2197	ALL	383453	3748679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-05
2198	ALL	383953	3748679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-05
2199	ALL	384453	3748679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05
2200	ALL	384953	3748679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-05
2201	ALL	385453	3748679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-05
2202	ALL	385953	3748679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05
2203	ALL	386453	3748679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05
2204	ALL	386953	3748679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05
2205	ALL	387453	3748679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05
2206	ALL	387953	3748679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05
2207	ALL	388453	3748679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05
2208	ALL	388953	3748679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05

HARP2 - HRACalc (dated 22118) 6/25/2025 4:55:33 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 4
Total Exposure Duration: 1.17

Exposure Duration Bin Distribution
3rd Trimester Bin: 0
0<2 Years Bin: 0
2<9 Years Bin: 1.17
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: True
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: RMP

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: ON

****
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05
Soil mixing depth (m): 0.01
Dermal climate: Mixed

****
HOMEGROWN CROP PATHWAY SETTINGS

Household type: HouseholdsthatGarden
Fraction leafy: 0.137
Fraction exposed: 0.137
Fraction protected: 0.137
Fraction root: 0.137

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: C:\Users\anoll\OneDrive - Dudek\Desktop\HARP2\Carson Calas Park Stormwater Capture\CALAS PARK SCHOOL UNMITIGATED\hra\School_UnmitigatedCancerRisk.csv
Cancer risk total by receptor saved to: C:\Users\anoll\OneDrive - Dudek\Desktop\HARP2\Carson Calas Park Stormwater Capture\CALAS PARK SCHOOL UNMITIGATED\hra\School_UnmitigatedCancerRiskSumByRec.csv
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to: C:\Users\anoll\OneDrive - Dudek\Desktop\HARP2\Carson Calas Park Stormwater Capture\CALAS PARK SCHOOL UNMITIGATED\hra\School_UnmitigatedNCChronicRisk.csv
Chronic risk total by receptor saved to: C:\Users\anoll\OneDrive - Dudek\Desktop\HARP2\Carson Calas Park Stormwater Capture\CALAS PARK SCHOOL UNMITIGATED\hra\School_UnmitigatedNCChronicRiskSumByRec.csv
Calculating acute risk
Acute risk breakdown by pollutant and receptor saved to: C:\Users\anoll\OneDrive - Dudek\Desktop\HARP2\Carson Calas Park Stormwater Capture\CALAS PARK SCHOOL UNMITIGATED\hra\School_UnmitigatedNCAcuteRisk.csv
Acute risk total by receptor saved to: C:\Users\anoll\OneDrive - Dudek\Desktop\HARP2\Carson Calas Park Stormwater Capture\CALAS PARK SCHOOL UNMITIGATED\hra\School_UnmitigatedNCAcuteRiskSumByRec.csv

HRA ran successfully

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_R	MMILK_RI	WATER_RI	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISI	PIG_RISK	CHICKEN_F	EGG_RISK
2209	ALL		383403.6	3743811	1.27E-06	1.17YrCanc	1.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2210	ALL		383435.1	3743828	1.60E-06	1.17YrCanc	1.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2211	ALL		383402.5	3743847	1.09E-06	1.17YrCanc	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2212	ALL		383440.5	3743860	1.33E-06	1.17YrCanc	1.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2213	ALL		383407.9	3743900	8.76E-07	1.17YrCanc	8.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2214	ALL		383370.5	3743907	7.16E-07	1.17YrCanc	7.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2215	ALL		383517.5	3743913	1.32E-06	1.17YrCanc	1.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2216	ALL		383555.5	3743914	1.50E-06	1.17YrCanc	1.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2217	ALL		383597.3	3744004	9.32E-07	1.17YrCanc	9.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2218	ALL		383583.7	3743978	1.05E-06	1.17YrCanc	1.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2219	ALL		383540.3	3743981	9.27E-07	1.17YrCanc	9.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2220	ALL		383502.9	3743983	8.25E-07	1.17YrCanc	8.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2221	ALL		383501.2	3744030	6.49E-07	1.17YrCanc	6.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2222	ALL		383501.8	3744066	5.57E-07	1.17YrCanc	5.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2223	ALL		383502.9	3744099	4.89E-07	1.17YrCanc	4.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2224	ALL		383530.5	3744139	4.43E-07	1.17YrCanc	4.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2225	ALL		383553.9	3744162	4.23E-07	1.17YrCanc	4.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2226	ALL		383605.4	3744148	4.79E-07	1.17YrCanc	4.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2227	ALL		383575	3744161	4.38E-07	1.17YrCanc	4.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2228	ALL		383509.4	3744139	4.25E-07	1.17YrCanc	4.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2229	ALL		383384.1	3743907	7.60E-07	1.17YrCanc	7.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL	MAXHI
2209	ALL		383403.6	3743811	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.59E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.59E-03
2210	ALL		383435.1	3743828	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.60E-03
2211	ALL		383402.5	3743847	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.54E-03
2212	ALL		383440.5	3743860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.98E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.98E-03
2213	ALL		383407.9	3743900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-03
2214	ALL		383370.5	3743907	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-03
2215	ALL		383517.5	3743913	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.93E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.93E-03
2216	ALL		383555.5	3743914	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.96E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.96E-03
2217	ALL		383597.3	3744004	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-03
2218	ALL		383583.7	3743978	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.31E-03
2219	ALL		383540.3	3743981	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.55E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.55E-03
2220	ALL		383502.9	3743983	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-03
2221	ALL		383501.2	3744030	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-03
2222	ALL		383501.8	3744066	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-03
2223	ALL		383502.9	3744099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-03
2224	ALL		383530.5	3744139	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-03
2225	ALL		383553.9	3744162	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-03
2226	ALL		383605.4	3744148	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-03
2227	ALL		383575	3744161	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-03
2228	ALL		383509.4	3744139	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-03
2229	ALL		383384.1	3743907	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-03

HARP2 - HRACalc (dated 22118) 6/25/2025 5:01:45 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 1.17

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 1.17
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: True
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: RMP

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: ON

****
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05
Soil mixing depth (m): 0.01
Dermal climate: Mixed

****
HOMEGROWN CROP PATHWAY SETTINGS

Household type: HouseholdsthatGarden
Fraction leafy: 0.137
Fraction exposed: 0.137
Fraction protected: 0.137
Fraction root: 0.137

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: C:\Users\anoll\OneDrive - Dudek\Desktop\HARP2\Carson Calas Park Stormwater Capture\CALAS PARK RESIDENT MITIGATED\hra\Residential_MitigatedCancerRisk.csv
Cancer risk total by receptor saved to: C:\Users\anoll\OneDrive - Dudek\Desktop\HARP2\Carson Calas Park Stormwater Capture\CALAS PARK RESIDENT MITIGATED\hra\Residential_MitigatedCancerRiskSumByRec.csv
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to: C:\Users\anoll\OneDrive - Dudek\Desktop\HARP2\Carson Calas Park Stormwater Capture\CALAS PARK RESIDENT MITIGATED\hra\Residential_MitigatedNCChronicRisk.csv
Chronic risk total by receptor saved to: C:\Users\anoll\OneDrive - Dudek\Desktop\HARP2\Carson Calas Park Stormwater Capture\CALAS PARK RESIDENT MITIGATED\hra\Residential_MitigatedNCChronicRiskSumByRec.csv
Calculating acute risk
Acute risk breakdown by pollutant and receptor saved to: C:\Users\anoll\OneDrive - Dudek\Desktop\HARP2\Carson Calas Park Stormwater Capture\CALAS PARK RESIDENT MITIGATED\hra\Residential_MitigatedNCAcuteRisk.csv
Acute risk total by receptor saved to: C:\Users\anoll\OneDrive - Dudek\Desktop\HARP2\Carson Calas Park Stormwater Capture\CALAS PARK RESIDENT MITIGATED\hra\Residential_MitigatedNCAcuteRiskSumByRec.csv

HRA ran successfully

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_R	MMILK_RI	WATER_RI	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISI	PIG_RISK	CHICKEN_F	EGG_RISK
1	ALL		383453	3743679	1.17E-06	1.17YrCanc	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	ALL		383473	3743679	1.34E-06	1.17YrCanc	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	ALL		383493	3743679	1.55E-06	1.17YrCanc	1.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	ALL		383513	3743679	1.80E-06	1.17YrCanc	1.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	ALL		383533	3743679	2.11E-06	1.17YrCanc	2.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	ALL		383553	3743679	2.51E-06	1.17YrCanc	2.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	ALL		383573	3743679	3.06E-06	1.17YrCanc	3.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	ALL		383593	3743679	3.86E-06	1.17YrCanc	3.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	ALL		383613	3743679	5.18E-06	1.17YrCanc	5.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10	ALL		383453	3743699	1.30E-06	1.17YrCanc	1.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
11	ALL		383473	3743699	1.51E-06	1.17YrCanc	1.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12	ALL		383493	3743699	1.76E-06	1.17YrCanc	1.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13	ALL		383513	3743699	2.07E-06	1.17YrCanc	2.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
14	ALL		383533	3743699	2.45E-06	1.17YrCanc	2.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
15	ALL		383553	3743699	2.95E-06	1.17YrCanc	2.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16	ALL		383573	3743699	3.63E-06	1.17YrCanc	3.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17	ALL		383593	3743699	4.69E-06	1.17YrCanc	4.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
18	ALL		383613	3743699	6.64E-06	1.17YrCanc	6.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
19	ALL		383453	3743719	1.46E-06	1.17YrCanc	1.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20	ALL		383473	3743719	1.73E-06	1.17YrCanc	1.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21	ALL		383493	3743719	2.05E-06	1.17YrCanc	2.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22	ALL		383513	3743719	2.44E-06	1.17YrCanc	2.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23	ALL		383533	3743719	2.89E-06	1.17YrCanc	2.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
24	ALL		383553	3743719	3.46E-06	1.17YrCanc	3.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25	ALL		383573	3743719	4.23E-06	1.17YrCanc	4.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
26	ALL		383593	3743719	5.42E-06	1.17YrCanc	5.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27	ALL		383613	3743719	7.62E-06	1.17YrCanc	7.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28	ALL		383453	3743739	1.69E-06	1.17YrCanc	1.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
29	ALL		383473	3743739	2.07E-06	1.17YrCanc	2.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30	ALL		383493	3743739	2.53E-06	1.17YrCanc	2.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31	ALL		383513	3743739	3.03E-06	1.17YrCanc	3.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
32	ALL		383533	3743739	3.55E-06	1.17YrCanc	3.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33	ALL		383553	3743739	4.15E-06	1.17YrCanc	4.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34	ALL		383573	3743739	4.93E-06	1.17YrCanc	4.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35	ALL		383593	3743739	6.12E-06	1.17YrCanc	6.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36	ALL		383613	3743739	8.29E-06	1.17YrCanc	8.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
37	ALL		383453	3743759	2.06E-06	1.17YrCanc	2.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38	ALL		383473	3743759	2.76E-06	1.17YrCanc	2.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39	ALL		383493	3743759	3.53E-06	1.17YrCanc	3.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
40	ALL		383513	3743759	4.16E-06	1.17YrCanc	4.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41	ALL		383533	3743759	4.71E-06	1.17YrCanc	4.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
42	ALL		383553	3743759	5.29E-06	1.17YrCanc	5.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43	ALL		383573	3743759	6.02E-06	1.17YrCanc	6.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
44	ALL		383593	3743759	7.08E-06	1.17YrCanc	7.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
45	ALL		383613	3743759	8.97E-06	1.17YrCanc	8.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46	ALL		383793	3743799	7.04E-06	1.17YrCanc	7.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
47	ALL		383813	3743799	5.95E-06	1.17YrCanc	5.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48	ALL		383833	3743799	4.46E-06	1.17YrCanc	4.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
49	ALL		383253	3743479	2.79E-07	1.17YrCanc	2.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
50	ALL		383273	3743479	2.94E-07	1.17YrCanc	2.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51	ALL		383293	3743479	3.11E-07	1.17YrCanc	3.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52	ALL		383313	3743479	3.29E-07	1.17YrCanc	3.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53	ALL		383333	3743479	3.48E-07	1.17YrCanc	3.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54	ALL		383353	3743479	3.69E-07	1.17YrCanc	3.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55	ALL		383373	3743479	3.91E-07	1.17YrCanc	3.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56	ALL		383393	3743479	4.15E-07	1.17YrCanc	4.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57	ALL		383413	3743479	4.40E-07	1.17YrCanc	4.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
58	ALL		383433	3743479	4.67E-07	1.17YrCanc	4.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59	ALL		383453	3743479	4.97E-07	1.17YrCanc	4.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60	ALL		383473	3743479	5.27E-07	1.17YrCanc	5.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
61	ALL		383493	3743479	5.60E-07	1.17YrCanc	5.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
62	ALL		383513	3743479	5.94E-07	1.17YrCanc	5.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63	ALL		383533	3743479	6.29E-07	1.17YrCanc	6.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64	ALL		383553	3743479	6.66E-07	1.17YrCanc	6.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
65	ALL		383573	3743479	7.04E-07	1.17YrCanc	7.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
66	ALL		383593	3743479	7.43E-07	1.17YrCanc	7.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67	ALL		383613	3743479	7.83E-07	1.17YrCanc	7.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
68	ALL		383693	3743479	9.43E-07	1.17YrCanc	9.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
69	ALL		383713	3743479	9.83E-07	1.17YrCanc	9.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70	ALL		383733	3743479	1.02E-06	1.17YrCanc	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71	ALL		383753	3743479	1.06E-06	1.17YrCanc	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
72	ALL		383773	3743479	1.10E-06	1.17YrCanc	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
73	ALL		383793	3743479	1.13E-06	1.17YrCanc	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		383813	3743479	1.16E-06	1.17YrCanc	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
75	ALL		383833	3743479	1.19E-06	1.17YrCanc	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
76	ALL		383853	3743479	1.21E-06	1.17YrCanc	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
77	ALL		383873	3743479	1.23E-06	1.17YrCanc	1.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
78	ALL		383893	3743479	1.24E-06	1.17YrCanc	1.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
79	ALL		383913	3743479	1.23E-06	1.17YrCanc	1.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
80	ALL		383933	3743479	1.23E-06	1.17YrCanc	1.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
81	ALL		383953	3743479	1.21E-06	1.17YrCanc	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
82	ALL		383973	3743479	1.18E-06	1.17YrCanc	1.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
83	ALL		383993	3743479	1.15E-06	1.17YrCanc	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
84	ALL		384013	3743479	1.11E-06	1.17YrCanc	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
85	ALL		384033	3743479	1.06E-06	1.17YrCanc	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
86	ALL		383253	3743499	2.91E-07	1.17YrCanc	2.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
87	ALL		383273	3743499	3.08E-07	1.17YrCanc	3.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
88	ALL		383293	3743499	3.26E-07	1.17YrCanc	3.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
89	ALL		383313	3743499	3.46E-07	1.17YrCanc	3.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
90	ALL		383333	3743499	3.67E-07	1.17YrCanc	3.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

91	ALL	383353	3743499	3.90E-07	1.17YrCanc	3.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
92	ALL	383373	3743499	4.15E-07	1.17YrCanc	4.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
93	ALL	383393	3743499	4.42E-07	1.17YrCanc	4.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
94	ALL	383413	3743499	4.72E-07	1.17YrCanc	4.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
95	ALL	383433	3743499	5.03E-07	1.17YrCanc	5.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
96	ALL	383453	3743499	5.37E-07	1.17YrCanc	5.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
97	ALL	383473	3743499	5.73E-07	1.17YrCanc	5.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
98	ALL	383493	3743499	6.11E-07	1.17YrCanc	6.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
99	ALL	383513	3743499	6.52E-07	1.17YrCanc	6.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL	383533	3743499	6.95E-07	1.17YrCanc	6.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
101	ALL	383553	3743499	7.40E-07	1.17YrCanc	7.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
102	ALL	383573	3743499	7.87E-07	1.17YrCanc	7.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
103	ALL	383593	3743499	8.35E-07	1.17YrCanc	8.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
104	ALL	383613	3743499	8.84E-07	1.17YrCanc	8.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
105	ALL	383693	3743499	1.09E-06	1.17YrCanc	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
106	ALL	383713	3743499	1.13E-06	1.17YrCanc	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
107	ALL	383733	3743499	1.18E-06	1.17YrCanc	1.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
108	ALL	383753	3743499	1.23E-06	1.17YrCanc	1.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
109	ALL	383773	3743499	1.28E-06	1.17YrCanc	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
110	ALL	383793	3743499	1.32E-06	1.17YrCanc	1.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
111	ALL	383813	3743499	1.35E-06	1.17YrCanc	1.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
112	ALL	383833	3743499	1.38E-06	1.17YrCanc	1.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
113	ALL	383853	3743499	1.40E-06	1.17YrCanc	1.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
114	ALL	383873	3743499	1.41E-06	1.17YrCanc	1.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
115	ALL	383893	3743499	1.41E-06	1.17YrCanc	1.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
116	ALL	383913	3743499	1.40E-06	1.17YrCanc	1.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
117	ALL	383933	3743499	1.37E-06	1.17YrCanc	1.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
118	ALL	383953	3743499	1.34E-06	1.17YrCanc	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
119	ALL	383973	3743499	1.30E-06	1.17YrCanc	1.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
120	ALL	383993	3743499	1.25E-06	1.17YrCanc	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
121	ALL	384013	3743499	1.19E-06	1.17YrCanc	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
122	ALL	384033	3743499	1.13E-06	1.17YrCanc	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
123	ALL	383253	3743519	3.03E-07	1.17YrCanc	3.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
124	ALL	383273	3743519	3.22E-07	1.17YrCanc	3.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
125	ALL	383293	3743519	3.42E-07	1.17YrCanc	3.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
126	ALL	383313	3743519	3.64E-07	1.17YrCanc	3.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
127	ALL	383333	3743519	3.88E-07	1.17YrCanc	3.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
128	ALL	383353	3743519	4.13E-07	1.17YrCanc	4.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
129	ALL	383373	3743519	4.42E-07	1.17YrCanc	4.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
130	ALL	383393	3743519	4.72E-07	1.17YrCanc	4.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
131	ALL	383413	3743519	5.06E-07	1.17YrCanc	5.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
132	ALL	383433	3743519	5.42E-07	1.17YrCanc	5.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
133	ALL	383453	3743519	5.81E-07	1.17YrCanc	5.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
134	ALL	383473	3743519	6.24E-07	1.17YrCanc	6.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
135	ALL	383493	3743519	6.69E-07	1.17YrCanc	6.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
136	ALL	383513	3743519	7.19E-07	1.17YrCanc	7.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
137	ALL	383533	3743519	7.71E-07	1.17YrCanc	7.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
138	ALL	383553	3743519	8.26E-07	1.17YrCanc	8.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
139	ALL	383573	3743519	8.85E-07	1.17YrCanc	8.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
140	ALL	383593	3743519	9.45E-07	1.17YrCanc	9.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
141	ALL	383613	3743519	1.01E-06	1.17YrCanc	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
142	ALL	383693	3743519	1.27E-06	1.17YrCanc	1.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
143	ALL	383713	3743519	1.33E-06	1.17YrCanc	1.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
144	ALL	383733	3743519	1.39E-06	1.17YrCanc	1.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
145	ALL	383753	3743519	1.45E-06	1.17YrCanc	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
146	ALL	383773	3743519	1.50E-06	1.17YrCanc	1.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
147	ALL	383793	3743519	1.55E-06	1.17YrCanc	1.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
148	ALL	383813	3743519	1.59E-06	1.17YrCanc	1.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
149	ALL	383833	3743519	1.61E-06	1.17YrCanc	1.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
150	ALL	383853	3743519	1.63E-06	1.17YrCanc	1.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
151	ALL	383873	3743519	1.62E-06	1.17YrCanc	1.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
152	ALL	383893	3743519	1.61E-06	1.17YrCanc	1.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
153	ALL	383913	3743519	1.58E-06	1.17YrCanc	1.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
154	ALL	383933	3743519	1.53E-06	1.17YrCanc	1.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
155	ALL	383953	3743519	1.48E-06	1.17YrCanc	1.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
156	ALL	383973	3743519	1.42E-06	1.17YrCanc	1.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
157	ALL	383993	3743519	1.35E-06	1.17YrCanc	1.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
158	ALL	384013	3743519	1.27E-06	1.17YrCanc	1.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
159	ALL	384033	3743519	1.20E-06	1.17YrCanc	1.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
160	ALL	383253	3743539	3.16E-07	1.17YrCanc	3.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
161	ALL	383273	3743539	3.36E-07	1.17YrCanc	3.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
162	ALL	383293	3743539	3.59E-07	1.17YrCanc	3.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
163	ALL	383313	3743539	3.83E-07	1.17YrCanc	3.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
164	ALL	383333	3743539	4.09E-07	1.17YrCanc	4.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
165	ALL	383353	3743539	4.38E-07	1.17YrCanc	4.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
166	ALL	383373	3743539	4.70E-07	1.17YrCanc	4.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
167	ALL	383393	3743539	5.05E-07	1.17YrCanc	5.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
168	ALL	383413	3743539	5.42E-07	1.17YrCanc	5.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
169	ALL	383433	3743539	5.84E-07	1.17YrCanc	5.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
170	ALL	383453	3743539	6.30E-07	1.17YrCanc	6.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
171	ALL	383473	3743539	6.81E-07	1.17YrCanc	6.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
172	ALL	383493	3743539	7.35E-07	1.17YrCanc	7.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
173	ALL	383513	3743539	7.94E-07	1.17YrCanc	7.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
174	ALL	383533	3743539	8.59E-07	1.17YrCanc	8.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
175	ALL	383553	3743539	9.28E-07	1.17YrCanc	9.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
176	ALL	383573	3743539	1.00E-06	1.17YrCanc	1.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
177	ALL	383593	3743539	1.08E-06	1.17YrCanc	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
178	ALL	383613	3743539	1.16E-06	1.17YrCanc	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
179	ALL	383693	3743539	1.50E-06	1.17YrCanc	1.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
180	ALL	383713	3743539	1.58E-06	1.17YrCanc	1.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
181	ALL	383733	3743539	1.66E-06	1.17YrCanc	1.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

182	ALL	383753	3743539	1.73E-06	1.17YrCanc	1.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
183	ALL	383773	3743539	1.80E-06	1.17YrCanc	1.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
184	ALL	383793	3743539	1.85E-06	1.17YrCanc	1.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
185	ALL	383813	3743539	1.88E-06	1.17YrCanc	1.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
186	ALL	383833	3743539	1.90E-06	1.17YrCanc	1.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
187	ALL	383853	3743539	1.90E-06	1.17YrCanc	1.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
188	ALL	383873	3743539	1.88E-06	1.17YrCanc	1.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
189	ALL	383893	3743539	1.84E-06	1.17YrCanc	1.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
190	ALL	383913	3743539	1.78E-06	1.17YrCanc	1.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
191	ALL	383933	3743539	1.71E-06	1.17YrCanc	1.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
192	ALL	383953	3743539	1.62E-06	1.17YrCanc	1.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
193	ALL	383973	3743539	1.54E-06	1.17YrCanc	1.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
194	ALL	383993	3743539	1.44E-06	1.17YrCanc	1.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
195	ALL	384013	3743539	1.35E-06	1.17YrCanc	1.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
196	ALL	384033	3743539	1.25E-06	1.17YrCanc	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
197	ALL	383253	3743559	3.30E-07	1.17YrCanc	3.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
198	ALL	383273	3743559	3.51E-07	1.17YrCanc	3.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
199	ALL	383293	3743559	3.76E-07	1.17YrCanc	3.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
200	ALL	383313	3743559	4.02E-07	1.17YrCanc	4.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
201	ALL	383333	3743559	4.31E-07	1.17YrCanc	4.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
202	ALL	383353	3743559	4.64E-07	1.17YrCanc	4.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
203	ALL	383373	3743559	5.00E-07	1.17YrCanc	5.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
204	ALL	383393	3743559	5.39E-07	1.17YrCanc	5.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
205	ALL	383413	3743559	5.82E-07	1.17YrCanc	5.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
206	ALL	383433	3743559	6.31E-07	1.17YrCanc	6.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
207	ALL	383453	3743559	6.85E-07	1.17YrCanc	6.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
208	ALL	383473	3743559	7.44E-07	1.17YrCanc	7.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
209	ALL	383493	3743559	8.10E-07	1.17YrCanc	8.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
210	ALL	383513	3743559	8.82E-07	1.17YrCanc	8.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
211	ALL	383533	3743559	9.62E-07	1.17YrCanc	9.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
212	ALL	383553	3743559	1.05E-06	1.17YrCanc	1.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
213	ALL	383573	3743559	1.14E-06	1.17YrCanc	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
214	ALL	383593	3743559	1.25E-06	1.17YrCanc	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
215	ALL	383613	3743559	1.35E-06	1.17YrCanc	1.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
216	ALL	383693	3743559	1.81E-06	1.17YrCanc	1.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
217	ALL	383713	3743559	1.92E-06	1.17YrCanc	1.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
218	ALL	383733	3743559	2.02E-06	1.17YrCanc	2.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
219	ALL	383753	3743559	2.11E-06	1.17YrCanc	2.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
220	ALL	383773	3743559	2.18E-06	1.17YrCanc	2.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
221	ALL	383793	3743559	2.24E-06	1.17YrCanc	2.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
222	ALL	383813	3743559	2.26E-06	1.17YrCanc	2.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
223	ALL	383833	3743559	2.26E-06	1.17YrCanc	2.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
224	ALL	383853	3743559	2.23E-06	1.17YrCanc	2.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
225	ALL	383873	3743559	2.17E-06	1.17YrCanc	2.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
226	ALL	383893	3743559	2.09E-06	1.17YrCanc	2.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
227	ALL	383913	3743559	2.00E-06	1.17YrCanc	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
228	ALL	383933	3743559	1.89E-06	1.17YrCanc	1.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
229	ALL	383953	3743559	1.77E-06	1.17YrCanc	1.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
230	ALL	383973	3743559	1.65E-06	1.17YrCanc	1.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
231	ALL	383993	3743559	1.52E-06	1.17YrCanc	1.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
232	ALL	384013	3743559	1.41E-06	1.17YrCanc	1.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
233	ALL	384033	3743559	1.29E-06	1.17YrCanc	1.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
234	ALL	383253	3743579	3.43E-07	1.17YrCanc	3.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
235	ALL	383273	3743579	3.67E-07	1.17YrCanc	3.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
236	ALL	383293	3743579	3.93E-07	1.17YrCanc	3.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
237	ALL	383313	3743579	4.23E-07	1.17YrCanc	4.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
238	ALL	383333	3743579	4.55E-07	1.17YrCanc	4.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
239	ALL	383353	3743579	4.91E-07	1.17YrCanc	4.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
240	ALL	383373	3743579	5.31E-07	1.17YrCanc	5.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
241	ALL	383393	3743579	5.76E-07	1.17YrCanc	5.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
242	ALL	383413	3743579	6.26E-07	1.17YrCanc	6.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
243	ALL	383433	3743579	6.82E-07	1.17YrCanc	6.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
244	ALL	383453	3743579	7.45E-07	1.17YrCanc	7.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
245	ALL	383473	3743579	8.16E-07	1.17YrCanc	8.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
246	ALL	383493	3743579	8.95E-07	1.17YrCanc	8.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
247	ALL	383513	3743579	9.84E-07	1.17YrCanc	9.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
248	ALL	383533	3743579	1.08E-06	1.17YrCanc	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
249	ALL	383553	3743579	1.19E-06	1.17YrCanc	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
250	ALL	383573	3743579	1.32E-06	1.17YrCanc	1.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
251	ALL	383593	3743579	1.45E-06	1.17YrCanc	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
252	ALL	383613	3743579	1.60E-06	1.17YrCanc	1.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
253	ALL	383693	3743579	2.23E-06	1.17YrCanc	2.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
254	ALL	383713	3743579	2.38E-06	1.17YrCanc	2.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
255	ALL	383733	3743579	2.52E-06	1.17YrCanc	2.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
256	ALL	383753	3743579	2.63E-06	1.17YrCanc	2.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
257	ALL	383773	3743579	2.70E-06	1.17YrCanc	2.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
258	ALL	383793	3743579	2.74E-06	1.17YrCanc	2.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
259	ALL	383813	3743579	2.74E-06	1.17YrCanc	2.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
260	ALL	383833	3743579	2.70E-06	1.17YrCanc	2.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
261	ALL	383853	3743579	2.62E-06	1.17YrCanc	2.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
262	ALL	383873	3743579	2.51E-06	1.17YrCanc	2.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
263	ALL	383893	3743579	2.38E-06	1.17YrCanc	2.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
264	ALL	383913	3743579	2.23E-06	1.17YrCanc	2.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
265	ALL	383933	3743579	2.07E-06	1.17YrCanc	2.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
266	ALL	383953	3743579	1.91E-06	1.17YrCanc	1.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
267	ALL	383973	3743579	1.75E-06	1.17YrCanc	1.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
268	ALL	383993	3743579	1.59E-06	1.17YrCanc	1.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
269	ALL	384013	3743579	1.45E-06	1.17YrCanc	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
270	ALL	384033	3743579	1.32E-06	1.17YrCanc	1.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
271	ALL	383253	3743599	3.57E-07	1.17YrCanc	3.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
272	ALL	383273	3743599	3.83E-07	1.17YrCanc	3.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

273	ALL	383293	3743599	4.12E-07	1.17YrCanc	4.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
274	ALL	383313	3743599	4.44E-07	1.17YrCanc	4.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
275	ALL	383333	3743599	4.80E-07	1.17YrCanc	4.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
276	ALL	383353	3743599	5.20E-07	1.17YrCanc	5.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
277	ALL	383373	3743599	5.65E-07	1.17YrCanc	5.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
278	ALL	383393	3743599	6.16E-07	1.17YrCanc	6.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
279	ALL	383413	3743599	6.73E-07	1.17YrCanc	6.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
280	ALL	383433	3743599	7.38E-07	1.17YrCanc	7.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
281	ALL	383453	3743599	8.12E-07	1.17YrCanc	8.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
282	ALL	383473	3743599	8.96E-07	1.17YrCanc	8.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
283	ALL	383493	3743599	9.92E-07	1.17YrCanc	9.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
284	ALL	383513	3743599	1.10E-06	1.17YrCanc	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
285	ALL	383533	3743599	1.23E-06	1.17YrCanc	1.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
286	ALL	383553	3743599	1.37E-06	1.17YrCanc	1.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
287	ALL	383573	3743599	1.53E-06	1.17YrCanc	1.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
288	ALL	383593	3743599	1.72E-06	1.17YrCanc	1.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
289	ALL	383613	3743599	1.92E-06	1.17YrCanc	1.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
290	ALL	383693	3743599	2.83E-06	1.17YrCanc	2.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
291	ALL	383713	3743599	3.04E-06	1.17YrCanc	3.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
292	ALL	383733	3743599	3.21E-06	1.17YrCanc	3.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
293	ALL	383753	3743599	3.35E-06	1.17YrCanc	3.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
294	ALL	383773	3743599	3.42E-06	1.17YrCanc	3.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
295	ALL	383793	3743599	3.42E-06	1.17YrCanc	3.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
296	ALL	383813	3743599	3.36E-06	1.17YrCanc	3.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
297	ALL	383833	3743599	3.24E-06	1.17YrCanc	3.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
298	ALL	383853	3743599	3.08E-06	1.17YrCanc	3.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
299	ALL	383873	3743599	2.88E-06	1.17YrCanc	2.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
300	ALL	383893	3743599	2.67E-06	1.17YrCanc	2.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
301	ALL	383913	3743599	2.45E-06	1.17YrCanc	2.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
302	ALL	383933	3743599	2.24E-06	1.17YrCanc	2.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
303	ALL	383953	3743599	2.03E-06	1.17YrCanc	2.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
304	ALL	383973	3743599	1.83E-06	1.17YrCanc	1.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
305	ALL	383993	3743599	1.64E-06	1.17YrCanc	1.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
306	ALL	384013	3743599	1.48E-06	1.17YrCanc	1.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
307	ALL	384033	3743599	1.32E-06	1.17YrCanc	1.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
308	ALL	383253	3743619	3.71E-07	1.17YrCanc	3.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
309	ALL	383273	3743619	3.99E-07	1.17YrCanc	3.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
310	ALL	383293	3743619	4.30E-07	1.17YrCanc	4.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
311	ALL	383313	3743619	4.66E-07	1.17YrCanc	4.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
312	ALL	383333	3743619	5.05E-07	1.17YrCanc	5.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
313	ALL	383353	3743619	5.50E-07	1.17YrCanc	5.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
314	ALL	383373	3743619	6.02E-07	1.17YrCanc	6.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
315	ALL	383393	3743619	6.60E-07	1.17YrCanc	6.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
316	ALL	383413	3743619	7.24E-07	1.17YrCanc	7.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
317	ALL	383433	3743619	8.00E-07	1.17YrCanc	8.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
318	ALL	383453	3743619	8.86E-07	1.17YrCanc	8.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
319	ALL	383473	3743619	9.86E-07	1.17YrCanc	9.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
320	ALL	383493	3743619	1.10E-06	1.17YrCanc	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
321	ALL	383513	3743619	1.24E-06	1.17YrCanc	1.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
322	ALL	383533	3743619	1.39E-06	1.17YrCanc	1.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
323	ALL	383553	3743619	1.58E-06	1.17YrCanc	1.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
324	ALL	383573	3743619	1.80E-06	1.17YrCanc	1.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
325	ALL	383593	3743619	2.06E-06	1.17YrCanc	2.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
326	ALL	383613	3743619	2.35E-06	1.17YrCanc	2.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
327	ALL	383693	3743619	3.75E-06	1.17YrCanc	3.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
328	ALL	383713	3743619	4.04E-06	1.17YrCanc	4.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
329	ALL	383733	3743619	4.26E-06	1.17YrCanc	4.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
330	ALL	383753	3743619	4.40E-06	1.17YrCanc	4.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
331	ALL	383773	3743619	4.42E-06	1.17YrCanc	4.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
332	ALL	383793	3743619	4.32E-06	1.17YrCanc	4.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
333	ALL	383813	3743619	4.14E-06	1.17YrCanc	4.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
334	ALL	383833	3743619	3.89E-06	1.17YrCanc	3.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
335	ALL	383853	3743619	3.59E-06	1.17YrCanc	3.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
336	ALL	383873	3743619	3.28E-06	1.17YrCanc	3.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
337	ALL	383893	3743619	2.97E-06	1.17YrCanc	2.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
338	ALL	383913	3743619	2.66E-06	1.17YrCanc	2.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
339	ALL	383933	3743619	2.38E-06	1.17YrCanc	2.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
340	ALL	383953	3743619	2.12E-06	1.17YrCanc	2.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
341	ALL	383973	3743619	1.88E-06	1.17YrCanc	1.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
342	ALL	383993	3743619	1.66E-06	1.17YrCanc	1.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
343	ALL	384013	3743619	1.47E-06	1.17YrCanc	1.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
344	ALL	384033	3743619	1.31E-06	1.17YrCanc	1.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
345	ALL	383253	3743639	3.85E-07	1.17YrCanc	3.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
346	ALL	383273	3743639	4.15E-07	1.17YrCanc	4.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
347	ALL	383293	3743639	4.50E-07	1.17YrCanc	4.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
348	ALL	383313	3743639	4.89E-07	1.17YrCanc	4.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
349	ALL	383333	3743639	5.32E-07	1.17YrCanc	5.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
350	ALL	383353	3743639	5.82E-07	1.17YrCanc	5.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
351	ALL	383373	3743639	6.40E-07	1.17YrCanc	6.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
352	ALL	383393	3743639	7.06E-07	1.17YrCanc	7.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
353	ALL	383413	3743639	7.80E-07	1.17YrCanc	7.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
354	ALL	383433	3743639	8.68E-07	1.17YrCanc	8.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
355	ALL	383453	3743639	9.70E-07	1.17YrCanc	9.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
356	ALL	383473	3743639	1.09E-06	1.17YrCanc	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
357	ALL	383493	3743639	1.23E-06	1.17YrCanc	1.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
358	ALL	383513	3743639	1.39E-06	1.17YrCanc	1.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
359	ALL	383533	3743639	1.59E-06	1.17YrCanc	1.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
360	ALL	383553	3743639	1.84E-06	1.17YrCanc	1.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
361	ALL	383573	3743639	2.14E-06	1.17YrCanc	2.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
362	ALL	383593	3743639	2.51E-06	1.17YrCanc	2.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
363	ALL	383613	3743639	2.96E-06	1.17YrCanc	2.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

364	ALL	383693	3743639	5.22E-06	1.17YrCanc	5.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
365	ALL	383713	3743639	5.63E-06	1.17YrCanc	5.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
366	ALL	383733	3743639	5.87E-06	1.17YrCanc	5.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
367	ALL	383753	3743639	5.96E-06	1.17YrCanc	5.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
368	ALL	383773	3743639	5.86E-06	1.17YrCanc	5.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
369	ALL	383793	3743639	5.56E-06	1.17YrCanc	5.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
370	ALL	383813	3743639	5.13E-06	1.17YrCanc	5.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
371	ALL	383833	3743639	4.64E-06	1.17YrCanc	4.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
372	ALL	383853	3743639	4.14E-06	1.17YrCanc	4.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
373	ALL	383873	3743639	3.68E-06	1.17YrCanc	3.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
374	ALL	383893	3743639	3.24E-06	1.17YrCanc	3.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
375	ALL	383913	3743639	2.84E-06	1.17YrCanc	2.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
376	ALL	383933	3743639	2.48E-06	1.17YrCanc	2.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
377	ALL	383953	3743639	2.16E-06	1.17YrCanc	2.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
378	ALL	383973	3743639	1.88E-06	1.17YrCanc	1.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
379	ALL	383993	3743639	1.65E-06	1.17YrCanc	1.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
380	ALL	384013	3743639	1.44E-06	1.17YrCanc	1.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
381	ALL	384033	3743639	1.27E-06	1.17YrCanc	1.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
382	ALL	383253	3743659	3.99E-07	1.17YrCanc	3.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
383	ALL	383273	3743659	4.31E-07	1.17YrCanc	4.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
384	ALL	383293	3743659	4.69E-07	1.17YrCanc	4.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
385	ALL	383313	3743659	5.11E-07	1.17YrCanc	5.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
386	ALL	383333	3743659	5.59E-07	1.17YrCanc	5.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
387	ALL	383353	3743659	6.15E-07	1.17YrCanc	6.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
388	ALL	383373	3743659	6.80E-07	1.17YrCanc	6.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
389	ALL	383393	3743659	7.56E-07	1.17YrCanc	7.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
390	ALL	383413	3743659	8.42E-07	1.17YrCanc	8.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
391	ALL	383433	3743659	9.44E-07	1.17YrCanc	9.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
392	ALL	383453	3743659	1.06E-06	1.17YrCanc	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
393	ALL	383473	3743659	1.21E-06	1.17YrCanc	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
394	ALL	383493	3743659	1.37E-06	1.17YrCanc	1.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
395	ALL	383513	3743659	1.58E-06	1.17YrCanc	1.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
396	ALL	383533	3743659	1.83E-06	1.17YrCanc	1.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
397	ALL	383553	3743659	2.14E-06	1.17YrCanc	2.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
398	ALL	383573	3743659	2.56E-06	1.17YrCanc	2.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
399	ALL	383593	3743659	3.11E-06	1.17YrCanc	3.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
400	ALL	383613	3743659	3.86E-06	1.17YrCanc	3.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
401	ALL	383893	3743659	3.47E-06	1.17YrCanc	3.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
402	ALL	383913	3743659	2.96E-06	1.17YrCanc	2.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
403	ALL	383933	3743659	2.53E-06	1.17YrCanc	2.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
404	ALL	383953	3743659	2.16E-06	1.17YrCanc	2.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
405	ALL	383973	3743659	1.85E-06	1.17YrCanc	1.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
406	ALL	383993	3743659	1.59E-06	1.17YrCanc	1.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
407	ALL	384013	3743659	1.38E-06	1.17YrCanc	1.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
408	ALL	384033	3743659	1.21E-06	1.17YrCanc	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
409	ALL	383253	3743679	4.12E-07	1.17YrCanc	4.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
410	ALL	383273	3743679	4.47E-07	1.17YrCanc	4.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
411	ALL	383293	3743679	4.88E-07	1.17YrCanc	4.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
412	ALL	383313	3743679	5.34E-07	1.17YrCanc	5.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
413	ALL	383333	3743679	5.87E-07	1.17YrCanc	5.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
414	ALL	383353	3743679	6.49E-07	1.17YrCanc	6.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
415	ALL	383373	3743679	7.23E-07	1.17YrCanc	7.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
416	ALL	383393	3743679	8.09E-07	1.17YrCanc	8.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
417	ALL	383413	3743679	9.09E-07	1.17YrCanc	9.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
418	ALL	383433	3743679	1.03E-06	1.17YrCanc	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
419	ALL	383893	3743679	3.62E-06	1.17YrCanc	3.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
420	ALL	383913	3743679	3.00E-06	1.17YrCanc	3.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
421	ALL	383933	3743679	2.50E-06	1.17YrCanc	2.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
422	ALL	383953	3743679	2.09E-06	1.17YrCanc	2.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
423	ALL	383973	3743679	1.77E-06	1.17YrCanc	1.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
424	ALL	383993	3743679	1.51E-06	1.17YrCanc	1.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
425	ALL	384013	3743679	1.30E-06	1.17YrCanc	1.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
426	ALL	384033	3743679	1.13E-06	1.17YrCanc	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
427	ALL	383253	3743699	4.25E-07	1.17YrCanc	4.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
428	ALL	383273	3743699	4.63E-07	1.17YrCanc	4.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
429	ALL	383293	3743699	5.06E-07	1.17YrCanc	5.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
430	ALL	383313	3743699	5.56E-07	1.17YrCanc	5.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
431	ALL	383333	3743699	6.14E-07	1.17YrCanc	6.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
432	ALL	383353	3743699	6.84E-07	1.17YrCanc	6.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
433	ALL	383373	3743699	7.67E-07	1.17YrCanc	7.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
434	ALL	383393	3743699	8.66E-07	1.17YrCanc	8.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
435	ALL	383413	3743699	9.84E-07	1.17YrCanc	9.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
436	ALL	383433	3743699	1.13E-06	1.17YrCanc	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
437	ALL	383893	3743699	3.64E-06	1.17YrCanc	3.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
438	ALL	383913	3743699	2.92E-06	1.17YrCanc	2.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
439	ALL	383933	3743699	2.38E-06	1.17YrCanc	2.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
440	ALL	383953	3743699	1.96E-06	1.17YrCanc	1.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
441	ALL	383973	3743699	1.64E-06	1.17YrCanc	1.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
442	ALL	383993	3743699	1.39E-06	1.17YrCanc	1.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
443	ALL	384013	3743699	1.20E-06	1.17YrCanc	1.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
444	ALL	384033	3743699	1.04E-06	1.17YrCanc	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
445	ALL	383253	3743719	4.37E-07	1.17YrCanc	4.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
446	ALL	383273	3743719	4.77E-07	1.17YrCanc	4.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
447	ALL	383293	3743719	5.23E-07	1.17YrCanc	5.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
448	ALL	383313	3743719	5.77E-07	1.17YrCanc	5.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
449	ALL	383333	3743719	6.41E-07	1.17YrCanc	6.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
450	ALL	383353	3743719	7.17E-07	1.17YrCanc	7.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
451	ALL	383373	3743719	8.11E-07	1.17YrCanc	8.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
452	ALL	383393	3743719	9.26E-07	1.17YrCanc	9.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
453	ALL	383413	3743719	1.07E-06	1.17YrCanc	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
454	ALL	383433	3743719	1.25E-06	1.17YrCanc	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

455	ALL	383893	3743719	3.48E-06	1.17YrCanc	3.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
456	ALL	383913	3743719	2.71E-06	1.17YrCanc	2.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
457	ALL	383933	3743719	2.18E-06	1.17YrCanc	2.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
458	ALL	383953	3743719	1.79E-06	1.17YrCanc	1.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
459	ALL	383973	3743719	1.49E-06	1.17YrCanc	1.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
460	ALL	383993	3743719	1.27E-06	1.17YrCanc	1.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
461	ALL	384013	3743719	1.09E-06	1.17YrCanc	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
462	ALL	384033	3743719	9.52E-07	1.17YrCanc	9.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
463	ALL	383253	3743739	4.48E-07	1.17YrCanc	4.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
464	ALL	383273	3743739	4.89E-07	1.17YrCanc	4.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
465	ALL	383293	3743739	5.38E-07	1.17YrCanc	5.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
466	ALL	383313	3743739	5.96E-07	1.17YrCanc	5.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
467	ALL	383333	3743739	6.64E-07	1.17YrCanc	6.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
468	ALL	383353	3743739	7.48E-07	1.17YrCanc	7.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
469	ALL	383373	3743739	8.53E-07	1.17YrCanc	8.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
470	ALL	383393	3743739	9.86E-07	1.17YrCanc	9.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
471	ALL	383413	3743739	1.16E-06	1.17YrCanc	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
472	ALL	383433	3743739	1.39E-06	1.17YrCanc	1.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
473	ALL	383893	3743739	3.10E-06	1.17YrCanc	3.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
474	ALL	383913	3743739	2.40E-06	1.17YrCanc	2.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
475	ALL	383933	3743739	1.93E-06	1.17YrCanc	1.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
476	ALL	383953	3743739	1.59E-06	1.17YrCanc	1.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
477	ALL	383973	3743739	1.33E-06	1.17YrCanc	1.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
478	ALL	383993	3743739	1.14E-06	1.17YrCanc	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
479	ALL	384013	3743739	9.91E-07	1.17YrCanc	9.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
480	ALL	384033	3743739	8.70E-07	1.17YrCanc	8.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
481	ALL	383253	3743759	4.56E-07	1.17YrCanc	4.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
482	ALL	383273	3743759	4.99E-07	1.17YrCanc	4.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
483	ALL	383293	3743759	5.50E-07	1.17YrCanc	5.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
484	ALL	383313	3743759	6.10E-07	1.17YrCanc	6.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
485	ALL	383333	3743759	6.83E-07	1.17YrCanc	6.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
486	ALL	383353	3743759	7.73E-07	1.17YrCanc	7.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
487	ALL	383373	3743759	8.88E-07	1.17YrCanc	8.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
488	ALL	383393	3743759	1.04E-06	1.17YrCanc	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
489	ALL	383413	3743759	1.25E-06	1.17YrCanc	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
490	ALL	383433	3743759	1.57E-06	1.17YrCanc	1.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
491	ALL	383893	3743759	2.64E-06	1.17YrCanc	2.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
492	ALL	383913	3743759	2.07E-06	1.17YrCanc	2.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
493	ALL	383933	3743759	1.68E-06	1.17YrCanc	1.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
494	ALL	383953	3743759	1.40E-06	1.17YrCanc	1.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
495	ALL	383973	3743759	1.19E-06	1.17YrCanc	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
496	ALL	383993	3743759	1.03E-06	1.17YrCanc	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
497	ALL	384013	3743759	8.99E-07	1.17YrCanc	8.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
498	ALL	384033	3743759	7.95E-07	1.17YrCanc	7.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
499	ALL	383253	3743779	4.62E-07	1.17YrCanc	4.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
500	ALL	383893	3743779	2.22E-06	1.17YrCanc	2.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
501	ALL	383913	3743779	1.78E-06	1.17YrCanc	1.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
502	ALL	383933	3743779	1.47E-06	1.17YrCanc	1.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
503	ALL	383953	3743779	1.24E-06	1.17YrCanc	1.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
504	ALL	383973	3743779	1.07E-06	1.17YrCanc	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
505	ALL	383993	3743779	9.32E-07	1.17YrCanc	9.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
506	ALL	384013	3743779	8.22E-07	1.17YrCanc	8.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
507	ALL	384033	3743779	7.31E-07	1.17YrCanc	7.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
508	ALL	383253	3743799	4.65E-07	1.17YrCanc	4.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
509	ALL	383853	3743799	3.21E-06	1.17YrCanc	3.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
510	ALL	383873	3743799	2.42E-06	1.17YrCanc	2.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
511	ALL	383893	3743799	1.91E-06	1.17YrCanc	1.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
512	ALL	383913	3743799	1.57E-06	1.17YrCanc	1.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
513	ALL	383933	3743799	1.31E-06	1.17YrCanc	1.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
514	ALL	383953	3743799	1.12E-06	1.17YrCanc	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
515	ALL	383973	3743799	9.75E-07	1.17YrCanc	9.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
516	ALL	383993	3743799	8.56E-07	1.17YrCanc	8.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
517	ALL	384013	3743799	7.59E-07	1.17YrCanc	7.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
518	ALL	384033	3743799	6.79E-07	1.17YrCanc	6.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
519	ALL	383253	3743819	4.64E-07	1.17YrCanc	4.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
520	ALL	383793	3743819	4.79E-06	1.17YrCanc	4.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
521	ALL	383813	3743819	4.16E-06	1.17YrCanc	4.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
522	ALL	383833	3743819	3.37E-06	1.17YrCanc	3.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
523	ALL	383853	3743819	2.65E-06	1.17YrCanc	2.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
524	ALL	383873	3743819	2.09E-06	1.17YrCanc	2.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
525	ALL	383893	3743819	1.69E-06	1.17YrCanc	1.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
526	ALL	383913	3743819	1.41E-06	1.17YrCanc	1.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
527	ALL	383933	3743819	1.19E-06	1.17YrCanc	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
528	ALL	383953	3743819	1.03E-06	1.17YrCanc	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
529	ALL	383973	3743819	8.99E-07	1.17YrCanc	8.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
530	ALL	383993	3743819	7.94E-07	1.17YrCanc	7.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
531	ALL	384013	3743819	7.08E-07	1.17YrCanc	7.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
532	ALL	384033	3743819	6.36E-07	1.17YrCanc	6.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
533	ALL	383253	3743839	4.59E-07	1.17YrCanc	4.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
534	ALL	383793	3743839	3.57E-06	1.17YrCanc	3.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
535	ALL	383813	3743839	3.16E-06	1.17YrCanc	3.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
536	ALL	383833	3743839	2.68E-06	1.17YrCanc	2.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
537	ALL	383853	3743839	2.22E-06	1.17YrCanc	2.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
538	ALL	383873	3743839	1.82E-06	1.17YrCanc	1.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
539	ALL	383893	3743839	1.51E-06	1.17YrCanc	1.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
540	ALL	383913	3743839	1.28E-06	1.17YrCanc	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
541	ALL	383933	3743839	1.10E-06	1.17YrCanc	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
542	ALL	383953	3743839	9.52E-07	1.17YrCanc	9.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
543	ALL	383973	3743839	8.36E-07	1.17YrCanc	8.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
544	ALL	383993	3743839	7.42E-07	1.17YrCanc	7.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
545	ALL	384013	3743839	6.65E-07	1.17YrCanc	6.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

546	ALL	383253	3743859	4.51E-07	1.17YrCanc	4.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
547	ALL	383793	3743859	2.80E-06	1.17YrCanc	2.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
548	ALL	383813	3743859	2.52E-06	1.17YrCanc	2.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
549	ALL	383833	3743859	2.20E-06	1.17YrCanc	2.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
550	ALL	383853	3743859	1.88E-06	1.17YrCanc	1.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
551	ALL	383873	3743859	1.60E-06	1.17YrCanc	1.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
552	ALL	383893	3743859	1.36E-06	1.17YrCanc	1.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
553	ALL	383913	3743859	1.16E-06	1.17YrCanc	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
554	ALL	383933	3743859	1.01E-06	1.17YrCanc	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
555	ALL	383953	3743859	8.84E-07	1.17YrCanc	8.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
556	ALL	383973	3743859	7.82E-07	1.17YrCanc	7.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
557	ALL	383993	3743859	6.98E-07	1.17YrCanc	6.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
558	ALL	383253	3743879	4.39E-07	1.17YrCanc	4.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
559	ALL	383793	3743879	2.27E-06	1.17YrCanc	2.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
560	ALL	383813	3743879	2.07E-06	1.17YrCanc	2.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
561	ALL	383833	3743879	1.85E-06	1.17YrCanc	1.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
562	ALL	383853	3743879	1.62E-06	1.17YrCanc	1.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
563	ALL	383873	3743879	1.41E-06	1.17YrCanc	1.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
564	ALL	383893	3743879	1.22E-06	1.17YrCanc	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
565	ALL	383913	3743879	1.06E-06	1.17YrCanc	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
566	ALL	383933	3743879	9.32E-07	1.17YrCanc	9.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
567	ALL	383953	3743879	8.24E-07	1.17YrCanc	8.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
568	ALL	383973	3743879	7.33E-07	1.17YrCanc	7.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
569	ALL	383253	3743899	4.24E-07	1.17YrCanc	4.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
570	ALL	383773	3743899	2.03E-06	1.17YrCanc	2.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
571	ALL	383793	3743899	1.90E-06	1.17YrCanc	1.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
572	ALL	383813	3743899	1.75E-06	1.17YrCanc	1.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
573	ALL	383833	3743899	1.58E-06	1.17YrCanc	1.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
574	ALL	383853	3743899	1.41E-06	1.17YrCanc	1.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
575	ALL	383873	3743899	1.25E-06	1.17YrCanc	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
576	ALL	383893	3743899	1.10E-06	1.17YrCanc	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
577	ALL	383913	3743899	9.74E-07	1.17YrCanc	9.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
578	ALL	383933	3743899	8.63E-07	1.17YrCanc	8.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
579	ALL	383953	3743899	7.69E-07	1.17YrCanc	7.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
580	ALL	383973	3743899	6.89E-07	1.17YrCanc	6.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
581	ALL	383253	3743919	4.08E-07	1.17YrCanc	4.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
582	ALL	383773	3743919	1.71E-06	1.17YrCanc	1.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
583	ALL	383793	3743919	1.62E-06	1.17YrCanc	1.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
584	ALL	383813	3743919	1.50E-06	1.17YrCanc	1.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
585	ALL	383833	3743919	1.38E-06	1.17YrCanc	1.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
586	ALL	383853	3743919	1.25E-06	1.17YrCanc	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
587	ALL	383873	3743919	1.12E-06	1.17YrCanc	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
588	ALL	383893	3743919	9.99E-07	1.17YrCanc	9.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
589	ALL	383913	3743919	8.92E-07	1.17YrCanc	8.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
590	ALL	383933	3743919	7.99E-07	1.17YrCanc	7.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
591	ALL	383953	3743919	7.17E-07	1.17YrCanc	7.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
592	ALL	383253	3743939	3.91E-07	1.17YrCanc	3.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
593	ALL	383273	3743939	4.17E-07	1.17YrCanc	4.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
594	ALL	383293	3743939	4.46E-07	1.17YrCanc	4.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
595	ALL	383313	3743939	4.77E-07	1.17YrCanc	4.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
596	ALL	383333	3743939	5.12E-07	1.17YrCanc	5.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
597	ALL	383353	3743939	5.50E-07	1.17YrCanc	5.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
598	ALL	383373	3743939	5.93E-07	1.17YrCanc	5.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
599	ALL	383393	3743939	6.40E-07	1.17YrCanc	6.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
600	ALL	383413	3743939	6.92E-07	1.17YrCanc	6.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
601	ALL	383433	3743939	7.50E-07	1.17YrCanc	7.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
602	ALL	383453	3743939	8.12E-07	1.17YrCanc	8.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
603	ALL	383773	3743939	1.46E-06	1.17YrCanc	1.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
604	ALL	383793	3743939	1.39E-06	1.17YrCanc	1.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
605	ALL	383813	3743939	1.30E-06	1.17YrCanc	1.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
606	ALL	383833	3743939	1.21E-06	1.17YrCanc	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
607	ALL	383853	3743939	1.11E-06	1.17YrCanc	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
608	ALL	383873	3743939	1.00E-06	1.17YrCanc	1.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
609	ALL	383893	3743939	9.07E-07	1.17YrCanc	9.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
610	ALL	383913	3743939	8.19E-07	1.17YrCanc	8.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
611	ALL	383933	3743939	7.39E-07	1.17YrCanc	7.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
612	ALL	383253	3743959	3.73E-07	1.17YrCanc	3.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
613	ALL	383273	3743959	3.96E-07	1.17YrCanc	3.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
614	ALL	383293	3743959	4.22E-07	1.17YrCanc	4.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
615	ALL	383313	3743959	4.49E-07	1.17YrCanc	4.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
616	ALL	383333	3743959	4.79E-07	1.17YrCanc	4.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
617	ALL	383353	3743959	5.13E-07	1.17YrCanc	5.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
618	ALL	383373	3743959	5.49E-07	1.17YrCanc	5.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
619	ALL	383393	3743959	5.89E-07	1.17YrCanc	5.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
620	ALL	383413	3743959	6.33E-07	1.17YrCanc	6.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
621	ALL	383433	3743959	6.81E-07	1.17YrCanc	6.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
622	ALL	383453	3743959	7.32E-07	1.17YrCanc	7.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
623	ALL	383773	3743959	1.27E-06	1.17YrCanc	1.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
624	ALL	383793	3743959	1.21E-06	1.17YrCanc	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
625	ALL	383813	3743959	1.14E-06	1.17YrCanc	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
626	ALL	383833	3743959	1.07E-06	1.17YrCanc	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
627	ALL	383853	3743959	9.88E-07	1.17YrCanc	9.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
628	ALL	383873	3743959	9.06E-07	1.17YrCanc	9.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
629	ALL	383893	3743959	8.27E-07	1.17YrCanc	8.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
630	ALL	383913	3743959	7.53E-07	1.17YrCanc	7.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
631	ALL	383253	3743979	3.55E-07	1.17YrCanc	3.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
632	ALL	383273	3743979	3.76E-07	1.17YrCanc	3.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
633	ALL	383293	3743979	3.98E-07	1.17YrCanc	3.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
634	ALL	383313	3743979	4.23E-07	1.17YrCanc	4.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
635	ALL	383333	3743979	4.49E-07	1.17YrCanc	4.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
636	ALL	383353	3743979	4.78E-07	1.17YrCanc	4.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

637	ALL	383373	3743979	5.09E-07	1.17YrCanc	5.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
638	ALL	383393	3743979	5.44E-07	1.17YrCanc	5.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
639	ALL	383413	3743979	5.81E-07	1.17YrCanc	5.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
640	ALL	383433	3743979	6.21E-07	1.17YrCanc	6.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
641	ALL	383453	3743979	6.64E-07	1.17YrCanc	6.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
642	ALL	383773	3743979	1.11E-06	1.17YrCanc	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
643	ALL	383793	3743979	1.07E-06	1.17YrCanc	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
644	ALL	383813	3743979	1.01E-06	1.17YrCanc	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
645	ALL	383833	3743979	9.53E-07	1.17YrCanc	9.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
646	ALL	383853	3743979	8.88E-07	1.17YrCanc	8.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
647	ALL	383873	3743979	8.21E-07	1.17YrCanc	8.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
648	ALL	383893	3743979	7.57E-07	1.17YrCanc	7.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
649	ALL	383253	3743999	3.38E-07	1.17YrCanc	3.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
650	ALL	383273	3743999	3.56E-07	1.17YrCanc	3.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
651	ALL	383293	3743999	3.76E-07	1.17YrCanc	3.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
652	ALL	383313	3743999	3.98E-07	1.17YrCanc	3.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
653	ALL	383333	3743999	4.21E-07	1.17YrCanc	4.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
654	ALL	383353	3743999	4.46E-07	1.17YrCanc	4.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
655	ALL	383373	3743999	4.73E-07	1.17YrCanc	4.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
656	ALL	383393	3743999	5.03E-07	1.17YrCanc	5.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
657	ALL	383413	3743999	5.35E-07	1.17YrCanc	5.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
658	ALL	383433	3743999	5.69E-07	1.17YrCanc	5.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
659	ALL	383453	3743999	6.05E-07	1.17YrCanc	6.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
660	ALL	383773	3743999	9.79E-07	1.17YrCanc	9.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
661	ALL	383793	3743999	9.45E-07	1.17YrCanc	9.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
662	ALL	383813	3743999	9.03E-07	1.17YrCanc	9.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
663	ALL	383833	3743999	8.55E-07	1.17YrCanc	8.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
664	ALL	383853	3743999	8.02E-07	1.17YrCanc	8.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
665	ALL	383873	3743999	7.48E-07	1.17YrCanc	7.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
666	ALL	382953	3743179	9.83E-08	1.17YrCanc	9.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
667	ALL	383003	3743179	1.05E-07	1.17YrCanc	1.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
668	ALL	383053	3743179	1.13E-07	1.17YrCanc	1.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
669	ALL	383103	3743179	1.21E-07	1.17YrCanc	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
670	ALL	383153	3743179	1.16E-07	1.17YrCanc	1.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
671	ALL	383203	3743179	1.32E-07	1.17YrCanc	1.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
672	ALL	383253	3743179	1.47E-07	1.17YrCanc	1.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
673	ALL	383303	3743179	1.60E-07	1.17YrCanc	1.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
674	ALL	383353	3743179	1.71E-07	1.17YrCanc	1.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
675	ALL	383403	3743179	1.82E-07	1.17YrCanc	1.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
676	ALL	383453	3743179	1.94E-07	1.17YrCanc	1.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
677	ALL	383503	3743179	2.05E-07	1.17YrCanc	2.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
678	ALL	383553	3743179	2.17E-07	1.17YrCanc	2.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
679	ALL	383603	3743179	2.29E-07	1.17YrCanc	2.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
680	ALL	383653	3743179	2.40E-07	1.17YrCanc	2.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
681	ALL	383703	3743179	2.52E-07	1.17YrCanc	2.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
682	ALL	383753	3743179	2.64E-07	1.17YrCanc	2.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
683	ALL	383803	3743179	2.75E-07	1.17YrCanc	2.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
684	ALL	383853	3743179	2.85E-07	1.17YrCanc	2.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
685	ALL	383903	3743179	2.96E-07	1.17YrCanc	2.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
686	ALL	383953	3743179	3.07E-07	1.17YrCanc	3.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
687	ALL	384003	3743179	3.18E-07	1.17YrCanc	3.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
688	ALL	384053	3743179	3.29E-07	1.17YrCanc	3.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
689	ALL	384103	3743179	3.38E-07	1.17YrCanc	3.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
690	ALL	384153	3743179	3.45E-07	1.17YrCanc	3.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
691	ALL	384203	3743179	3.48E-07	1.17YrCanc	3.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
692	ALL	384253	3743179	3.47E-07	1.17YrCanc	3.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
693	ALL	384303	3743179	3.41E-07	1.17YrCanc	3.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
694	ALL	384353	3743179	3.30E-07	1.17YrCanc	3.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
695	ALL	382953	3743229	1.05E-07	1.17YrCanc	1.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
696	ALL	383003	3743229	1.13E-07	1.17YrCanc	1.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
697	ALL	383053	3743229	1.21E-07	1.17YrCanc	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
698	ALL	383103	3743229	1.31E-07	1.17YrCanc	1.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
699	ALL	383153	3743229	1.41E-07	1.17YrCanc	1.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
700	ALL	383203	3743229	1.52E-07	1.17YrCanc	1.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
701	ALL	383253	3743229	1.65E-07	1.17YrCanc	1.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
702	ALL	383303	3743229	1.78E-07	1.17YrCanc	1.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
703	ALL	383353	3743229	1.91E-07	1.17YrCanc	1.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
704	ALL	383403	3743229	2.06E-07	1.17YrCanc	2.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
705	ALL	383453	3743229	2.20E-07	1.17YrCanc	2.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
706	ALL	383503	3743229	2.36E-07	1.17YrCanc	2.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
707	ALL	383553	3743229	2.51E-07	1.17YrCanc	2.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
708	ALL	383603	3743229	2.66E-07	1.17YrCanc	2.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
709	ALL	383653	3743229	2.81E-07	1.17YrCanc	2.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
710	ALL	383703	3743229	2.97E-07	1.17YrCanc	2.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
711	ALL	383753	3743229	3.11E-07	1.17YrCanc	3.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
712	ALL	383803	3743229	3.25E-07	1.17YrCanc	3.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
713	ALL	383853	3743229	3.39E-07	1.17YrCanc	3.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
714	ALL	383903	3743229	3.54E-07	1.17YrCanc	3.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
715	ALL	383953	3743229	3.68E-07	1.17YrCanc	3.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
716	ALL	384003	3743229	3.82E-07	1.17YrCanc	3.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
717	ALL	384053	3743229	3.94E-07	1.17YrCanc	3.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718	ALL	384103	3743229	4.03E-07	1.17YrCanc	4.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719	ALL	384153	3743229	4.06E-07	1.17YrCanc	4.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720	ALL	384203	3743229	4.04E-07	1.17YrCanc	4.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721	ALL	384253	3743229	3.96E-07	1.17YrCanc	3.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
722	ALL	384303	3743229	3.81E-07	1.17YrCanc	3.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
723	ALL	384353	3743229	3.63E-07	1.17YrCanc	3.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
724	ALL	382953	3743279	1.11E-07	1.17YrCanc	1.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
725	ALL	383003	3743279	1.20E-07	1.17YrCanc	1.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
726	ALL	383053	3743279	1.30E-07	1.17YrCanc	1.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
727	ALL	383103	3743279	1.41E-07	1.17YrCanc	1.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

728	ALL	383153	3743279	1.54E-07	1.17YrCanc	1.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
729	ALL	383203	3743279	1.67E-07	1.17YrCanc	1.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
730	ALL	383253	3743279	1.82E-07	1.17YrCanc	1.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
731	ALL	383303	3743279	1.98E-07	1.17YrCanc	1.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
732	ALL	383353	3743279	2.16E-07	1.17YrCanc	2.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
733	ALL	383403	3743279	2.34E-07	1.17YrCanc	2.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
734	ALL	383453	3743279	2.54E-07	1.17YrCanc	2.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
735	ALL	383503	3743279	2.74E-07	1.17YrCanc	2.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
736	ALL	383553	3743279	2.94E-07	1.17YrCanc	2.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
737	ALL	383603	3743279	3.14E-07	1.17YrCanc	3.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
738	ALL	383653	3743279	3.34E-07	1.17YrCanc	3.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
739	ALL	383703	3743279	3.54E-07	1.17YrCanc	3.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
740	ALL	383753	3743279	3.74E-07	1.17YrCanc	3.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
741	ALL	383803	3743279	3.93E-07	1.17YrCanc	3.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
742	ALL	383853	3743279	4.12E-07	1.17YrCanc	4.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
743	ALL	383903	3743279	4.31E-07	1.17YrCanc	4.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
744	ALL	383953	3743279	4.49E-07	1.17YrCanc	4.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
745	ALL	384003	3743279	4.66E-07	1.17YrCanc	4.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
746	ALL	384053	3743279	4.78E-07	1.17YrCanc	4.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
747	ALL	384103	3743279	4.82E-07	1.17YrCanc	4.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
748	ALL	384153	3743279	4.78E-07	1.17YrCanc	4.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
749	ALL	384203	3743279	4.66E-07	1.17YrCanc	4.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
750	ALL	384253	3743279	4.46E-07	1.17YrCanc	4.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
751	ALL	384303	3743279	4.20E-07	1.17YrCanc	4.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
752	ALL	384353	3743279	3.91E-07	1.17YrCanc	3.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
753	ALL	382953	3743329	1.18E-07	1.17YrCanc	1.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
754	ALL	383003	3743329	1.28E-07	1.17YrCanc	1.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
755	ALL	383053	3743329	1.40E-07	1.17YrCanc	1.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
756	ALL	383103	3743329	1.53E-07	1.17YrCanc	1.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
757	ALL	383153	3743329	1.68E-07	1.17YrCanc	1.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
758	ALL	383203	3743329	1.84E-07	1.17YrCanc	1.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
759	ALL	383253	3743329	2.02E-07	1.17YrCanc	2.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
760	ALL	383303	3743329	2.22E-07	1.17YrCanc	2.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
761	ALL	383353	3743329	2.45E-07	1.17YrCanc	2.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
762	ALL	383403	3743329	2.69E-07	1.17YrCanc	2.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
763	ALL	383453	3743329	2.95E-07	1.17YrCanc	2.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
764	ALL	383503	3743329	3.21E-07	1.17YrCanc	3.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
765	ALL	383553	3743329	3.49E-07	1.17YrCanc	3.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
766	ALL	383603	3743329	3.77E-07	1.17YrCanc	3.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
767	ALL	383653	3743329	4.05E-07	1.17YrCanc	4.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
768	ALL	383703	3743329	4.32E-07	1.17YrCanc	4.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
769	ALL	383753	3743329	4.59E-07	1.17YrCanc	4.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
770	ALL	383803	3743329	4.86E-07	1.17YrCanc	4.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
771	ALL	383853	3743329	5.12E-07	1.17YrCanc	5.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
772	ALL	383903	3743329	5.38E-07	1.17YrCanc	5.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
773	ALL	383953	3743329	5.60E-07	1.17YrCanc	5.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
774	ALL	384003	3743329	5.77E-07	1.17YrCanc	5.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
775	ALL	384053	3743329	5.83E-07	1.17YrCanc	5.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
776	ALL	384103	3743329	5.77E-07	1.17YrCanc	5.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
777	ALL	384153	3743329	5.58E-07	1.17YrCanc	5.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
778	ALL	384203	3743329	5.29E-07	1.17YrCanc	5.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
779	ALL	384253	3743329	4.93E-07	1.17YrCanc	4.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
780	ALL	384303	3743329	4.52E-07	1.17YrCanc	4.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
781	ALL	384353	3743329	4.11E-07	1.17YrCanc	4.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
782	ALL	382953	3743379	1.25E-07	1.17YrCanc	1.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
783	ALL	383003	3743379	1.37E-07	1.17YrCanc	1.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
784	ALL	383053	3743379	1.50E-07	1.17YrCanc	1.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
785	ALL	383103	3743379	1.65E-07	1.17YrCanc	1.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
786	ALL	383153	3743379	1.83E-07	1.17YrCanc	1.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
787	ALL	383203	3743379	2.03E-07	1.17YrCanc	2.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
788	ALL	383253	3743379	2.25E-07	1.17YrCanc	2.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
789	ALL	383303	3743379	2.51E-07	1.17YrCanc	2.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
790	ALL	383353	3743379	2.79E-07	1.17YrCanc	2.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
791	ALL	383403	3743379	3.11E-07	1.17YrCanc	3.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
792	ALL	383453	3743379	3.46E-07	1.17YrCanc	3.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
793	ALL	383503	3743379	3.84E-07	1.17YrCanc	3.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
794	ALL	383553	3743379	4.22E-07	1.17YrCanc	4.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
795	ALL	383603	3743379	4.62E-07	1.17YrCanc	4.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
796	ALL	383653	3743379	5.03E-07	1.17YrCanc	5.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
797	ALL	383703	3743379	5.43E-07	1.17YrCanc	5.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
798	ALL	383753	3743379	5.82E-07	1.17YrCanc	5.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
799	ALL	383803	3743379	6.20E-07	1.17YrCanc	6.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
800	ALL	383853	3743379	6.57E-07	1.17YrCanc	6.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
801	ALL	383903	3743379	6.90E-07	1.17YrCanc	6.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
802	ALL	383953	3743379	7.14E-07	1.17YrCanc	7.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
803	ALL	384003	3743379	7.23E-07	1.17YrCanc	7.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
804	ALL	384053	3743379	7.13E-07	1.17YrCanc	7.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
805	ALL	384103	3743379	6.84E-07	1.17YrCanc	6.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
806	ALL	384153	3743379	6.41E-07	1.17YrCanc	6.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
807	ALL	384203	3743379	5.88E-07	1.17YrCanc	5.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
808	ALL	384253	3743379	5.31E-07	1.17YrCanc	5.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
809	ALL	384303	3743379	4.74E-07	1.17YrCanc	4.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
810	ALL	384353	3743379	4.20E-07	1.17YrCanc	4.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
811	ALL	382953	3743429	1.33E-07	1.17YrCanc	1.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
812	ALL	383003	3743429	1.46E-07	1.17YrCanc	1.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
813	ALL	383053	3743429	1.61E-07	1.17YrCanc	1.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
814	ALL	383103	3743429	1.79E-07	1.17YrCanc	1.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
815	ALL	383153	3743429	1.99E-07	1.17YrCanc	1.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
816	ALL	383203	3743429	2.23E-07	1.17YrCanc	2.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
817	ALL	383253	3743429	2.50E-07	1.17YrCanc	2.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
818	ALL	383303	3743429	2.83E-07	1.17YrCanc	2.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

819	ALL	383353	3743429	3.21E-07	1.17YrCanc	3.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
820	ALL	383403	3743429	3.64E-07	1.17YrCanc	3.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
821	ALL	383453	3743429	4.12E-07	1.17YrCanc	4.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
822	ALL	383503	3743429	4.66E-07	1.17YrCanc	4.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
823	ALL	383553	3743429	5.24E-07	1.17YrCanc	5.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
824	ALL	383603	3743429	5.84E-07	1.17YrCanc	5.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
825	ALL	383703	3743429	7.06E-07	1.17YrCanc	7.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
826	ALL	383753	3743429	7.65E-07	1.17YrCanc	7.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
827	ALL	383803	3743429	8.22E-07	1.17YrCanc	8.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
828	ALL	383853	3743429	8.74E-07	1.17YrCanc	8.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
829	ALL	383903	3743429	9.12E-07	1.17YrCanc	9.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
830	ALL	383953	3743429	9.26E-07	1.17YrCanc	9.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
831	ALL	384003	3743429	9.08E-07	1.17YrCanc	9.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
832	ALL	384053	3743429	8.62E-07	1.17YrCanc	8.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
833	ALL	384103	3743429	7.94E-07	1.17YrCanc	7.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
834	ALL	384153	3743429	7.14E-07	1.17YrCanc	7.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
835	ALL	384203	3743429	6.31E-07	1.17YrCanc	6.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
836	ALL	384253	3743429	5.53E-07	1.17YrCanc	5.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
837	ALL	384303	3743429	4.80E-07	1.17YrCanc	4.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
838	ALL	384353	3743429	4.16E-07	1.17YrCanc	4.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
839	ALL	382953	3743479	1.40E-07	1.17YrCanc	1.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
840	ALL	383003	3743479	1.55E-07	1.17YrCanc	1.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
841	ALL	383053	3743479	1.72E-07	1.17YrCanc	1.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
842	ALL	383103	3743479	1.92E-07	1.17YrCanc	1.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
843	ALL	383153	3743479	2.16E-07	1.17YrCanc	2.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
844	ALL	383203	3743479	2.45E-07	1.17YrCanc	2.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
845	ALL	384053	3743479	1.02E-06	1.17YrCanc	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
846	ALL	384103	3743479	8.89E-07	1.17YrCanc	8.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
847	ALL	384153	3743479	7.65E-07	1.17YrCanc	7.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
848	ALL	384203	3743479	6.51E-07	1.17YrCanc	6.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
849	ALL	384253	3743479	5.52E-07	1.17YrCanc	5.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
850	ALL	384303	3743479	4.68E-07	1.17YrCanc	4.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
851	ALL	384353	3743479	3.99E-07	1.17YrCanc	3.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
852	ALL	382953	3743529	1.47E-07	1.17YrCanc	1.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
853	ALL	383003	3743529	1.64E-07	1.17YrCanc	1.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
854	ALL	383053	3743529	1.83E-07	1.17YrCanc	1.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
855	ALL	383103	3743529	2.06E-07	1.17YrCanc	2.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
856	ALL	383153	3743529	2.34E-07	1.17YrCanc	2.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
857	ALL	383203	3743529	2.68E-07	1.17YrCanc	2.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
858	ALL	384053	3743529	1.14E-06	1.17YrCanc	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
859	ALL	384103	3743529	9.45E-07	1.17YrCanc	9.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
860	ALL	384153	3743529	7.77E-07	1.17YrCanc	7.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
861	ALL	384203	3743529	6.39E-07	1.17YrCanc	6.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
862	ALL	384253	3743529	5.28E-07	1.17YrCanc	5.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
863	ALL	384303	3743529	4.40E-07	1.17YrCanc	4.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
864	ALL	384353	3743529	3.70E-07	1.17YrCanc	3.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
865	ALL	382953	3743579	1.54E-07	1.17YrCanc	1.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
866	ALL	383003	3743579	1.72E-07	1.17YrCanc	1.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
867	ALL	383053	3743579	1.94E-07	1.17YrCanc	1.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
868	ALL	383103	3743579	2.20E-07	1.17YrCanc	2.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
869	ALL	383153	3743579	2.53E-07	1.17YrCanc	2.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
870	ALL	383203	3743579	2.93E-07	1.17YrCanc	2.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
871	ALL	384053	3743579	1.20E-06	1.17YrCanc	1.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
872	ALL	384103	3743579	9.38E-07	1.17YrCanc	9.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
873	ALL	384153	3743579	7.42E-07	1.17YrCanc	7.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
874	ALL	384203	3743579	5.94E-07	1.17YrCanc	5.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
875	ALL	384253	3743579	4.84E-07	1.17YrCanc	4.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
876	ALL	384303	3743579	4.00E-07	1.17YrCanc	4.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
877	ALL	384353	3743579	3.35E-07	1.17YrCanc	3.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
878	ALL	382953	3743629	1.62E-07	1.17YrCanc	1.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
879	ALL	383003	3743629	1.81E-07	1.17YrCanc	1.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
880	ALL	383053	3743629	2.05E-07	1.17YrCanc	2.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
881	ALL	383103	3743629	2.34E-07	1.17YrCanc	2.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
882	ALL	383153	3743629	2.71E-07	1.17YrCanc	2.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
883	ALL	383203	3743629	3.17E-07	1.17YrCanc	3.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
884	ALL	384053	3743629	1.14E-06	1.17YrCanc	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
885	ALL	384103	3743629	8.61E-07	1.17YrCanc	8.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
886	ALL	384153	3743629	6.66E-07	1.17YrCanc	6.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
887	ALL	384203	3743629	5.28E-07	1.17YrCanc	5.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
888	ALL	384253	3743629	4.28E-07	1.17YrCanc	4.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
889	ALL	384303	3743629	3.55E-07	1.17YrCanc	3.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
890	ALL	384353	3743629	3.00E-07	1.17YrCanc	3.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
891	ALL	382953	3743679	1.68E-07	1.17YrCanc	1.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
892	ALL	383003	3743679	1.90E-07	1.17YrCanc	1.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
893	ALL	383053	3743679	2.16E-07	1.17YrCanc	2.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
894	ALL	383103	3743679	2.48E-07	1.17YrCanc	2.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
895	ALL	383153	3743679	2.89E-07	1.17YrCanc	2.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
896	ALL	383203	3743679	3.42E-07	1.17YrCanc	3.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
897	ALL	384053	3743679	9.90E-07	1.17YrCanc	9.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
898	ALL	384103	3743679	7.38E-07	1.17YrCanc	7.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
899	ALL	384153	3743679	5.72E-07	1.17YrCanc	5.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
900	ALL	384203	3743679	4.56E-07	1.17YrCanc	4.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
901	ALL	384253	3743679	3.75E-07	1.17YrCanc	3.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
902	ALL	384303	3743679	3.14E-07	1.17YrCanc	3.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL	384353	3743679	2.67E-07	1.17YrCanc	2.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
904	ALL	382953	3743729	1.74E-07	1.17YrCanc	1.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
905	ALL	383003	3743729	1.97E-07	1.17YrCanc	1.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
906	ALL	383053	3743729	2.25E-07	1.17YrCanc	2.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
907	ALL	383103	3743729	2.60E-07	1.17YrCanc	2.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
908	ALL	383153	3743729	3.04E-07	1.17YrCanc	3.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
909	ALL	383203	3743729	3.63E-07	1.17YrCanc	3.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

910	ALL	384053	3743729	8.04E-07	1.17YrCanc	8.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
911	ALL	384103	3743729	6.11E-07	1.17YrCanc	6.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
912	ALL	384153	3743729	4.84E-07	1.17YrCanc	4.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
913	ALL	384203	3743729	3.94E-07	1.17YrCanc	3.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
914	ALL	384253	3743729	3.28E-07	1.17YrCanc	3.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
915	ALL	384303	3743729	2.78E-07	1.17YrCanc	2.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
916	ALL	384353	3743729	2.37E-07	1.17YrCanc	2.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
917	ALL	382953	3743779	1.79E-07	1.17YrCanc	1.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
918	ALL	383003	3743779	2.03E-07	1.17YrCanc	2.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
919	ALL	383053	3743779	2.32E-07	1.17YrCanc	2.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
920	ALL	383103	3743779	2.68E-07	1.17YrCanc	2.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
921	ALL	383153	3743779	3.15E-07	1.17YrCanc	3.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
922	ALL	383203	3743779	3.77E-07	1.17YrCanc	3.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
923	ALL	384053	3743779	6.55E-07	1.17YrCanc	6.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
924	ALL	384103	3743779	5.15E-07	1.17YrCanc	5.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
925	ALL	384153	3743779	4.17E-07	1.17YrCanc	4.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
926	ALL	384203	3743779	3.46E-07	1.17YrCanc	3.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
927	ALL	384253	3743779	2.90E-07	1.17YrCanc	2.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
928	ALL	384303	3743779	2.46E-07	1.17YrCanc	2.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
929	ALL	384353	3743779	2.17E-07	1.17YrCanc	2.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
930	ALL	382953	3743829	1.82E-07	1.17YrCanc	1.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
931	ALL	383003	3743829	2.05E-07	1.17YrCanc	2.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
932	ALL	383053	3743829	2.35E-07	1.17YrCanc	2.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
933	ALL	383103	3743829	2.71E-07	1.17YrCanc	2.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
934	ALL	383153	3743829	3.18E-07	1.17YrCanc	3.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
935	ALL	383203	3743829	3.79E-07	1.17YrCanc	3.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
936	ALL	384153	3743829	3.69E-07	1.17YrCanc	3.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
937	ALL	384203	3743829	3.09E-07	1.17YrCanc	3.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
938	ALL	384253	3743829	2.61E-07	1.17YrCanc	2.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
939	ALL	384303	3743829	2.29E-07	1.17YrCanc	2.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
940	ALL	384353	3743829	2.01E-07	1.17YrCanc	2.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
941	ALL	382953	3743879	1.82E-07	1.17YrCanc	1.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
942	ALL	383003	3743879	2.05E-07	1.17YrCanc	2.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
943	ALL	383053	3743879	2.33E-07	1.17YrCanc	2.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
944	ALL	383103	3743879	2.67E-07	1.17YrCanc	2.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
945	ALL	383153	3743879	3.11E-07	1.17YrCanc	3.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
946	ALL	383203	3743879	3.66E-07	1.17YrCanc	3.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
947	ALL	384253	3743879	2.43E-07	1.17YrCanc	2.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
948	ALL	384303	3743879	2.12E-07	1.17YrCanc	2.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
949	ALL	384353	3743879	1.87E-07	1.17YrCanc	1.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
950	ALL	382953	3743929	1.79E-07	1.17YrCanc	1.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
951	ALL	383003	3743929	2.00E-07	1.17YrCanc	2.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
952	ALL	383053	3743929	2.26E-07	1.17YrCanc	2.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
953	ALL	383103	3743929	2.57E-07	1.17YrCanc	2.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
954	ALL	383153	3743929	2.95E-07	1.17YrCanc	2.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
955	ALL	383203	3743929	3.41E-07	1.17YrCanc	3.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
956	ALL	384253	3743929	2.26E-07	1.17YrCanc	2.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
957	ALL	384303	3743929	1.98E-07	1.17YrCanc	1.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
958	ALL	384353	3743929	1.75E-07	1.17YrCanc	1.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
959	ALL	382953	3743979	1.73E-07	1.17YrCanc	1.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
960	ALL	383003	3743979	1.92E-07	1.17YrCanc	1.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
961	ALL	383053	3743979	2.15E-07	1.17YrCanc	2.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
962	ALL	383103	3743979	2.41E-07	1.17YrCanc	2.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
963	ALL	383153	3743979	2.73E-07	1.17YrCanc	2.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
964	ALL	383203	3743979	3.10E-07	1.17YrCanc	3.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
965	ALL	384203	3743979	2.42E-07	1.17YrCanc	2.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
966	ALL	384253	3743979	2.11E-07	1.17YrCanc	2.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL	384303	3743979	1.86E-07	1.17YrCanc	1.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
968	ALL	384353	3743979	1.65E-07	1.17YrCanc	1.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
969	ALL	382953	3744029	1.65E-07	1.17YrCanc	1.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
970	ALL	383003	3744029	1.82E-07	1.17YrCanc	1.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
971	ALL	383053	3744029	2.01E-07	1.17YrCanc	2.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
972	ALL	383103	3744029	2.23E-07	1.17YrCanc	2.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
973	ALL	383153	3744029	2.48E-07	1.17YrCanc	2.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
974	ALL	383203	3744029	2.78E-07	1.17YrCanc	2.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
975	ALL	383253	3744029	3.13E-07	1.17YrCanc	3.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
976	ALL	383303	3744029	3.54E-07	1.17YrCanc	3.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
977	ALL	383353	3744029	4.03E-07	1.17YrCanc	4.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
978	ALL	383403	3744029	4.62E-07	1.17YrCanc	4.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
979	ALL	383453	3744029	5.31E-07	1.17YrCanc	5.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
980	ALL	384153	3744029	2.57E-07	1.17YrCanc	2.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
981	ALL	384203	3744029	2.24E-07	1.17YrCanc	2.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
982	ALL	384253	3744029	1.97E-07	1.17YrCanc	1.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
983	ALL	384303	3744029	1.75E-07	1.17YrCanc	1.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
984	ALL	384353	3744029	1.56E-07	1.17YrCanc	1.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
985	ALL	382953	3744079	1.55E-07	1.17YrCanc	1.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
986	ALL	383003	3744079	1.69E-07	1.17YrCanc	1.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
987	ALL	383053	3744079	1.86E-07	1.17YrCanc	1.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
988	ALL	383103	3744079	2.04E-07	1.17YrCanc	2.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
989	ALL	383153	3744079	2.24E-07	1.17YrCanc	2.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
990	ALL	383203	3744079	2.48E-07	1.17YrCanc	2.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
991	ALL	383253	3744079	2.75E-07	1.17YrCanc	2.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
992	ALL	383303	3744079	3.07E-07	1.17YrCanc	3.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
993	ALL	383353	3744079	3.44E-07	1.17YrCanc	3.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
994	ALL	383403	3744079	3.87E-07	1.17YrCanc	3.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
995	ALL	383453	3744079	4.36E-07	1.17YrCanc	4.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
996	ALL	384103	3744079	2.70E-07	1.17YrCanc	2.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
997	ALL	384153	3744079	2.36E-07	1.17YrCanc	2.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
998	ALL	384203	3744079	2.07E-07	1.17YrCanc	2.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
999	ALL	384253	3744079	1.84E-07	1.17YrCanc	1.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1000	ALL	384303	3744079	1.64E-07	1.17YrCanc	1.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1001	ALL	384353	3744079	1.48E-07	1.17YrCanc	1.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1002	ALL	382953	3744129	1.45E-07	1.17YrCanc	1.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1003	ALL	383003	3744129	1.57E-07	1.17YrCanc	1.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1004	ALL	383053	3744129	1.70E-07	1.17YrCanc	1.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1005	ALL	383103	3744129	1.85E-07	1.17YrCanc	1.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1006	ALL	383153	3744129	2.02E-07	1.17YrCanc	2.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1007	ALL	383203	3744129	2.21E-07	1.17YrCanc	2.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1008	ALL	383253	3744129	2.43E-07	1.17YrCanc	2.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1009	ALL	383303	3744129	2.68E-07	1.17YrCanc	2.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1010	ALL	383353	3744129	2.96E-07	1.17YrCanc	2.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1011	ALL	383403	3744129	3.29E-07	1.17YrCanc	3.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1012	ALL	383453	3744129	3.65E-07	1.17YrCanc	3.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1013	ALL	384103	3744129	2.44E-07	1.17YrCanc	2.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1014	ALL	384153	3744129	2.16E-07	1.17YrCanc	2.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1015	ALL	384203	3744129	1.92E-07	1.17YrCanc	1.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1016	ALL	384253	3744129	1.72E-07	1.17YrCanc	1.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1017	ALL	384303	3744129	1.54E-07	1.17YrCanc	1.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1018	ALL	384353	3744129	1.39E-07	1.17YrCanc	1.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1019	ALL	382953	3744179	1.35E-07	1.17YrCanc	1.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1020	ALL	383003	3744179	1.45E-07	1.17YrCanc	1.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1021	ALL	383053	3744179	1.56E-07	1.17YrCanc	1.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1022	ALL	383103	3744179	1.68E-07	1.17YrCanc	1.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1023	ALL	383153	3744179	1.82E-07	1.17YrCanc	1.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1024	ALL	383203	3744179	1.98E-07	1.17YrCanc	1.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1025	ALL	383253	3744179	2.16E-07	1.17YrCanc	2.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1026	ALL	383303	3744179	2.36E-07	1.17YrCanc	2.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1027	ALL	383353	3744179	2.58E-07	1.17YrCanc	2.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1028	ALL	383403	3744179	2.83E-07	1.17YrCanc	2.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1029	ALL	383453	3744179	3.11E-07	1.17YrCanc	3.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1030	ALL	384053	3744179	2.49E-07	1.17YrCanc	2.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1031	ALL	384103	3744179	2.21E-07	1.17YrCanc	2.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1032	ALL	384153	3744179	1.98E-07	1.17YrCanc	1.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1033	ALL	384203	3744179	1.77E-07	1.17YrCanc	1.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1034	ALL	384253	3744179	1.60E-07	1.17YrCanc	1.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1035	ALL	384303	3744179	1.45E-07	1.17YrCanc	1.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1036	ALL	384353	3744179	1.31E-07	1.17YrCanc	1.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1037	ALL	382953	3744229	1.25E-07	1.17YrCanc	1.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1038	ALL	383003	3744229	1.33E-07	1.17YrCanc	1.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1039	ALL	383053	3744229	1.43E-07	1.17YrCanc	1.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1040	ALL	383103	3744229	1.53E-07	1.17YrCanc	1.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1041	ALL	383153	3744229	1.65E-07	1.17YrCanc	1.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1042	ALL	383203	3744229	1.78E-07	1.17YrCanc	1.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1043	ALL	383253	3744229	1.93E-07	1.17YrCanc	1.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1044	ALL	383303	3744229	2.09E-07	1.17YrCanc	2.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1045	ALL	383353	3744229	2.27E-07	1.17YrCanc	2.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1046	ALL	383403	3744229	2.47E-07	1.17YrCanc	2.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1047	ALL	383453	3744229	2.68E-07	1.17YrCanc	2.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1048	ALL	383503	3744229	2.89E-07	1.17YrCanc	2.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1049	ALL	383553	3744229	3.10E-07	1.17YrCanc	3.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1050	ALL	383603	3744229	3.28E-07	1.17YrCanc	3.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1051	ALL	383653	3744229	3.43E-07	1.17YrCanc	3.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1052	ALL	383703	3744229	3.51E-07	1.17YrCanc	3.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1053	ALL	383753	3744229	3.52E-07	1.17YrCanc	3.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1054	ALL	383803	3744229	3.43E-07	1.17YrCanc	3.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1055	ALL	383853	3744229	3.26E-07	1.17YrCanc	3.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1056	ALL	383903	3744229	2.99E-07	1.17YrCanc	2.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1057	ALL	383953	3744229	2.74E-07	1.17YrCanc	2.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1058	ALL	384003	3744229	2.49E-07	1.17YrCanc	2.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1059	ALL	384053	3744229	2.24E-07	1.17YrCanc	2.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1060	ALL	384103	3744229	2.01E-07	1.17YrCanc	2.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1061	ALL	384153	3744229	1.81E-07	1.17YrCanc	1.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1062	ALL	384203	3744229	1.64E-07	1.17YrCanc	1.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1063	ALL	384253	3744229	1.49E-07	1.17YrCanc	1.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1064	ALL	384303	3744229	1.35E-07	1.17YrCanc	1.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1065	ALL	384353	3744229	1.24E-07	1.17YrCanc	1.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1066	ALL	382953	3744279	1.15E-07	1.17YrCanc	1.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1067	ALL	383003	3744279	1.23E-07	1.17YrCanc	1.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1068	ALL	383053	3744279	1.31E-07	1.17YrCanc	1.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1069	ALL	383103	3744279	1.40E-07	1.17YrCanc	1.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1070	ALL	383153	3744279	1.50E-07	1.17YrCanc	1.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1071	ALL	383203	3744279	1.61E-07	1.17YrCanc	1.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1072	ALL	383253	3744279	1.73E-07	1.17YrCanc	1.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1073	ALL	383303	3744279	1.87E-07	1.17YrCanc	1.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1074	ALL	383353	3744279	2.02E-07	1.17YrCanc	2.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1075	ALL	383403	3744279	2.17E-07	1.17YrCanc	2.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1076	ALL	383453	3744279	2.33E-07	1.17YrCanc	2.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1077	ALL	383503	3744279	2.50E-07	1.17YrCanc	2.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1078	ALL	383553	3744279	2.66E-07	1.17YrCanc	2.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1079	ALL	383603	3744279	2.80E-07	1.17YrCanc	2.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1080	ALL	383653	3744279	2.90E-07	1.17YrCanc	2.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1081	ALL	383703	3744279	2.97E-07	1.17YrCanc	2.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1082	ALL	383753	3744279	2.97E-07	1.17YrCanc	2.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1083	ALL	383803	3744279	2.92E-07	1.17YrCanc	2.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1084	ALL	383853	3744279	2.78E-07	1.17YrCanc	2.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1085	ALL	383903	3744279	2.60E-07	1.17YrCanc	2.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1086	ALL	383953	3744279	2.43E-07	1.17YrCanc	2.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1087	ALL	384003	3744279	2.22E-07	1.17YrCanc	2.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1088	ALL	384053	3744279	2.02E-07	1.17YrCanc	2.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1089	ALL	384103	3744279	1.83E-07	1.17YrCanc	1.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1090	ALL	384153	3744279	1.67E-07	1.17YrCanc	1.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1091	ALL	384203	3744279	1.52E-07	1.17YrCanc	1.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1092	ALL	384253	3744279	1.39E-07	1.17YrCanc	1.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1093	ALL	384303	3744279	1.27E-07	1.17YrCanc	1.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1094	ALL	384353	3744279	1.17E-07	1.17YrCanc	1.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1095	ALL	382453	3742679	3.24E-08	1.17YrCanc	3.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1096	ALL	382553	3742679	3.66E-08	1.17YrCanc	3.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1097	ALL	382653	3742679	4.01E-08	1.17YrCanc	4.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1098	ALL	382753	3742679	3.81E-08	1.17YrCanc	3.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1099	ALL	382853	3742679	4.11E-08	1.17YrCanc	4.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1100	ALL	382953	3742679	4.18E-08	1.17YrCanc	4.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1101	ALL	383053	3742679	4.78E-08	1.17YrCanc	4.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1102	ALL	383153	3742679	5.02E-08	1.17YrCanc	5.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1103	ALL	383253	3742679	6.60E-08	1.17YrCanc	6.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1104	ALL	383353	3742679	7.05E-08	1.17YrCanc	7.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1105	ALL	383453	3742679	7.35E-08	1.17YrCanc	7.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1106	ALL	383553	3742679	7.78E-08	1.17YrCanc	7.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1107	ALL	383653	3742679	8.27E-08	1.17YrCanc	8.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1108	ALL	383753	3742679	8.70E-08	1.17YrCanc	8.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1109	ALL	383853	3742679	9.10E-08	1.17YrCanc	9.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1110	ALL	383953	3742679	9.44E-08	1.17YrCanc	9.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1111	ALL	384053	3742679	9.75E-08	1.17YrCanc	9.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1112	ALL	384153	3742679	1.00E-07	1.17YrCanc	1.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1113	ALL	384253	3742679	1.05E-07	1.17YrCanc	1.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1114	ALL	384353	3742679	1.08E-07	1.17YrCanc	1.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1115	ALL	384453	3742679	1.13E-07	1.17YrCanc	1.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1116	ALL	384553	3742679	1.17E-07	1.17YrCanc	1.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1117	ALL	384653	3742679	1.20E-07	1.17YrCanc	1.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1118	ALL	384753	3742679	1.21E-07	1.17YrCanc	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1119	ALL	384853	3742679	1.21E-07	1.17YrCanc	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1120	ALL	382453	3742779	3.73E-08	1.17YrCanc	3.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1121	ALL	382553	3742779	4.20E-08	1.17YrCanc	4.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1122	ALL	382653	3742779	4.65E-08	1.17YrCanc	4.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1123	ALL	382753	3742779	4.69E-08	1.17YrCanc	4.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1124	ALL	382853	3742779	5.15E-08	1.17YrCanc	5.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1125	ALL	382953	3742779	4.85E-08	1.17YrCanc	4.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1126	ALL	383053	3742779	5.56E-08	1.17YrCanc	5.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1127	ALL	383153	3742779	6.80E-08	1.17YrCanc	6.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1128	ALL	383253	3742779	7.08E-08	1.17YrCanc	7.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1129	ALL	383353	3742779	7.25E-08	1.17YrCanc	7.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1130	ALL	383453	3742779	8.68E-08	1.17YrCanc	8.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1131	ALL	383553	3742779	9.17E-08	1.17YrCanc	9.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1132	ALL	383653	3742779	9.76E-08	1.17YrCanc	9.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1133	ALL	383753	3742779	1.03E-07	1.17YrCanc	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1134	ALL	383853	3742779	1.08E-07	1.17YrCanc	1.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1135	ALL	383953	3742779	1.13E-07	1.17YrCanc	1.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1136	ALL	384053	3742779	1.17E-07	1.17YrCanc	1.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1137	ALL	384153	3742779	1.21E-07	1.17YrCanc	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1138	ALL	384253	3742779	1.26E-07	1.17YrCanc	1.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1139	ALL	384353	3742779	1.32E-07	1.17YrCanc	1.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1140	ALL	384453	3742779	1.38E-07	1.17YrCanc	1.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1141	ALL	384553	3742779	1.42E-07	1.17YrCanc	1.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1142	ALL	384653	3742779	1.43E-07	1.17YrCanc	1.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1143	ALL	384753	3742779	1.41E-07	1.17YrCanc	1.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1144	ALL	384853	3742779	1.37E-07	1.17YrCanc	1.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1145	ALL	382453	3742879	4.22E-08	1.17YrCanc	4.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1146	ALL	382553	3742879	4.65E-08	1.17YrCanc	4.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1147	ALL	382653	3742879	5.15E-08	1.17YrCanc	5.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1148	ALL	382753	3742879	5.63E-08	1.17YrCanc	5.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1149	ALL	382853	3742879	6.07E-08	1.17YrCanc	6.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1150	ALL	382953	3742879	6.64E-08	1.17YrCanc	6.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1151	ALL	383053	3742879	7.16E-08	1.17YrCanc	7.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1152	ALL	383153	3742879	7.81E-08	1.17YrCanc	7.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1153	ALL	383253	3742879	8.47E-08	1.17YrCanc	8.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1154	ALL	383353	3742879	9.45E-08	1.17YrCanc	9.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1155	ALL	383453	3742879	1.03E-07	1.17YrCanc	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1156	ALL	383553	3742879	1.10E-07	1.17YrCanc	1.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1157	ALL	383653	3742879	1.17E-07	1.17YrCanc	1.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1158	ALL	383753	3742879	1.25E-07	1.17YrCanc	1.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1159	ALL	383853	3742879	1.32E-07	1.17YrCanc	1.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1160	ALL	383953	3742879	1.38E-07	1.17YrCanc	1.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1161	ALL	384053	3742879	1.43E-07	1.17YrCanc	1.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1162	ALL	384153	3742879	1.50E-07	1.17YrCanc	1.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1163	ALL	384253	3742879	1.57E-07	1.17YrCanc	1.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1164	ALL	384353	3742879	1.65E-07	1.17YrCanc	1.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1165	ALL	384453	3742879	1.70E-07	1.17YrCanc	1.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1166	ALL	384553	3742879	1.71E-07	1.17YrCanc	1.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1167	ALL	384653	3742879	1.69E-07	1.17YrCanc	1.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1168	ALL	384753	3742879	1.62E-07	1.17YrCanc	1.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1169	ALL	384853	3742879	1.51E-07	1.17YrCanc	1.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1170	ALL	382453	3742979	4.61E-08	1.17YrCanc	4.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1171	ALL	382553	3742979	5.09E-08	1.17YrCanc	5.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1172	ALL	382653	3742979	5.64E-08	1.17YrCanc	5.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1173	ALL	382753	3742979	6.22E-08	1.17YrCanc	6.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1174	ALL	382853	3742979	6.87E-08	1.17YrCanc	6.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1175	ALL	382953	3742979	7.69E-08	1.17YrCanc	7.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1176	ALL	383053	3742979	8.44E-08	1.17YrCanc	8.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1177	ALL	383153	3742979	9.35E-08	1.17YrCanc	9.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1178	ALL	383253	3742979	1.03E-07	1.17YrCanc	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1179	ALL	383353	3742979	1.14E-07	1.17YrCanc	1.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1180	ALL	383453	3742979	1.24E-07	1.17YrCanc	1.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1181	ALL	383553	3742979	1.34E-07	1.17YrCanc	1.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1182	ALL	383653	3742979	1.44E-07	1.17YrCanc	1.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1183	ALL	383753	3742979	1.55E-07	1.17YrCanc	1.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1184	ALL	383853	3742979	1.64E-07	1.17YrCanc	1.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1185	ALL	383953	3742979	1.72E-07	1.17YrCanc	1.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1186	ALL	384053	3742979	1.81E-07	1.17YrCanc	1.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1187	ALL	384153	3742979	1.91E-07	1.17YrCanc	1.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1188	ALL	384253	3742979	2.01E-07	1.17YrCanc	2.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1189	ALL	384353	3742979	2.09E-07	1.17YrCanc	2.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1190	ALL	384453	3742979	2.10E-07	1.17YrCanc	2.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1191	ALL	384553	3742979	2.05E-07	1.17YrCanc	2.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1192	ALL	384653	3742979	1.94E-07	1.17YrCanc	1.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1193	ALL	384753	3742979	1.79E-07	1.17YrCanc	1.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1194	ALL	384853	3742979	1.62E-07	1.17YrCanc	1.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1195	ALL	382453	3743079	5.00E-08	1.17YrCanc	5.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1196	ALL	382553	3743079	5.55E-08	1.17YrCanc	5.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1197	ALL	382653	3743079	6.17E-08	1.17YrCanc	6.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1198	ALL	382753	3743079	6.90E-08	1.17YrCanc	6.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1199	ALL	382853	3743079	7.69E-08	1.17YrCanc	7.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1200	ALL	382953	3743079	8.69E-08	1.17YrCanc	8.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1201	ALL	383053	3743079	9.78E-08	1.17YrCanc	9.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1202	ALL	383153	3743079	1.10E-07	1.17YrCanc	1.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1203	ALL	383253	3743079	1.24E-07	1.17YrCanc	1.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1204	ALL	383353	3743079	1.38E-07	1.17YrCanc	1.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1205	ALL	383453	3743079	1.53E-07	1.17YrCanc	1.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1206	ALL	383553	3743079	1.68E-07	1.17YrCanc	1.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1207	ALL	383653	3743079	1.83E-07	1.17YrCanc	1.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1208	ALL	383753	3743079	1.98E-07	1.17YrCanc	1.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1209	ALL	383853	3743079	2.11E-07	1.17YrCanc	2.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1210	ALL	383953	3743079	2.24E-07	1.17YrCanc	2.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1211	ALL	384053	3743079	2.38E-07	1.17YrCanc	2.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1212	ALL	384153	3743079	2.53E-07	1.17YrCanc	2.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1213	ALL	384253	3743079	2.63E-07	1.17YrCanc	2.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1214	ALL	384353	3743079	2.65E-07	1.17YrCanc	2.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1215	ALL	384453	3743079	2.56E-07	1.17YrCanc	2.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1216	ALL	384553	3743079	2.38E-07	1.17YrCanc	2.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1217	ALL	384653	3743079	2.15E-07	1.17YrCanc	2.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1218	ALL	384753	3743079	1.90E-07	1.17YrCanc	1.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1219	ALL	384853	3743079	1.65E-07	1.17YrCanc	1.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1220	ALL	382453	3743179	5.38E-08	1.17YrCanc	5.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1221	ALL	382553	3743179	5.99E-08	1.17YrCanc	5.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1222	ALL	382653	3743179	6.74E-08	1.17YrCanc	6.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1223	ALL	382753	3743179	7.60E-08	1.17YrCanc	7.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1224	ALL	382853	3743179	8.62E-08	1.17YrCanc	8.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1225	ALL	384453	3743179	3.00E-07	1.17YrCanc	3.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1226	ALL	384553	3743179	2.63E-07	1.17YrCanc	2.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1227	ALL	384653	3743179	2.25E-07	1.17YrCanc	2.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1228	ALL	384753	3743179	1.90E-07	1.17YrCanc	1.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1229	ALL	384853	3743179	1.60E-07	1.17YrCanc	1.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1230	ALL	382453	3743279	5.74E-08	1.17YrCanc	5.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1231	ALL	382553	3743279	6.45E-08	1.17YrCanc	6.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1232	ALL	382653	3743279	7.30E-08	1.17YrCanc	7.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1233	ALL	382753	3743279	8.33E-08	1.17YrCanc	8.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1234	ALL	382853	3743279	9.59E-08	1.17YrCanc	9.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1235	ALL	384453	3743279	3.28E-07	1.17YrCanc	3.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1236	ALL	384553	3743279	2.70E-07	1.17YrCanc	2.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1237	ALL	384653	3743279	2.20E-07	1.17YrCanc	2.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1238	ALL	384753	3743279	1.79E-07	1.17YrCanc	1.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1239	ALL	384853	3743279	1.47E-07	1.17YrCanc	1.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1240	ALL	382453	3743379	6.08E-08	1.17YrCanc	6.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1241	ALL	382553	3743379	6.88E-08	1.17YrCanc	6.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1242	ALL	382653	3743379	7.86E-08	1.17YrCanc	7.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1243	ALL	382753	3743379	9.08E-08	1.17YrCanc	9.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1244	ALL	382853	3743379	1.06E-07	1.17YrCanc	1.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1245	ALL	384453	3743379	3.27E-07	1.17YrCanc	3.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1246	ALL	384553	3743379	2.55E-07	1.17YrCanc	2.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1247	ALL	384653	3743379	2.01E-07	1.17YrCanc	2.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1248	ALL	384753	3743379	1.61E-07	1.17YrCanc	1.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1249	ALL	384853	3743379	1.31E-07	1.17YrCanc	1.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1250	ALL	382453	3743479	6.41E-08	1.17YrCanc	6.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1251	ALL	382553	3743479	7.30E-08	1.17YrCanc	7.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1252	ALL	382653	3743479	8.41E-08	1.17YrCanc	8.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1253	ALL	382753	3743479	9.81E-08	1.17YrCanc	9.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1254	ALL	382853	3743479	1.16E-07	1.17YrCanc	1.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1255	ALL	384453	3743479	2.94E-07	1.17YrCanc	2.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1256	ALL	384553	3743479	2.23E-07	1.17YrCanc	2.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1257	ALL	384653	3743479	1.75E-07	1.17YrCanc	1.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1258	ALL	384753	3743479	1.40E-07	1.17YrCanc	1.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1259	ALL	384853	3743479	1.14E-07	1.17YrCanc	1.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1260	ALL	382453	3743579	6.74E-08	1.17YrCanc	6.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1261	ALL	382553	3743579	7.72E-08	1.17YrCanc	7.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1262	ALL	382653	3743579	8.95E-08	1.17YrCanc	8.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1263	ALL	382753	3743579	1.05E-07	1.17YrCanc	1.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1264	ALL	382853	3743579	1.26E-07	1.17YrCanc	1.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1265	ALL	384453	3743579	2.46E-07	1.17YrCanc	2.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1266	ALL	384553	3743579	1.88E-07	1.17YrCanc	1.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1267	ALL	384653	3743579	1.48E-07	1.17YrCanc	1.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1268	ALL	384753	3743579	1.21E-07	1.17YrCanc	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1269	ALL	384853	3743579	1.01E-07	1.17YrCanc	1.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1270	ALL	382453	3743679	7.06E-08	1.17YrCanc	7.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1271	ALL	382553	3743679	8.12E-08	1.17YrCanc	8.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1272	ALL	382653	3743679	9.48E-08	1.17YrCanc	9.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1273	ALL	382753	3743679	1.12E-07	1.17YrCanc	1.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1274	ALL	382853	3743679	1.36E-07	1.17YrCanc	1.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1275	ALL	384453	3743679	1.99E-07	1.17YrCanc	1.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1276	ALL	384553	3743679	1.58E-07	1.17YrCanc	1.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1277	ALL	384653	3743679	1.28E-07	1.17YrCanc	1.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1278	ALL	384753	3743679	1.07E-07	1.17YrCanc	1.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1279	ALL	384853	3743679	9.02E-08	1.17YrCanc	9.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1280	ALL	382453	3743779	7.34E-08	1.17YrCanc	7.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1281	ALL	382553	3743779	8.47E-08	1.17YrCanc	8.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1282	ALL	382653	3743779	9.91E-08	1.17YrCanc	9.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1283	ALL	382753	3743779	1.18E-07	1.17YrCanc	1.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1284	ALL	382853	3743779	1.43E-07	1.17YrCanc	1.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1285	ALL	384453	3743779	1.70E-07	1.17YrCanc	1.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1286	ALL	384553	3743779	1.37E-07	1.17YrCanc	1.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1287	ALL	384653	3743779	1.13E-07	1.17YrCanc	1.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1288	ALL	384753	3743779	9.51E-08	1.17YrCanc	9.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1289	ALL	384853	3743779	8.14E-08	1.17YrCanc	8.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1290	ALL	382453	3743879	7.51E-08	1.17YrCanc	7.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1291	ALL	382553	3743879	8.67E-08	1.17YrCanc	8.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1292	ALL	382653	3743879	1.01E-07	1.17YrCanc	1.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1293	ALL	382753	3743879	1.21E-07	1.17YrCanc	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1294	ALL	382853	3743879	1.46E-07	1.17YrCanc	1.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1295	ALL	384453	3743879	1.49E-07	1.17YrCanc	1.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1296	ALL	384553	3743879	1.21E-07	1.17YrCanc	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1297	ALL	384653	3743879	1.01E-07	1.17YrCanc	1.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1298	ALL	384753	3743879	8.63E-08	1.17YrCanc	8.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1299	ALL	384853	3743879	7.45E-08	1.17YrCanc	7.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1300	ALL	382453	3743979	7.54E-08	1.17YrCanc	7.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1301	ALL	382553	3743979	8.66E-08	1.17YrCanc	8.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1302	ALL	382653	3743979	1.01E-07	1.17YrCanc	1.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1303	ALL	382753	3743979	1.19E-07	1.17YrCanc	1.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1304	ALL	382853	3743979	1.42E-07	1.17YrCanc	1.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1305	ALL	384453	3743979	1.33E-07	1.17YrCanc	1.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1306	ALL	384553	3743979	1.10E-07	1.17YrCanc	1.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1307	ALL	384653	3743979	9.29E-08	1.17YrCanc	9.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1308	ALL	384753	3743979	7.95E-08	1.17YrCanc	7.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1309	ALL	384853	3743979	6.90E-08	1.17YrCanc	6.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1310	ALL	382453	3744079	7.39E-08	1.17YrCanc	7.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1311	ALL	382553	3744079	8.42E-08	1.17YrCanc	8.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1312	ALL	382653	3744079	9.67E-08	1.17YrCanc	9.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1313	ALL	382753	3744079	1.12E-07	1.17YrCanc	1.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1314	ALL	382853	3744079	1.31E-07	1.17YrCanc	1.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1315	ALL	384453	3744079	1.21E-07	1.17YrCanc	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1316	ALL	384553	3744079	1.01E-07	1.17YrCanc	1.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1317	ALL	384653	3744079	8.61E-08	1.17YrCanc	8.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1318	ALL	384753	3744079	7.42E-08	1.17YrCanc	7.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1319	ALL	384853	3744079	6.47E-08	1.17YrCanc	6.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1320	ALL	382453	3744179	7.07E-08	1.17YrCanc	7.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1321	ALL	382553	3744179	7.96E-08	1.17YrCanc	7.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1322	ALL	382653	3744179	9.01E-08	1.17YrCanc	9.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1323	ALL	382753	3744179	1.02E-07	1.17YrCanc	1.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1324	ALL	382853	3744179	1.17E-07	1.17YrCanc	1.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1325	ALL	384453	3744179	1.10E-07	1.17YrCanc	1.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1326	ALL	384553	3744179	9.32E-08	1.17YrCanc	9.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1327	ALL	384653	3744179	8.00E-08	1.17YrCanc	8.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1328	ALL	384753	3744179	6.95E-08	1.17YrCanc	6.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1329	ALL	384853	3744179	6.10E-08	1.17YrCanc	6.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1330	ALL	382453	3744279	6.63E-08	1.17YrCanc	6.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1331	ALL	382553	3744279	7.36E-08	1.17YrCanc	7.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1332	ALL	382653	3744279	8.19E-08	1.17YrCanc	8.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1333	ALL	382753	3744279	9.14E-08	1.17YrCanc	9.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1334	ALL	382853	3744279	1.02E-07	1.17YrCanc	1.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1335	ALL	384453	3744279	9.93E-08	1.17YrCanc	9.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1336	ALL	384553	3744279	8.55E-08	1.17YrCanc	8.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1337	ALL	384653	3744279	7.43E-08	1.17YrCanc	7.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1338	ALL	384753	3744279	6.51E-08	1.17YrCanc	6.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1339	ALL	384853	3744279	5.75E-08	1.17YrCanc	5.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1340	ALL	382453	3744379	6.11E-08	1.17YrCanc	6.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1341	ALL	382553	3744379	6.69E-08	1.17YrCanc	6.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1342	ALL	382653	3744379	7.35E-08	1.17YrCanc	7.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1343	ALL	382753	3744379	8.09E-08	1.17YrCanc	8.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1344	ALL	382853	3744379	8.94E-08	1.17YrCanc	8.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1345	ALL	382953	3744379	9.95E-08	1.17YrCanc	9.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1346	ALL	383053	3744379	1.12E-07	1.17YrCanc	1.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1347	ALL	383153	3744379	1.26E-07	1.17YrCanc	1.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1348	ALL	383253	3744379	1.43E-07	1.17YrCanc	1.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1349	ALL	383353	3744379	1.62E-07	1.17YrCanc	1.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1350	ALL	383453	3744379	1.82E-07	1.17YrCanc	1.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1351	ALL	383553	3744379	2.02E-07	1.17YrCanc	2.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1352	ALL	383653	3744379	2.17E-07	1.17YrCanc	2.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1353	ALL	383753	3744379	2.22E-07	1.17YrCanc	2.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1354	ALL	383853	3744379	2.13E-07	1.17YrCanc	2.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1355	ALL	383953	3744379	1.92E-07	1.17YrCanc	1.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1356	ALL	384053	3744379	1.66E-07	1.17YrCanc	1.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1357	ALL	384153	3744379	1.41E-07	1.17YrCanc	1.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1358	ALL	384253	3744379	1.20E-07	1.17YrCanc	1.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1359	ALL	384353	3744379	1.03E-07	1.17YrCanc	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1360	ALL	384453	3744379	8.95E-08	1.17YrCanc	8.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1361	ALL	384553	3744379	7.81E-08	1.17YrCanc	7.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1362	ALL	384653	3744379	6.87E-08	1.17YrCanc	6.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1363	ALL	384753	3744379	6.08E-08	1.17YrCanc	6.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1364	ALL	384853	3744379	5.41E-08	1.17YrCanc	5.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1365	ALL	382453	3744479	5.58E-08	1.17YrCanc	5.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1366	ALL	382553	3744479	6.04E-08	1.17YrCanc	6.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1367	ALL	382653	3744479	6.57E-08	1.17YrCanc	6.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1368	ALL	382753	3744479	7.17E-08	1.17YrCanc	7.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1369	ALL	382853	3744479	7.86E-08	1.17YrCanc	7.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1370	ALL	382953	3744479	8.67E-08	1.17YrCanc	8.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1371	ALL	383053	3744479	9.62E-08	1.17YrCanc	9.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1372	ALL	383153	3744479	1.07E-07	1.17YrCanc	1.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1373	ALL	383253	3744479	1.19E-07	1.17YrCanc	1.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1374	ALL	383353	3744479	1.33E-07	1.17YrCanc	1.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1375	ALL	383453	3744479	1.46E-07	1.17YrCanc	1.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1376	ALL	383553	3744479	1.59E-07	1.17YrCanc	1.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1377	ALL	383653	3744479	1.69E-07	1.17YrCanc	1.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1378	ALL	383753	3744479	1.72E-07	1.17YrCanc	1.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1379	ALL	383853	3744479	1.68E-07	1.17YrCanc	1.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1380	ALL	383953	3744479	1.55E-07	1.17YrCanc	1.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1381	ALL	384053	3744479	1.38E-07	1.17YrCanc	1.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1382	ALL	384153	3744479	1.21E-07	1.17YrCanc	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1383	ALL	384253	3744479	1.05E-07	1.17YrCanc	1.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1384	ALL	384353	3744479	9.17E-08	1.17YrCanc	9.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1385	ALL	384453	3744479	8.06E-08	1.17YrCanc	8.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1386	ALL	384553	3744479	7.12E-08	1.17YrCanc	7.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1387	ALL	384653	3744479	6.33E-08	1.17YrCanc	6.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1388	ALL	384753	3744479	5.66E-08	1.17YrCanc	5.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1389	ALL	384853	3744479	5.08E-08	1.17YrCanc	5.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1390	ALL	382453	3744579	5.07E-08	1.17YrCanc	5.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1391	ALL	382553	3744579	5.46E-08	1.17YrCanc	5.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1392	ALL	382653	3744579	5.89E-08	1.17YrCanc	5.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1393	ALL	382753	3744579	6.40E-08	1.17YrCanc	6.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1394	ALL	382853	3744579	6.98E-08	1.17YrCanc	6.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1395	ALL	382953	3744579	7.64E-08	1.17YrCanc	7.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1396	ALL	383053	3744579	8.40E-08	1.17YrCanc	8.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1397	ALL	383153	3744579	9.23E-08	1.17YrCanc	9.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1398	ALL	383253	3744579	1.01E-07	1.17YrCanc	1.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1399	ALL	383353	3744579	1.11E-07	1.17YrCanc	1.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1400	ALL	383453	3744579	1.20E-07	1.17YrCanc	1.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1401	ALL	383553	3744579	1.29E-07	1.17YrCanc	1.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1402	ALL	383653	3744579	1.35E-07	1.17YrCanc	1.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1403	ALL	383753	3744579	1.39E-07	1.17YrCanc	1.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1404	ALL	383853	3744579	1.36E-07	1.17YrCanc	1.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1405	ALL	383953	3744579	1.28E-07	1.17YrCanc	1.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1406	ALL	384053	3744579	1.17E-07	1.17YrCanc	1.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1407	ALL	384153	3744579	1.04E-07	1.17YrCanc	1.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1408	ALL	384253	3744579	9.21E-08	1.17YrCanc	9.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1409	ALL	384353	3744579	8.17E-08	1.17YrCanc	8.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1410	ALL	384453	3744579	7.27E-08	1.17YrCanc	7.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1411	ALL	384553	3744579	6.49E-08	1.17YrCanc	6.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1412	ALL	384653	3744579	5.83E-08	1.17YrCanc	5.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1413	ALL	384753	3744579	5.25E-08	1.17YrCanc	5.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1414	ALL	384853	3744579	4.75E-08	1.17YrCanc	4.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1415	ALL	382453	3744679	4.62E-08	1.17YrCanc	4.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1416	ALL	382553	3744679	4.95E-08	1.17YrCanc	4.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1417	ALL	382653	3744679	5.33E-08	1.17YrCanc	5.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1418	ALL	382753	3744679	5.76E-08	1.17YrCanc	5.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1419	ALL	382853	3744679	6.24E-08	1.17YrCanc	6.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1420	ALL	382953	3744679	6.79E-08	1.17YrCanc	6.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1421	ALL	383053	3744679	7.39E-08	1.17YrCanc	7.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1422	ALL	383153	3744679	8.03E-08	1.17YrCanc	8.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1423	ALL	383253	3744679	8.70E-08	1.17YrCanc	8.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1424	ALL	383353	3744679	9.38E-08	1.17YrCanc	9.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1425	ALL	383453	3744679	1.00E-07	1.17YrCanc	1.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1426	ALL	383553	3744679	1.06E-07	1.17YrCanc	1.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1427	ALL	383653	3744679	1.12E-07	1.17YrCanc	1.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1428	ALL	383753	3744679	1.14E-07	1.17YrCanc	1.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1429	ALL	383853	3744679	1.12E-07	1.17YrCanc	1.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1430	ALL	383953	3744679	1.07E-07	1.17YrCanc	1.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1431	ALL	384053	3744679	9.95E-08	1.17YrCanc	9.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1432	ALL	384153	3744679	9.05E-08	1.17YrCanc	9.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1433	ALL	384253	3744679	8.13E-08	1.17YrCanc	8.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1434	ALL	384353	3744679	7.30E-08	1.17YrCanc	7.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1435	ALL	384453	3744679	6.57E-08	1.17YrCanc	6.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1436	ALL	384553	3744679	5.93E-08	1.17YrCanc	5.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1437	ALL	384653	3744679	5.37E-08	1.17YrCanc	5.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1438	ALL	384753	3744679	4.88E-08	1.17YrCanc	4.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1439	ALL	384853	3744679	4.44E-08	1.17YrCanc	4.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1440	ALL	382453	3744779	4.23E-08	1.17YrCanc	4.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1441	ALL	382553	3744779	4.52E-08	1.17YrCanc	4.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1442	ALL	382653	3744779	4.85E-08	1.17YrCanc	4.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1443	ALL	382753	3744779	5.22E-08	1.17YrCanc	5.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1444	ALL	382853	3744779	5.63E-08	1.17YrCanc	5.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1445	ALL	382953	3744779	6.07E-08	1.17YrCanc	6.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1446	ALL	383053	3744779	6.55E-08	1.17YrCanc	6.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1447	ALL	383153	3744779	7.04E-08	1.17YrCanc	7.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1448	ALL	383253	3744779	7.55E-08	1.17YrCanc	7.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1449	ALL	383353	3744779	8.04E-08	1.17YrCanc	8.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1450	ALL	383453	3744779	8.54E-08	1.17YrCanc	8.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1451	ALL	383553	3744779	9.01E-08	1.17YrCanc	9.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1452	ALL	383653	3744779	9.37E-08	1.17YrCanc	9.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1453	ALL	383753	3744779	9.55E-08	1.17YrCanc	9.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1454	ALL	383853	3744779	9.47E-08	1.17YrCanc	9.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1455	ALL	383953	3744779	9.14E-08	1.17YrCanc	9.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1456	ALL	384053	3744779	8.59E-08	1.17YrCanc	8.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1457	ALL	384153	3744779	7.92E-08	1.17YrCanc	7.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1458	ALL	384253	3744779	7.22E-08	1.17YrCanc	7.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1459	ALL	384353	3744779	6.55E-08	1.17YrCanc	6.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1460	ALL	384453	3744779	5.95E-08	1.17YrCanc	5.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1461	ALL	384553	3744779	5.42E-08	1.17YrCanc	5.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1462	ALL	384653	3744779	4.94E-08	1.17YrCanc	4.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1463	ALL	384753	3744779	4.52E-08	1.17YrCanc	4.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1464	ALL	384853	3744779	4.15E-08	1.17YrCanc	4.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1465	ALL	381453	3741679	1.34E-08	1.17YrCanc	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1466	ALL	381653	3741679	1.18E-08	1.17YrCanc	1.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1467	ALL	381853	3741679	1.18E-08	1.17YrCanc	1.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1468	ALL	382053	3741679	1.32E-08	1.17YrCanc	1.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1469	ALL	382253	3741679	1.44E-08	1.17YrCanc	1.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1470	ALL	382453	3741679	1.77E-08	1.17YrCanc	1.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1471	ALL	382653	3741679	1.89E-08	1.17YrCanc	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1472	ALL	382853	3741679	1.78E-08	1.17YrCanc	1.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1473	ALL	383053	3741679	1.78E-08	1.17YrCanc	1.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1474	ALL	383253	3741679	1.97E-08	1.17YrCanc	1.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1475	ALL	383453	3741679	2.29E-08	1.17YrCanc	2.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1476	ALL	383653	3741679	2.51E-08	1.17YrCanc	2.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1477	ALL	383853	3741679	2.75E-08	1.17YrCanc	2.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1478	ALL	384053	3741679	3.02E-08	1.17YrCanc	3.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1479	ALL	384253	3741679	3.26E-08	1.17YrCanc	3.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1480	ALL	384453	3741679	3.25E-08	1.17YrCanc	3.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1481	ALL	384653	3741679	3.47E-08	1.17YrCanc	3.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1482	ALL	384853	3741679	3.54E-08	1.17YrCanc	3.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1483	ALL	385053	3741679	3.52E-08	1.17YrCanc	3.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1484	ALL	385253	3741679	3.69E-08	1.17YrCanc	3.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1485	ALL	385453	3741679	3.86E-08	1.17YrCanc	3.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1486	ALL	385653	3741679	4.00E-08	1.17YrCanc	4.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1487	ALL	385853	3741679	4.08E-08	1.17YrCanc	4.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1488	ALL	381453	3741879	1.33E-08	1.17YrCanc	1.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1489	ALL	381653	3741879	1.53E-08	1.17YrCanc	1.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1490	ALL	381853	3741879	1.34E-08	1.17YrCanc	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1491	ALL	382053	3741879	1.44E-08	1.17YrCanc	1.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1492	ALL	382253	3741879	1.56E-08	1.17YrCanc	1.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1493	ALL	382453	3741879	1.70E-08	1.17YrCanc	1.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1494	ALL	382653	3741879	1.90E-08	1.17YrCanc	1.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1495	ALL	382853	3741879	1.95E-08	1.17YrCanc	1.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1496	ALL	383053	3741879	2.03E-08	1.17YrCanc	2.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1497	ALL	383253	3741879	2.27E-08	1.17YrCanc	2.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1498	ALL	383453	3741879	3.05E-08	1.17YrCanc	3.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1499	ALL	383653	3741879	3.25E-08	1.17YrCanc	3.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1500	ALL	383853	3741879	3.45E-08	1.17YrCanc	3.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1501	ALL	384053	3741879	3.64E-08	1.17YrCanc	3.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1502	ALL	384253	3741879	3.78E-08	1.17YrCanc	3.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1503	ALL	384453	3741879	3.96E-08	1.17YrCanc	3.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1504	ALL	384653	3741879	4.03E-08	1.17YrCanc	4.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1505	ALL	384853	3741879	4.13E-08	1.17YrCanc	4.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1506	ALL	385053	3741879	4.33E-08	1.17YrCanc	4.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1507	ALL	385253	3741879	4.56E-08	1.17YrCanc	4.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1508	ALL	385453	3741879	4.74E-08	1.17YrCanc	4.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1509	ALL	385653	3741879	4.82E-08	1.17YrCanc	4.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1510	ALL	385853	3741879	4.78E-08	1.17YrCanc	4.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1511	ALL	381453	3742079	1.34E-08	1.17YrCanc	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1512	ALL	381653	3742079	1.65E-08	1.17YrCanc	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1513	ALL	381853	3742079	1.86E-08	1.17YrCanc	1.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1514	ALL	382053	3742079	1.69E-08	1.17YrCanc	1.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1515	ALL	382253	3742079	1.73E-08	1.17YrCanc	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1516	ALL	382453	3742079	1.92E-08	1.17YrCanc	1.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1517	ALL	382653	3742079	2.10E-08	1.17YrCanc	2.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1518	ALL	382853	3742079	2.33E-08	1.17YrCanc	2.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1519	ALL	383053	3742079	2.58E-08	1.17YrCanc	2.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1520	ALL	383253	3742079	2.76E-08	1.17YrCanc	2.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1521	ALL	383453	3742079	3.56E-08	1.17YrCanc	3.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1522	ALL	383653	3742079	3.76E-08	1.17YrCanc	3.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1523	ALL	383853	3742079	4.06E-08	1.17YrCanc	4.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1524	ALL	384053	3742079	4.41E-08	1.17YrCanc	4.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1525	ALL	384253	3742079	4.57E-08	1.17YrCanc	4.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1526	ALL	384453	3742079	5.35E-08	1.17YrCanc	5.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1527	ALL	384653	3742079	4.92E-08	1.17YrCanc	4.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1528	ALL	384853	3742079	5.19E-08	1.17YrCanc	5.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1529	ALL	385053	3742079	5.48E-08	1.17YrCanc	5.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1530	ALL	385253	3742079	5.72E-08	1.17YrCanc	5.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1531	ALL	385453	3742079	5.82E-08	1.17YrCanc	5.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1532	ALL	385653	3742079	5.72E-08	1.17YrCanc	5.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1533	ALL	385853	3742079	5.44E-08	1.17YrCanc	5.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1534	ALL	381453	3742279	1.47E-08	1.17YrCanc	1.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1535	ALL	381653	3742279	1.57E-08	1.17YrCanc	1.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1536	ALL	381853	3742279	1.81E-08	1.17YrCanc	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1537	ALL	382053	3742279	2.12E-08	1.17YrCanc	2.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1538	ALL	382253	3742279	1.96E-08	1.17YrCanc	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1539	ALL	382453	3742279	2.19E-08	1.17YrCanc	2.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1540	ALL	382653	3742279	2.43E-08	1.17YrCanc	2.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1541	ALL	382853	3742279	2.84E-08	1.17YrCanc	2.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1542	ALL	383053	3742279	3.55E-08	1.17YrCanc	3.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1543	ALL	383253	3742279	4.03E-08	1.17YrCanc	4.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1544	ALL	383453	3742279	4.06E-08	1.17YrCanc	4.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1545	ALL	383653	3742279	4.74E-08	1.17YrCanc	4.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1546	ALL	383853	3742279	5.01E-08	1.17YrCanc	5.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1547	ALL	384053	3742279	5.51E-08	1.17YrCanc	5.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1548	ALL	384253	3742279	5.74E-08	1.17YrCanc	5.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1549	ALL	384453	3742279	5.99E-08	1.17YrCanc	5.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1550	ALL	384653	3742279	6.34E-08	1.17YrCanc	6.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1551	ALL	384853	3742279	6.75E-08	1.17YrCanc	6.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1552	ALL	385053	3742279	7.08E-08	1.17YrCanc	7.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1553	ALL	385253	3742279	7.18E-08	1.17YrCanc	7.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1554	ALL	385453	3742279	6.98E-08	1.17YrCanc	6.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1555	ALL	385653	3742279	6.52E-08	1.17YrCanc	6.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1556	ALL	385853	3742279	5.89E-08	1.17YrCanc	5.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1557	ALL	381453	3742479	1.70E-08	1.17YrCanc	1.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1558	ALL	381653	3742479	1.90E-08	1.17YrCanc	1.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1559	ALL	381853	3742479	1.94E-08	1.17YrCanc	1.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1560	ALL	382053	3742479	2.25E-08	1.17YrCanc	2.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1561	ALL	382253	3742479	2.27E-08	1.17YrCanc	2.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1562	ALL	382453	3742479	2.54E-08	1.17YrCanc	2.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1563	ALL	382653	3742479	2.87E-08	1.17YrCanc	2.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1564	ALL	382853	3742479	3.23E-08	1.17YrCanc	3.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1565	ALL	383053	3742479	4.25E-08	1.17YrCanc	4.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1566	ALL	383253	3742479	5.12E-08	1.17YrCanc	5.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1567	ALL	383453	3742479	5.43E-08	1.17YrCanc	5.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1568	ALL	383653	3742479	6.20E-08	1.17YrCanc	6.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1569	ALL	383853	3742479	6.72E-08	1.17YrCanc	6.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1570	ALL	384053	3742479	7.15E-08	1.17YrCanc	7.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1571	ALL	384253	3742479	7.51E-08	1.17YrCanc	7.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1572	ALL	384453	3742479	7.97E-08	1.17YrCanc	7.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1573	ALL	384653	3742479	8.55E-08	1.17YrCanc	8.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1574	ALL	384853	3742479	9.03E-08	1.17YrCanc	9.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1575	ALL	385053	3742479	1.14E-07	1.17YrCanc	1.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1576	ALL	385253	3742479	8.73E-08	1.17YrCanc	8.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1577	ALL	385453	3742479	7.95E-08	1.17YrCanc	7.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1578	ALL	385653	3742479	6.97E-08	1.17YrCanc	6.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1579	ALL	385853	3742479	5.97E-08	1.17YrCanc	5.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1580	ALL	381453	3742679	1.92E-08	1.17YrCanc	1.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1581	ALL	381653	3742679	2.09E-08	1.17YrCanc	2.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1582	ALL	381853	3742679	2.27E-08	1.17YrCanc	2.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1583	ALL	382053	3742679	2.49E-08	1.17YrCanc	2.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1584	ALL	382253	3742679	2.71E-08	1.17YrCanc	2.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1585	ALL	385053	3742679	1.13E-07	1.17YrCanc	1.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1586	ALL	385253	3742679	9.86E-08	1.17YrCanc	9.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1587	ALL	385453	3742679	8.35E-08	1.17YrCanc	8.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1588	ALL	385653	3742679	6.88E-08	1.17YrCanc	6.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1589	ALL	385853	3742679	5.63E-08	1.17YrCanc	5.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1590	ALL	381453	3742879	2.15E-08	1.17YrCanc	2.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1591	ALL	381653	3742879	2.43E-08	1.17YrCanc	2.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1592	ALL	381853	3742879	2.67E-08	1.17YrCanc	2.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1593	ALL	382053	3742879	2.97E-08	1.17YrCanc	2.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1594	ALL	382253	3742879	3.63E-08	1.17YrCanc	3.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1595	ALL	385053	3742879	1.26E-07	1.17YrCanc	1.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1596	ALL	385253	3742879	1.01E-07	1.17YrCanc	1.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1597	ALL	385453	3742879	7.92E-08	1.17YrCanc	7.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1598	ALL	385653	3742879	6.25E-08	1.17YrCanc	6.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1599	ALL	385853	3742879	4.99E-08	1.17YrCanc	4.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1600	ALL	381453	3743079	2.36E-08	1.17YrCanc	2.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1601	ALL	381653	3743079	2.66E-08	1.17YrCanc	2.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1602	ALL	381853	3743079	3.03E-08	1.17YrCanc	3.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1603	ALL	382053	3743079	3.49E-08	1.17YrCanc	3.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1604	ALL	382253	3743079	4.16E-08	1.17YrCanc	4.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1605	ALL	385053	3743079	1.22E-07	1.17YrCanc	1.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1606	ALL	385253	3743079	9.08E-08	1.17YrCanc	9.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1607	ALL	385453	3743079	6.89E-08	1.17YrCanc	6.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1608	ALL	385653	3743079	5.37E-08	1.17YrCanc	5.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1609	ALL	385853	3743079	4.30E-08	1.17YrCanc	4.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1610	ALL	381453	3743279	2.56E-08	1.17YrCanc	2.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1611	ALL	381653	3743279	2.86E-08	1.17YrCanc	2.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1612	ALL	381853	3743279	3.30E-08	1.17YrCanc	3.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1613	ALL	382053	3743279	3.88E-08	1.17YrCanc	3.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1614	ALL	382253	3743279	4.64E-08	1.17YrCanc	4.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1615	ALL	385053	3743279	1.02E-07	1.17YrCanc	1.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1616	ALL	385253	3743279	7.53E-08	1.17YrCanc	7.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1617	ALL	385453	3743279	5.75E-08	1.17YrCanc	5.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1618	ALL	385653	3743279	4.56E-08	1.17YrCanc	4.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1619	ALL	385853	3743279	3.72E-08	1.17YrCanc	3.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1620	ALL	381453	3743479	2.65E-08	1.17YrCanc	2.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1621	ALL	381653	3743479	2.96E-08	1.17YrCanc	2.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1622	ALL	381853	3743479	3.51E-08	1.17YrCanc	3.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1623	ALL	382053	3743479	4.16E-08	1.17YrCanc	4.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1624	ALL	382253	3743479	5.08E-08	1.17YrCanc	5.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1625	ALL	385053	3743479	8.20E-08	1.17YrCanc	8.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1626	ALL	385253	3743479	6.20E-08	1.17YrCanc	6.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1627	ALL	385453	3743479	4.88E-08	1.17YrCanc	4.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1628	ALL	385653	3743479	3.96E-08	1.17YrCanc	3.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1629	ALL	385853	3743479	3.29E-08	1.17YrCanc	3.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1630	ALL	381453	3743679	2.85E-08	1.17YrCanc	2.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1631	ALL	381653	3743679	3.31E-08	1.17YrCanc	3.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1632	ALL	381853	3743679	3.71E-08	1.17YrCanc	3.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1633	ALL	382053	3743679	4.50E-08	1.17YrCanc	4.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1634	ALL	382253	3743679	5.50E-08	1.17YrCanc	5.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1635	ALL	385053	3743679	6.74E-08	1.17YrCanc	6.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1636	ALL	385253	3743679	5.26E-08	1.17YrCanc	5.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1637	ALL	385453	3743679	4.25E-08	1.17YrCanc	4.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1638	ALL	385653	3743679	3.51E-08	1.17YrCanc	3.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1639	ALL	385853	3743679	2.96E-08	1.17YrCanc	2.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1640	ALL	381453	3743879	2.99E-08	1.17YrCanc	2.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1641	ALL	381653	3743879	3.34E-08	1.17YrCanc	3.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1642	ALL	381853	3743879	3.92E-08	1.17YrCanc	3.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1643	ALL	382053	3743879	4.72E-08	1.17YrCanc	4.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1644	ALL	382253	3743879	5.82E-08	1.17YrCanc	5.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1645	ALL	385053	3743879	5.74E-08	1.17YrCanc	5.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1646	ALL	385253	3743879	4.58E-08	1.17YrCanc	4.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1647	ALL	385453	3743879	3.76E-08	1.17YrCanc	3.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1648	ALL	385653	3743879	3.15E-08	1.17YrCanc	3.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1649	ALL	385853	3743879	2.68E-08	1.17YrCanc	2.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1650	ALL	381453	3744079	3.06E-08	1.17YrCanc	3.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1651	ALL	381653	3744079	3.33E-08	1.17YrCanc	3.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1652	ALL	381853	3744079	3.90E-08	1.17YrCanc	3.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1653	ALL	382053	3744079	4.71E-08	1.17YrCanc	4.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1654	ALL	382253	3744079	5.82E-08	1.17YrCanc	5.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1655	ALL	385053	3744079	5.07E-08	1.17YrCanc	5.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1656	ALL	385253	3744079	4.10E-08	1.17YrCanc	4.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1657	ALL	385453	3744079	3.40E-08	1.17YrCanc	3.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1658	ALL	385653	3744079	2.87E-08	1.17YrCanc	2.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1659	ALL	385853	3744079	2.46E-08	1.17YrCanc	2.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1660	ALL	381453	3744279	2.88E-08	1.17YrCanc	2.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1661	ALL	381653	3744279	3.28E-08	1.17YrCanc	3.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1662	ALL	381853	3744279	3.80E-08	1.17YrCanc	3.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1663	ALL	382053	3744279	4.52E-08	1.17YrCanc	4.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1664	ALL	382253	3744279	5.44E-08	1.17YrCanc	5.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1665	ALL	385053	3744279	4.59E-08	1.17YrCanc	4.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1666	ALL	385253	3744279	3.76E-08	1.17YrCanc	3.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1667	ALL	385453	3744279	3.14E-08	1.17YrCanc	3.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1668	ALL	385653	3744279	2.67E-08	1.17YrCanc	2.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1669	ALL	385853	3744279	2.30E-08	1.17YrCanc	2.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1670	ALL	381453	3744479	2.72E-08	1.17YrCanc	2.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1671	ALL	381653	3744479	3.08E-08	1.17YrCanc	3.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1672	ALL	381853	3744479	3.55E-08	1.17YrCanc	3.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1673	ALL	382053	3744479	4.11E-08	1.17YrCanc	4.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1674	ALL	382253	3744479	4.78E-08	1.17YrCanc	4.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1675	ALL	385053	3744479	4.15E-08	1.17YrCanc	4.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1676	ALL	385253	3744479	3.45E-08	1.17YrCanc	3.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1677	ALL	385453	3744479	2.92E-08	1.17YrCanc	2.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1678	ALL	385653	3744479	2.50E-08	1.17YrCanc	2.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1679	ALL	385853	3744479	2.17E-08	1.17YrCanc	2.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1680	ALL	381453	3744679	2.53E-08	1.17YrCanc	2.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1681	ALL	381653	3744679	2.84E-08	1.17YrCanc	2.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1682	ALL	381853	3744679	3.19E-08	1.17YrCanc	3.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1683	ALL	382053	3744679	3.59E-08	1.17YrCanc	3.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1684	ALL	382253	3744679	4.06E-08	1.17YrCanc	4.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1685	ALL	385053	3744679	3.72E-08	1.17YrCanc	3.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1686	ALL	385253	3744679	3.16E-08	1.17YrCanc	3.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1687	ALL	385453	3744679	2.71E-08	1.17YrCanc	2.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1688	ALL	385653	3744679	2.35E-08	1.17YrCanc	2.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1689	ALL	385853	3744679	2.05E-08	1.17YrCanc	2.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1690	ALL	381453	3744879	2.31E-08	1.17YrCanc	2.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1691	ALL	381653	3744879	2.54E-08	1.17YrCanc	2.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1692	ALL	381853	3744879	2.80E-08	1.17YrCanc	2.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1693	ALL	382053	3744879	3.10E-08	1.17YrCanc	3.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1694	ALL	382253	3744879	3.45E-08	1.17YrCanc	3.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1695	ALL	382453	3744879	3.89E-08	1.17YrCanc	3.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1696	ALL	382653	3744879	4.44E-08	1.17YrCanc	4.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1697	ALL	382853	3744879	5.09E-08	1.17YrCanc	5.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1698	ALL	383053	3744879	5.83E-08	1.17YrCanc	5.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1699	ALL	383253	3744879	6.61E-08	1.17YrCanc	6.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1700	ALL	383453	3744879	7.38E-08	1.17YrCanc	7.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1701	ALL	383653	3744879	8.00E-08	1.17YrCanc	8.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1702	ALL	383853	3744879	8.11E-08	1.17YrCanc	8.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1703	ALL	384053	3744879	7.48E-08	1.17YrCanc	7.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1704	ALL	384253	3744879	6.44E-08	1.17YrCanc	6.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1705	ALL	384453	3744879	5.41E-08	1.17YrCanc	5.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1706	ALL	384653	3744879	4.56E-08	1.17YrCanc	4.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1707	ALL	384853	3744879	3.88E-08	1.17YrCanc	3.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1708	ALL	385053	3744879	3.32E-08	1.17YrCanc	3.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1709	ALL	385253	3744879	2.87E-08	1.17YrCanc	2.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1710	ALL	385453	3744879	2.49E-08	1.17YrCanc	2.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1711	ALL	385653	3744879	2.19E-08	1.17YrCanc	2.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1712	ALL	385853	3744879	1.93E-08	1.17YrCanc	1.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1713	ALL	381453	3745079	2.07E-08	1.17YrCanc	2.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1714	ALL	381653	3745079	2.25E-08	1.17YrCanc	2.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1715	ALL	381853	3745079	2.45E-08	1.17YrCanc	2.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1716	ALL	382053	3745079	2.70E-08	1.17YrCanc	2.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1717	ALL	382253	3745079	2.99E-08	1.17YrCanc	2.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1718	ALL	382453	3745079	3.34E-08	1.17YrCanc	3.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1719	ALL	382653	3745079	3.76E-08	1.17YrCanc	3.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1720	ALL	382853	3745079	4.23E-08	1.17YrCanc	4.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1721	ALL	383053	3745079	4.71E-08	1.17YrCanc	4.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1722	ALL	383253	3745079	5.18E-08	1.17YrCanc	5.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1723	ALL	383453	3745079	5.67E-08	1.17YrCanc	5.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1724	ALL	383653	3745079	6.05E-08	1.17YrCanc	6.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1725	ALL	383853	3745079	6.15E-08	1.17YrCanc	6.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1726	ALL	384053	3745079	5.84E-08	1.17YrCanc	5.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1727	ALL	384253	3745079	5.21E-08	1.17YrCanc	5.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1728	ALL	384453	3745079	4.52E-08	1.17YrCanc	4.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1729	ALL	384653	3745079	3.90E-08	1.17YrCanc	3.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1730	ALL	384853	3745079	3.39E-08	1.17YrCanc	3.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1731	ALL	385053	3745079	2.96E-08	1.17YrCanc	2.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1732	ALL	385253	3745079	2.59E-08	1.17YrCanc	2.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1733	ALL	385453	3745079	2.29E-08	1.17YrCanc	2.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1734	ALL	385653	3745079	2.03E-08	1.17YrCanc	2.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1735	ALL	385853	3745079	1.81E-08	1.17YrCanc	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1736	ALL	381453	3745279	1.85E-08	1.17YrCanc	1.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1737	ALL	381653	3745279	2.00E-08	1.17YrCanc	2.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1738	ALL	381853	3745279	2.18E-08	1.17YrCanc	2.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1739	ALL	382053	3745279	2.38E-08	1.17YrCanc	2.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1740	ALL	382253	3745279	2.63E-08	1.17YrCanc	2.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1741	ALL	382453	3745279	2.92E-08	1.17YrCanc	2.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1742	ALL	382653	3745279	3.22E-08	1.17YrCanc	3.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1743	ALL	382853	3745279	3.55E-08	1.17YrCanc	3.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1744	ALL	383053	3745279	3.87E-08	1.17YrCanc	3.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1745	ALL	383253	3745279	4.21E-08	1.17YrCanc	4.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1746	ALL	383453	3745279	4.52E-08	1.17YrCanc	4.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1747	ALL	383653	3745279	4.77E-08	1.17YrCanc	4.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1748	ALL	383853	3745279	4.85E-08	1.17YrCanc	4.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1749	ALL	384053	3745279	4.68E-08	1.17YrCanc	4.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1750	ALL	384253	3745279	4.30E-08	1.17YrCanc	4.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1751	ALL	384453	3745279	3.82E-08	1.17YrCanc	3.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1752	ALL	384653	3745279	3.37E-08	1.17YrCanc	3.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1753	ALL	384853	3745279	2.97E-08	1.17YrCanc	2.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1754	ALL	385053	3745279	2.63E-08	1.17YrCanc	2.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1755	ALL	385253	3745279	2.34E-08	1.17YrCanc	2.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1756	ALL	385453	3745279	2.09E-08	1.17YrCanc	2.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1757	ALL	385653	3745279	1.87E-08	1.17YrCanc	1.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1758	ALL	385853	3745279	1.69E-08	1.17YrCanc	1.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1759	ALL	381453	3745479	1.67E-08	1.17YrCanc	1.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1760	ALL	381653	3745479	1.80E-08	1.17YrCanc	1.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1761	ALL	381853	3745479	1.96E-08	1.17YrCanc	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1762	ALL	382053	3745479	2.13E-08	1.17YrCanc	2.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1763	ALL	382253	3745479	2.42E-08	1.17YrCanc	2.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1764	ALL	382453	3745479	2.56E-08	1.17YrCanc	2.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1765	ALL	382653	3745479	2.81E-08	1.17YrCanc	2.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1766	ALL	382853	3745479	3.02E-08	1.17YrCanc	3.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1767	ALL	383053	3745479	3.25E-08	1.17YrCanc	3.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1768	ALL	383253	3745479	3.48E-08	1.17YrCanc	3.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1769	ALL	383453	3745479	3.70E-08	1.17YrCanc	3.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1770	ALL	383653	3745479	3.87E-08	1.17YrCanc	3.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1771	ALL	383853	3745479	3.94E-08	1.17YrCanc	3.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1772	ALL	384053	3745479	3.85E-08	1.17YrCanc	3.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1773	ALL	384253	3745479	3.60E-08	1.17YrCanc	3.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1774	ALL	384453	3745479	3.27E-08	1.17YrCanc	3.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1775	ALL	384653	3745479	2.93E-08	1.17YrCanc	2.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1776	ALL	384853	3745479	2.63E-08	1.17YrCanc	2.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1777	ALL	385053	3745479	2.36E-08	1.17YrCanc	2.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1778	ALL	385253	3745479	2.12E-08	1.17YrCanc	2.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1779	ALL	385453	3745479	1.91E-08	1.17YrCanc	1.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1780	ALL	385653	3745479	1.73E-08	1.17YrCanc	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1781	ALL	385853	3745479	1.57E-08	1.17YrCanc	1.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1782	ALL	381453	3745679	1.52E-08	1.17YrCanc	1.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1783	ALL	381653	3745679	1.64E-08	1.17YrCanc	1.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1784	ALL	381853	3745679	1.77E-08	1.17YrCanc	1.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1785	ALL	382053	3745679	1.93E-08	1.17YrCanc	1.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1786	ALL	382253	3745679	2.09E-08	1.17YrCanc	2.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1787	ALL	382453	3745679	2.30E-08	1.17YrCanc	2.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1788	ALL	382653	3745679	2.43E-08	1.17YrCanc	2.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1789	ALL	382853	3745679	2.60E-08	1.17YrCanc	2.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1790	ALL	383053	3745679	2.77E-08	1.17YrCanc	2.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1791	ALL	383253	3745679	2.94E-08	1.17YrCanc	2.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1792	ALL	383453	3745679	3.09E-08	1.17YrCanc	3.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1793	ALL	383653	3745679	3.22E-08	1.17YrCanc	3.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1794	ALL	383853	3745679	3.28E-08	1.17YrCanc	3.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1795	ALL	384053	3745679	3.23E-08	1.17YrCanc	3.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1796	ALL	384253	3745679	3.07E-08	1.17YrCanc	3.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1797	ALL	384453	3745679	2.83E-08	1.17YrCanc	2.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1798	ALL	384653	3745679	2.58E-08	1.17YrCanc	2.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1799	ALL	384853	3745679	2.33E-08	1.17YrCanc	2.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1800	ALL	385053	3745679	2.11E-08	1.17YrCanc	2.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1801	ALL	385253	3745679	1.92E-08	1.17YrCanc	1.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1802	ALL	385453	3745679	1.75E-08	1.17YrCanc	1.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1803	ALL	385653	3745679	1.60E-08	1.17YrCanc	1.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1804	ALL	385853	3745679	1.46E-08	1.17YrCanc	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1805	ALL	381453	3745879	1.40E-08	1.17YrCanc	1.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1806	ALL	381653	3745879	1.50E-08	1.17YrCanc	1.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1807	ALL	381853	3745879	1.62E-08	1.17YrCanc	1.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1808	ALL	382053	3745879	1.74E-08	1.17YrCanc	1.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1809	ALL	382253	3745879	1.87E-08	1.17YrCanc	1.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1810	ALL	382453	3745879	2.00E-08	1.17YrCanc	2.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1811	ALL	382653	3745879	2.14E-08	1.17YrCanc	2.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1812	ALL	382853	3745879	2.27E-08	1.17YrCanc	2.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1813	ALL	383053	3745879	2.40E-08	1.17YrCanc	2.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1814	ALL	383253	3745879	2.52E-08	1.17YrCanc	2.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1815	ALL	383453	3745879	2.63E-08	1.17YrCanc	2.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1816	ALL	383653	3745879	2.73E-08	1.17YrCanc	2.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1817	ALL	383853	3745879	2.78E-08	1.17YrCanc	2.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1818	ALL	384053	3745879	2.75E-08	1.17YrCanc	2.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1819	ALL	384253	3745879	2.64E-08	1.17YrCanc	2.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1820	ALL	384453	3745879	2.48E-08	1.17YrCanc	2.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1821	ALL	384653	3745879	2.28E-08	1.17YrCanc	2.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1822	ALL	384853	3745879	2.09E-08	1.17YrCanc	2.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1823	ALL	385053	3745879	1.91E-08	1.17YrCanc	1.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1824	ALL	385253	3745879	1.75E-08	1.17YrCanc	1.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1825	ALL	385453	3745879	1.60E-08	1.17YrCanc	1.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1826	ALL	385653	3745879	1.47E-08	1.17YrCanc	1.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1827	ALL	385853	3745879	1.36E-08	1.17YrCanc	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1828	ALL	378453	3738679	2.14E-09	1.17YrCanc	2.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1829	ALL	378953	3738679	2.18E-09	1.17YrCanc	2.18E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1830	ALL	379453	3738679	2.45E-09	1.17YrCanc	2.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1831	ALL	379953	3738679	2.85E-09	1.17YrCanc	2.85E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1832	ALL	380453	3738679	4.38E-09	1.17YrCanc	4.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1833	ALL	380953	3738679	4.69E-09	1.17YrCanc	4.69E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1834	ALL	381453	3738679	4.22E-09	1.17YrCanc	4.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1835	ALL	381953	3738679	5.28E-09	1.17YrCanc	5.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1836	ALL	382453	3738679	5.54E-09	1.17YrCanc	5.54E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1837	ALL	382953	3738679	5.80E-09	1.17YrCanc	5.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1838	ALL	383453	3738679	6.14E-09	1.17YrCanc	6.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1839	ALL	383953	3738679	6.53E-09	1.17YrCanc	6.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1840	ALL	384453	3738679	6.86E-09	1.17YrCanc	6.86E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1841	ALL	384953	3738679	7.09E-09	1.17YrCanc	7.09E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1842	ALL	385453	3738679	7.23E-09	1.17YrCanc	7.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1843	ALL	385953	3738679	7.35E-09	1.17YrCanc	7.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1844	ALL	386453	3738679	7.50E-09	1.17YrCanc	7.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1845	ALL	386953	3738679	7.72E-09	1.17YrCanc	7.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1846	ALL	387453	3738679	8.02E-09	1.17YrCanc	8.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1847	ALL	387953	3738679	8.42E-09	1.17YrCanc	8.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1848	ALL	388453	3738679	8.84E-09	1.17YrCanc	8.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1849	ALL	388953	3738679	9.19E-09	1.17YrCanc	9.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1850	ALL	378453	3739179	2.58E-09	1.17YrCanc	2.58E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1851	ALL	378953	3739179	2.76E-09	1.17YrCanc	2.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1852	ALL	379453	3739179	3.05E-09	1.17YrCanc	3.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1853	ALL	379953	3739179	4.53E-09	1.17YrCanc	4.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1854	ALL	380453	3739179	4.92E-09	1.17YrCanc	4.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1855	ALL	380953	3739179	5.33E-09	1.17YrCanc	5.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1856	ALL	381453	3739179	5.74E-09	1.17YrCanc	5.74E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1857	ALL	381953	3739179	6.13E-09	1.17YrCanc	6.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1858	ALL	382453	3739179	4.99E-09	1.17YrCanc	4.99E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1859	ALL	382953	3739179	5.82E-09	1.17YrCanc	5.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1860	ALL	383453	3739179	7.25E-09	1.17YrCanc	7.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1861	ALL	383953	3739179	7.76E-09	1.17YrCanc	7.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1862	ALL	384453	3739179	8.18E-09	1.17YrCanc	8.18E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1863	ALL	384953	3739179	8.46E-09	1.17YrCanc	8.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1864	ALL	385453	3739179	8.63E-09	1.17YrCanc	8.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1865	ALL	385953	3739179	8.81E-09	1.17YrCanc	8.81E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1866	ALL	386453	3739179	9.06E-09	1.17YrCanc	9.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1867	ALL	386953	3739179	9.43E-09	1.17YrCanc	9.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1868	ALL	387453	3739179	9.93E-09	1.17YrCanc	9.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1869	ALL	387953	3739179	1.05E-08	1.17YrCanc	1.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1870	ALL	388453	3739179	1.09E-08	1.17YrCanc	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1871	ALL	388953	3739179	1.11E-08	1.17YrCanc	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1872	ALL	378453	3739679	2.93E-09	1.17YrCanc	2.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1873	ALL	378953	3739679	3.11E-09	1.17YrCanc	3.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1874	ALL	379453	3739679	3.36E-09	1.17YrCanc	3.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1875	ALL	379953	3739679	3.77E-09	1.17YrCanc	3.77E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1876	ALL	380453	3739679	5.55E-09	1.17YrCanc	5.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1877	ALL	380953	3739679	6.10E-09	1.17YrCanc	6.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1878	ALL	381453	3739679	6.66E-09	1.17YrCanc	6.66E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1879	ALL	381953	3739679	6.28E-09	1.17YrCanc	6.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1880	ALL	382453	3739679	7.70E-09	1.17YrCanc	7.70E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1881	ALL	382953	3739679	6.22E-09	1.17YrCanc	6.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1882	ALL	383453	3739679	7.07E-09	1.17YrCanc	7.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1883	ALL	383953	3739679	9.41E-09	1.17YrCanc	9.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1884	ALL	384453	3739679	9.96E-09	1.17YrCanc	9.96E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1885	ALL	384953	3739679	1.03E-08	1.17YrCanc	1.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1886	ALL	385453	3739679	1.05E-08	1.17YrCanc	1.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1887	ALL	385953	3739679	1.08E-08	1.17YrCanc	1.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1888	ALL	386453	3739679	1.13E-08	1.17YrCanc	1.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1889	ALL	386953	3739679	1.20E-08	1.17YrCanc	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1890	ALL	387453	3739679	1.27E-08	1.17YrCanc	1.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1891	ALL	387953	3739679	1.33E-08	1.17YrCanc	1.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1892	ALL	388453	3739679	1.34E-08	1.17YrCanc	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1893	ALL	388953	3739679	1.29E-08	1.17YrCanc	1.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1894	ALL	378453	3740179	3.39E-09	1.17YrCanc	3.39E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1895	ALL	378953	3740179	3.55E-09	1.17YrCanc	3.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1896	ALL	379453	3740179	3.78E-09	1.17YrCanc	3.78E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1897	ALL	379953	3740179	4.21E-09	1.17YrCanc	4.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1898	ALL	380453	3740179	4.61E-09	1.17YrCanc	4.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1899	ALL	380953	3740179	7.02E-09	1.17YrCanc	7.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1900	ALL	381453	3740179	7.80E-09	1.17YrCanc	7.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1901	ALL	381953	3740179	7.79E-09	1.17YrCanc	7.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1902	ALL	382453	3740179	7.99E-09	1.17YrCanc	7.99E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1903	ALL	382953	3740179	9.89E-09	1.17YrCanc	9.89E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1904	ALL	383453	3740179	1.08E-08	1.17YrCanc	1.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1905	ALL	383953	3740179	1.14E-08	1.17YrCanc	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1906	ALL	384453	3740179	1.28E-08	1.17YrCanc	1.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1907	ALL	384953	3740179	1.40E-08	1.17YrCanc	1.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1908	ALL	385453	3740179	1.33E-08	1.17YrCanc	1.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1909	ALL	385953	3740179	1.38E-08	1.17YrCanc	1.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1910	ALL	386453	3740179	1.47E-08	1.17YrCanc	1.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1911	ALL	386953	3740179	1.58E-08	1.17YrCanc	1.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1912	ALL	387453	3740179	1.65E-08	1.17YrCanc	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1913	ALL	387953	3740179	1.65E-08	1.17YrCanc	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1914	ALL	388453	3740179	1.56E-08	1.17YrCanc	1.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1915	ALL	388953	3740179	1.41E-08	1.17YrCanc	1.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1916	ALL	378453	3740679	4.08E-09	1.17YrCanc	4.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1917	ALL	378953	3740679	4.24E-09	1.17YrCanc	4.24E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1918	ALL	379453	3740679	4.46E-09	1.17YrCanc	4.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1919	ALL	379953	3740679	4.76E-09	1.17YrCanc	4.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1920	ALL	380453	3740679	5.37E-09	1.17YrCanc	5.37E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1921	ALL	380953	3740679	8.15E-09	1.17YrCanc	8.15E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1922	ALL	381453	3740679	9.17E-09	1.17YrCanc	9.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1923	ALL	381953	3740679	1.01E-08	1.17YrCanc	1.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1924	ALL	382453	3740679	8.60E-09	1.17YrCanc	8.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1925	ALL	382953	3740679	9.16E-09	1.17YrCanc	9.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1926	ALL	383453	3740679	1.09E-08	1.17YrCanc	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1927	ALL	383953	3740679	1.42E-08	1.17YrCanc	1.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1928	ALL	384453	3740679	1.69E-08	1.17YrCanc	1.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1929	ALL	384953	3740679	1.84E-08	1.17YrCanc	1.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1930	ALL	385453	3740679	2.04E-08	1.17YrCanc	2.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1931	ALL	385953	3740679	2.13E-08	1.17YrCanc	2.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1932	ALL	386453	3740679	2.02E-08	1.17YrCanc	2.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1933	ALL	386953	3740679	2.13E-08	1.17YrCanc	2.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1934	ALL	387453	3740679	2.10E-08	1.17YrCanc	2.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1935	ALL	387953	3740679	1.93E-08	1.17YrCanc	1.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1936	ALL	388453	3740679	1.67E-08	1.17YrCanc	1.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1937	ALL	388953	3740679	1.40E-08	1.17YrCanc	1.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1938	ALL	378453	3741179	5.08E-09	1.17YrCanc	5.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1939	ALL	378953	3741179	5.29E-09	1.17YrCanc	5.29E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1940	ALL	379453	3741179	5.49E-09	1.17YrCanc	5.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1941	ALL	379953	3741179	5.80E-09	1.17YrCanc	5.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1942	ALL	380453	3741179	6.31E-09	1.17YrCanc	6.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1943	ALL	380953	3741179	9.51E-09	1.17YrCanc	9.51E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1944	ALL	381453	3741179	8.44E-09	1.17YrCanc	8.44E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1945	ALL	381953	3741179	1.00E-08	1.17YrCanc	1.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1946	ALL	382453	3741179	1.46E-08	1.17YrCanc	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1947	ALL	382953	3741179	1.21E-08	1.17YrCanc	1.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1948	ALL	383453	3741179	1.45E-08	1.17YrCanc	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1949	ALL	383953	3741179	2.05E-08	1.17YrCanc	2.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1950	ALL	384453	3741179	2.36E-08	1.17YrCanc	2.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1951	ALL	384953	3741179	2.43E-08	1.17YrCanc	2.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1952	ALL	385453	3741179	2.47E-08	1.17YrCanc	2.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1953	ALL	385953	3741179	2.73E-08	1.17YrCanc	2.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1954	ALL	386453	3741179	2.86E-08	1.17YrCanc	2.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1955	ALL	386953	3741179	2.75E-08	1.17YrCanc	2.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1956	ALL	387453	3741179	2.42E-08	1.17YrCanc	2.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1957	ALL	387953	3741179	1.99E-08	1.17YrCanc	1.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1958	ALL	388453	3741179	1.59E-08	1.17YrCanc	1.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1959	ALL	388953	3741179	1.26E-08	1.17YrCanc	1.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1960	ALL	378453	3741679	6.00E-09	1.17YrCanc	6.00E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1961	ALL	378953	3741679	6.54E-09	1.17YrCanc	6.54E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1962	ALL	379453	3741679	7.02E-09	1.17YrCanc	7.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1963	ALL	379953	3741679	7.39E-09	1.17YrCanc	7.39E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1964	ALL	380453	3741679	9.44E-09	1.17YrCanc	9.44E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1965	ALL	380953	3741679	1.12E-08	1.17YrCanc	1.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1966	ALL	385953	3741679	4.08E-08	1.17YrCanc	4.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1967	ALL	386453	3741679	3.76E-08	1.17YrCanc	3.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1968	ALL	386953	3741679	3.08E-08	1.17YrCanc	3.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1969	ALL	387453	3741679	2.37E-08	1.17YrCanc	2.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1970	ALL	387953	3741679	1.79E-08	1.17YrCanc	1.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1971	ALL	388453	3741679	1.36E-08	1.17YrCanc	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1972	ALL	388953	3741679	1.07E-08	1.17YrCanc	1.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1973	ALL	378453	3742179	6.76E-09	1.17YrCanc	6.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1974	ALL	378953	3742179	7.49E-09	1.17YrCanc	7.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1975	ALL	379453	3742179	8.36E-09	1.17YrCanc	8.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1976	ALL	379953	3742179	9.52E-09	1.17YrCanc	9.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1977	ALL	380453	3742179	1.05E-08	1.17YrCanc	1.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1978	ALL	380953	3742179	1.32E-08	1.17YrCanc	1.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1979	ALL	385953	3742179	5.43E-08	1.17YrCanc	5.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1980	ALL	386453	3742179	3.97E-08	1.17YrCanc	3.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1981	ALL	386953	3742179	2.78E-08	1.17YrCanc	2.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1982	ALL	387453	3742179	1.97E-08	1.17YrCanc	1.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1983	ALL	387953	3742179	1.46E-08	1.17YrCanc	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1984	ALL	388453	3742179	1.12E-08	1.17YrCanc	1.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1985	ALL	388953	3742179	9.00E-09	1.17YrCanc	9.00E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1986	ALL	378453	3742679	7.07E-09	1.17YrCanc	7.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1987	ALL	378953	3742679	8.07E-09	1.17YrCanc	8.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1988	ALL	379453	3742679	9.40E-09	1.17YrCanc	9.40E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1989	ALL	379953	3742679	1.09E-08	1.17YrCanc	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1990	ALL	380453	3742679	1.26E-08	1.17YrCanc	1.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1991	ALL	380953	3742679	1.53E-08	1.17YrCanc	1.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1992	ALL	385953	3742679	5.09E-08	1.17YrCanc	5.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1993	ALL	386453	3742679	3.19E-08	1.17YrCanc	3.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1994	ALL	386953	3742679	2.16E-08	1.17YrCanc	2.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1995	ALL	387453	3742679	1.57E-08	1.17YrCanc	1.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1996	ALL	387953	3742679	1.20E-08	1.17YrCanc	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1997	ALL	388453	3742679	9.61E-09	1.17YrCanc	9.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1998	ALL	388953	3742679	7.91E-09	1.17YrCanc	7.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1999	ALL	378453	3743179	7.27E-09	1.17YrCanc	7.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2000	ALL	378953	3743179	8.16E-09	1.17YrCanc	8.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2001	ALL	379453	3743179	9.57E-09	1.17YrCanc	9.57E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

2002	ALL	379953	3743179	1.14E-08	1.17YrCanc	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2003	ALL	380453	3743179	1.39E-08	1.17YrCanc	1.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2004	ALL	380953	3743179	1.80E-08	1.17YrCanc	1.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2005	ALL	385953	3743179	3.62E-08	1.17YrCanc	3.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2006	ALL	386453	3743179	2.39E-08	1.17YrCanc	2.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2007	ALL	386953	3743179	1.72E-08	1.17YrCanc	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2008	ALL	387453	3743179	1.32E-08	1.17YrCanc	1.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2009	ALL	387953	3743179	1.05E-08	1.17YrCanc	1.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2010	ALL	388453	3743179	8.58E-09	1.17YrCanc	8.58E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2011	ALL	388953	3743179	6.10E-09	1.17YrCanc	6.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2012	ALL	378453	3743679	7.68E-09	1.17YrCanc	7.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2013	ALL	378953	3743679	8.97E-09	1.17YrCanc	8.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2014	ALL	379453	3743679	1.05E-08	1.17YrCanc	1.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2015	ALL	379953	3743679	1.26E-08	1.17YrCanc	1.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2016	ALL	380453	3743679	1.56E-08	1.17YrCanc	1.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2017	ALL	380953	3743679	2.06E-08	1.17YrCanc	2.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2018	ALL	385953	3743679	2.74E-08	1.17YrCanc	2.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2019	ALL	386453	3743679	1.94E-08	1.17YrCanc	1.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2020	ALL	386953	3743679	1.46E-08	1.17YrCanc	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2021	ALL	387453	3743679	1.14E-08	1.17YrCanc	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2022	ALL	387953	3743679	9.28E-09	1.17YrCanc	9.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2023	ALL	388453	3743679	7.71E-09	1.17YrCanc	7.71E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2024	ALL	388953	3743679	4.81E-09	1.17YrCanc	4.81E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2025	ALL	378453	3744179	8.24E-09	1.17YrCanc	8.24E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2026	ALL	378953	3744179	9.57E-09	1.17YrCanc	9.57E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2027	ALL	379453	3744179	1.13E-08	1.17YrCanc	1.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2028	ALL	379953	3744179	1.35E-08	1.17YrCanc	1.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2029	ALL	380453	3744179	1.72E-08	1.17YrCanc	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2030	ALL	380953	3744179	2.25E-08	1.17YrCanc	2.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2031	ALL	385953	3744179	2.22E-08	1.17YrCanc	2.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2032	ALL	386453	3744179	1.62E-08	1.17YrCanc	1.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2033	ALL	386953	3744179	1.25E-08	1.17YrCanc	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2034	ALL	387453	3744179	9.99E-09	1.17YrCanc	9.99E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2035	ALL	387953	3744179	8.21E-09	1.17YrCanc	8.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2036	ALL	388453	3744179	6.85E-09	1.17YrCanc	6.85E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2037	ALL	388953	3744179	3.35E-09	1.17YrCanc	3.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2038	ALL	378453	3744679	7.96E-09	1.17YrCanc	7.96E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2039	ALL	378953	3744679	9.19E-09	1.17YrCanc	9.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2040	ALL	379453	3744679	9.81E-09	1.17YrCanc	9.81E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2041	ALL	379953	3744679	1.20E-08	1.17YrCanc	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2042	ALL	380453	3744679	1.50E-08	1.17YrCanc	1.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2043	ALL	380953	3744679	2.12E-08	1.17YrCanc	2.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2044	ALL	385953	3744679	1.93E-08	1.17YrCanc	1.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2045	ALL	386453	3744679	1.44E-08	1.17YrCanc	1.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2046	ALL	386953	3744679	1.13E-08	1.17YrCanc	1.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2047	ALL	387453	3744679	9.08E-09	1.17YrCanc	9.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2048	ALL	387953	3744679	7.41E-09	1.17YrCanc	7.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2049	ALL	388453	3744679	6.17E-09	1.17YrCanc	6.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2050	ALL	388953	3744679	5.37E-09	1.17YrCanc	5.37E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2051	ALL	378453	3745179	7.70E-09	1.17YrCanc	7.70E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2052	ALL	378953	3745179	8.92E-09	1.17YrCanc	8.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2053	ALL	379453	3745179	1.05E-08	1.17YrCanc	1.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2054	ALL	379953	3745179	1.25E-08	1.17YrCanc	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2055	ALL	380453	3745179	1.36E-08	1.17YrCanc	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2056	ALL	380953	3745179	1.76E-08	1.17YrCanc	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2057	ALL	385953	3745179	1.65E-08	1.17YrCanc	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2058	ALL	386453	3745179	1.29E-08	1.17YrCanc	1.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2059	ALL	386953	3745179	1.03E-08	1.17YrCanc	1.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2060	ALL	387453	3745179	8.42E-09	1.17YrCanc	8.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2061	ALL	387953	3745179	6.75E-09	1.17YrCanc	6.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2062	ALL	388453	3745179	4.57E-09	1.17YrCanc	4.57E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2063	ALL	388953	3745179	3.96E-09	1.17YrCanc	3.96E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2064	ALL	378453	3745679	7.43E-09	1.17YrCanc	7.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2065	ALL	378953	3745679	8.71E-09	1.17YrCanc	8.71E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2066	ALL	379453	3745679	9.68E-09	1.17YrCanc	9.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2067	ALL	379953	3745679	9.88E-09	1.17YrCanc	9.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2068	ALL	380453	3745679	1.13E-08	1.17YrCanc	1.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2069	ALL	380953	3745679	1.29E-08	1.17YrCanc	1.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2070	ALL	385953	3745679	1.40E-08	1.17YrCanc	1.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2071	ALL	386453	3745679	1.13E-08	1.17YrCanc	1.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2072	ALL	386953	3745679	9.23E-09	1.17YrCanc	9.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2073	ALL	387453	3745679	7.33E-09	1.17YrCanc	7.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2074	ALL	387953	3745679	5.54E-09	1.17YrCanc	5.54E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2075	ALL	388453	3745679	3.53E-09	1.17YrCanc	3.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2076	ALL	388953	3745679	4.77E-09	1.17YrCanc	4.77E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2077	ALL	378453	3746179	6.93E-09	1.17YrCanc	6.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2078	ALL	378953	3746179	7.58E-09	1.17YrCanc	7.58E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2079	ALL	379453	3746179	8.01E-09	1.17YrCanc	8.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2080	ALL	379953	3746179	8.43E-09	1.17YrCanc	8.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2081	ALL	380453	3746179	9.28E-09	1.17YrCanc	9.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2082	ALL	380953	3746179	1.06E-08	1.17YrCanc	1.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2083	ALL	381453	3746179	1.25E-08	1.17YrCanc	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2084	ALL	381953	3746179	1.46E-08	1.17YrCanc	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2085	ALL	382453	3746179	1.69E-08	1.17YrCanc	1.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2086	ALL	382953	3746179	1.92E-08	1.17YrCanc	1.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2087	ALL	383453	3746179	2.13E-08	1.17YrCanc	2.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2088	ALL	383953	3746179	2.23E-08	1.17YrCanc	2.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2089	ALL	384453	3746179	2.05E-08	1.17YrCanc	2.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2090	ALL	384953	3746179	1.72E-08	1.17YrCanc	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2091	ALL	385453	3746179	1.41E-08	1.17YrCanc	1.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2092	ALL	385953	3746179	9.07E-09	1.17YrCanc	9.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

2093	ALL	386453	3746179	7.46E-09	1.17YrCanc	7.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2094	ALL	386953	3746179	6.30E-09	1.17YrCanc	6.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2095	ALL	387453	3746179	5.87E-09	1.17YrCanc	5.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2096	ALL	387953	3746179	6.09E-09	1.17YrCanc	6.09E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2097	ALL	388453	3746179	4.11E-09	1.17YrCanc	4.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2098	ALL	388953	3746179	3.52E-09	1.17YrCanc	3.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2099	ALL	378453	3746679	5.90E-09	1.17YrCanc	5.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2100	ALL	378953	3746679	6.10E-09	1.17YrCanc	6.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2101	ALL	379453	3746679	6.43E-09	1.17YrCanc	6.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2102	ALL	379953	3746679	7.06E-09	1.17YrCanc	7.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2103	ALL	380453	3746679	7.96E-09	1.17YrCanc	7.96E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2104	ALL	380953	3746679	9.08E-09	1.17YrCanc	9.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2105	ALL	381453	3746679	1.08E-08	1.17YrCanc	1.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2106	ALL	381953	3746679	1.18E-08	1.17YrCanc	1.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2107	ALL	382453	3746679	1.32E-08	1.17YrCanc	1.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2108	ALL	382953	3746679	1.45E-08	1.17YrCanc	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2109	ALL	383453	3746679	1.57E-08	1.17YrCanc	1.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2110	ALL	383953	3746679	1.64E-08	1.17YrCanc	1.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2111	ALL	384453	3746679	1.55E-08	1.17YrCanc	1.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2112	ALL	384953	3746679	1.01E-08	1.17YrCanc	1.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2113	ALL	385453	3746679	6.57E-09	1.17YrCanc	6.57E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2114	ALL	385953	3746679	4.83E-09	1.17YrCanc	4.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2115	ALL	386453	3746679	3.41E-09	1.17YrCanc	3.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2116	ALL	386953	3746679	2.83E-09	1.17YrCanc	2.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2117	ALL	387453	3746679	4.68E-09	1.17YrCanc	4.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2118	ALL	387953	3746679	4.20E-09	1.17YrCanc	4.20E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2119	ALL	388453	3746679	3.67E-09	1.17YrCanc	3.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2120	ALL	388953	3746679	4.37E-09	1.17YrCanc	4.37E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2121	ALL	378453	3747179	4.82E-09	1.17YrCanc	4.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2122	ALL	378953	3747179	5.13E-09	1.17YrCanc	5.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2123	ALL	379453	3747179	5.63E-09	1.17YrCanc	5.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2124	ALL	379953	3747179	6.31E-09	1.17YrCanc	6.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2125	ALL	380453	3747179	7.08E-09	1.17YrCanc	7.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2126	ALL	380953	3747179	8.17E-09	1.17YrCanc	8.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2127	ALL	381453	3747179	8.73E-09	1.17YrCanc	8.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2128	ALL	381953	3747179	9.66E-09	1.17YrCanc	9.66E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2129	ALL	382453	3747179	1.06E-08	1.17YrCanc	1.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2130	ALL	382953	3747179	1.14E-08	1.17YrCanc	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2131	ALL	383453	3747179	1.22E-08	1.17YrCanc	1.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2132	ALL	383953	3747179	1.13E-08	1.17YrCanc	1.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2133	ALL	384453	3747179	9.58E-09	1.17YrCanc	9.58E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2134	ALL	384953	3747179	6.67E-09	1.17YrCanc	6.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2135	ALL	385453	3747179	4.81E-09	1.17YrCanc	4.81E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2136	ALL	385953	3747179	3.52E-09	1.17YrCanc	3.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2137	ALL	386453	3747179	2.91E-09	1.17YrCanc	2.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2138	ALL	386953	3747179	2.63E-09	1.17YrCanc	2.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2139	ALL	387453	3747179	4.09E-09	1.17YrCanc	4.09E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2140	ALL	387953	3747179	3.69E-09	1.17YrCanc	3.69E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2141	ALL	388453	3747179	3.34E-09	1.17YrCanc	3.34E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2142	ALL	388953	3747179	2.94E-09	1.17YrCanc	2.94E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2143	ALL	378453	3747679	4.23E-09	1.17YrCanc	4.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2144	ALL	378953	3747679	4.63E-09	1.17YrCanc	4.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2145	ALL	379453	3747679	5.13E-09	1.17YrCanc	5.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2146	ALL	379953	3747679	5.72E-09	1.17YrCanc	5.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2147	ALL	380453	3747679	6.29E-09	1.17YrCanc	6.29E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2148	ALL	380953	3747679	6.97E-09	1.17YrCanc	6.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2149	ALL	381453	3747679	7.42E-09	1.17YrCanc	7.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2150	ALL	381953	3747679	8.06E-09	1.17YrCanc	8.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2151	ALL	382453	3747679	8.68E-09	1.17YrCanc	8.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2152	ALL	382953	3747679	9.25E-09	1.17YrCanc	9.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2153	ALL	383453	3747679	8.90E-09	1.17YrCanc	8.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2154	ALL	383953	3747679	8.45E-09	1.17YrCanc	8.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2155	ALL	384453	3747679	7.23E-09	1.17YrCanc	7.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2156	ALL	384953	3747679	6.03E-09	1.17YrCanc	6.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2157	ALL	385453	3747679	4.24E-09	1.17YrCanc	4.24E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2158	ALL	385953	3747679	3.30E-09	1.17YrCanc	3.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2159	ALL	386453	3747679	2.83E-09	1.17YrCanc	2.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2160	ALL	386953	3747679	2.95E-09	1.17YrCanc	2.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2161	ALL	387453	3747679	3.54E-09	1.17YrCanc	3.54E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2162	ALL	387953	3747679	3.27E-09	1.17YrCanc	3.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2163	ALL	388453	3747679	2.97E-09	1.17YrCanc	2.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2164	ALL	388953	3747679	2.63E-09	1.17YrCanc	2.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2165	ALL	378453	3748179	3.88E-09	1.17YrCanc	3.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2166	ALL	378953	3748179	4.26E-09	1.17YrCanc	4.26E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2167	ALL	379453	3748179	4.69E-09	1.17YrCanc	4.69E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2168	ALL	379953	3748179	5.17E-09	1.17YrCanc	5.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2169	ALL	380453	3748179	5.45E-09	1.17YrCanc	5.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2170	ALL	380953	3748179	5.91E-09	1.17YrCanc	5.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2171	ALL	381453	3748179	6.38E-09	1.17YrCanc	6.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2172	ALL	381953	3748179	6.85E-09	1.17YrCanc	6.85E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2173	ALL	382453	3748179	7.29E-09	1.17YrCanc	7.29E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2174	ALL	382953	3748179	7.53E-09	1.17YrCanc	7.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2175	ALL	383453	3748179	7.26E-09	1.17YrCanc	7.26E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2176	ALL	383953	3748179	6.94E-09	1.17YrCanc	6.94E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2177	ALL	384453	3748179	6.11E-09	1.17YrCanc	6.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2178	ALL	384953	3748179	5.09E-09	1.17YrCanc	5.09E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2179	ALL	385453	3748179	4.13E-09	1.17YrCanc	4.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2180	ALL	385953	3748179	3.40E-09	1.17YrCanc	3.40E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2181	ALL	386453	3748179	2.99E-09	1.17YrCanc	2.99E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2182	ALL	386953	3748179	2.84E-09	1.17YrCanc	2.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2183	ALL	387453	3748179	2.88E-09	1.17YrCanc	2.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

2184	ALL	387953	3748179	2.90E-09	1.17YrCanc	2.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2185	ALL	388453	3748179	2.69E-09	1.17YrCanc	2.69E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2186	ALL	388953	3748179	2.41E-09	1.17YrCanc	2.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2187	ALL	378453	3748679	3.60E-09	1.17YrCanc	3.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2188	ALL	378953	3748679	3.84E-09	1.17YrCanc	3.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2189	ALL	379453	3748679	4.16E-09	1.17YrCanc	4.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2190	ALL	379953	3748679	4.50E-09	1.17YrCanc	4.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2191	ALL	380453	3748679	4.85E-09	1.17YrCanc	4.85E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2192	ALL	380953	3748679	5.37E-09	1.17YrCanc	5.37E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2193	ALL	381453	3748679	5.55E-09	1.17YrCanc	5.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2194	ALL	381953	3748679	5.90E-09	1.17YrCanc	5.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2195	ALL	382453	3748679	6.21E-09	1.17YrCanc	6.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2196	ALL	382953	3748679	6.39E-09	1.17YrCanc	6.39E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2197	ALL	383453	3748679	6.22E-09	1.17YrCanc	6.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2198	ALL	383953	3748679	6.04E-09	1.17YrCanc	6.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2199	ALL	384453	3748679	5.45E-09	1.17YrCanc	5.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2200	ALL	384953	3748679	4.87E-09	1.17YrCanc	4.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2201	ALL	385453	3748679	4.06E-09	1.17YrCanc	4.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2202	ALL	385953	3748679	3.60E-09	1.17YrCanc	3.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2203	ALL	386453	3748679	3.09E-09	1.17YrCanc	3.09E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2204	ALL	386953	3748679	2.90E-09	1.17YrCanc	2.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2205	ALL	387453	3748679	2.86E-09	1.17YrCanc	2.86E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2206	ALL	387953	3748679	2.62E-09	1.17YrCanc	2.62E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2207	ALL	388453	3748679	2.41E-09	1.17YrCanc	2.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2208	ALL	388953	3748679	1.86E-09	1.17YrCanc	1.86E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DEV	RESP	SKIN	EYE	BONE/TEET	ENDO	BLOOD	ODOR	GENERAL	MAXHI
1	ALL		383453	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03
2	ALL		383473	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03
3	ALL		383493	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-03
4	ALL		383513	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-03
5	ALL		383533	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-03
6	ALL		383553	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-03
7	ALL		383573	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-03
8	ALL		383593	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-03
9	ALL		383613	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-03
10	ALL		383453	3743699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03
11	ALL		383473	3743699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-03
12	ALL		383493	3743699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-03
13	ALL		383513	3743699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-03
14	ALL		383533	3743699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-03
15	ALL		383553	3743699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-03
16	ALL		383573	3743699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-03
17	ALL		383593	3743699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-03
18	ALL		383613	3743699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.46E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.46E-03
19	ALL		383453	3743719	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-03
20	ALL		383473	3743719	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-03
21	ALL		383493	3743719	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-03
22	ALL		383513	3743719	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-03
23	ALL		383533	3743719	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-03
24	ALL		383553	3743719	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-03
25	ALL		383573	3743719	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-03
26	ALL		383593	3743719	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-03
27	ALL		383613	3743719	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-03
28	ALL		383453	3743739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03
29	ALL		383473	3743739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-03
30	ALL		383493	3743739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-03
31	ALL		383513	3743739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-03
32	ALL		383533	3743739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-03
33	ALL		383553	3743739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-03
34	ALL		383573	3743739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E-03
35	ALL		383593	3743739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.95E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.95E-03
36	ALL		383613	3743739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.06E-03
37	ALL		383453	3743759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-03
38	ALL		383473	3743759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-03
39	ALL		383493	3743759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-03
40	ALL		383513	3743759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-03
41	ALL		383533	3743759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-03
42	ALL		383553	3743759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-03
43	ALL		383573	3743759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-03
44	ALL		383593	3743759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-03
45	ALL		383613	3743759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.72E-03
46	ALL		383793	3743799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.85E-03
47	ALL		383813	3743799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-03
48	ALL		383833	3743799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-03
49	ALL		383253	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04
50	ALL		383273	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04
51	ALL		383293	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-04
52	ALL		383313	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-04
53	ALL		383333	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-04
54	ALL		383353	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-04
55	ALL		383373	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-04
56	ALL		383393	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-04
57	ALL		383413	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-04
58	ALL		383433	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-04
59	ALL		383453	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-04
60	ALL		383473	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-04
61	ALL		383493	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-04
62	ALL		383513	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-04
63	ALL		383533	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-04
64	ALL		383553	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.47E-04
65	ALL		383573	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.84E-04
66	ALL		383593	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-04
67	ALL		383613	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.61E-04
68	ALL		383693	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-04
69	ALL		383713	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.55E-04
70	ALL		383733	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-04
71	ALL		383753	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03
72	ALL		383773	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03
73	ALL		383793	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03
74	ALL		383813	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03
75	ALL		383833	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03
76	ALL		383853	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03
77	ALL		383873	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03
78	ALL		383893	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03
79	ALL		383913	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03
80	ALL		383933	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03
81	ALL		383953	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03
82	ALL		383973	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03
83	ALL		383993	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03
84	ALL		384013	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03
85	ALL		384033	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03
86	ALL		383253	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-04
87	ALL		383273	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-04
88	ALL		383293	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-04
89	ALL		383313	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-04
90	ALL		383333	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-04
91	ALL		383353	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-04
92	ALL		383373	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-04
93	ALL		383393	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-04
94	ALL		383413	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-04
95	ALL		383433	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.89E-04
96	ALL		383453	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-04
97	ALL		383473	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-04
98	ALL		383493	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-04

99	ALL	383513	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.34E-04
100	ALL	383533	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.75E-04
101	ALL	383553	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.19E-04
102	ALL	383573	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.65E-04
103	ALL	383593	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.12E-04
104	ALL	383613	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.60E-04
105	ALL	383693	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03
106	ALL	383713	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03
107	ALL	383733	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03
108	ALL	383753	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03
109	ALL	383773	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03
110	ALL	383793	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03
111	ALL	383813	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03
112	ALL	383833	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03
113	ALL	383853	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03
114	ALL	383873	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03
115	ALL	383893	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03
116	ALL	383913	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03
117	ALL	383933	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03
118	ALL	383953	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03
119	ALL	383973	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03
120	ALL	383993	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03
121	ALL	384013	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03
122	ALL	384033	3743499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03
123	ALL	383253	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-04
124	ALL	383273	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-04
125	ALL	383293	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-04
126	ALL	383313	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-04
127	ALL	383333	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-04
128	ALL	383353	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-04
129	ALL	383373	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-04
130	ALL	383393	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-04
131	ALL	383413	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-04
132	ALL	383433	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-04
133	ALL	383453	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.65E-04
134	ALL	383473	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.06E-04
135	ALL	383493	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-04
136	ALL	383513	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.98E-04
137	ALL	383533	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.49E-04
138	ALL	383553	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.03E-04
139	ALL	383573	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.60E-04
140	ALL	383593	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-04
141	ALL	383613	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.80E-04
142	ALL	383693	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03
143	ALL	383713	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03
144	ALL	383733	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03
145	ALL	383753	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03
146	ALL	383773	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-03
147	ALL	383793	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-03
148	ALL	383813	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03
149	ALL	383833	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-03
150	ALL	383853	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-03
151	ALL	383873	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-03
152	ALL	383893	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-03
153	ALL	383913	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-03
154	ALL	383933	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-03
155	ALL	383953	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03
156	ALL	383973	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-03
157	ALL	383993	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03
158	ALL	384013	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03
159	ALL	384033	3743519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03
160	ALL	383253	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-04
161	ALL	383273	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-04
162	ALL	383293	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-04
163	ALL	383313	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-04
164	ALL	383333	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-04
165	ALL	383353	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-04
166	ALL	383373	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-04
167	ALL	383393	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.90E-04
168	ALL	383413	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-04
169	ALL	383433	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.68E-04
170	ALL	383453	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-04
171	ALL	383473	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.62E-04
172	ALL	383493	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.14E-04
173	ALL	383513	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-04
174	ALL	383533	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-04
175	ALL	383553	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.02E-04
176	ALL	383573	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.74E-04
177	ALL	383593	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03
178	ALL	383613	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03
179	ALL	383693	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-03
180	ALL	383713	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03
181	ALL	383733	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-03
182	ALL	383753	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-03
183	ALL	383773	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-03
184	ALL	383793	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-03
185	ALL	383813	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-03
186	ALL	383833	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-03
187	ALL	383853	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-03
188	ALL	383873	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-03
189	ALL	383893	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-03
190	ALL	383913	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-03
191	ALL	383933	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-03
192	ALL	383953	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-03
193	ALL	383973	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-03
194	ALL	383993	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03
195	ALL	384013	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03
196	ALL	384033	3743539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03
197	ALL	383253	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-04

198	ALL	383273	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-04
199	ALL	383293	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-04
200	ALL	383313	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-04
201	ALL	383333	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-04
202	ALL	383353	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-04
203	ALL	383373	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-04
204	ALL	383393	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-04
205	ALL	383413	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-04
206	ALL	383433	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-04
207	ALL	383453	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.66E-04
208	ALL	383473	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.24E-04
209	ALL	383493	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.87E-04
210	ALL	383513	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.58E-04
211	ALL	383533	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.35E-04
212	ALL	383553	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03
213	ALL	383573	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03
214	ALL	383593	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03
215	ALL	383613	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03
216	ALL	383693	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-03
217	ALL	383713	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-03
218	ALL	383733	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-03
219	ALL	383753	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-03
220	ALL	383773	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-03
221	ALL	383793	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-03
222	ALL	383813	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-03
223	ALL	383833	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-03
224	ALL	383853	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-03
225	ALL	383873	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-03
226	ALL	383893	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-03
227	ALL	383913	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-03
228	ALL	383933	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-03
229	ALL	383953	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03
230	ALL	383973	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03
231	ALL	383993	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03
232	ALL	384013	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03
233	ALL	384033	3743559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03
234	ALL	383253	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-04
235	ALL	383273	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-04
236	ALL	383293	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-04
237	ALL	383313	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-04
238	ALL	383333	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-04
239	ALL	383353	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-04
240	ALL	383373	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-04
241	ALL	383393	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E-04
242	ALL	383413	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.08E-04
243	ALL	383433	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.63E-04
244	ALL	383453	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.24E-04
245	ALL	383473	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.93E-04
246	ALL	383493	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-04
247	ALL	383513	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.57E-04
248	ALL	383533	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03
249	ALL	383553	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03
250	ALL	383573	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03
251	ALL	383593	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03
252	ALL	383613	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-03
253	ALL	383693	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-03
254	ALL	383713	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-03
255	ALL	383733	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-03
256	ALL	383753	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-03
257	ALL	383773	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-03
258	ALL	383793	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-03
259	ALL	383813	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-03
260	ALL	383833	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-03
261	ALL	383853	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-03
262	ALL	383873	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-03
263	ALL	383893	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-03
264	ALL	383913	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-03
265	ALL	383933	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-03
266	ALL	383953	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-03
267	ALL	383973	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-03
268	ALL	383993	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-03
269	ALL	384013	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03
270	ALL	384033	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03
271	ALL	383253	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-04
272	ALL	383273	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-04
273	ALL	383293	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-04
274	ALL	383313	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-04
275	ALL	383333	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-04
276	ALL	383353	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-04
277	ALL	383373	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-04
278	ALL	383393	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.99E-04
279	ALL	383413	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.54E-04
280	ALL	383433	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.17E-04
281	ALL	383453	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.89E-04
282	ALL	383473	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.71E-04
283	ALL	383493	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.64E-04
284	ALL	383513	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03
285	ALL	383533	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03
286	ALL	383553	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03
287	ALL	383573	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-03
288	ALL	383593	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-03
289	ALL	383613	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-03
290	ALL	383693	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-03
291	ALL	383713	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-03
292	ALL	383733	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-03
293	ALL	383753	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-03
294	ALL	383773	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-03
295	ALL	383793	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-03
296	ALL	383813	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-03

297	ALL	383833	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-03
298	ALL	383853	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-03
299	ALL	383873	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-03
300	ALL	383893	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-03
301	ALL	383913	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-03
302	ALL	383933	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-03
303	ALL	383953	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-03
304	ALL	383973	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-03
305	ALL	383993	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03
306	ALL	384013	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-03
307	ALL	384033	3743599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03
308	ALL	383253	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-04
309	ALL	383273	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-04
310	ALL	383293	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-04
311	ALL	383313	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-04
312	ALL	383333	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-04
313	ALL	383353	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.35E-04
314	ALL	383373	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-04
315	ALL	383393	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.41E-04
316	ALL	383413	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.04E-04
317	ALL	383433	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.77E-04
318	ALL	383453	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E-04
319	ALL	383473	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.58E-04
320	ALL	383493	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03
321	ALL	383513	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03
322	ALL	383533	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03
323	ALL	383553	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03
324	ALL	383573	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-03
325	ALL	383593	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-03
326	ALL	383613	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-03
327	ALL	383693	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-03
328	ALL	383713	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-03
329	ALL	383733	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-03
330	ALL	383753	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-03
331	ALL	383773	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-03
332	ALL	383793	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-03
333	ALL	383813	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-03
334	ALL	383833	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-03
335	ALL	383853	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-03
336	ALL	383873	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-03
337	ALL	383893	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-03
338	ALL	383913	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-03
339	ALL	383933	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-03
340	ALL	383953	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-03
341	ALL	383973	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-03
342	ALL	383993	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-03
343	ALL	384013	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-03
344	ALL	384033	3743619	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03
345	ALL	383253	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-04
346	ALL	383273	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-04
347	ALL	383293	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-04
348	ALL	383313	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-04
349	ALL	383333	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-04
350	ALL	383353	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-04
351	ALL	383373	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-04
352	ALL	383393	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.86E-04
353	ALL	383413	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E-04
354	ALL	383433	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.43E-04
355	ALL	383453	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.42E-04
356	ALL	383473	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03
357	ALL	383493	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03
358	ALL	383513	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03
359	ALL	383533	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-03
360	ALL	383553	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-03
361	ALL	383573	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-03
362	ALL	383593	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-03
363	ALL	383613	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-03
364	ALL	383693	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-03
365	ALL	383713	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-03
366	ALL	383733	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.71E-03
367	ALL	383753	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-03
368	ALL	383773	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.70E-03
369	ALL	383793	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-03
370	ALL	383813	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-03
371	ALL	383833	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-03
372	ALL	383853	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-03
373	ALL	383873	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-03
374	ALL	383893	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-03
375	ALL	383913	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-03
376	ALL	383933	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-03
377	ALL	383953	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-03
378	ALL	383973	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-03
379	ALL	383993	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03
380	ALL	384013	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03
381	ALL	384033	3743639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03
382	ALL	383253	3743659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-04
383	ALL	383273	3743659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-04
384	ALL	383293	3743659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-04
385	ALL	383313	3743659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-04
386	ALL	383333	3743659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-04
387	ALL	383353	3743659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.98E-04
388	ALL	383373	3743659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.61E-04
389	ALL	383393	3743659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.35E-04
390	ALL	383413	3743659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-04
391	ALL	383433	3743659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-04
392	ALL	383453	3743659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03
393	ALL	383473	3743659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03
394	ALL	383493	3743659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03
395	ALL	383513	3743659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-03

396	ALL	383533	3743659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-03
397	ALL	383553	3743659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-03
398	ALL	383573	3743659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-03
399	ALL	383593	3743659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-03
400	ALL	383613	3743659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-03
401	ALL	383893	3743659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-03
402	ALL	383913	3743659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-03
403	ALL	383933	3743659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-03
404	ALL	383953	3743659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-03
405	ALL	383973	3743659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-03
406	ALL	383993	3743659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-03
407	ALL	384013	3743659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03
408	ALL	384033	3743659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03
409	ALL	383253	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-04
410	ALL	383273	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-04
411	ALL	383293	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-04
412	ALL	383313	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-04
413	ALL	383333	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.71E-04
414	ALL	383353	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.31E-04
415	ALL	383373	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.03E-04
416	ALL	383393	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.87E-04
417	ALL	383413	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.84E-04
418	ALL	383433	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03
419	ALL	383893	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-03
420	ALL	383913	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-03
421	ALL	383933	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-03
422	ALL	383953	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-03
423	ALL	383973	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03
424	ALL	383993	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-03
425	ALL	384013	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03
426	ALL	384033	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03
427	ALL	383253	3743699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-04
428	ALL	383273	3743699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-04
429	ALL	383293	3743699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E-04
430	ALL	383313	3743699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-04
431	ALL	383333	3743699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-04
432	ALL	383353	3743699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.64E-04
433	ALL	383373	3743699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.45E-04
434	ALL	383393	3743699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.42E-04
435	ALL	383413	3743699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.56E-04
436	ALL	383433	3743699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03
437	ALL	383893	3743699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-03
438	ALL	383913	3743699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-03
439	ALL	383933	3743699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-03
440	ALL	383953	3743699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-03
441	ALL	383973	3743699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03
442	ALL	383993	3743699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03
443	ALL	384013	3743699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03
444	ALL	384033	3743699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03
445	ALL	383253	3743719	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-04
446	ALL	383273	3743719	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-04
447	ALL	383293	3743719	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-04
448	ALL	383313	3743719	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-04
449	ALL	383333	3743719	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-04
450	ALL	383353	3743719	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.97E-04
451	ALL	383373	3743719	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-04
452	ALL	383393	3743719	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-04
453	ALL	383413	3743719	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03
454	ALL	383433	3743719	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03
455	ALL	383893	3743719	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-03
456	ALL	383913	3743719	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-03
457	ALL	383933	3743719	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-03
458	ALL	383953	3743719	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-03
459	ALL	383973	3743719	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03
460	ALL	383993	3743719	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03
461	ALL	384013	3743719	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03
462	ALL	384033	3743719	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.26E-04
463	ALL	383253	3743739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-04
464	ALL	383273	3743739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-04
465	ALL	383293	3743739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.23E-04
466	ALL	383313	3743739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-04
467	ALL	383333	3743739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.46E-04
468	ALL	383353	3743739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-04
469	ALL	383373	3743739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.29E-04
470	ALL	383393	3743739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.58E-04
471	ALL	383413	3743739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03
472	ALL	383433	3743739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03
473	ALL	383893	3743739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-03
474	ALL	383913	3743739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-03
475	ALL	383933	3743739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-03
476	ALL	383953	3743739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03
477	ALL	383973	3743739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03
478	ALL	383993	3743739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03
479	ALL	384013	3743739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.63E-04
480	ALL	384033	3743739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.45E-04
481	ALL	383253	3743759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-04
482	ALL	383273	3743759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-04
483	ALL	383293	3743759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-04
484	ALL	383313	3743759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-04
485	ALL	383333	3743759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.64E-04
486	ALL	383353	3743759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.51E-04
487	ALL	383373	3743759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.63E-04
488	ALL	383393	3743759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03
489	ALL	383413	3743759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03
490	ALL	383433	3743759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03
491	ALL	383893	3743759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-03
492	ALL	383913	3743759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-03
493	ALL	383933	3743759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-03
494	ALL	383953	3743759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03

495	ALL	383973	3743759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03
496	ALL	383993	3743759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03
497	ALL	384013	3743759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.74E-04
498	ALL	384033	3743759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-04
499	ALL	383253	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-04
500	ALL	383893	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-03
501	ALL	383913	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-03
502	ALL	383933	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-03
503	ALL	383953	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03
504	ALL	383973	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03
505	ALL	383993	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.06E-04
506	ALL	384013	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.99E-04
507	ALL	384033	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E-04
508	ALL	383253	3743799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-04
509	ALL	383853	3743799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-03
510	ALL	383873	3743799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-03
511	ALL	383893	3743799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-03
512	ALL	383913	3743799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03
513	ALL	383933	3743799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03
514	ALL	383953	3743799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03
515	ALL	383973	3743799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.47E-04
516	ALL	383993	3743799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-04
517	ALL	384013	3743799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.38E-04
518	ALL	384033	3743799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.60E-04
519	ALL	383253	3743819	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-04
520	ALL	383793	3743819	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-03
521	ALL	383813	3743819	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-03
522	ALL	383833	3743819	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-03
523	ALL	383853	3743819	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-03
524	ALL	383873	3743819	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-03
525	ALL	383893	3743819	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-03
526	ALL	383913	3743819	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03
527	ALL	383933	3743819	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03
528	ALL	383953	3743819	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03
529	ALL	383973	3743819	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.74E-04
530	ALL	383993	3743819	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-04
531	ALL	384013	3743819	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-04
532	ALL	384033	3743819	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.18E-04
533	ALL	383253	3743839	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-04
534	ALL	383793	3743839	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-03
535	ALL	383813	3743839	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-03
536	ALL	383833	3743839	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-03
537	ALL	383853	3743839	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-03
538	ALL	383873	3743839	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-03
539	ALL	383893	3743839	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-03
540	ALL	383913	3743839	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03
541	ALL	383933	3743839	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03
542	ALL	383953	3743839	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.25E-04
543	ALL	383973	3743839	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.13E-04
544	ALL	383993	3743839	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.21E-04
545	ALL	384013	3743839	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.46E-04
546	ALL	383253	3743859	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-04
547	ALL	383793	3743859	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-03
548	ALL	383813	3743859	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-03
549	ALL	383833	3743859	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-03
550	ALL	383853	3743859	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-03
551	ALL	383873	3743859	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-03
552	ALL	383893	3743859	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-03
553	ALL	383913	3743859	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03
554	ALL	383933	3743859	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.81E-04
555	ALL	383953	3743859	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.60E-04
556	ALL	383973	3743859	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.60E-04
557	ALL	383993	3743859	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.78E-04
558	ALL	383253	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-04
559	ALL	383793	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-03
560	ALL	383813	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-03
561	ALL	383833	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-03
562	ALL	383853	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-03
563	ALL	383873	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03
564	ALL	383893	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03
565	ALL	383913	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03
566	ALL	383933	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.06E-04
567	ALL	383953	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.01E-04
568	ALL	383973	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.13E-04
569	ALL	383253	3743899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-04
570	ALL	383773	3743899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-03
571	ALL	383793	3743899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-03
572	ALL	383813	3743899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-03
573	ALL	383833	3743899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03
574	ALL	383853	3743899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03
575	ALL	383873	3743899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03
576	ALL	383893	3743899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03
577	ALL	383913	3743899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.47E-04
578	ALL	383933	3743899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-04
579	ALL	383953	3743899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.47E-04
580	ALL	383973	3743899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.70E-04
581	ALL	383253	3743919	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-04
582	ALL	383773	3743919	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-03
583	ALL	383793	3743919	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-03
584	ALL	383813	3743919	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-03
585	ALL	383833	3743919	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03
586	ALL	383853	3743919	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03
587	ALL	383873	3743919	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03
588	ALL	383893	3743919	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.71E-04
589	ALL	383913	3743919	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.67E-04
590	ALL	383933	3743919	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.76E-04
591	ALL	383953	3743919	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.97E-04
592	ALL	383253	3743939	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-04
593	ALL	383273	3743939	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-04

594	ALL	383293	3743939	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-04
595	ALL	383313	3743939	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-04
596	ALL	383333	3743939	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-04
597	ALL	383353	3743939	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.35E-04
598	ALL	383373	3743939	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-04
599	ALL	383393	3743939	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-04
600	ALL	383413	3743939	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-04
601	ALL	383433	3743939	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-04
602	ALL	383453	3743939	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.89E-04
603	ALL	383773	3743939	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-03
604	ALL	383793	3743939	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03
605	ALL	383813	3743939	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03
606	ALL	383833	3743939	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03
607	ALL	383853	3743939	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03
608	ALL	383873	3743939	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.76E-04
609	ALL	383893	3743939	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.82E-04
610	ALL	383913	3743939	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.96E-04
611	ALL	383933	3743939	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.19E-04
612	ALL	383253	3743959	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-04
613	ALL	383273	3743959	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-04
614	ALL	383293	3743959	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-04
615	ALL	383313	3743959	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-04
616	ALL	383333	3743959	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-04
617	ALL	383353	3743959	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-04
618	ALL	383373	3743959	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-04
619	ALL	383393	3743959	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-04
620	ALL	383413	3743959	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.15E-04
621	ALL	383433	3743959	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.62E-04
622	ALL	383453	3743959	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.11E-04
623	ALL	383773	3743959	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03
624	ALL	383793	3743959	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03
625	ALL	383813	3743959	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03
626	ALL	383833	3743959	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03
627	ALL	383853	3743959	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.60E-04
628	ALL	383873	3743959	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.81E-04
629	ALL	383893	3743959	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-04
630	ALL	383913	3743959	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-04
631	ALL	383253	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-04
632	ALL	383273	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-04
633	ALL	383293	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-04
634	ALL	383313	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-04
635	ALL	383333	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-04
636	ALL	383353	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-04
637	ALL	383373	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-04
638	ALL	383393	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-04
639	ALL	383413	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.65E-04
640	ALL	383433	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-04
641	ALL	383453	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-04
642	ALL	383773	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03
643	ALL	383793	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03
644	ALL	383813	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.84E-04
645	ALL	383833	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.26E-04
646	ALL	383853	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.63E-04
647	ALL	383873	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.98E-04
648	ALL	383893	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.35E-04
649	ALL	383253	3743999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-04
650	ALL	383273	3743999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-04
651	ALL	383293	3743999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-04
652	ALL	383313	3743999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-04
653	ALL	383333	3743999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-04
654	ALL	383353	3743999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-04
655	ALL	383373	3743999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-04
656	ALL	383393	3743999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.89E-04
657	ALL	383413	3743999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.20E-04
658	ALL	383433	3743999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.53E-04
659	ALL	383453	3743999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-04
660	ALL	383773	3743999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.52E-04
661	ALL	383793	3743999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-04
662	ALL	383813	3743999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.78E-04
663	ALL	383833	3743999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.31E-04
664	ALL	383853	3743999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.80E-04
665	ALL	383873	3743999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-04
666	ALL	382953	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.56E-05
667	ALL	383003	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
668	ALL	383053	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04
669	ALL	383103	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
670	ALL	383153	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04
671	ALL	383203	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04
672	ALL	383253	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04
673	ALL	383303	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04
674	ALL	383353	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04
675	ALL	383403	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04
676	ALL	383453	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04
677	ALL	383503	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04
678	ALL	383553	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04
679	ALL	383603	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04
680	ALL	383653	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-04
681	ALL	383703	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04
682	ALL	383753	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04
683	ALL	383803	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-04
684	ALL	383853	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-04
685	ALL	383903	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-04
686	ALL	383953	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-04
687	ALL	384003	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-04
688	ALL	384053	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-04
689	ALL	384103	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-04
690	ALL	384153	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-04
691	ALL	384203	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-04
692	ALL	384253	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-04

693	ALL	384303	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-04
694	ALL	384353	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-04
695	ALL	382953	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
696	ALL	383003	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
697	ALL	383053	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04
698	ALL	383103	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04
699	ALL	383153	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04
700	ALL	383203	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04
701	ALL	383253	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04
702	ALL	383303	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04
703	ALL	383353	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04
704	ALL	383403	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04
705	ALL	383453	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04
706	ALL	383503	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04
707	ALL	383553	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04
708	ALL	383603	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-04
709	ALL	383653	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-04
710	ALL	383703	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-04
711	ALL	383753	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-04
712	ALL	383803	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-04
713	ALL	383853	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-04
714	ALL	383903	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-04
715	ALL	383953	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-04
716	ALL	384003	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-04
717	ALL	384053	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-04
718	ALL	384103	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-04
719	ALL	384153	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-04
720	ALL	384203	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-04
721	ALL	384253	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-04
722	ALL	384303	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-04
723	ALL	384353	3743229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-04
724	ALL	382953	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04
725	ALL	383003	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
726	ALL	383053	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04
727	ALL	383103	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04
728	ALL	383153	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04
729	ALL	383203	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04
730	ALL	383253	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04
731	ALL	383303	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04
732	ALL	383353	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04
733	ALL	383403	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04
734	ALL	383453	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04
735	ALL	383503	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04
736	ALL	383553	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-04
737	ALL	383603	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-04
738	ALL	383653	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-04
739	ALL	383703	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-04
740	ALL	383753	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-04
741	ALL	383803	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-04
742	ALL	383853	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-04
743	ALL	383903	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-04
744	ALL	383953	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-04
745	ALL	384003	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-04
746	ALL	384053	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-04
747	ALL	384103	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-04
748	ALL	384153	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-04
749	ALL	384203	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-04
750	ALL	384253	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-04
751	ALL	384303	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-04
752	ALL	384353	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-04
753	ALL	382953	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04
754	ALL	383003	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04
755	ALL	383053	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
756	ALL	383103	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04
757	ALL	383153	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04
758	ALL	383203	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04
759	ALL	383253	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04
760	ALL	383303	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04
761	ALL	383353	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-04
762	ALL	383403	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04
763	ALL	383453	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04
764	ALL	383503	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04
765	ALL	383553	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-04
766	ALL	383603	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-04
767	ALL	383653	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-04
768	ALL	383703	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-04
769	ALL	383753	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-04
770	ALL	383803	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-04
771	ALL	383853	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-04
772	ALL	383903	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.23E-04
773	ALL	383953	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-04
774	ALL	384003	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-04
775	ALL	384053	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-04
776	ALL	384103	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-04
777	ALL	384153	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E-04
778	ALL	384203	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-04
779	ALL	384253	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E-04
780	ALL	384303	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-04
781	ALL	384353	3743329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-04
782	ALL	382953	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04
783	ALL	383003	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04
784	ALL	383053	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04
785	ALL	383103	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04
786	ALL	383153	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04
787	ALL	383203	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04
788	ALL	383253	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04
789	ALL	383303	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04
790	ALL	383353	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04
791	ALL	383403	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-04

792	ALL	383453	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-04
793	ALL	383503	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-04
794	ALL	383553	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-04
795	ALL	383603	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-04
796	ALL	383653	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.89E-04
797	ALL	383703	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-04
798	ALL	383753	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.65E-04
799	ALL	383803	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.03E-04
800	ALL	383853	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-04
801	ALL	383903	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.71E-04
802	ALL	383953	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-04
803	ALL	384003	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.03E-04
804	ALL	384053	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.93E-04
805	ALL	384103	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.65E-04
806	ALL	384153	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-04
807	ALL	384203	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.71E-04
808	ALL	384253	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-04
809	ALL	384303	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-04
810	ALL	384353	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-04
811	ALL	382953	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04
812	ALL	383003	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04
813	ALL	383053	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04
814	ALL	383103	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04
815	ALL	383153	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04
816	ALL	383203	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04
817	ALL	383253	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-04
818	ALL	383303	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04
819	ALL	383353	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04
820	ALL	383403	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-04
821	ALL	383453	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-04
822	ALL	383503	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-04
823	ALL	383553	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-04
824	ALL	383603	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.68E-04
825	ALL	383703	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.86E-04
826	ALL	383753	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-04
827	ALL	383803	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.99E-04
828	ALL	383853	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-04
829	ALL	383903	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.87E-04
830	ALL	383953	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-04
831	ALL	384003	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.83E-04
832	ALL	384053	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-04
833	ALL	384103	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.71E-04
834	ALL	384153	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-04
835	ALL	384203	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E-04
836	ALL	384253	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.37E-04
837	ALL	384303	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-04
838	ALL	384353	3743429	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-04
839	ALL	382953	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
840	ALL	383003	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04
841	ALL	383053	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04
842	ALL	383103	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04
843	ALL	383153	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04
844	ALL	383203	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-04
845	ALL	384053	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.87E-04
846	ALL	384103	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.64E-04
847	ALL	384153	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-04
848	ALL	384203	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.33E-04
849	ALL	384253	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.37E-04
850	ALL	384303	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-04
851	ALL	384353	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-04
852	ALL	382953	3743529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04
853	ALL	383003	3743529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04
854	ALL	383053	3743529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04
855	ALL	383103	3743529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04
856	ALL	383153	3743529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04
857	ALL	383203	3743529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04
858	ALL	384053	3743529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03
859	ALL	384103	3743529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-04
860	ALL	384153	3743529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-04
861	ALL	384203	3743529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.21E-04
862	ALL	384253	3743529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-04
863	ALL	384303	3743529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-04
864	ALL	384353	3743529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-04
865	ALL	382953	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04
866	ALL	383003	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04
867	ALL	383053	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04
868	ALL	383103	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04
869	ALL	383153	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04
870	ALL	383203	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04
871	ALL	384053	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03
872	ALL	384103	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.12E-04
873	ALL	384153	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.21E-04
874	ALL	384203	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.78E-04
875	ALL	384253	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-04
876	ALL	384303	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-04
877	ALL	384353	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-04
878	ALL	382953	3743629	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04
879	ALL	383003	3743629	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04
880	ALL	383053	3743629	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04
881	ALL	383103	3743629	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04
882	ALL	383153	3743629	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04
883	ALL	383203	3743629	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-04
884	ALL	384053	3743629	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03
885	ALL	384103	3743629	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.37E-04
886	ALL	384153	3743629	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.47E-04
887	ALL	384203	3743629	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-04
888	ALL	384253	3743629	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-04
889	ALL	384303	3743629	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-04
890	ALL	384353	3743629	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-04

891	ALL	382953	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04
892	ALL	383003	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04
893	ALL	383053	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04
894	ALL	383103	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04
895	ALL	383153	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04
896	ALL	383203	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-04
897	ALL	384053	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.62E-04
898	ALL	384103	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.17E-04
899	ALL	384153	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-04
900	ALL	384203	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-04
901	ALL	384253	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-04
902	ALL	384303	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-04
903	ALL	384353	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-04
904	ALL	382953	3743729	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04
905	ALL	383003	3743729	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04
906	ALL	383053	3743729	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-04
907	ALL	383103	3743729	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04
908	ALL	383153	3743729	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-04
909	ALL	383203	3743729	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-04
910	ALL	384053	3743729	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.82E-04
911	ALL	384103	3743729	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-04
912	ALL	384153	3743729	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-04
913	ALL	384203	3743729	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-04
914	ALL	384253	3743729	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-04
915	ALL	384303	3743729	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-04
916	ALL	384353	3743729	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-04
917	ALL	382953	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04
918	ALL	383003	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04
919	ALL	383053	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04
920	ALL	383103	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-04
921	ALL	383153	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-04
922	ALL	383203	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-04
923	ALL	384053	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.37E-04
924	ALL	384103	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-04
925	ALL	384153	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-04
926	ALL	384203	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-04
927	ALL	384253	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-04
928	ALL	384303	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04
929	ALL	384353	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04
930	ALL	382953	3743829	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04
931	ALL	383003	3743829	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04
932	ALL	383053	3743829	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04
933	ALL	383103	3743829	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04
934	ALL	383153	3743829	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-04
935	ALL	383203	3743829	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-04
936	ALL	384153	3743829	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-04
937	ALL	384203	3743829	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-04
938	ALL	384253	3743829	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04
939	ALL	384303	3743829	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04
940	ALL	384353	3743829	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04
941	ALL	382953	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04
942	ALL	383003	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04
943	ALL	383053	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04
944	ALL	383103	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-04
945	ALL	383153	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-04
946	ALL	383203	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-04
947	ALL	384253	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-04
948	ALL	384303	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-04
949	ALL	384353	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04
950	ALL	382953	3743929	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04
951	ALL	383003	3743929	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04
952	ALL	383053	3743929	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04
953	ALL	383103	3743929	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-04
954	ALL	383153	3743929	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04
955	ALL	383203	3743929	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-04
956	ALL	384253	3743929	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04
957	ALL	384303	3743929	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04
958	ALL	384353	3743929	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04
959	ALL	382953	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04
960	ALL	383003	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04
961	ALL	383053	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04
962	ALL	383103	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-04
963	ALL	383153	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-04
964	ALL	383203	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-04
965	ALL	384203	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-04
966	ALL	384253	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04
967	ALL	384303	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04
968	ALL	384353	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04
969	ALL	382953	3744029	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04
970	ALL	383003	3744029	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04
971	ALL	383053	3744029	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04
972	ALL	383103	3744029	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04
973	ALL	383153	3744029	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04
974	ALL	383203	3744029	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-04
975	ALL	383253	3744029	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-04
976	ALL	383303	3744029	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-04
977	ALL	383353	3744029	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-04
978	ALL	383403	3744029	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-04
979	ALL	383453	3744029	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-04
980	ALL	384153	3744029	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04
981	ALL	384203	3744029	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-04
982	ALL	384253	3744029	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04
983	ALL	384303	3744029	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04
984	ALL	384353	3744029	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04
985	ALL	382953	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04
986	ALL	383003	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04
987	ALL	383053	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04
988	ALL	383103	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04
989	ALL	383153	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-04

990	ALL	383203	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04
991	ALL	383253	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-04
992	ALL	383303	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-04
993	ALL	383353	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-04
994	ALL	383403	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-04
995	ALL	383453	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-04
996	ALL	384103	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04
997	ALL	384153	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04
998	ALL	384203	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-04
999	ALL	384253	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04
1000	ALL	384303	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04
1001	ALL	384353	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04
1002	ALL	382953	3744129	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04
1003	ALL	383003	3744129	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04
1004	ALL	383053	3744129	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04
1005	ALL	383103	3744129	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04
1006	ALL	383153	3744129	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04
1007	ALL	383203	3744129	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04
1008	ALL	383253	3744129	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-04
1009	ALL	383303	3744129	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-04
1010	ALL	383353	3744129	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-04
1011	ALL	383403	3744129	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-04
1012	ALL	383453	3744129	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-04
1013	ALL	384103	3744129	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-04
1014	ALL	384153	3744129	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04
1015	ALL	384203	3744129	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04
1016	ALL	384253	3744129	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04
1017	ALL	384303	3744129	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04
1018	ALL	384353	3744129	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04
1019	ALL	382953	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04
1020	ALL	383003	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04
1021	ALL	383053	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04
1022	ALL	383103	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04
1023	ALL	383153	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04
1024	ALL	383203	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04
1025	ALL	383253	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04
1026	ALL	383303	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04
1027	ALL	383353	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04
1028	ALL	383403	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-04
1029	ALL	383453	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-04
1030	ALL	384053	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-04
1031	ALL	384103	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04
1032	ALL	384153	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04
1033	ALL	384203	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04
1034	ALL	384253	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04
1035	ALL	384303	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04
1036	ALL	384353	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04
1037	ALL	382953	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04
1038	ALL	383003	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04
1039	ALL	383053	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04
1040	ALL	383103	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04
1041	ALL	383153	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04
1042	ALL	383203	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04
1043	ALL	383253	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04
1044	ALL	383303	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04
1045	ALL	383353	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04
1046	ALL	383403	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04
1047	ALL	383453	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-04
1048	ALL	383503	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04
1049	ALL	383553	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-04
1050	ALL	383603	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-04
1051	ALL	383653	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-04
1052	ALL	383703	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-04
1053	ALL	383753	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-04
1054	ALL	383803	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-04
1055	ALL	383853	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-04
1056	ALL	383903	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-04
1057	ALL	383953	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04
1058	ALL	384003	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-04
1059	ALL	384053	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-04
1060	ALL	384103	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04
1061	ALL	384153	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04
1062	ALL	384203	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04
1063	ALL	384253	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04
1064	ALL	384303	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04
1065	ALL	384353	3744229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
1066	ALL	382953	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04
1067	ALL	383003	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04
1068	ALL	383053	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04
1069	ALL	383103	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
1070	ALL	383153	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04
1071	ALL	383203	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04
1072	ALL	383253	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04
1073	ALL	383303	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04
1074	ALL	383353	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04
1075	ALL	383403	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04
1076	ALL	383453	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-04
1077	ALL	383503	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-04
1078	ALL	383553	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-04
1079	ALL	383603	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04
1080	ALL	383653	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-04
1081	ALL	383703	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-04
1082	ALL	383753	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-04
1083	ALL	383803	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04
1084	ALL	383853	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-04
1085	ALL	383903	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04
1086	ALL	383953	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-04
1087	ALL	384003	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04
1088	ALL	384053	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04

1089	ALL	384103	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04
1090	ALL	384153	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04
1091	ALL	384203	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04
1092	ALL	384253	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04
1093	ALL	384303	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
1094	ALL	384353	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04
1095	ALL	382453	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-05
1096	ALL	382553	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-05
1097	ALL	382653	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-05
1098	ALL	382753	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-05
1099	ALL	382853	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-05
1100	ALL	382953	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-05
1101	ALL	383053	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-05
1102	ALL	383153	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.88E-05
1103	ALL	383253	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.41E-05
1104	ALL	383353	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.85E-05
1105	ALL	383453	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.15E-05
1106	ALL	383553	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.56E-05
1107	ALL	383653	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-05
1108	ALL	383753	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.46E-05
1109	ALL	383853	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.84E-05
1110	ALL	383953	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.18E-05
1111	ALL	384053	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.47E-05
1112	ALL	384153	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.77E-05
1113	ALL	384253	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
1114	ALL	384353	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04
1115	ALL	384453	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04
1116	ALL	384553	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04
1117	ALL	384653	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
1118	ALL	384753	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04
1119	ALL	384853	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
1120	ALL	382453	3742779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-05
1121	ALL	382553	3742779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-05
1122	ALL	382653	3742779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-05
1123	ALL	382753	3742779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-05
1124	ALL	382853	3742779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-05
1125	ALL	382953	3742779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-05
1126	ALL	383053	3742779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-05
1127	ALL	383153	3742779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.61E-05
1128	ALL	383253	3742779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-05
1129	ALL	383353	3742779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.04E-05
1130	ALL	383453	3742779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.44E-05
1131	ALL	383553	3742779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-05
1132	ALL	383653	3742779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.49E-05
1133	ALL	383753	3742779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04
1134	ALL	383853	3742779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04
1135	ALL	383953	3742779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04
1136	ALL	384053	3742779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04
1137	ALL	384153	3742779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04
1138	ALL	384253	3742779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
1139	ALL	384353	3742779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04
1140	ALL	384453	3742779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04
1141	ALL	384553	3742779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04
1142	ALL	384653	3742779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04
1143	ALL	384753	3742779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04
1144	ALL	384853	3742779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04
1145	ALL	382453	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-05
1146	ALL	382553	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-05
1147	ALL	382653	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-05
1148	ALL	382753	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-05
1149	ALL	382853	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.90E-05
1150	ALL	382953	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.46E-05
1151	ALL	383053	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.96E-05
1152	ALL	383153	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.59E-05
1153	ALL	383253	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.24E-05
1154	ALL	383353	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.18E-05
1155	ALL	383453	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.99E-05
1156	ALL	383553	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
1157	ALL	383653	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04
1158	ALL	383753	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04
1159	ALL	383853	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04
1160	ALL	383953	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04
1161	ALL	384053	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04
1162	ALL	384153	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04
1163	ALL	384253	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04
1164	ALL	384353	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04
1165	ALL	384453	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04
1166	ALL	384553	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04
1167	ALL	384653	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04
1168	ALL	384753	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04
1169	ALL	384853	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04
1170	ALL	382453	3742979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-05
1171	ALL	382553	3742979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-05
1172	ALL	382653	3742979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.48E-05
1173	ALL	382753	3742979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.05E-05
1174	ALL	382853	3742979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.67E-05
1175	ALL	382953	3742979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.47E-05
1176	ALL	383053	3742979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.20E-05
1177	ALL	383153	3742979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.09E-05
1178	ALL	383253	3742979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.99E-05
1179	ALL	383353	3742979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
1180	ALL	383453	3742979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
1181	ALL	383553	3742979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04
1182	ALL	383653	3742979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04
1183	ALL	383753	3742979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04
1184	ALL	383853	3742979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04
1185	ALL	383953	3742979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04
1186	ALL	384053	3742979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04
1187	ALL	384153	3742979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04

1188	ALL	384253	3742979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04
1189	ALL	384353	3742979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04
1190	ALL	384453	3742979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04
1191	ALL	384553	3742979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04
1192	ALL	384653	3742979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04
1193	ALL	384753	3742979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04
1194	ALL	384853	3742979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04
1195	ALL	382453	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-05
1196	ALL	382553	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-05
1197	ALL	382653	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E-05
1198	ALL	382753	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.70E-05
1199	ALL	382853	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.47E-05
1200	ALL	382953	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.44E-05
1201	ALL	383053	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.50E-05
1202	ALL	383153	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
1203	ALL	383253	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
1204	ALL	383353	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04
1205	ALL	383453	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04
1206	ALL	383553	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04
1207	ALL	383653	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04
1208	ALL	383753	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04
1209	ALL	383853	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04
1210	ALL	383953	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-04
1211	ALL	384053	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-04
1212	ALL	384153	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04
1213	ALL	384253	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04
1214	ALL	384353	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-04
1215	ALL	384453	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-04
1216	ALL	384553	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-04
1217	ALL	384653	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04
1218	ALL	384753	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04
1219	ALL	384853	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04
1220	ALL	382453	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.23E-05
1221	ALL	382553	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.82E-05
1222	ALL	382653	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E-05
1223	ALL	382753	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.39E-05
1224	ALL	382853	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-05
1225	ALL	384453	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-04
1226	ALL	384553	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-04
1227	ALL	384653	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04
1228	ALL	384753	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04
1229	ALL	384853	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04
1230	ALL	382453	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-05
1231	ALL	382553	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.27E-05
1232	ALL	382653	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E-05
1233	ALL	382753	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.10E-05
1234	ALL	382853	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.32E-05
1235	ALL	384453	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-04
1236	ALL	384553	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04
1237	ALL	384653	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04
1238	ALL	384753	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04
1239	ALL	384853	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04
1240	ALL	382453	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.91E-05
1241	ALL	382553	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.69E-05
1242	ALL	382653	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-05
1243	ALL	382753	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.82E-05
1244	ALL	382853	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04
1245	ALL	384453	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-04
1246	ALL	384553	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-04
1247	ALL	384653	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04
1248	ALL	384753	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04
1249	ALL	384853	3743379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04
1250	ALL	382453	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-05
1251	ALL	382553	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E-05
1252	ALL	382653	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-05
1253	ALL	382753	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.53E-05
1254	ALL	382853	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04
1255	ALL	384453	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04
1256	ALL	384553	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04
1257	ALL	384653	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04
1258	ALL	384753	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
1259	ALL	384853	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
1260	ALL	382453	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E-05
1261	ALL	382553	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.50E-05
1262	ALL	382653	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-05
1263	ALL	382753	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
1264	ALL	382853	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
1265	ALL	384453	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04
1266	ALL	384553	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04
1267	ALL	384653	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04
1268	ALL	384753	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04
1269	ALL	384853	3743579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.83E-05
1270	ALL	382453	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.86E-05
1271	ALL	382553	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.90E-05
1272	ALL	382653	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.21E-05
1273	ALL	382753	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
1274	ALL	382853	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04
1275	ALL	384453	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04
1276	ALL	384553	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04
1277	ALL	384653	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04
1278	ALL	384753	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04
1279	ALL	384853	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.76E-05
1280	ALL	382453	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.13E-05
1281	ALL	382553	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.23E-05
1282	ALL	382653	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.63E-05
1283	ALL	382753	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04
1284	ALL	382853	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04
1285	ALL	384453	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04
1286	ALL	384553	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04

1287	ALL	384653	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04
1288	ALL	384753	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.25E-05
1289	ALL	384853	3743779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.91E-05
1290	ALL	382453	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.30E-05
1291	ALL	382553	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.43E-05
1292	ALL	382653	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.86E-05
1293	ALL	382753	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
1294	ALL	382853	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04
1295	ALL	384453	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04
1296	ALL	384553	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04
1297	ALL	384653	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.86E-05
1298	ALL	384753	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-05
1299	ALL	384853	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.24E-05
1300	ALL	382453	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-05
1301	ALL	382553	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.42E-05
1302	ALL	382653	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.79E-05
1303	ALL	382753	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04
1304	ALL	382853	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04
1305	ALL	384453	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04
1306	ALL	384553	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
1307	ALL	384653	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.03E-05
1308	ALL	384753	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.73E-05
1309	ALL	384853	3743979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.71E-05
1310	ALL	382453	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-05
1311	ALL	382553	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-05
1312	ALL	382653	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.40E-05
1313	ALL	382753	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
1314	ALL	382853	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04
1315	ALL	384453	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04
1316	ALL	384553	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.84E-05
1317	ALL	384653	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.37E-05
1318	ALL	384753	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.21E-05
1319	ALL	384853	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.29E-05
1320	ALL	382453	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-05
1321	ALL	382553	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.74E-05
1322	ALL	382653	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.75E-05
1323	ALL	382753	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.96E-05
1324	ALL	382853	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04
1325	ALL	384453	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
1326	ALL	384553	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.06E-05
1327	ALL	384653	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.78E-05
1328	ALL	384753	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-05
1329	ALL	384853	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-05
1330	ALL	382453	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-05
1331	ALL	382553	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.15E-05
1332	ALL	382653	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.96E-05
1333	ALL	382753	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.89E-05
1334	ALL	382853	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.96E-05
1335	ALL	384453	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.65E-05
1336	ALL	384553	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.31E-05
1337	ALL	384653	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-05
1338	ALL	384753	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.33E-05
1339	ALL	384853	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.59E-05
1340	ALL	382453	3744379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-05
1341	ALL	382553	3744379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-05
1342	ALL	382653	3744379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.14E-05
1343	ALL	382753	3744379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.86E-05
1344	ALL	382853	3744379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.69E-05
1345	ALL	382953	3744379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.67E-05
1346	ALL	383053	3744379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04
1347	ALL	383153	3744379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04
1348	ALL	383253	3744379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04
1349	ALL	383353	3744379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04
1350	ALL	383453	3744379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04
1351	ALL	383553	3744379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04
1352	ALL	383653	3744379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04
1353	ALL	383753	3744379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04
1354	ALL	383853	3744379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-04
1355	ALL	383953	3744379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04
1356	ALL	384053	3744379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04
1357	ALL	384153	3744379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04
1358	ALL	384253	3744379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
1359	ALL	384353	3744379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04
1360	ALL	384453	3744379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-05
1361	ALL	384553	3744379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.59E-05
1362	ALL	384653	3744379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.67E-05
1363	ALL	384753	3744379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.91E-05
1364	ALL	384853	3744379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-05
1365	ALL	382453	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E-05
1366	ALL	382553	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-05
1367	ALL	382653	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-05
1368	ALL	382753	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.97E-05
1369	ALL	382853	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-05
1370	ALL	382953	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.43E-05
1371	ALL	383053	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.35E-05
1372	ALL	383153	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04
1373	ALL	383253	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04
1374	ALL	383353	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04
1375	ALL	383453	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04
1376	ALL	383553	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04
1377	ALL	383653	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04
1378	ALL	383753	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04
1379	ALL	383853	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04
1380	ALL	383953	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04
1381	ALL	384053	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04
1382	ALL	384153	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
1383	ALL	384253	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
1384	ALL	384353	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.92E-05
1385	ALL	384453	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-05

1386	ALL	384553	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.92E-05
1387	ALL	384653	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.15E-05
1388	ALL	384753	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-05
1389	ALL	384853	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-05
1390	ALL	382453	3744579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-05
1391	ALL	382553	3744579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-05
1392	ALL	382653	3744579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-05
1393	ALL	382753	3744579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-05
1394	ALL	382853	3744579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.78E-05
1395	ALL	382953	3744579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-05
1396	ALL	383053	3744579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.16E-05
1397	ALL	383153	3744579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.97E-05
1398	ALL	383253	3744579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.84E-05
1399	ALL	383353	3744579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04
1400	ALL	383453	3744579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
1401	ALL	383553	3744579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04
1402	ALL	383653	3744579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04
1403	ALL	383753	3744579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04
1404	ALL	383853	3744579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04
1405	ALL	383953	3744579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04
1406	ALL	384053	3744579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04
1407	ALL	384153	3744579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
1408	ALL	384253	3744579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.96E-05
1409	ALL	384353	3744579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.94E-05
1410	ALL	384453	3744579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-05
1411	ALL	384553	3744579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.31E-05
1412	ALL	384653	3744579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-05
1413	ALL	384753	3744579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-05
1414	ALL	384853	3744579	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-05
1415	ALL	382453	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-05
1416	ALL	382553	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-05
1417	ALL	382653	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-05
1418	ALL	382753	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.59E-05
1419	ALL	382853	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-05
1420	ALL	382953	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.60E-05
1421	ALL	383053	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-05
1422	ALL	383153	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.80E-05
1423	ALL	383253	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.45E-05
1424	ALL	383353	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.12E-05
1425	ALL	383453	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.77E-05
1426	ALL	383553	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04
1427	ALL	383653	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
1428	ALL	383753	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
1429	ALL	383853	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
1430	ALL	383953	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04
1431	ALL	384053	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.67E-05
1432	ALL	384153	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.79E-05
1433	ALL	384253	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.91E-05
1434	ALL	384353	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.09E-05
1435	ALL	384453	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.38E-05
1436	ALL	384553	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-05
1437	ALL	384653	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-05
1438	ALL	384753	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-05
1439	ALL	384853	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-05
1440	ALL	382453	3744779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-05
1441	ALL	382553	3744779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.39E-05
1442	ALL	382653	3744779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-05
1443	ALL	382753	3744779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E-05
1444	ALL	382853	3744779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-05
1445	ALL	382953	3744779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.90E-05
1446	ALL	383053	3744779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.36E-05
1447	ALL	383153	3744779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.84E-05
1448	ALL	383253	3744779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.34E-05
1449	ALL	383353	3744779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.82E-05
1450	ALL	383453	3744779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.30E-05
1451	ALL	383553	3744779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.76E-05
1452	ALL	383653	3744779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.11E-05
1453	ALL	383753	3744779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.28E-05
1454	ALL	383853	3744779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.21E-05
1455	ALL	383953	3744779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.88E-05
1456	ALL	384053	3744779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-05
1457	ALL	384153	3744779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-05
1458	ALL	384253	3744779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.02E-05
1459	ALL	384353	3744779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.37E-05
1460	ALL	384453	3744779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.78E-05
1461	ALL	384553	3744779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-05
1462	ALL	384653	3744779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-05
1463	ALL	384753	3744779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-05
1464	ALL	384853	3744779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-05
1465	ALL	381453	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05
1466	ALL	381653	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05
1467	ALL	381853	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05
1468	ALL	382053	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05
1469	ALL	382253	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05
1470	ALL	382453	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05
1471	ALL	382653	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05
1472	ALL	382853	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05
1473	ALL	383053	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05
1474	ALL	383253	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-05
1475	ALL	383453	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05
1476	ALL	383653	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05
1477	ALL	383853	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05
1478	ALL	384053	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05
1479	ALL	384253	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-05
1480	ALL	384453	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-05
1481	ALL	384653	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-05
1482	ALL	384853	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05
1483	ALL	385053	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-05
1484	ALL	385253	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-05

1485	ALL	385453	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-05
1486	ALL	385653	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-05
1487	ALL	385853	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-05
1488	ALL	381453	3741879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05
1489	ALL	381653	3741879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05
1490	ALL	381853	3741879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05
1491	ALL	382053	3741879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05
1492	ALL	382253	3741879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-05
1493	ALL	382453	3741879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05
1494	ALL	382653	3741879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05
1495	ALL	382853	3741879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05
1496	ALL	383053	3741879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05
1497	ALL	383253	3741879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05
1498	ALL	383453	3741879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-05
1499	ALL	383653	3741879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-05
1500	ALL	383853	3741879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-05
1501	ALL	384053	3741879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-05
1502	ALL	384253	3741879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-05
1503	ALL	384453	3741879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-05
1504	ALL	384653	3741879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-05
1505	ALL	384853	3741879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-05
1506	ALL	385053	3741879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-05
1507	ALL	385253	3741879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-05
1508	ALL	385453	3741879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-05
1509	ALL	385653	3741879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-05
1510	ALL	385853	3741879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-05
1511	ALL	381453	3742079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05
1512	ALL	381653	3742079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05
1513	ALL	381853	3742079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05
1514	ALL	382053	3742079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05
1515	ALL	382253	3742079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-05
1516	ALL	382453	3742079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05
1517	ALL	382653	3742079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05
1518	ALL	382853	3742079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05
1519	ALL	383053	3742079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05
1520	ALL	383253	3742079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05
1521	ALL	383453	3742079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-05
1522	ALL	383653	3742079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-05
1523	ALL	383853	3742079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-05
1524	ALL	384053	3742079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-05
1525	ALL	384253	3742079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-05
1526	ALL	384453	3742079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.20E-05
1527	ALL	384653	3742079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-05
1528	ALL	384853	3742079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-05
1529	ALL	385053	3742079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-05
1530	ALL	385253	3742079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-05
1531	ALL	385453	3742079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.65E-05
1532	ALL	385653	3742079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-05
1533	ALL	385853	3742079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-05
1534	ALL	381453	3742279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05
1535	ALL	381653	3742279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05
1536	ALL	381853	3742279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05
1537	ALL	382053	3742279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05
1538	ALL	382253	3742279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05
1539	ALL	382453	3742279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05
1540	ALL	382653	3742279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05
1541	ALL	382853	3742279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05
1542	ALL	383053	3742279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05
1543	ALL	383253	3742279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-05
1544	ALL	383453	3742279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-05
1545	ALL	383653	3742279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-05
1546	ALL	383853	3742279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.87E-05
1547	ALL	384053	3742279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.36E-05
1548	ALL	384253	3742279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-05
1549	ALL	384453	3742279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.82E-05
1550	ALL	384653	3742279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.16E-05
1551	ALL	384853	3742279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-05
1552	ALL	385053	3742279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-05
1553	ALL	385253	3742279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.98E-05
1554	ALL	385453	3742279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.78E-05
1555	ALL	385653	3742279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.33E-05
1556	ALL	385853	3742279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-05
1557	ALL	381453	3742479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05
1558	ALL	381653	3742479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05
1559	ALL	381853	3742479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05
1560	ALL	382053	3742479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05
1561	ALL	382253	3742479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05
1562	ALL	382453	3742479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05
1563	ALL	382653	3742479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05
1564	ALL	382853	3742479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05
1565	ALL	383053	3742479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-05
1566	ALL	383253	3742479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-05
1567	ALL	383453	3742479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-05
1568	ALL	383653	3742479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.03E-05
1569	ALL	383853	3742479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-05
1570	ALL	384053	3742479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.95E-05
1571	ALL	384253	3742479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.30E-05
1572	ALL	384453	3742479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.75E-05
1573	ALL	384653	3742479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.31E-05
1574	ALL	384853	3742479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.77E-05
1575	ALL	385053	3742479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
1576	ALL	385253	3742479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.49E-05
1577	ALL	385453	3742479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.73E-05
1578	ALL	385653	3742479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.78E-05
1579	ALL	385853	3742479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-05
1580	ALL	381453	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05
1581	ALL	381653	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05
1582	ALL	381853	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05
1583	ALL	382053	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05

1584	ALL	382253	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-05
1585	ALL	385053	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
1586	ALL	385253	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.59E-05
1587	ALL	385453	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.11E-05
1588	ALL	385653	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.69E-05
1589	ALL	385853	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-05
1590	ALL	381453	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05
1591	ALL	381653	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05
1592	ALL	381853	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05
1593	ALL	382053	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05
1594	ALL	382253	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-05
1595	ALL	385053	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
1596	ALL	385253	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.79E-05
1597	ALL	385453	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-05
1598	ALL	385653	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.08E-05
1599	ALL	385853	3742879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-05
1600	ALL	381453	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05
1601	ALL	381653	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05
1602	ALL	381853	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05
1603	ALL	382053	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05
1604	ALL	382253	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-05
1605	ALL	385053	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04
1606	ALL	385253	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.83E-05
1607	ALL	385453	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.70E-05
1608	ALL	385653	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-05
1609	ALL	385853	3743079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-05
1610	ALL	381453	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05
1611	ALL	381653	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-05
1612	ALL	381853	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-05
1613	ALL	382053	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05
1614	ALL	382253	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-05
1615	ALL	385053	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.94E-05
1616	ALL	385253	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-05
1617	ALL	385453	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.59E-05
1618	ALL	385653	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-05
1619	ALL	385853	3743279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-05
1620	ALL	381453	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05
1621	ALL	381653	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05
1622	ALL	381853	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-05
1623	ALL	382053	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-05
1624	ALL	382253	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-05
1625	ALL	385053	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.97E-05
1626	ALL	385253	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-05
1627	ALL	385453	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-05
1628	ALL	385653	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-05
1629	ALL	385853	3743479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-05
1630	ALL	381453	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05
1631	ALL	381653	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05
1632	ALL	381853	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05
1633	ALL	382053	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-05
1634	ALL	382253	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.35E-05
1635	ALL	385053	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E-05
1636	ALL	385253	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-05
1637	ALL	385453	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-05
1638	ALL	385653	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-05
1639	ALL	385853	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05
1640	ALL	381453	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-05
1641	ALL	381653	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-05
1642	ALL	381853	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-05
1643	ALL	382053	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-05
1644	ALL	382253	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-05
1645	ALL	385053	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-05
1646	ALL	385253	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-05
1647	ALL	385453	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-05
1648	ALL	385653	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-05
1649	ALL	385853	3743879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05
1650	ALL	381453	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-05
1651	ALL	381653	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-05
1652	ALL	381853	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-05
1653	ALL	382053	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-05
1654	ALL	382253	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-05
1655	ALL	385053	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-05
1656	ALL	385253	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-05
1657	ALL	385453	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-05
1658	ALL	385653	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05
1659	ALL	385853	3744079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05
1660	ALL	381453	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-05
1661	ALL	381653	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-05
1662	ALL	381853	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-05
1663	ALL	382053	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.39E-05
1664	ALL	382253	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-05
1665	ALL	385053	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-05
1666	ALL	385253	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-05
1667	ALL	385453	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-05
1668	ALL	385653	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05
1669	ALL	385853	3744279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05
1670	ALL	381453	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-05
1671	ALL	381653	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-05
1672	ALL	381853	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05
1673	ALL	382053	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-05
1674	ALL	382253	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-05
1675	ALL	385053	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-05
1676	ALL	385253	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-05
1677	ALL	385453	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05
1678	ALL	385653	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05
1679	ALL	385853	3744479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05
1680	ALL	381453	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05
1681	ALL	381653	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05
1682	ALL	381853	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-05

1683	ALL	382053	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05
1684	ALL	382253	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-05
1685	ALL	385053	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-05
1686	ALL	385253	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-05
1687	ALL	385453	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-05
1688	ALL	385653	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05
1689	ALL	385853	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05
1690	ALL	381453	3744879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05
1691	ALL	381653	3744879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05
1692	ALL	381853	3744879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05
1693	ALL	382053	3744879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-05
1694	ALL	382253	3744879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-05
1695	ALL	382453	3744879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-05
1696	ALL	382653	3744879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-05
1697	ALL	382853	3744879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-05
1698	ALL	383053	3744879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-05
1699	ALL	383253	3744879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.43E-05
1700	ALL	383453	3744879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.17E-05
1701	ALL	383653	3744879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.77E-05
1702	ALL	383853	3744879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-05
1703	ALL	384053	3744879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-05
1704	ALL	384253	3744879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.26E-05
1705	ALL	384453	3744879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-05
1706	ALL	384653	3744879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-05
1707	ALL	384853	3744879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05
1708	ALL	385053	3744879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-05
1709	ALL	385253	3744879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05
1710	ALL	385453	3744879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05
1711	ALL	385653	3744879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05
1712	ALL	385853	3744879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05
1713	ALL	381453	3745079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05
1714	ALL	381653	3745079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05
1715	ALL	381853	3745079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05
1716	ALL	382053	3745079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-05
1717	ALL	382253	3745079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05
1718	ALL	382453	3745079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-05
1719	ALL	382653	3745079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05
1720	ALL	382853	3745079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-05
1721	ALL	383053	3745079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-05
1722	ALL	383253	3745079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-05
1723	ALL	383453	3745079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.51E-05
1724	ALL	383653	3745079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-05
1725	ALL	383853	3745079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.98E-05
1726	ALL	384053	3745079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-05
1727	ALL	384253	3745079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E-05
1728	ALL	384453	3745079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.39E-05
1729	ALL	384653	3745079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-05
1730	ALL	384853	3745079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05
1731	ALL	385053	3745079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-05
1732	ALL	385253	3745079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05
1733	ALL	385453	3745079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05
1734	ALL	385653	3745079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05
1735	ALL	385853	3745079	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05
1736	ALL	381453	3745279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05
1737	ALL	381653	3745279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05
1738	ALL	381853	3745279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05
1739	ALL	382053	3745279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05
1740	ALL	382253	3745279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-05
1741	ALL	382453	3745279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05
1742	ALL	382653	3745279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05
1743	ALL	382853	3745279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05
1744	ALL	383053	3745279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05
1745	ALL	383253	3745279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-05
1746	ALL	383453	3745279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.39E-05
1747	ALL	383653	3745279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-05
1748	ALL	383853	3745279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-05
1749	ALL	384053	3745279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-05
1750	ALL	384253	3745279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-05
1751	ALL	384453	3745279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-05
1752	ALL	384653	3745279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-05
1753	ALL	384853	3745279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05
1754	ALL	385053	3745279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-05
1755	ALL	385253	3745279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05
1756	ALL	385453	3745279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05
1757	ALL	385653	3745279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-05
1758	ALL	385853	3745279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05
1759	ALL	381453	3745479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05
1760	ALL	381653	3745479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05
1761	ALL	381853	3745479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05
1762	ALL	382053	3745479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05
1763	ALL	382253	3745479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05
1764	ALL	382453	3745479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05
1765	ALL	382653	3745479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05
1766	ALL	382853	3745479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05
1767	ALL	383053	3745479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-05
1768	ALL	383253	3745479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05
1769	ALL	383453	3745479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-05
1770	ALL	383653	3745479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05
1771	ALL	383853	3745479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-05
1772	ALL	384053	3745479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-05
1773	ALL	384253	3745479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-05
1774	ALL	384453	3745479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-05
1775	ALL	384653	3745479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05
1776	ALL	384853	3745479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05
1777	ALL	385053	3745479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05
1778	ALL	385253	3745479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05
1779	ALL	385453	3745479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05
1780	ALL	385653	3745479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-05
1781	ALL	385853	3745479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05

1782	ALL	381453	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05
1783	ALL	381653	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05
1784	ALL	381853	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05
1785	ALL	382053	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05
1786	ALL	382253	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05
1787	ALL	382453	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05
1788	ALL	382653	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05
1789	ALL	382853	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05
1790	ALL	383053	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05
1791	ALL	383253	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05
1792	ALL	383453	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-05
1793	ALL	383653	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05
1794	ALL	383853	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-05
1795	ALL	384053	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05
1796	ALL	384253	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-05
1797	ALL	384453	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-05
1798	ALL	384653	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05
1799	ALL	384853	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05
1800	ALL	385053	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05
1801	ALL	385253	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05
1802	ALL	385453	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05
1803	ALL	385653	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05
1804	ALL	385853	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05
1805	ALL	381453	3745879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05
1806	ALL	381653	3745879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05
1807	ALL	381853	3745879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05
1808	ALL	382053	3745879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05
1809	ALL	382253	3745879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-05
1810	ALL	382453	3745879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05
1811	ALL	382653	3745879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05
1812	ALL	382853	3745879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05
1813	ALL	383053	3745879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05
1814	ALL	383253	3745879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05
1815	ALL	383453	3745879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-05
1816	ALL	383653	3745879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05
1817	ALL	383853	3745879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05
1818	ALL	384053	3745879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05
1819	ALL	384253	3745879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05
1820	ALL	384453	3745879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05
1821	ALL	384653	3745879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05
1822	ALL	384853	3745879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05
1823	ALL	385053	3745879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05
1824	ALL	385253	3745879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05
1825	ALL	385453	3745879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05
1826	ALL	385653	3745879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05
1827	ALL	385853	3745879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05
1828	ALL	378453	3738679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-06
1829	ALL	378953	3738679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-06
1830	ALL	379453	3738679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-06
1831	ALL	379953	3738679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-06
1832	ALL	380453	3738679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-06
1833	ALL	380953	3738679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-06
1834	ALL	381453	3738679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-06
1835	ALL	381953	3738679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-06
1836	ALL	382453	3738679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.38E-06
1837	ALL	382953	3738679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-06
1838	ALL	383453	3738679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-06
1839	ALL	383953	3738679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.35E-06
1840	ALL	384453	3738679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.66E-06
1841	ALL	384953	3738679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.89E-06
1842	ALL	385453	3738679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.02E-06
1843	ALL	385953	3738679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.14E-06
1844	ALL	386453	3738679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-06
1845	ALL	386953	3738679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.50E-06
1846	ALL	387453	3738679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.80E-06
1847	ALL	387953	3738679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-06
1848	ALL	388453	3738679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.59E-06
1849	ALL	388953	3738679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.94E-06
1850	ALL	378453	3739179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-06
1851	ALL	378953	3739179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-06
1852	ALL	379453	3739179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-06
1853	ALL	379953	3739179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-06
1854	ALL	380453	3739179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-06
1855	ALL	380953	3739179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-06
1856	ALL	381453	3739179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-06
1857	ALL	381953	3739179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.95E-06
1858	ALL	382453	3739179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-06
1859	ALL	382953	3739179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-06
1860	ALL	383453	3739179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.05E-06
1861	ALL	383953	3739179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-06
1862	ALL	384453	3739179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.95E-06
1863	ALL	384953	3739179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.22E-06
1864	ALL	385453	3739179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-06
1865	ALL	385953	3739179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.56E-06
1866	ALL	386453	3739179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.81E-06
1867	ALL	386953	3739179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-06
1868	ALL	387453	3739179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E-06
1869	ALL	387953	3739179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05
1870	ALL	388453	3739179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05
1871	ALL	388953	3739179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05
1872	ALL	378453	3739679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-06
1873	ALL	378953	3739679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-06
1874	ALL	379453	3739679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-06
1875	ALL	379953	3739679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-06
1876	ALL	380453	3739679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-06
1877	ALL	380953	3739679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-06
1878	ALL	381453	3739679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.47E-06
1879	ALL	381953	3739679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-06
1880	ALL	382453	3739679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E-06

1881	ALL	382953	3739679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.05E-06
1882	ALL	383453	3739679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-06
1883	ALL	383953	3739679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.15E-06
1884	ALL	384453	3739679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.68E-06
1885	ALL	384953	3739679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05
1886	ALL	385453	3739679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05
1887	ALL	385953	3739679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05
1888	ALL	386453	3739679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05
1889	ALL	386953	3739679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05
1890	ALL	387453	3739679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05
1891	ALL	387953	3739679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05
1892	ALL	388453	3739679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05
1893	ALL	388953	3739679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05
1894	ALL	378453	3740179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-06
1895	ALL	378953	3740179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-06
1896	ALL	379453	3740179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-06
1897	ALL	379953	3740179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-06
1898	ALL	380453	3740179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-06
1899	ALL	380953	3740179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.83E-06
1900	ALL	381453	3740179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.59E-06
1901	ALL	381953	3740179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E-06
1902	ALL	382453	3740179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.76E-06
1903	ALL	382953	3740179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.62E-06
1904	ALL	383453	3740179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05
1905	ALL	383953	3740179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05
1906	ALL	384453	3740179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05
1907	ALL	384953	3740179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05
1908	ALL	385453	3740179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05
1909	ALL	385953	3740179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05
1910	ALL	386453	3740179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05
1911	ALL	386953	3740179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05
1912	ALL	387453	3740179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05
1913	ALL	387953	3740179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05
1914	ALL	388453	3740179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05
1915	ALL	388953	3740179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05
1916	ALL	378453	3740679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-06
1917	ALL	378953	3740679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-06
1918	ALL	379453	3740679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-06
1919	ALL	379953	3740679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-06
1920	ALL	380453	3740679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-06
1921	ALL	380953	3740679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.92E-06
1922	ALL	381453	3740679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.92E-06
1923	ALL	381953	3740679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.84E-06
1924	ALL	382453	3740679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.36E-06
1925	ALL	382953	3740679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.90E-06
1926	ALL	383453	3740679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05
1927	ALL	383953	3740679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05
1928	ALL	384453	3740679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05
1929	ALL	384953	3740679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05
1930	ALL	385453	3740679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05
1931	ALL	385953	3740679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05
1932	ALL	386453	3740679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05
1933	ALL	386953	3740679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05
1934	ALL	387453	3740679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05
1935	ALL	387953	3740679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05
1936	ALL	388453	3740679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05
1937	ALL	388953	3740679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05
1938	ALL	378453	3741179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-06
1939	ALL	378953	3741179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-06
1940	ALL	379453	3741179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-06
1941	ALL	379953	3741179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-06
1942	ALL	380453	3741179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-06
1943	ALL	380953	3741179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.24E-06
1944	ALL	381453	3741179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.20E-06
1945	ALL	381953	3741179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.75E-06
1946	ALL	382453	3741179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05
1947	ALL	382953	3741179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05
1948	ALL	383453	3741179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05
1949	ALL	383953	3741179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05
1950	ALL	384453	3741179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05
1951	ALL	384953	3741179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05
1952	ALL	385453	3741179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05
1953	ALL	385953	3741179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05
1954	ALL	386453	3741179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-05
1955	ALL	386953	3741179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05
1956	ALL	387453	3741179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05
1957	ALL	387953	3741179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05
1958	ALL	388453	3741179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05
1959	ALL	388953	3741179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05
1960	ALL	378453	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-06
1961	ALL	378953	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.36E-06
1962	ALL	379453	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.83E-06
1963	ALL	379953	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.19E-06
1964	ALL	380453	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-06
1965	ALL	380953	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05
1966	ALL	385953	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-05
1967	ALL	386453	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05
1968	ALL	386953	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-05
1969	ALL	387453	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05
1970	ALL	387953	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05
1971	ALL	388453	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05
1972	ALL	388953	3741679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05
1973	ALL	378453	3742179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.57E-06
1974	ALL	378953	3742179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-06
1975	ALL	379453	3742179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.13E-06
1976	ALL	379953	3742179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.25E-06
1977	ALL	380453	3742179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05
1978	ALL	380953	3742179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05
1979	ALL	385953	3742179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-05

1980	ALL	386453	3742179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-05
1981	ALL	386953	3742179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05
1982	ALL	387453	3742179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-05
1983	ALL	387953	3742179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05
1984	ALL	388453	3742179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05
1985	ALL	388953	3742179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.75E-06
1986	ALL	378453	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-06
1987	ALL	378953	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.85E-06
1988	ALL	379453	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.13E-06
1989	ALL	379953	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05
1990	ALL	380453	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05
1991	ALL	380953	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05
1992	ALL	385953	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-05
1993	ALL	386453	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-05
1994	ALL	386953	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05
1995	ALL	387453	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05
1996	ALL	387953	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05
1997	ALL	388453	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.34E-06
1998	ALL	388953	3742679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.69E-06
1999	ALL	378453	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.07E-06
2000	ALL	378953	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.93E-06
2001	ALL	379453	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.30E-06
2002	ALL	379953	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05
2003	ALL	380453	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05
2004	ALL	380953	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05
2005	ALL	385953	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-05
2006	ALL	386453	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05
2007	ALL	386953	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-05
2008	ALL	387453	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05
2009	ALL	387953	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05
2010	ALL	388453	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.34E-06
2011	ALL	388953	3743179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-06
2012	ALL	378453	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.47E-06
2013	ALL	378953	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.72E-06
2014	ALL	379453	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05
2015	ALL	379953	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05
2016	ALL	380453	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05
2017	ALL	380953	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05
2018	ALL	385953	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05
2019	ALL	386453	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05
2020	ALL	386953	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05
2021	ALL	387453	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05
2022	ALL	387953	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.02E-06
2023	ALL	388453	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.49E-06
2024	ALL	388953	3743679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-06
2025	ALL	378453	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.01E-06
2026	ALL	378953	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.30E-06
2027	ALL	379453	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05
2028	ALL	379953	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05
2029	ALL	380453	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05
2030	ALL	380953	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05
2031	ALL	385953	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05
2032	ALL	386453	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05
2033	ALL	386953	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05
2034	ALL	387453	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.71E-06
2035	ALL	387953	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.98E-06
2036	ALL	388453	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.66E-06
2037	ALL	388953	3744179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-06
2038	ALL	378453	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.74E-06
2039	ALL	378953	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.93E-06
2040	ALL	379453	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.54E-06
2041	ALL	379953	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05
2042	ALL	380453	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05
2043	ALL	380953	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05
2044	ALL	385953	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05
2045	ALL	386453	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05
2046	ALL	386953	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05
2047	ALL	387453	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.83E-06
2048	ALL	387953	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.21E-06
2049	ALL	388453	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E-06
2050	ALL	388953	3744679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-06
2051	ALL	378453	3745179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E-06
2052	ALL	378953	3745179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.67E-06
2053	ALL	379453	3745179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05
2054	ALL	379953	3745179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05
2055	ALL	380453	3745179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05
2056	ALL	380953	3745179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05
2057	ALL	385953	3745179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05
2058	ALL	386453	3745179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05
2059	ALL	386953	3745179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05
2060	ALL	387453	3745179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.19E-06
2061	ALL	387953	3745179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-06
2062	ALL	388453	3745179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-06
2063	ALL	388953	3745179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-06
2064	ALL	378453	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-06
2065	ALL	378953	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.47E-06
2066	ALL	379453	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.41E-06
2067	ALL	379953	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.61E-06
2068	ALL	380453	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05
2069	ALL	380953	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05
2070	ALL	385953	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05
2071	ALL	386453	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05
2072	ALL	386953	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.97E-06
2073	ALL	387453	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.12E-06
2074	ALL	387953	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.38E-06
2075	ALL	388453	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-06
2076	ALL	388953	3745679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-06
2077	ALL	378453	3746179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.74E-06
2078	ALL	378953	3746179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-06

2079	ALL	379453	3746179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E-06
2080	ALL	379953	3746179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.19E-06
2081	ALL	380453	3746179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.02E-06
2082	ALL	380953	3746179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05
2083	ALL	381453	3746179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05
2084	ALL	381953	3746179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05
2085	ALL	382453	3746179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05
2086	ALL	382953	3746179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05
2087	ALL	383453	3746179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05
2088	ALL	383953	3746179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05
2089	ALL	384453	3746179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05
2090	ALL	384953	3746179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05
2091	ALL	385453	3746179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05
2092	ALL	385953	3746179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.81E-06
2093	ALL	386453	3746179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-06
2094	ALL	386953	3746179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.12E-06
2095	ALL	387453	3746179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.70E-06
2096	ALL	387953	3746179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-06
2097	ALL	388453	3746179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-06
2098	ALL	388953	3746179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-06
2099	ALL	378453	3746679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-06
2100	ALL	378953	3746679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-06
2101	ALL	379453	3746679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-06
2102	ALL	379953	3746679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-06
2103	ALL	380453	3746679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.74E-06
2104	ALL	380953	3746679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.82E-06
2105	ALL	381453	3746679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05
2106	ALL	381953	3746679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05
2107	ALL	382453	3746679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05
2108	ALL	382953	3746679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05
2109	ALL	383453	3746679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05
2110	ALL	383953	3746679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05
2111	ALL	384453	3746679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-05
2112	ALL	384953	3746679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.84E-06
2113	ALL	385453	3746679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-06
2114	ALL	385953	3746679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-06
2115	ALL	386453	3746679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-06
2116	ALL	386953	3746679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-06
2117	ALL	387453	3746679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-06
2118	ALL	387953	3746679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-06
2119	ALL	388453	3746679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-06
2120	ALL	388953	3746679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-06
2121	ALL	378453	3747179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-06
2122	ALL	378953	3747179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-06
2123	ALL	379453	3747179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.48E-06
2124	ALL	379953	3747179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E-06
2125	ALL	380453	3747179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-06
2126	ALL	380953	3747179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.94E-06
2127	ALL	381453	3747179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.48E-06
2128	ALL	381953	3747179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.38E-06
2129	ALL	382453	3747179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05
2130	ALL	382953	3747179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05
2131	ALL	383453	3747179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05
2132	ALL	383953	3747179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05
2133	ALL	384453	3747179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.31E-06
2134	ALL	384953	3747179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.48E-06
2135	ALL	385453	3747179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-06
2136	ALL	385953	3747179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-06
2137	ALL	386453	3747179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-06
2138	ALL	386953	3747179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-06
2139	ALL	387453	3747179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-06
2140	ALL	387953	3747179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-06
2141	ALL	388453	3747179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-06
2142	ALL	388953	3747179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-06
2143	ALL	378453	3747679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-06
2144	ALL	378953	3747679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-06
2145	ALL	379453	3747679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-06
2146	ALL	379953	3747679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-06
2147	ALL	380453	3747679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-06
2148	ALL	380953	3747679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.78E-06
2149	ALL	381453	3747679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.21E-06
2150	ALL	381953	3747679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.84E-06
2151	ALL	382453	3747679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.44E-06
2152	ALL	382953	3747679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.99E-06
2153	ALL	383453	3747679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.65E-06
2154	ALL	383953	3747679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.21E-06
2155	ALL	384453	3747679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.03E-06
2156	ALL	384953	3747679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.86E-06
2157	ALL	385453	3747679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-06
2158	ALL	385953	3747679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-06
2159	ALL	386453	3747679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-06
2160	ALL	386953	3747679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-06
2161	ALL	387453	3747679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-06
2162	ALL	387953	3747679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-06
2163	ALL	388453	3747679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-06
2164	ALL	388953	3747679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-06
2165	ALL	378453	3748179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-06
2166	ALL	378953	3748179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-06
2167	ALL	379453	3748179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-06
2168	ALL	379953	3748179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.02E-06
2169	ALL	380453	3748179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-06
2170	ALL	380953	3748179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.75E-06
2171	ALL	381453	3748179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.20E-06
2172	ALL	381953	3748179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.65E-06
2173	ALL	382453	3748179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.08E-06
2174	ALL	382953	3748179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-06
2175	ALL	383453	3748179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-06
2176	ALL	383953	3748179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.75E-06
2177	ALL	384453	3748179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-06

2178	ALL	384953	3748179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-06
2179	ALL	385453	3748179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-06
2180	ALL	385953	3748179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-06
2181	ALL	386453	3748179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-06
2182	ALL	386953	3748179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-06
2183	ALL	387453	3748179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-06
2184	ALL	387953	3748179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-06
2185	ALL	388453	3748179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-06
2186	ALL	388953	3748179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-06
2187	ALL	378453	3748679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-06
2188	ALL	378953	3748679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-06
2189	ALL	379453	3748679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-06
2190	ALL	379953	3748679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-06
2191	ALL	380453	3748679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-06
2192	ALL	380953	3748679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-06
2193	ALL	381453	3748679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-06
2194	ALL	381953	3748679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-06
2195	ALL	382453	3748679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-06
2196	ALL	382953	3748679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.21E-06
2197	ALL	383453	3748679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.05E-06
2198	ALL	383953	3748679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E-06
2199	ALL	384453	3748679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-06
2200	ALL	384953	3748679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-06
2201	ALL	385453	3748679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-06
2202	ALL	385953	3748679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-06
2203	ALL	386453	3748679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-06
2204	ALL	386953	3748679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-06
2205	ALL	387453	3748679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-06
2206	ALL	387953	3748679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-06
2207	ALL	388453	3748679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-06
2208	ALL	388953	3748679	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-06

HARP2 - HRACalc (dated 22118) 6/25/2025 5:04:17 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 4
Total Exposure Duration: 1.17

Exposure Duration Bin Distribution
3rd Trimester Bin: 0
0<2 Years Bin: 0
2<9 Years Bin: 1.17
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: True
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: RMP

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: ON

****
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05
Soil mixing depth (m): 0.01
Dermal climate: Mixed

****
HOMEGROWN CROP PATHWAY SETTINGS

Household type: HouseholdsthatGarden
Fraction leafy: 0.137
Fraction exposed: 0.137
Fraction protected: 0.137
Fraction root: 0.137

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: C:\Users\anoll\OneDrive - Dudek\Desktop\HARP2\Carson Calas Park Stormwater Capture\CALAS PARK SCHOOL MITIGATED\hra\School_MitigatedCancerRisk.csv
Cancer risk total by receptor saved to: C:\Users\anoll\OneDrive - Dudek\Desktop\HARP2\Carson Calas Park Stormwater Capture\CALAS PARK SCHOOL MITIGATED\hra\School_MitigatedCancerRiskSumByRec.csv
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to: C:\Users\anoll\OneDrive - Dudek\Desktop\HARP2\Carson Calas Park Stormwater Capture\CALAS PARK SCHOOL MITIGATED\hra\School_MitigatedNCChronicRisk.csv
Chronic risk total by receptor saved to: C:\Users\anoll\OneDrive - Dudek\Desktop\HARP2\Carson Calas Park Stormwater Capture\CALAS PARK SCHOOL MITIGATED\hra\School_MitigatedNCChronicRiskSumByRec.csv
Calculating acute risk
Acute risk breakdown by pollutant and receptor saved to: C:\Users\anoll\OneDrive - Dudek\Desktop\HARP2\Carson Calas Park Stormwater Capture\CALAS PARK SCHOOL MITIGATED\hra\School_MitigatedNCAcuteRisk.csv
Acute risk total by receptor saved to: C:\Users\anoll\OneDrive - Dudek\Desktop\HARP2\Carson Calas Park Stormwater Capture\CALAS PARK SCHOOL MITIGATED\hra\School_MitigatedNCAcuteRiskSumByRec.csv

HRA ran successfully

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_R	MMILK_RI	WATER_RI	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISI	PIG_RISK	CHICKEN_F	EGG_RISK
2209	ALL		383403.6	3743811	1.90E-07	1.17YrCanc	1.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2210	ALL		383435.1	3743828	2.40E-07	1.17YrCanc	2.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2211	ALL		383402.5	3743847	1.64E-07	1.17YrCanc	1.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2212	ALL		383440.5	3743860	2.00E-07	1.17YrCanc	2.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2213	ALL		383407.9	3743900	1.32E-07	1.17YrCanc	1.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2214	ALL		383370.5	3743907	1.07E-07	1.17YrCanc	1.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2215	ALL		383517.5	3743913	1.99E-07	1.17YrCanc	1.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2216	ALL		383555.5	3743914	2.24E-07	1.17YrCanc	2.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2217	ALL		383597.3	3744004	1.40E-07	1.17YrCanc	1.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2218	ALL		383583.7	3743978	1.58E-07	1.17YrCanc	1.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2219	ALL		383540.3	3743981	1.39E-07	1.17YrCanc	1.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2220	ALL		383502.9	3743983	1.24E-07	1.17YrCanc	1.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2221	ALL		383501.2	3744030	9.75E-08	1.17YrCanc	9.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2222	ALL		383501.8	3744066	8.36E-08	1.17YrCanc	8.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2223	ALL		383502.9	3744099	7.34E-08	1.17YrCanc	7.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2224	ALL		383530.5	3744139	6.64E-08	1.17YrCanc	6.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2225	ALL		383553.9	3744162	6.34E-08	1.17YrCanc	6.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2226	ALL		383605.4	3744148	7.18E-08	1.17YrCanc	7.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2227	ALL		383575	3744161	6.57E-08	1.17YrCanc	6.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2228	ALL		383509.4	3744139	6.38E-08	1.17YrCanc	6.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2229	ALL		383384.1	3743907	1.14E-07	1.17YrCanc	1.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL	MAXHI
2209	ALL		383403.6	3743811	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03
2210	ALL		383435.1	3743828	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03
2211	ALL		383402.5	3743847	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.81E-04
2212	ALL		383440.5	3743860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03
2213	ALL		383407.9	3743900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-04
2214	ALL		383370.5	3743907	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.44E-04
2215	ALL		383517.5	3743913	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03
2216	ALL		383555.5	3743914	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03
2217	ALL		383597.3	3744004	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-04
2218	ALL		383583.7	3743978	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.47E-04
2219	ALL		383540.3	3743981	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.34E-04
2220	ALL		383502.9	3743983	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.42E-04
2221	ALL		383501.2	3744030	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-04
2222	ALL		383501.8	3744066	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-04
2223	ALL		383502.9	3744099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-04
2224	ALL		383530.5	3744139	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-04
2225	ALL		383553.9	3744162	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-04
2226	ALL		383605.4	3744148	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-04
2227	ALL		383575	3744161	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-04
2228	ALL		383509.4	3744139	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-04
2229	ALL		383384.1	3743907	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.83E-04

Appendix C

Biological Resources Species List

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
Abronia maritima	red sand-verbena	None/None/4.2	Coastal dunes/perennial herb/Feb–Nov/0–330	Not expected to occur. The Study Area is comprised of ornamental plantings within a developed area and no suitable habitat for the species to occur.
Aphanisma blitoides	aphanisma	None/None/1B.2	Coastal bluff scrub, Coastal dunes, Coastal scrub; Gravelly (sometimes), Sandy (sometimes)/annual herb/Feb–June/5–1,000	Not expected to occur. The Study Area is comprised of ornamental plantings within a developed area and no suitable habitat for the species to occur.
Astragalus hornii var. hornii	Horn's milk-vetch	None/None/1B.1	Meadows and seeps, Playas; Alkaline, Lake Margins/annual herb/May–Oct/195–2,790	Not expected to occur. The Study Area is comprised of ornamental plantings within a developed area and no suitable habitat for the species to occur.
Astragalus pycnostachyus var. lanosissimus	Ventura Marsh milk-vetch	FE/SE/1B.1	Coastal dunes, Coastal scrub, Marshes and swamps (edges, coastal salt, brackish)/perennial herb/(June)Aug–Oct/5–115	Not expected to occur. The Study Area is comprised of ornamental plantings within a developed area and no suitable habitat for the species to occur.
Astragalus tener var. titi	coastal dunes milk-vetch	FE/SE/1B.1	Coastal bluff scrub (sandy), Coastal dunes, Coastal prairie (mesic); Mesic (often), Vernally Mesic (often)/annual herb/Mar–May/5–165	Not expected to occur. The Study Area is comprised of ornamental plantings within a developed area and no suitable habitat for the species to occur.

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
Atriplex coulteri	Coulter's saltbush	None/None/1B.2	Coastal bluff scrub, Coastal dunes, Coastal scrub, Valley and foothill grassland; Alkaline (sometimes), Clay (sometimes)/perennial herb/Mar–Oct/10–1,510	Not expected to occur. The Study Area is comprised of ornamental plantings within a developed area and no suitable habitat for the species to occur.
Atriplex pacifica	south coast saltscale	None/None/1B.2	Coastal bluff scrub, Coastal dunes, Coastal scrub, Playas/annual herb/Mar–Oct/0–460	Not expected to occur. The Study Area is comprised of ornamental plantings within a developed area and no suitable habitat for the species to occur.
Atriplex parishii	Parish's brittlescale	None/None/1B.1	Chenopod scrub, Playas, Vernal pools; Alkaline/annual herb/June–Oct/80–6,235	Not expected to occur. The Study Area is comprised of ornamental plantings within a developed area and no suitable habitat for the species to occur.
Atriplex serenana var. davidsonii	Davidson's saltscale	None/None/1B.2	Coastal bluff scrub, Coastal scrub; Alkaline/annual herb/Apr–Oct/35–655	Not expected to occur. The Study Area is comprised of ornamental plantings within a developed area and no suitable habitat for the species to occur.
Calochortus catalinae	Catalina mariposa lily	None/None/4.2	Chaparral, Cismontane woodland, Coastal scrub, Valley and foothill grassland/perennial bulbiferous herb/(Feb)Mar–June/50–2,295	Not expected to occur. The Study Area is comprised of ornamental plantings within a developed area and no suitable habitat for the species to occur.
Calystegia peirsonii	Peirson's morning-glory	None/None/4.2	Chaparral, Chenopod scrub, Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Valley and foothill grassland/perennial rhizomatous herb/Apr–June/100–4,920	Not expected to occur. The Study Area is comprised of ornamental plantings within a developed area and no suitable habitat for the species to occur.

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
Camissoniopsis lewisii	Lewis' evening-primrose	None/None/3	Cismontane woodland, Coastal bluff scrub, Coastal dunes, Coastal scrub, Valley and foothill grassland; Clay (sometimes), Sandy (sometimes)/annual herb/Mar–May(June)/0–985	Not expected to occur. The Study Area is comprised of ornamental plantings within a developed area and no suitable habitat for the species to occur.
Centromadia parryi ssp. australis	southern tarplant	None/None/1B.1	Marshes and swamps (margins), Valley and foothill grassland (vernally mesic), Vernal pools/annual herb/May–Nov/0–1,575	Not expected to occur. The Study Area is comprised of ornamental plantings within a developed area and no suitable habitat for the species to occur.
Centromadia pungens ssp. laevis	smooth tarplant	None/None/1B.1	Chenopod scrub, Meadows and seeps, Playas, Riparian woodland, Valley and foothill grassland; Alkaline/annual herb/Apr–Sep/0–2,100	Not expected to occur. The Study Area is comprised of ornamental plantings within a developed area and no suitable habitat for the species to occur.
Chaenactis glabriuscula var. orcuttiana	Orcutt's pincushion	None/None/1B.1	Coastal bluff scrub (sandy), Coastal dunes/annual herb/Jan–Aug/0–330	Not expected to occur. The Study Area is comprised of ornamental plantings within a developed area and no suitable habitat for the species to occur.
Chenopodium littoreum	coastal goosefoot	None/None/1B.2	Coastal dunes/annual herb/Apr–Aug/35–100	Not expected to occur. The Study Area is comprised of ornamental plantings within a developed area and no suitable habitat for the species to occur.
Chloropyron maritimum ssp. maritimum	salt marsh bird's-beak	FE/SE/1B.2	Coastal dunes, Marshes and swamps (coastal salt)/annual herb (hemiparasitic)/May–Oct(Nov)/0–100	Not expected to occur. The Study Area is comprised of ornamental plantings within a developed area and no suitable habitat for the species to occur.

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
Chorizanthe parryi var. fernandina	San Fernando Valley spineflower	None/SE/1B.1	Coastal scrub (sandy), Valley and foothill grassland/annual herb/Apr–July/490–4,005	Not expected to occur. The Study Area is comprised of ornamental plantings within a developed area and no suitable habitat for the species to occur.
Cistanthe maritima	seaside cistanthe	None/None/4.2	Coastal bluff scrub, Coastal scrub, Valley and foothill grassland; Sandy/annual herb/(Feb)Mar–June(Aug)/15–985	Not expected to occur. The Study Area is comprised of ornamental plantings within a developed area and no suitable habitat for the species to occur.
Convolvulus simulans	small-flowered morning-glory	None/None/4.2	Chaparral (openings), Coastal scrub, Valley and foothill grassland; Clay, Seeps, Serpentine/annual herb/Mar–July/100–2,430	Not expected to occur. The Study Area is comprised of ornamental plantings within a developed area and no suitable habitat for the species to occur.
Crossosoma californicum	Catalina crossosoma	None/None/1B.2	Chaparral, Coastal scrub; Rocky/perennial deciduous shrub/Feb–May/0–1,640	Not expected to occur. The Study Area is comprised of ornamental plantings within a developed area and no suitable habitat for the species to occur.
Deinandra paniculata	paniculate tarplant	None/None/4.2	Coastal scrub, Valley and foothill grassland, Vernal pools; Sandy (sometimes), Vernally Mesic (usually)/annual herb/(Mar)Apr–Nov/80–3,085	Not expected to occur. The Study Area is comprised of ornamental plantings within a developed area and no suitable habitat for the species to occur.
Dichondra occidentalis	western dichondra	None/None/4.2	Chaparral, Cismontane woodland, Coastal scrub, Valley and foothill grassland/perennial rhizomatous herb/(Jan)Mar–July/165–1,640	Not expected to occur. The Study Area is comprised of ornamental plantings within a developed area and no suitable habitat for the species to occur.

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
Dithyrea maritima	beach spectaclepod	None/ST/1B.1	Coastal dunes, Coastal scrub (sandy)/perennial rhizomatous herb/Mar–May/10–165	Not expected to occur. The Study Area is comprised of ornamental plantings within a developed area and no suitable habitat for the species to occur.
Dudleya virens ssp. insularis	island green dudleya	None/None/1B.2	Coastal bluff scrub, Coastal scrub; Rocky/perennial herb/Apr–June/15–985	Not expected to occur. The Study Area is comprised of ornamental plantings within a developed area and no suitable habitat for the species to occur.
Eryngium aristulatum var. parishii	San Diego button-celery	FE/SE/1B.1	Coastal scrub, Valley and foothill grassland, Vernal pools; Mesic/annual/perennial herb/Apr–June/65–2,035	Not expected to occur. The Study Area is comprised of ornamental plantings within a developed area and no suitable habitat for the species to occur.
Erysimum suffrutescens	suffrutescent wallflower	None/None/4.2	Chaparral (maritime), Coastal bluff scrub, Coastal dunes, Coastal scrub/perennial herb/Jan–July(Aug)/0–490	Not expected to occur. The Study Area is comprised of ornamental plantings within a developed area and no suitable habitat for the species to occur.
Hordeum intercedens	vernal barley	None/None/3.2	Coastal dunes, Coastal scrub, Valley and foothill grassland (depressions, saline flats), Vernal pools/annual herb/Mar–June/15–3,280	Not expected to occur. The Study Area is comprised of ornamental plantings within a developed area and no suitable habitat for the species to occur.
Horkelia cuneata var. puberula	mesa horkelia	None/None/1B.1	Chaparral (maritime), Cismontane woodland, Coastal scrub; Gravelly (sometimes), Sandy (sometimes)/perennial herb/Feb–July(Sep)/230–2,660	Not expected to occur. The Study Area is comprised of ornamental plantings within a developed area and no suitable habitat for the species to occur.

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
Isocoma menziesii var. decumbens	decumbent goldenbush	None/None/1B.2	Chaparral, Coastal scrub (often disturbed areas, sandy)/perennial shrub/Apr–Nov/35–820	Not expected to occur. The Study Area is comprised of ornamental plantings within a developed area and no suitable habitat for the species to occur.
Juglans californica	Southern California black walnut	None/None/4.2	Chaparral, Cismontane woodland, Coastal scrub, Riparian woodland/perennial deciduous tree/Mar–Aug/165–2,955	Not expected to occur. The Study Area is comprised of ornamental plantings within a developed area and no suitable habitat for the species to occur.
Juncus acutus ssp. leopoldii	southwestern spiny rush	None/None/4.2	Coastal dunes (mesic), Coastal scrub, Marshes and swamps (coastal salt), Meadows and seeps (alkaline seeps)/perennial rhizomatous herb/(Mar)May–June/10–2,955	Not expected to occur. The Study Area is comprised of ornamental plantings within a developed area and no suitable habitat for the species to occur.
Lasthenia glabrata ssp. coulteri	Coulter's goldfields	None/None/1B.1	Marshes and swamps (coastal salt), Playas, Vernal pools/annual herb/Feb–June/5–4,005	Not expected to occur. The Study Area is comprised of ornamental plantings within a developed area and no suitable habitat for the species to occur.
Lycium brevipes var. hassei	Santa Catalina Island desert-thorn	None/None/3.1	Coastal bluff scrub, Coastal scrub/perennial deciduous shrub/June(Aug)/215–985	Not expected to occur. The Study Area is comprised of ornamental plantings within a developed area and no suitable habitat for the species to occur.
Lycium californicum	California box-thorn	None/None/4.2	Coastal bluff scrub, Coastal scrub/perennial shrub/Mar–Aug(Dec)/15–490	Not expected to occur. The Study Area is comprised of ornamental plantings within a developed area and no suitable habitat for the species to occur.

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
Mucronea californica	California spineflower	None/None/4.2	Chaparral, Cismontane woodland, Coastal dunes, Coastal scrub, Valley and foothill grassland; Sandy/annual herb/Mar–July(Aug)/0–4,595	Not expected to occur. The Study Area is comprised of ornamental plantings within a developed area and no suitable habitat for the species to occur.
Nama stenocarpa	mud nama	None/None/2B.2	Marshes and swamps (lake margins, riverbanks)/annual/perennial herb/Jan–July/15–1,640	Not expected to occur. The Study Area is comprised of ornamental plantings within a developed area and no suitable habitat for the species to occur.
Navarretia fossalis	spreading navarretia	FT/None/1B.1	Chenopod scrub, Marshes and swamps (shallow freshwater), Playas, Vernal pools/annual herb/Apr–June/100–2,150	Not expected to occur. The Study Area is comprised of ornamental plantings within a developed area and no suitable habitat for the species to occur.
Navarretia prostrata	prostrate vernal pool navarretia	None/None/1B.2	Coastal scrub, Meadows and seeps, Valley and foothill grassland (alkaline), Vernal pools; Mesic/annual herb/Apr–July/10–3,970	Not expected to occur. The Study Area is comprised of ornamental plantings within a developed area and no suitable habitat for the species to occur.
Nemacaulis denudata var. denudata	coast woolly-heads	None/None/1B.2	Coastal dunes/annual herb/Apr–Sep/0–330	Not expected to occur. The Study Area is comprised of ornamental plantings within a developed area and no suitable habitat for the species to occur.
Orcuttia californica	California Orcutt grass	FE/SE/1B.1	Vernal pools/annual herb/Apr–Aug/50–2,165	Not expected to occur. The Study Area is comprised of ornamental plantings within a developed area and no suitable habitat for the species to occur.

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
Pentachaeta lyonii	Lyon's pentachaeta	FE/SE/1B.1	Chaparral (openings), Coastal scrub, Valley and foothill grassland; Clay, Rocky/annual herb/(Feb)Mar–Aug/100–2,265	Not expected to occur. The Study Area is comprised of ornamental plantings within a developed area and no suitable habitat for the species to occur.
Phacelia ramosissima var. austrolitoralis	south coast branching phacelia	None/None/3.2	Chaparral, Coastal dunes, Coastal scrub, Marshes and swamps (coastal salt); Rocky (sometimes), Sandy/perennial herb/Mar–Aug/15–985	Not expected to occur. The Study Area is comprised of ornamental plantings within a developed area and no suitable habitat for the species to occur.
Phacelia stellaris	Brand's star phacelia	None/None/1B.1	Coastal dunes, Coastal scrub/annual herb/Mar–June/5–1,310	Not expected to occur. The Study Area is comprised of ornamental plantings within a developed area and no suitable habitat for the species to occur.
Potentilla multijuga	Ballona cinquefoil	None/None/1A	Meadows and seeps (brackish)/perennial herb/June–Aug/0–5	Not expected to occur. The Study Area is comprised of ornamental plantings within a developed area and no suitable habitat for the species to occur.
Sidalcea neomexicana	salt spring checkerbloom	None/None/2B.2	Chaparral, Coastal scrub, Lower montane coniferous forest, Mojavean desert scrub, Playas; Alkaline, Mesic/perennial herb/Mar–June/50–5,020	Not expected to occur. The Study Area is comprised of ornamental plantings within a developed area and no suitable habitat for the species to occur.
Suaeda esteroa	estuary seablite	None/None/1B.2	Marshes and swamps (coastal salt)/perennial herb/(Jan–May)July–Oct/0–15	Not expected to occur. The Study Area is comprised of ornamental plantings within a developed area and no suitable habitat for the species to occur.

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
Suaeda taxifolia	woolly seablite	None/None/4.2	Coastal bluff scrub, Coastal dunes, Marshes and swamps (coastal margins)/perennial evergreen shrub/Jan–Dec/0–165	Not expected to occur. The Study Area is comprised of ornamental plantings within a developed area and no suitable habitat for the species to occur.
Symphyotrichum defoliatum	San Bernardino aster	None/None/1B.2	Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Marshes and swamps, Meadows and seeps, Valley and foothill grassland (vernally mesic); Streambanks/perennial rhizomatous herb/July–Nov/5–6,695	Not expected to occur. The Study Area is comprised of ornamental plantings within a developed area and no suitable habitat for the species to occur.

Notes:
Status Legend:
Federal Designations
FE Federally listed endangered
State Designations
SE State listed as endangered
ST State threatened
California Rare Plant Ranking (CRPR)
1B Plants rare, threatened, or endangered in California and elsewhere
2B Plants rare, threatened, or endangered in California but more common elsewhere
3: Review List: Plants about which more information is needed
4: Watch List: Plants of limited distribution
.1 Seriously endangered in California (over 80% of occurrences threatened/high degree and immediacy of threat)
.2 Fairly endangered in California (20% to 80% of occurrences threatened)
.3 Not very endangered in California (less than 20% of occurrences threatened or no current threats known)

References

Calflora. 2025. The Calflora Database: Information on California Plants for Education, Research and Conservation [web application]. Berkeley, California. Accessed February 2025. https://www.calflora.org/.

CDFW (California Department of Fish and Wildlife). 2025. RareFind, Version 5.2.14. California Natural Diversity Database (CNDDB). Accessed February 2025. https://map.dfg.ca.gov/rarefind/view/RareFind.aspx.

CNPS (California Native Plant Society). 2025. Inventory of Rare and Endangered Plants. Online ed. Version 9-01 1.0. Sacramento, California: CNPS. Accessed February 2054. http://www.rareplants.cnps.org.

iNaturalist. 2025. iNaturalist: A community for naturalists [web application]. A joint initiative of the California Academy of Sciences and the National Geographic Society. Accessed February 2025. https://www.inaturalist.org/.

Jepson Flora Project. 2025. Jepson Interchange List of Currently Accepted Names of Native and Naturalized Plants of California. Berkeley, California: University of California. Accessed February 2025. http://ucjeps.berkeley.edu/interchange/.

Scientific Name	Common Name	Status[1] (Federal/State)	Habitat	Potential to Occur[2]
Invertebrates				
Bombus crotchii	Crotch's bumble bee	None/SCE	Open grassland and scrub communities supporting suitable floral resources.	Not expected to occur. Suitable habitat for this species is not present in the Study Area.
Glaucopsyche lygdamus palosverdesensis	Palos Verdes blue butterfly	FE/None	Cool, fog-shrouded, seaward side of Palos Verdes Hills, Los Angeles County	Not expected to occur. The site is located outside of the known geographic range for this species.
Streptocephalus woottoni	Riverside fairy shrimp	FE/None	Vernal pools, non-vegetated ephemeral pools	Not expected to occur. Suitable habitat for this species is not present in the Study Area.
Danaus plexippus plexippus pop. 1	monarch - California overwintering population	FC/None	Wind-protected tree groves with nectar sources and nearby water sources	Not expected to occur. No monarchs or host plants were observed during the survey and the Study Area lacks suitable habitat for this species to occur.
Euphilotes allyni	El Segundo blue butterfly	FE/None	Remnant coastal dune habitat in Los Angeles and Santa Barbara Counties	Not expected to occur. The site is located outside of the known geographic range for this species.
Amphibian				
Spea hammondii	western spadefoot	FPT/SSC	Primarily grassland and vernal pools, but also in ephemeral wetlands that persist at least 3 weeks in chaparral, coastal scrub, valley–foothill woodlands, pastures, and other agriculture	Not expected to occur. Suitable habitat for this species is not present in the Study Area.
Reptiles				
Anniella stebbinsi	southern California legless lizard	None/SSC	Coastal dunes, stabilized dunes, beaches, dry washes, valley–foothill, chaparral, and scrubs; pine, oak, and riparian woodlands; associated with sparse vegetation and moist sandy or loose, loamy soils	Not expected to occur. Suitable habitat for this species is not present in the Study Area.

Scientific Name	Common Name	Status[1] (Federal/State)	Habitat	Potential to Occur[2]
Phrynosoma blainvillii	Blainville's horned lizard	None/SSC	Open areas of sandy soil in valleys, foothills, and semi-arid mountains including coastal scrub, chaparral, valley–foothill hardwood, conifer, riparian, pine–cypress, juniper, and annual grassland habitats	Not expected to occur. Suitable habitat for this species is not present in the Study Area.
Thamnophis sirtalis ssp. (Southern California coastal plain from Ventura County to San Diego County, and from sea level to about 850 m)	south coast garter snake	None/SSC	Marsh and upland habitats near permanent water and riparian vegetation	Not expected to occur. Suitable habitat for this species is not present in the Study Area.
Actinemys pallida	southwestern pond turtle	FPT/SSC	Slow-moving permanent or intermittent streams, ponds, small lakes, and reservoirs with emergent basking sites; adjacent uplands used for nesting and during winter	Not expected to occur. Suitable habitat for this species is not present in the Study Area.
Birds				
Agelaius tricolor (nesting colony)	tricolored blackbird	BCC/SSC, ST	Nests near freshwater, emergent wetland with cattails or tules, but also in Himalayan blackberrry; forages in grasslands, woodland, and agriculture	Not expected to occur. Suitable habitat for this species is not present in the Study Area.
Athene cunicularia (burrow sites & some wintering sites)	burrowing owl	BCC/SSC, SC	Nests and forages in grassland, open scrub, and agriculture, particularly with ground squirrel burrows	Not expected to occur. Suitable habitat for this species is not present in the Study Area.
Ch*aradrius nivosus nivosu*s (nesting)	western snowy plover	FT, BCC/SSC	On coasts nests on sandy marine and estuarine shores; in the interior nests on sandy, barren or sparsely vegetated flats near saline or alkaline lakes, reservoirs, and ponds	Not expected to occur. Suitable habitat for this species is not present in the Study Area.

Scientific Name	Common Name	Status[1] (Federal/State)	Habitat	Potential to Occur[2]
Coccyzus americanus occidentalis (nesting)	western yellow-billed cuckoo	FT/SE	Nests in dense, wide riparian woodlands and forest with well-developed understories	Not expected to occur. Suitable habitat for this species is not present in the Study Area.
Coturnicops noveboracensis	yellow rail	BCC/SSC	Nesting requires wet marsh/sedge meadows or coastal marshes with wet soil and shallow, standing water	Not expected to occur. Suitable habitat for this species is not present in the Study Area.
Empidonax traillii extimus (nesting)	southwestern willow flycatcher	FE/SE	Nests in dense riparian habitats along streams, reservoirs, or wetlands; uses variety of riparian and shrubland habitats during migration	Not expected to occur. Suitable habitat for this species is not present in the Study Area.
Laterallus jamaicensis coturniculus	California black rail	None/FP, ST	Tidal marshes, shallow freshwater margins, wet meadows, and flooded grassy vegetation; suitable habitats are often supplied by canal leakage in Sierra Nevada foothill populations	Not expected to occur. Suitable habitat for this species is not present in the Study Area.
Passerculus sandwichensis beldingi	Belding's savannah sparrow	BCC/SE	Nests and forages in coastal saltmarsh dominated by pickleweed (Salicornia spp.)	Not expected to occur. Suitable habitat for this species is not present in the Study Area.
Pelecanus occidentalis californicus (nesting colonies & communal roosts)	California brown pelican	FPD/SCD	Forages in warm coastal marine and estuarine environments; in California, nests on dry, rocky offshore islands	Not expected to occur. Suitable habitat for this species is not present in the Study Area.
Polioptila californica californica	coastal California gnatcatcher	FT/SSC	Nests and forages in various sage scrub communities, often dominated by California sagebrush and buckwheat; generally avoids nesting in areas with a slope of greater than 40%; majority of nesting at less than 1,000 feet above mean sea level	Not expected to occur. Suitable habitat for this species is not present in the Study Area.

Scientific Name	Common Name	Status[1] (Federal/State)	Habitat	Potential to Occur[2]
Riparia riparia (nesting)	bank swallow	None/ST	Nests in riparian, lacustrine, and coastal areas with vertical banks, bluffs, and cliffs with sandy soils; open country and water during migration	Not expected to occur. Suitable habitat for this species is not present in the Study Area.
Sternula antillarum browni (nesting colony)	California least tern	FE/FP, SE	Forages in shallow estuaries and lagoons; nests on sandy beaches or exposed tidal flats	Not expected to occur. Suitable habitat for this species is not present in the Study Area.
Vireo bellii pusillus (nesting)	least Bell's vireo	FE/SE	Nests and forages in low, dense riparian thickets along water or along dry parts of intermittent streams; forages in riparian and adjacent shrubland late in nesting season	Not expected to occur. Suitable habitat for this species is not present in the Study Area.

Scientific Name	Common Name	Status[1] (Federal/State)	Habitat	Potential to Occur[2]
Mammals				
Eumops perotis californicus	western mastiff bat	None/SSC	Chaparral, coastal and desert scrub, coniferous and deciduous forest and woodland; roosts in crevices in rocky canyons and cliffs where the canyon or cliff is vertical or nearly vertical, trees, and tunnels	Not expected to occur. Suitable habitat for this species is not present in the Study Area.
Lasionycteris noctivagans	silver-haired bat	None/None	Old-growth forest, maternity roosts in trees, large snags 50 feet aboveground; hibernates in hollow trees, rock crevices, buildings, mines, caves, and under sloughing bark; forages in or near coniferous or mixed deciduous forest, stream or river drainages	Not expected to occur. Suitable habitat for this species is not present in the Study Area.
*Microtus californicus stephens*i	south coast marsh vole	None/SSC	Tidal marshes	Not expected to occur. Suitable habitat for this species is not present in the Study Area.
Neotoma lepida intermedia	San Diego desert woodrat	None/SSC	Coastal scrub, desert scrub, chaparral, cacti, rocky areas	Not expected to occur. Suitable habitat for this species is not present in the Study Area.
Nyctinomops femorosaccus	pocketed free-tailed bat	None/SSC	Pinyon–juniper woodlands, desert scrub, desert succulent shrub, desert riparian, desert wash, alkali desert scrub, Joshua tree, and palm oases; roosts in high cliffs or rock outcrops with drop-offs, caverns, and buildings	Not expected to occur. Suitable habitat for this species is not present in the Study Area.
Nyctinomops macrotis	big free-tailed bat	None/SSC	Rocky areas; roosts in caves, holes in trees, buildings, and crevices on cliffs and rocky outcrops; forages over water	Not expected to occur. Suitable habitat for this species is not present in the Study Area.
Perognathus longimembris pacificus	Pacific pocket mouse	FE/SSC	fine-grained sandy substrates in open coastal strand, coastal dunes, and river alluvium	Not expected to occur. Suitable habitat for this species is not present in the Study Area.

Scientific Name	Common Name	Status[1] (Federal/State)	Habitat	Potential to Occur[2]
Sorex ornatus salicornicus	southern California saltmarsh shrew	None/SSC	Saltmarsh, saltgrass, dense willow, bulrush	Not expected to occur. Suitable habitat for this species is not present in the Study Area.
Taxidea taxus	American badger	None/SSC	Dry, open, treeless areas; grasslands, coastal scrub, agriculture, and pastures, especially with friable soils	Not expected to occur. Suitable habitat for this species is not present in the Study Area.

Notes:

1 **Status Abbreviations:**
FE: Federally listed as endangered
FT: Federally listed as threatened
FC: Federal candidate species
BCC: Bird of Conservation Concern (U.S. Fish and Wildlife Service)
SE: State listed as endangered
ST: State listed as threatened
FP: CDFW California Fully Protected Species
SSC: CDFW California Species of Special Concern
WL: CDFW California Watch List Species

2 Refers to records within the Torrance U.S. Geological Survey (USGS) 7.5-minute quadrangle and eight surrounding quadrangles (i.e., South Gate, Inglewood, Long Beach, Redondo Beach, San Pedro, Venice)

References

Allen, L.W., K.L. Garrett, and M.C. Wimer. 2016. *Los Angeles County Breeding Bird Atlas*. Los Angeles, Calif.: Los Angeles Audubon Society.

CDFW (California Department of Fish and Wildlife). 2025a. *RareFind*, Version 5.2.14. California Natural Diversity Database (CNDDB). Accessed August 2025. https://map.dfg.ca.gov/rarefind/view/RareFind.aspx.

CDFW. 2025b. *CWHR Life History Accounts and Range Maps*. Website. Updated versions of species information in Zeiner et al. 1988–1990. CDFW, CWHR Program. Accessed August 2025. https://www.wildlife.ca.gov/Data/CWHR/Life-History-and-Range.

eBird. 2025. eBird: An online database of bird distribution and abundance [web application]. eBird, Cornell Lab of Ornithology, Ithaca, New York. Accessed August 2025. http://www.ebird.org.

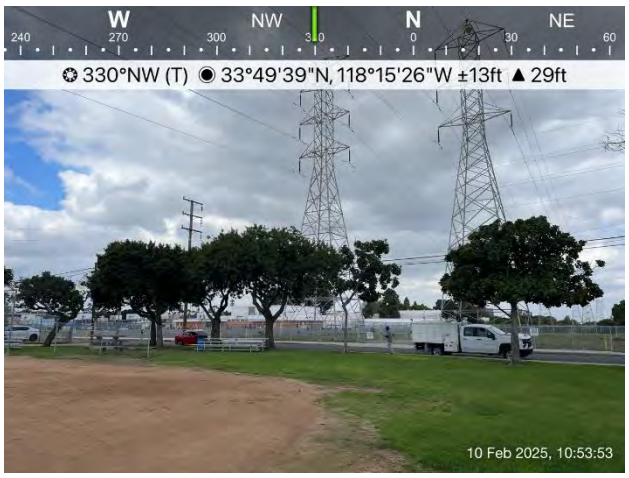
Miner, K.L., and D.C. Stokes. 2005. "Bats in the South Coast Ecoregion: Status, Conservation Issues, and Research Needs." USDA Forest Service Gen. Tech. Rep. PSW-GTR-195:211-277.

Mock, P. 2004. California Gnatcatcher (*Polioptila californica*). In The Coastal Scrub and Chaparral Bird Conservation Plan: a strategy for protecting and managing coastal scrub and chaparral habitats and associated birds in California. California Partners in Flight. http://www.prbo.org/calpif/htmldocs/scrub.html.

Nafis, G. 2025. *California Herps - A Guide to the Amphibians and Reptiles of California*. http://www.californiaherps.com/

PISCES. 2014. PISCES Range Data. California Fish Data and Management Software. Center for Watershed Sciences. University of California, Davis. https://pisces.ucdavis.edu/fish.

WBWG (Western Bat Working Group). 2017. "Western Bat Species." Western Bat Working Group Website. http://wbwg.org/western-bat-species/.

<table>
<tr>
<td>
</td>
<td>
</td>
</tr>
<tr>
<td>Photo 1. Facing west. Representative photo of park lawn within the Study Area.</td>
<td>Photo 2. Facing east. Park lawn with ornamental trees in background.</td>
</tr>
<tr>
<td> 
</td>
<td>
</td>
</tr>
<tr>
<td>Photo 3. Facing north. Ornamental trees adjacent to the road within the Study Area.</td>
<td>Photo 4. Facing south. Additional photo with ornamental trees and park lawn.</td>
</tr>
</table>

Appendix D

Calas Park Cultural Resources Inventory Report

DUDEK
225 SOUTH LAKE AVENUE
SUITE M210
PASADENA, CALIFORNIA 91101
T 626.204.9800

April 25, 2025 17283

Roland Jen
City of Carson
701 East Carson Street
Carson, California 90745

Subject: Cultural Resources Inventory Report for the Calas Park Stormwater Capture Project, City of Carson, California

Dear Roland Jen:

This letter documents the cultural resources inventory conducted by Dudek for the Calas Park Stormwater Capture Project (Project), located in the City of Carson, California (Figure 1, Project Location). The Project entails constructing and operating a stormwater capture and treatment facility within the northern portion of Calas Park, as well as other ancillary park improvements. The City of Carson (City) is the lead agency responsible for compliance with the California Environmental Quality Act (CEQA). In accordance with CEQA, Dudek performed a cultural resources inventory for the entire Project area. The Project area consists of an approximately 4.6-acre rectangular parcel owned by the City that houses components of its public water system (Figure 2, Project Site and Existing Features).

Dudek conducted a records search for the proposed Project including a surrounding 1-mile radius at the South Central Coastal Information Center (SCCIC). The records search did not identify any cultural resources within the Project area but did identify five resources within the 1-mile radius, two of which are prehistoric in age. Dudek requested a Native American Heritage Commission (NAHC) Sacred Lands File (SLF) search, and the results were negative for Native American cultural resources within 1 mile of the Project area.

A qualified Dudek archaeologist conducted a reconnaissance-level pedestrian survey of the proposed Project area on January 17, 2025. No cultural resources were identified within the Project area during this survey, though most of the ground surface was obscured by pavement, landscaping, and structures when the survey was conducted. Archival research indicates that the Project area has been developed since at least 1952, and numerous structures and paved parking lots were present prior to the construction of the park in the 1980s. A geotechnical report prepared for the Project indicates the presence of a layer of fill over alluvium in the areas of proposed development. The fill layer has the potential to contain intact historic-period foundation remnants from structures that were previously present within the Project area. The underlying alluvium also has a moderate potential for supporting the presence of subsurface archaeological deposits. Taking all these factors into consideration, the potential to encounter intact cultural deposits containing archaeological and tribal cultural resources is possible during Project-related ground-disturbing activities.

If yet unknown cultural resources, possessing the characteristics outlined in CEQA as significant, exist and are inadvertently encountered during implementation of the Project, there is potential for a substantial adverse change in the significance of an historical resource to occur. Therefore, the following three measures are recommended to

ensure that the potential for impacts to unknown significant cultural resources during proposed ground-disturbing construction activities would be appropriately addressed consistent with CEQA and City of Carson requirements and guidelines: (1) Retainment of a qualified archaeologist meeting the Secretary of the Interior standards responsible for the development and implementation of a Cultural Resource Monitoring and Inadvertent Discovery Plan, (2) development and presentation of a Workers Environmental Awareness Program Training to the Project's construction personnel; and (3) performance of archaeological monitoring. Implementation of these measures would ensure that cultural resources encountered inadvertently are treated properly and in accordance with CEQA, resulting in less-than-significant impacts to cultural resources.

1 Project Description and Location

The Project is located in the southern portion of the City of Carson, which is in southwestern Los Angeles County, California. To the north, the park is bounded by East 220th Street, followed by Carnegie Middle School, a grassy area containing the transmission line corridor, and residential uses. To the south, the park is bounded by East Jay Street, followed by residential uses, and East 223rd Street, followed by light industrial/warehousing, office, and commercial uses. To the east, the park is bounded by South Edgar Street, followed by residential uses. To the west, the park is bounded by residential uses. Regional access to the park is from Interstate (I) 405, which is approximately 0.18 miles to the east; State Route (SR) 47, which is approximately 1.55 miles to the east; I-110, which is 1.60 miles to the west; and I-710, which is approximately 2.72 miles to the east. The Project falls within Sections 16 and 17 of Township 4 South, Range 13 West, of the Torrance, California, 7.5-minute Quadrangle (Figure 1).

The proposed Project entails constructing and operating a stormwater capture and treatment facility within the northern portion of Calas Park, as well as other ancillary park improvements. The proposed Project site covers approximately 4.60 acres of Calas Park, including the two baseball fields, the soccer field, the tennis courts, the basketball court, and the parking area (Figure 2). The park is in a developed part of the City that primarily features residential, commercial, office, and light industrial/warehousing uses and schools. The park is upside down L-shaped with a transmission line corridor running along the western portion of the park. The primary components of the park are concentrated in the north and northeast areas of the park. The proposed Project is currently in the preliminary design phase, and the City has developed certain design and engineering assumptions for purposes of defining the Project for informal purposes and conducting environmental impact review pursuant to CEQA. The City will function as the lead agency under CEQA.

The stormwater capture and treatment facility would intercept stormwater and dry-weather flow from two existing underground storm drains, one north of the intersection of East 220th Street and Bonita Street and the other in East 220th Street, and a box culvert storm drain in East 220th Street and convey flows into an underground storage reservoir that would be installed beneath the northeast corner of the baseball and soccer fields area for infiltration into the groundwater basin. Other Project components include constructing a 5.6-cubic-feet-per-second concrete diversion pipeline with utility hole access within East 220th Street running from the intersection of East 220th Street and Bonita Street to north of the tennis courts at Calas Park. Diversion structures along the diversion pipeline would be underground concrete vault encasing the existing storm drains and connecting the existing storm drains to the 18-inch-diameter underground diversion pipeline. The diversion structures would have a utility hole for personnel and equipment access. An underground storage reservoir would be installed beneath the northeast corner of the baseball and soccer fields area. The field surface would be removed, and earth material would be

excavated, removed, and hauled off site for reuse or disposal. A vegetated bioswale would also be installed north of the tennis courts and south of East 220th Street, featuring native vegetation and decorative boulders.

2 Regulatory Framework

2.1 The California Register of Historical Resources (Public Resources Code Section 5020 et seq.)

Under CEQA, the term "historical resource" includes but is not limited to "any object, building, structure, site, area, place, record, or manuscript which is historically or archaeologically significant, or is significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military, or cultural annals of California" (California Public Resources Code Section 5020.1[j]). In 1992, the California legislature established the California Register of Historical Resources (CRHR) "to be used by state and local agencies, private groups, and citizens to identify the state's historical resources and to indicate what properties are to be protected, to the extent prudent and feasible, from substantial adverse change" (California Public Resources Code Section 5024.1[a]). A resource is eligible for listing in the CRHR if the State Historical Resources Commission determines that it is a significant resource and that it meets any of the following National Register of Historic Places (NRHP) criteria (California Public Resources Code Section 5024.1[c]):

- Associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage.
- Associated with the lives of persons important in our past.
- Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values.
- Has yielded, or may be likely to yield, information important in prehistory or history.

Resources less than 50 years old are not considered for listing in the CRHR but may be considered if it can be demonstrated that sufficient time has passed to understand the historical importance of the resource (see 14 CCR Section 4852[d][2]).

The CRHR protects cultural resources by requiring evaluations of the significance of prehistoric and historic resources. The criteria for the CRHR are nearly identical to those for the NRHP, and properties listed or formally designated as eligible for listing on the NRHP are automatically listed on the CRHR, as are the state landmarks and points of interest. The CRHR also includes properties designated under local ordinances or identified through local historical resource surveys. The State Historic Preservation Officer maintains the CRHR.

2.2 Native American Historic Cultural Sites (California Public Resources Code Section 5097 et seq.)

State law addresses the disposition of Native American burials in archaeological sites and protects such remains from disturbance, vandalism, or inadvertent destruction; establishes procedures to be implemented if Native American skeletal remains are discovered during construction of a project; and establishes the NAHC to resolve

disputes regarding the disposition of such remains. In addition, the Native American Historic Resource Protection Act makes it a misdemeanor punishable by up to 1 year in jail to deface or destroy an Indian historic or cultural site that is listed or may be eligible for listing in the CRHR.

2.3 California Native American Graves Protection and Repatriation Act

The California Native American Graves Protection and Repatriation Act (California Repatriation Act), enacted in 2001, required all state agencies and museums that receive state funding and that have possession or control over collections of human remains or cultural items, as defined, to complete an inventory and summary of these remains and items on or before January 1, 2003, with certain exceptions. The California Repatriation Act also provides a process for the identification and repatriation of these items to the appropriate tribes.

2.4 California Environmental Quality Act

As described further below, the following CEQA statutes and CEQA Guidelines are of relevance to the analysis of archaeological and historic resources:

1. California Public Resources Code Section 21083.2(g): Defines "unique archaeological resource."
2. California Public Resources Code Section 21084.1 and CEQA Guidelines Section 15064.5(a): Define historical resources. In addition, CEQA Guidelines Section 15064.5(b) defines the phrase "substantial adverse change in the significance of an historical resource;" it also defines the circumstances when a project would materially impair the significance of a historical resource.
3. California Public Resources Code Section 5097.98 and CEQA Guidelines Section 15064.5(e): Set forth standards and steps to be employed following the accidental discovery of human remains in any location other than a dedicated ceremony.
4. California Public Resources Code Sections 21083.2(b)-(c) and CEQA Guidelines Section 15126.4: Provide information regarding the mitigation framework for archaeological and historic resources, including options of preservation-in-place mitigation measures; preservation-in-place is the preferred manner of mitigating impacts to significant archaeological sites because it maintains the relationship between artifacts and the archaeological context, and may also help avoid conflict with religious or cultural values of groups associated with the archaeological site(s).

Under CEQA, a project may have a significant effect on the environment if it may cause "a substantial adverse change in the significance of an historical resource" (California Public Resources Code Section 21084.1; CEQA Guidelines Section 15064.5[b]). If a site is either listed or eligible for listing in the CRHR, or if it is included in a local register of historic resources, or identified as significant in a historical resources survey (meeting the requirements of California Public Resources Code Section 5024.1[q]), it is a "historical resource" and is presumed to be historically or culturally significant for purposes of CEQA (California Public Resources Code Section 21084.1; CEQA Guidelines Section 15064.5[a]). The lead agency is not precluded from determining that a resource is a historical resource even if it does not fall within this presumption (California Public Resources Code Section 21084.1; CEQA Guidelines Section 15064.5[a]).

A "substantial adverse change in the significance of an historical resource" reflecting a significant effect under CEQA means "physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of an historical resource would be materially impaired" (CEQA Guidelines Section 15064.5[b][1]; California Public Resources Code Section 5020.1[q]). In turn, the significance of a historical resource is materially impaired when a project:

1. Demolishes or materially alters in an adverse manner those physical characteristics of an historical resource that convey its historical significance and that justify its inclusion in, or eligibility for, inclusion in the California Register; or
2. Demolishes or materially alters in an adverse manner those physical characteristics that account for its inclusion in a local register of historical resources pursuant to section 5020.1(k) of the Public Resources Code or its identification in an historical resources survey meeting the requirements of section 5024.1(g) of the Public Resources Code, unless the public agency reviewing the effects of the project establishes by a preponderance of evidence that the resource is not historically or culturally significant; or
3. Demolishes or materially alters in an adverse manner those physical characteristics of a historical resource that convey its historical significance and that justify its eligibility for inclusion in the California Register as determined by a lead agency for purposes of CEQA.

See Section 2.7, below, for a discussion of the CEQA Guidelines for determining significance and mitigating impacts to unique archaeological resources.

2.5 California Health and Safety Code Section 7050.5 and Public Resources Code Section 5097.98

CEQA Guidelines Section 15064.5 assigns special importance to human remains and specifies procedures to be used when Native American remains are discovered. As described below, these procedures are detailed in California Health and Safety Code Section 7050.5 and Public Resources Code Section 5097.98.

California law protects Native American burials, skeletal remains, and associated grave goods, regardless of their antiquity, and provides for the sensitive treatment and disposition of those remains. Health and Safety Code Section 7050.5 requires that if human remains are discovered in any place other than a dedicated cemetery, no further disturbance or excavation of the site or nearby area reasonably suspected to contain human remains shall occur until the County coroner has examined the remains (California Health and Safety Code Section 7050.5[b]). If the coroner determines or has reason to believe the remains are those of a Native American, the coroner must contact the NAHC within 24 hours (California Health and Safety Code Section 7050.5[c]). In accordance with California Public Resources Code Section 5097.98(a), the NAHC will notify the Most Likely Descendant (MLD). With the permission of the landowner, the MLD may inspect the site of discovery. Within 48 hours of being granted access to the site, the MLD may recommend means of treatment or disposition, with appropriate dignity, of the human remains and associated grave goods.

2.6 Assembly Bill 52

California Assembly Bill 52, which took effect July 1, 2015, establishes a consultation process between California Native American tribes and lead agencies in order to address tribal concerns regarding project impacts and mitigation to "tribal cultural resources" (TCRs). Public Resources Code Section 21074(a) defines TCRs and states that a project that has the potential to cause a substantial adverse change to a TCR is a project that may have an adverse effect on the environment. A TCR is defined as a site, feature, place, cultural landscape, sacred place, and object with cultural value to a California Native American tribe that is either:

1. Listed or eligible for listing in the CRHR or a local register of historical resources, or
2. Determined by a lead agency to be a TCR.

2.7 Guidelines for Determining Significance

According to CEQA (Section 15064.5b), a project with an effect that may cause a substantial adverse change in the significance of an historical resource is a project that may have a significant effect on the environment. CEQA defines a substantial adverse change:

> Substantial adverse change in the significance of an historical resource means physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of an historical resource would be materially impaired.

The significance of an historical resource is materially impaired when a project:

- Demolishes or materially alters in an adverse manner those physical characteristics of an historical resource that convey its historical significance and that justify its inclusion in, or eligibility for inclusion in, the CRHR; or
- Demolishes or materially alters in an adverse manner those physical characteristics that account for its inclusion in a local register of historical resources pursuant to section 5020.1(k) of the Public Resources Code or its identification in an historical resources survey meeting the requirements of section 5024.1(g) of the Public Resources Code, unless the public agency reviewing the effects of the project establishes by a preponderance of evidence that the resource is not historically or culturally significant; or
- Demolishes or materially alters in an adverse manner those physical characteristics of an historical resource that convey its historical significance and that justify its eligibility for inclusion in the CRHR as determined by a lead agency for purposes of CEQA.

Section 15064.5(c) of CEQA applies to effects on archaeological sites and contains the following additional provisions regarding archaeological sites:

- When a project will impact an archaeological site, a lead agency shall first determine whether the site is an historical resource, as defined in subsection (a).
- If a lead agency determines that the archaeological site is a historical resource, it shall refer to the provisions of Section 21084.1 of the Public Resources Code, and this section, Section

15126.4 of the Guidelines, and the limits contained in Section 21083.2 of the Public Resources Code do not apply.

- If an archaeological site does not meet the criteria defined in subsection (a), but does meet the definition of a unique archaeological resource in Section 21083.2 of the Public Resources Code, the site shall be treated in accordance with the provisions of section 21083.2. The time and cost limitations described in Public Resources Code Section 21083.2 (c–f) do not apply to surveys and site evaluation activities intended to determine whether the project location contains unique archaeological resources.
- If an archaeological resource is neither a unique archaeological nor a historical resource, the effects of the project on those resources shall not be considered a significant effect on the environment. It shall be sufficient that both the resource and the effect on it are noted in the Initial Study or Environmental Impact Report (EIR), if one is prepared to address impacts on other resources, but they need not be considered further in the CEQA process.

Section 15064.5(d) and (e) contain additional provisions regarding human remains. Regarding Native American human remains, paragraph (d) provides:

> When an initial study identifies the existence of, or the probable likelihood of, Native American human remains within the project, a lead agency shall work with the appropriate Native Americans as identified by the Native American Heritage Commission as provided in Public Resources Code SS5097.98. The applicant may develop an agreement for treating or disposing of, with appropriate dignity, the human remains, and any items associated with Native American burials with the appropriate Native Americans as identified by the Native American Heritage Commission. Action implementing such an agreement is exempt from:
>
> 1. The general prohibition on disinterring, disturbing, or removing human remains from any location other than a dedicated cemetery (Health and Safety Code Section 7050.5); and
> 2. The requirement of CEQA and the Coastal Act.

Under CEQA, an EIR is required to evaluate any impacts on unique archaeological resources (California Public Resources Code Section 21083.2.) A "unique archaeological resource" is defined as follows (California Public Resources Code Section 21083.2[g]):

> [A]n archaeological artifact, object, or site about which it can be clearly demonstrated that, without merely adding to the current body of knowledge, there is a high probability that it meets any of the following criteria:
>
> 1. Contains information needed to answer important scientific research questions and that there is a demonstrable public interest in that information.
> 2. Has a special and particular quality such as being the oldest of its type or the best available example of its type.
> 3. Is directly associated with a scientifically recognized important prehistoric or historic event or person.

An impact to a non-unique archaeological resource is not considered a significant environmental impact and such non-unique resources need not be further addressed in the EIR (Public Resources Code Section 21083.2[a]; CEQA Guidelines Section 15064.5[c][4]).

As stated above, CEQA contains rules for mitigation of "unique archaeological resources." For example, "[i]f it can be demonstrated that a project will cause damage to a unique archaeological resource, the lead agency may require reasonable efforts to be made to permit any or all of these resources to be preserved in place or left in an undisturbed state. Examples of that treatment, in no order of preference, may include, but are not limited to, any of the following" (Public Resources Code Section 21083.2[b][1]–[4]):

1. Planning construction to avoid archaeological sites.
2. Deeding archaeological sites into permanent conservation easements.
3. Capping or covering archaeological sites with a layer of soil before building on the sites.
4. Planning parks, greenspace, or other open space to incorporate archaeological sites.

Public Resources Code Section 21083.2(d) states that "[e]xcavation as mitigation shall be restricted to those parts of the unique archaeological resource that would be damaged or destroyed by the project. Excavation as mitigation shall not be required for a unique archaeological resource if the lead agency determines that testing or studies already completed have adequately recovered the scientifically consequential information from and about the resource, if this determination is documented in the environmental impact report."

The rules for mitigating impacts to archaeological resources to qualify as "historic resources" are slightly different. According to CEQA Guidelines Section 15126.4(b), "[p]ublic agencies should, whenever feasible, seek to avoid damaging effects on any historic resource of an archaeological nature. The following factors shall be considered and discussed in an EIR for a project involving such an archaeological site:

A. Preservation in place is the preferred manner of mitigating impacts to archaeological sites. Preservation in place maintains the relationship between artifacts and the archaeological context. Preservation may also avoid conflict with religious or cultural values of groups associated with the site.
B. Preservation in place may be accomplished by, but is not limited to, the following:
    1. Planning construction to avoid archaeological sites;
    2. Incorporation of sites within parks, greenspace, or other open space;
    3. Covering the archaeological sites with a layer of chemically stable soil before building tennis courts, parking lots, or similar facilities on the site[; and]
    4. Deeding the site into a permanent conservation easement.

Thus, although Section 21083.2 of the Public Resources Code, in addressing "unique archaeological sites," provides for specific mitigation options "in no order of preference," CEQA Guidelines Section 15126.4(b), in addressing "historical resources of an archaeological nature," provides that "[p]reservation in place is the preferred manner of mitigating impacts to archaeological sites."

Under CEQA, "[w]hen data recovery through excavation is the only feasible mitigation," the lead agency may cause to be prepared and adopt a "data recovery plan," prior to any excavation being undertaken. The data recovery plan must make "provision for adequately recovering the scientifically consequential information from and about the

historic resource" (CEQA Guidelines Section 15126.4[b][3][C]). The data recovery plan also "must be deposited with the California Historical Resources Regional Information Center." (*Ibid*.) Further, "[i]f an artifact must be removed during project excavation or testing, curation may be an appropriate mitigation." (*Ibid*.)

However, "[d]ata recovery shall not be required for an historical resource if the lead agency determines that testing or studies already completed have adequately recovered the scientifically consequential information from and about the archaeological or historic resource, provided that determination is documented in the EIR and that the studies are deposited with the California Historical Resources Regional Information Center" (CEQA Guidelines Section 15126.4[b][3][D]).

2.8 Los Angeles County

Chapter 9, the Conservation and Natural Resources Element of the Los Angeles County 2035 General Plan, Section VIII. Historic, Cultural, and Paleontological Resources, provides the following goals and policies potentially relevant to the Project (County of Los Angeles 2015): The following summarizes Goals and Policies specific to cultural and historical resources:

Goal C/NR 14: Protected historic, cultural, and paleontological resources.

Topic: Historic, Cultural, and Paleontological Resource Protection

Policy C/NR 14.1: Mitigate all impacts from new development on or adjacent to historic, cultural, and paleontological resources to the greatest extent feasible.

Policy C/NR 14.2: Support an inter-jurisdictional collaborative system that protects and enhances historic, cultural, and paleontological resources.

Policy C/NR 14.3: Support the preservation and rehabilitation of historic buildings.

Policy C/NR 14.4: Ensure proper notification procedures to Native American tribes in accordance with Senate Bill 18 (2004).

Policy C/NR 14.5: Promote public awareness of historic, cultural, and paleontological resources.

Policy C/NR 14.6: Ensure proper notification and recovery processes are carried out for development on or near historic, cultural, and paleontological resources.

Los Angeles County Historic Preservation Ordinance

On September 1, 2015, the Board of Supervisors recognized the importance of preserving the County's distinctive architectural and cultural history by adopting the Historic Preservation Ordinance (HPO) that:

- Specifies criteria and procedures for the designation of landmarks and historic districts.
- Specifies criteria and procedures for reviewing proposed work on designated landmarks or on property within historic districts.
- Establishes penalties for unauthorized work, including demolition, on landmarks or historic district contributors.

- Requires maintenance of landmarks and historic district contributors to prevent deterioration.
- Prohibits work, including demolition, on property nominated but not yet designated as a landmark or historic district.
- Encourages adaptive reuse of landmarks and historic district contributors by providing relief from parking requirements.
- Provides for the enhancement of historic districts by the establishment of development guidelines and standards, and by allowing streetscape improvements that are compatible with the areas historic character.

Section 22.124.070, Criteria for Designation of Landmarks and Historic Districts

Included here are the relevant sections of Los Angeles County Code Section 22.124.070, which summarizes applicable criteria for landmark and historic district designation.

> A structure, site, object, tree, landscape, or natural land feature may be designated as a landmark if it is 50 years of age or older and satisfies one or more of the following criteria:
>
> 1. It is associated with events that have made a significant contribution to the broad patterns of the history of the nation, State, County, or community in which it is located;
> 2. It is associated with the lives of persons who are significant in the history of the nation, State, County, or community in which it is located;
> 3. It embodies the distinctive characteristics of a type, architectural style, period, or method of construction, or represents the work of an architect, designer, engineer, or builder whose work is of significance to the nation, State, County, or community in which it is located; or possesses artistic values of significance to the nation, State, County, or community in which it is located;
> 4. It has yielded, or may be likely to yield, significant and important information regarding the prehistory or history of the nation, State, County, or community in which it is located;
> 5. It is listed, or has been formally determined eligible by the United States National Park Service for listing, in the National Register of Historic Places, or is listed, or has been formally determined eligible by the State Historical Resources Commission for listing, on the California Register of Historical Resources;
> 6. If it is a tree, it is one of the largest or oldest trees of the species located in the County; or
> 7. If it is a tree, landscape, or other natural land feature, it has historical significance due to an association with a historic event, person, site, street, or structure, or because it is a defining or significant outstanding feature of a neighborhood.

The County provides for the protection and preservation of Archaeological/Paleontological/Historic Cultural Resources under Zoning Code Section 22.44.1570, Additional Development Standards):

A. Purpose. The intent of these provisions is protect and preserve archaeological, historical, and paleontological resources from destruction, and avoid impacts to such resources where feasible. Where avoidance is not feasible, impacts to resources shall be minimized to the maximum extent feasible.

B. Definitions. The following definitions shall only apply to this section. This portion of the County's approach to the protection and preservation of Archaeological/Paleontological/Historic Cultural Resources under Zoning Code Section 22.44.1570 includes a glossary of applicable terms. Please refer to Zoning Code Section 22.44.1570 for complete language.

C. Applicability. A Cultural Resource Review pursuant to this section shall be required for all projects prior to the issuance of a planning approval, coastal development permit, geological/geotechnical exploratory excavation permit, sewer permit, building permit, grading permit, or prior to the commencement of government-initiated or funded works except those projects necessary for emergency purposes.

D. Cultural Resource Review. This portion of the County's approach to the protection and preservation of Archaeological/Paleontological/Historic Cultural Resources under Zoning Code Section 22.44.1570 includes a comprehensive description of how cultural resource reviews should be conducted. Please refer to Zoning Code Section 22.44.1570 for complete language.

E. Cataloging and Filing of Information. This portion of the County's approach to the protection and preservation of Archaeological/Paleontological/Historic Cultural Resources under Zoning Code Section 22.44.1570 includes a comprehensive protocol for the curation and filing of data and findings. Please refer to Zoning Code Section 22.44.1570 for complete language.

F. Archaeological Discoveries. Any person who discovers important cultural resources during the course of construction for a project shall notify the Director of the discovery. Once important cultural resources are discovered, no further excavation shall be permitted without approval of the Director.

2.9 City of Carson General Plan

The City of Carson General Plan (2023) provides a contextual understanding of the historical, archaeological, and paleontological background of the City and discusses the goals, policies and programs related to the preservation and protection of these resources within the City's limits. The goals pertinent to cultural resources along with the policies and programs adopted by the City are as follows:

Guiding Policies

OSEC-G-6. Identify, protect, and preserve important archaeological, paleontological, tribal, and historic resources for their aesthetic, scientific, educational, and cultural values.

OSEC-G-7. Celebrate Carson's unique cultural history by promoting and understanding and appreciation of its history with residents.

OSEC-G-8. Recognize the Tribal Nations who first lived in the Carson area and preserve their identity, culture, and artifacts. Consistent with State law, consult with local Tribal Nations and the Native American Heritage Com-mission to protect tribal cultural resources including sites, features, places, cultural landscapes, sacred places, or objects with cultural value to the tribes that is on or eligible for inclusion in the California Register of Historic Resources or a local historic register.

The State of California has adopted regulations that establish guidance and clear procedures for contacting and consulting with local tribes regarding proposed land use decisions for the

purpose of protecting tribal cultural resources. Senate Bill 18 (SB 18) re-quires local governments to notify and consult with Native American tribes regarding tribal cultural places (otherwise known as sacred sites) prior to adopting or amending a General Plan or designating land as open space. Assembly Bill 52 (AB 52) requires that Native American tribes be offered the opportunity to consult on CEQA documents and take an active role in the CEQA process.

Implementing Policies

OSEC-P-8. Development projects shall comply with State and federal law that upon discovery of Native American remains or archaeologic artifacts during construction, all activity will cease until qualified professional archaeological examination and reburial in an appropriate manner is accomplished.

OSEC-P-9. For development and redevelopment proposals in archaeologically or culturally sensitive areas of Carson, require an assessment of the potential presence of archaeological and tribal cultural resources, including a site survey and a records search of the California Historical Resources Information System at the South Central Coastal Information Center (SCCIC). As warranted by the results of the assessment, require additional studies to identify and address project-specific im-pacts on archaeological and tribal cultural resources. The City should incorporate the study recommendations as project conditions of approval to ensure that impacts on archaeological and/or tribal cultural resources are mitigated to the extent possible. Studies should be prepared according to National Register Bulletin 24: Guidelines for Local Surveys: A Basis for Preservation Planning and the Secretary of the Interior's Standards and Guidelines for Archaeology and Historic Preservation.

OSEC-P-10. Using an annually updated Archaeological Resource Sensitivity Map, review pro-posed development projects to determine whether a site contains known prehistoric or historic cultural resources and/or to determine the potential for discovery of additional cultural resources.

OSEC-P-11. Proactively coordinate with the area's native tribes in the review and protection of any tribal cultural resources discovered at development sites.

OSEC-P-12. Prior to development of projects that involve ground disturbance or excavations in undisturbed native soils, the project proponent shall retain a paleontologist meeting the Society of Vertebrate Paleontology's standards for qualified professional paleontologist to conduct a paleontological resources assessment including: a site-specific database search at the Natural History Museum of Los Angeles County and/or other appropriate facilities; geologic map and scientific literature review; a pedestrian field survey, where deemed appropriate by the qualified professional paleontologist; assessment of the project area's paleontological sensitivity and paleontological monitoring requirements; and preparation of a technical report that documents the methods and results of the study. The report shall be prepared prior to the City of Carson's approval of project plans.

OSEC-P-13. The City shall require paleontological re-sources monitoring for any project that has a high potential for encountering subsurface paleontological resources. The location, depths, duration, and timing of monitoring shall be determined by the qualified professional paleontologist based on the sensitivity assessment required as part of OSEC-P-12. Prior to the start of ground disturbance, the project proponent shall retain a qualified monitor meeting the Society of paleontological resource monitors, and who shall work under the direct super vision of the qualified professional paleontologist. In the event that paleontological resources are unearthed during ground-disturbing activities, the monitor shall be empowered to halt or redirect ground-disturbing activities away from the vicinity of the discovery until the qualified professional paleontologist has determined its significance and pro-vided recommendations for preservation in place or recovery of the resource. The monitor shall keep daily logs detailing the types of activities and soils observed, and any discoveries. After cessation of ground disturbance, the qualified professional paleontologist shall prepare a report that de-tails the results of monitoring.

3 Results

3.1 Records Search

Dudek conducted a California Historical Resources Information System records search of the Project area and a 1-mile radius at the SCCIC on December 19, 2024. The records search results identified that a total of 17 previous cultural resources studies have been conducted within 1 mile of the Project area (Table 1); one cultural resource inventory (LA-04512) covers the entirety of the Project area. The results of the records search and all Department of Parks and Recreation forms are attached as part of Confidential Appendix A, SCCIC Records Search Results.

Table 1. Previously Conducted Studies Within 1 Mile of the Project Area

Report ID	Year	Author	Title
Intersects Project Area			
LA-04512	1977	Eggers, A.V.	Cultural Resources Inventory of the City of Carson, California
Outside of Project Area			
LA-00083	1975	Rosen, Martin D.	Evaluation of the Archaeological Resources and Potential Impact of the Joint Outfall System's Improvements on Sewer Treatment Plants and Installation Routes for New Large Diameter Sewers, Los Angeles County
LA-02258	1991	Breece, William H.	Archaeological Survey Results: Proposed Oil Shell Oil Company Inter-Refinery Pipelines Project Carson, California
LA-02749	1992	Charroin, Andrea	Archaeological Monitoring for Shell Pipeline

Table 1. Previously Conducted Studies Within 1 Mile of the Project Area

Report ID	Year	Author	Title
LA-02751	1992	Padon, Beth	Archaeological Survey Results: Proposed Arco Los Angeles Refinery Clean Fuels Project Carson, California
LA-05971	2001	Unknown	California Energy Commission Application for Certification BP 5th Train Project City of Carson, Los Angeles County, California
LA-05995	2002	Duke, Curt	Cultural Resource Assessment AT&T Wireless Services Facility No. 05226a Los Angeles County, California
LA-06367	2001	Duke, Curt	(Duplicate of LA-5438) Cultural Resource Assessment Cingular Wireless Facility No. Vy030-04 Los Angeles County, California
LA-09627	2008	Wlodarski, Robert J.	Proposed Bechtel Wireless Telecommunications Site OC0195 (C & H Printing), Located at 6046 Lincoln Avenue, Cypress, California 90630
LA-10158	2007	Knell, Edward J., and James Steely	Cultural Resources Survey for the Carson Terminal Redevelopment Project, Los Angeles County, California
LA-10250	2009	Bonner, Wayne H.	Cultural Resources Records Search and Site Visit Results for T-Mobile USA Candidate LA33769B (Ranch Fish Market), 117 East 223rd Street, Carson, Los Angeles County, California
LA-10567	2005	Hogan, Michael, Bai "Tom" Tang, Josh Smallwood, Laura Hensley Shaker, and Casey Tibbitt	Identification and Evaluation of Historic Properties - West Basin Municipal Water District Harbor- South Bay Water Recycling Project Proposed Project Laterals
LA-10727	2010	Bonner, Wayne H.	Cultural Resources Records Search and Site Visit Results for T-Mobile USA Candidate LA33769-C (Ranch Fish Market), 117 East 223rd Street, Carson, Los Angeles County, California
LA-11150	2003	Maxwell, Pamela	West Basin Municipal Water District Harbor/ South Bay Water Recycling Project
LA-11482	1939	Racer, F.H.	Camp Sites in Harbor District - F.H. Racer
LA-11513	2011	Meyer, Donna M.	City of Carson Seismic Retrofit of Carson Senior High School. HMGP 1731-71-54, Finding of No Historic Properties
LA-12983	2014	Tang, Bai	Evaluation of Potential Historical Resource Carson Station, Los Angeles County Sheriff's Department Los Angeles County, California UltraSystems Environmental Project No. 5933

Report LA-04512

Cultural Resources Inventory of the City of Carson, California (Eggers 1977) documents the results of an inventory and evaluation of the cultural heritage resources located within the bounds of the City of Carson. The report was drafted by A.V. Eggers, consulting archaeologist, and consisted of an archival records search, literature review, pedestrian survey, data evaluation and report preparation. The study area overlaps 100% with the Project area. During the pedestrian survey, eight prehistoric resources were recorded and 15 historic-era resources were recorded or updated. Three of the cultural resources identified in support of this Project fall within the records search 1-mile radius of the currently proposed Project. Further, no Project-specific management recommendations were proposed for areas adjacent to the park or the other currently proposed work areas but instead reiterated current regulations regarding the treatment of cultural resources.

Table 2. Previously Recorded Cultural Resources Within 1 Mile of the Project Area

Primary Number	Trinomial	Age	Description	CRHR Eligibility
Outside of Project Area				
P-19-000098	CA-LAN-000098	Prehistoric	Suangna Native American Village	County Point of Historical Interest (1972)
P-19-000795	CA-LAN-000795	Prehistoric	Lithic scatter with shell, bone, and diagnostic artifacts	Not Evaluated
P-19-188395		Historic	Carson Terminal, Shell Oil Company	Recommended Not Eligible
P-19-189309		Historic	Carson Standpipes	Not Evaluated
P-19-189868		Historic	Carson Senior High School	Recommended Not Eligible

3.2 Archival Research

In addition to the SCCIC records search, Dudek conducted an online review of historical aerial photographs and historical topographic maps to better understand the development of the Project area and surrounding vicinity over time.

Historical Topographic Maps

Topographic maps depict elevation of the study area as well as the areas surrounding it and illustrate the location of roads and some buildings. Although topographic maps are not comprehensive, they are another tool in determining whether a study area has been disturbed. A review of available topographic maps was conducted and includes the following years: 1896, 1899, 1905, 1910, 1916, 1922, 1924, 1926, 1927, 1930, 1939, 1953, 1959, 1966, 1975, 1982, 2012, 2015, 2018, and 2021 (NETR 2025). The historical topographic map from 1930 reveals the first development around the Project area with the construction of East 220th Street, Wilmington Street, now East 223rd Street, Bonita Street, and South Edgar Street. The 1953 topographic map reveals two structures located within the Project area and the construction of the transmission line and corridor. The 1966 topographic map shows the construction of East Jay Street and East Fiat Street adjacent to the Project Area.

While topographic maps are informative, they do not illustrate the minute changes that can occur to a landscape over time and, at times, are inconsistent with what is depicted on the maps year to year. Most often, structures depicted in topographical maps are limited to those with community or social significance (e.g., firehouses or hospitals), including additions or changes to roads and/or waterways. Nonetheless, the information gathered contributes to the overall understanding of the chronological development of a study area but must be considered with these limitations in mind.

Historical Aerial Photographs

Historical aerial photographs of the Project area were available from 1952 to 2022 (NETR 2025). The 1952 historical aerial photograph revealed that the eastern portion of the Project area consisted of a concrete slab with two small structures present along East 220th Street. The central portion of the site, currently the large baseball field, consisted of a containment pond that extended north across East 220th Street. The western portion of the Project area, currently the transmission corridor, consisted of a fenced property with two structures and associated graded paths. The 1963 historical aerial photograph revealed that the Project area had been subdivided into three separate properties. The western property was consistent with the previous photograph, but the central and eastern properties were new construction containing numerous newly constructed structures. All three properties appear to be utilized for staging of used cars and other equipment, possibly junk yards. The concrete pad and containment pond were no longer present. Residential tract housing was also newly constructed to the north and south of the Project area, and commercial structures have been constructed to the east. The transmission corridor and associated lines are present within this photograph. The 1972 historical aerial photograph is consistent with the previous photograph with no new construction present. On the 1980 historical aerial photograph, the transmission corridor is still present, but the properties have been demolished and graded. The 1985 historical aerial photograph revealed that the park, with associated structures, tennis courts, parking lot and baseball fields, had been constructed. The 1987 to 2022 historical aerial photographs revealed that the Project area remains consistent with the 1985 photograph with only minor alterations being observed.

Review of Geotechnical Report

In 2025, a geotechnical investigation by Craftwater Engineering, Inc. was conducted in support of the proposed Project. The investigation included the drilling, logging, and sampling of four hand-auger borings ranging from 5 to 10 feet in depth and four hollow-stem-auger borings ranging from 2.5 to 20 feet in depth. These test borings were located throughout the Project area but generally occurred in areas of the proposed bioswale locations, and within or adjacent to the proposed underground basin and in-line structures. The results of these borings indicate that the Project is generally underlain by undocumented fill over alluvium. The fill was encountered at depths ranging from approximately 2.5 to 6 feet below surface that consist of moist, stiff, lean clay and moist, medium dense, clayey sand with various amounts of gravel and construction debris. The alluvium predominantly consists of fine deposits of lean clay, fat clay, and silt with few interbeds of silty sand, clayey sand, and sandy silt with various amounts of gravel. Past developments of the park site including various structures in the vicinity of the proposed improvements, including materials storage/junkyards. The extend of demolition and removal of these former structures and materials is unknown. Based on various amounts of debris encountered in the borings, including buried concrete and possible foundation remnants may be present in the undocumented fill (Craftwater Engineering, Inc. 2025:9). These soil characteristics are consistent with alluvial sediments, which have a moderate potential for supporting the presence of subsurface archaeological deposits.

3.3 Native American Heritage Commission and Tribal Correspondence

Dudek requested a NAHC search of the SLF on January 30, 2025, for the Project area. The SLF consists of a database of known Native American resources. These resources may not be included in the SCCIC database. The NAHC replied via email on February 11, 2025, stating that the SLF search was completed with negative results (Appendix B, NAHC Correspondence and Tribal Outreach). Additionally, the NAHC provided a list of Native American tribes and individuals/organizations with traditional geographic associations that might have knowledge of cultural resources in the Project area. To date, Dudek has not conducted any further outreach.

In compliance with Assembly Bill 52, the City, as lead agency, is responsible for conducting government-to-government consultation with pertinent tribal entities.

3.4 Intensive Pedestrian Survey

Dudek Archaeologist Ryan Glenn, MA, RPA, conducted a reconnaissance-level pedestrian survey of the Project area on January 17, 2025, using standard archaeological procedures and techniques that meet the Secretary of Interior's standards and guidelines for a cultural resources inventory. Wherever possible, the survey was conducted in parallel transects, spaced no more than 5 meters apart. Due to the majority of the Project area being fully developed with paved parking lots and existing structures, an opportunistic method of examining any visible ground surface was required. Where visible, the ground surface was examined for prehistoric artifacts (e.g., flaked stone tools, tool-making debris, stone milling tools, ceramics, fire-affected rock, imported marine shell), soil discoloration that might indicate the presence of a cultural midden, soil depressions, features indicative of the current or former presence of structures or buildings (e.g., standing exterior walls, post holes, foundations), and historic artifacts (e.g., metal, glass, ceramics, building materials). Ground disturbances such as rodent/reptile burrows and drainages were also visually inspected for exposed subsurface materials. All fieldwork was documented using field notes and an Apple iPad equipped with Esri Field Maps. Location-specific photographs were taken using an eighth-generation Apple iPad equipped with an 8 mega-pixel 1080p resolution camera and georeferenced PDF maps of the Project area. All field notes, photographs, and records related to the current study are on file at Dudek's Pasadena, California, office.

The Project area is a developed public park, with associated buildings, two baseball diamonds, ball courts, a paved parking lot, paved walkways, and associated infrastructure. When the survey was conducted, the Project area was more than 40% developed and covered with either pavement or buildings. Ground surface visibility within the existing Project area was variable, with none to fair visibility. Areas that provided some surface visibility included landscaped areas around and within the parking lot, open space south of the parking lot, and the baseball diamonds measuring approximately 98 meters by 122 meters. These areas contained both areas with no vegetation and areas with dense grasses and provided fair to good ground surface visibility.

The Project area sits within a generally flat area surrounded by residential track housing and Carnegie Middle School. The Project area mainly consists of paved concrete and hardscape associated with paths and tennis and basketball courts, landscaped planters, and a picnic area. Most of the natural exposed soils were observed within the outfields of the baseball diamonds. The soils consisted of light brown to brown, clay loam with sub angular and angular inclusions, less than 2 centimeters in size. A brown silty sand was also observed within the baseball

diamond area but is likely imported fill. No cultural resources were identified during the pedestrian survey of the Project area.

4 Summary and Management Considerations

4.1 Archaeological Recommendations

Dudek's cultural resources inventory of the Project indicates that there is moderate sensitivity for identifying subsurface archaeological deposits during Project implementation. A records search from the SCCIC did not identify any archaeological resources within the Project area, however there are previously recorded prehistoric resources located within the 1-mile record search radius. The intensive pedestrian survey did not identify any archaeological resources within the Project area, but due to the landscaping and grading that has occurred because of the development of the park it is difficult to determine the presence or absence of subsurface archaeological deposits based on surface observations.

Based on the results of the geotechnical analysis there is a possibility of encountering intact foundations over 50 years in age and the presence of alluvium, which has a moderate potential for supporting the presence of subsurface archaeological deposits. As a result, archaeological and Native American monitoring is recommended for the Project and the following measures are recommended to ensure that the potential for impacts to unknown cultural resources during proposed ground-disturbing construction activities would be appropriately addressed consistent with state and local requirements and guidelines.

Archaeological Monitoring

Prior to ground disturbance activities, the Applicant and/or subsequent responsible parties should retain a Principal Investigator/Archaeologist, meeting the Secretary of the Interior's Standards, and with experience in California prehistoric and historic resources (experience within Los Angeles County preferred), to complete the following: compose a Cultural Resource Monitoring and Inadvertent Discovery Plan (Plan), manage archaeological monitoring, and address any inadvertent discoveries identified during Project implementation. Proof of retainment of the Principal Investigator/Archaeologist should be provided to the City prior to the granting of a grading permit. The purpose of the Plan is to outline cultural monitoring (archaeological and Native American/tribal) protocols and a program of treatment and mitigation in the case of an inadvertent discovery of cultural (archaeological or Native American/tribal) resources during ground-disturbing phases and to provide for the proper identification, evaluation, treatment, and protection of any cultural resources in accordance with CEQA throughout the duration of the Project. Existence and importance of adherence to this Plan should be stated on all Project site plans intended for use by those conducting the ground-disturbing activities.

The Principal Investigator/Archaeologist should manage archaeological monitoring conducted by archaeological technicians during initial ground disturbances. Initial excavation is defined as initial construction-related earth moving of sediments from their place of deposition. As it pertains to cultural monitoring (archaeological or Native American/tribal), this definition excludes movement of sediments after they have been initially disturbed or displaced by Project-related construction. The retained Principal Investigator/Archaeologist should oversee and establish monitoring efforts as needed (increase, decrease, or discontinue monitoring frequency) based on the observed potential for construction activities to encounter cultural deposits or material. Project monitoring may be

adjusted based on observed surface conditions if sediments appear unlikely to contain buried intact cultural resources. The archaeological monitor should be responsible for maintaining daily monitoring logs. The requirement for archaeological monitoring should be noted on all construction plans to ensure implementation. Upon completion of all ground-disturbing activities, an archaeological monitoring report should be prepared within 60 days following completion of ground disturbance and submitted to the City for review. This report should document compliance with approved cultural mitigation, all monitoring efforts, and include an appendix with daily monitoring logs. The final report should be submitted to the City and the South Central Coastal Information Center.

Workers Environmental Awareness Program (WEAP) Training

All construction personnel and monitors who are not trained archaeologists should be briefed regarding unanticipated discoveries prior to the start of ground-disturbing activities. A basic presentation should be prepared and presented by a qualified archaeologist to inform all personnel working on the Project about the archaeological sensitivity of the area. The purpose of the WEAP training is to provide specific details on the kinds of archaeological materials that may be identified during construction of the Project and explain the importance of and legal basis for the protection of significant cultural (archaeological or Native American/tribal) resources. Each worker should also be instructed on the proper procedures to follow in the event that cultural resources or human remains are uncovered during ground-disturbing activities. These procedures include work curtailment or redirection, and the immediate contact of the on-call archaeologist and if appropriate, tribal representative. Necessity of training attendance should be stated on all Project site plans intended for use by those conducting the ground-disturbing activities.

Unanticipated Discovery of Archaeological Resources

In the event that archaeological resources (sites, features, or artifacts) are exposed during construction activities for the Project, all construction work occurring within 100 feet of the find shall immediately stop until a qualified archaeologist meeting the Secretary of the Interior's Professional Qualification Standards can evaluate the significance of the find. Construction activities may continue in other areas but should be redirected a safe distance from the find. If the new discovery is evaluated and found to be significant under CEQA and avoidance is not feasible, additional work such as data recovery may be warranted. A data recovery plan shall be developed by the qualified archaeologist in consultation with the City and Native American representatives, if applicable. Ground disturbance can continue only after the resources has been properly mitigated and with approval by the City.

Unanticipated Discovery of Human Remains

In accordance with Section 7050.5 of the California Health and Safety Code, if human remains are found, the County Coroner shall be immediately notified of the discovery. No further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent remains shall occur until the appropriate treatment and disposition of the human remains. If the County Coroner determines that the remains are, or are believed to be, Native American, he or she shall notify the NAHC in Sacramento within 24 hours. In accordance with California Public Resources Code Section 5097.98, the NAHC must immediately notify the person or persons it believes to be the MLD from the deceased Native American. The MLD shall complete inspection within 48 hours of being granted access to the site and make recommendations for the treatment and disposition, in consultation with the property owner, of the human remains.

Should you have any questions relating to this report and its findings, please do not hesitate to contact me at 626.204.9840 or rglenn@dudek.com.

Respectfully submitted,

Ryan J. Glenn, MA, RPA
Archaeological Principal Investigator

Att.: *Figure 1, Project Location*
Figure 2, Project Site and Existing Features
Figure 3, View of the Project area along East 220th Street, view facing west
Figure 4, View of the baseball fields within the Project area, view facing southwest
National Archaeological Database (NADB) Information
Confidential Appendix A, SCCIC Records Search Results
Appendix B, NAHC Correspondence and Tribal Outreach
cc: *Alex Hardy, Dudek; Haley Rundle, Dudek*

5 References

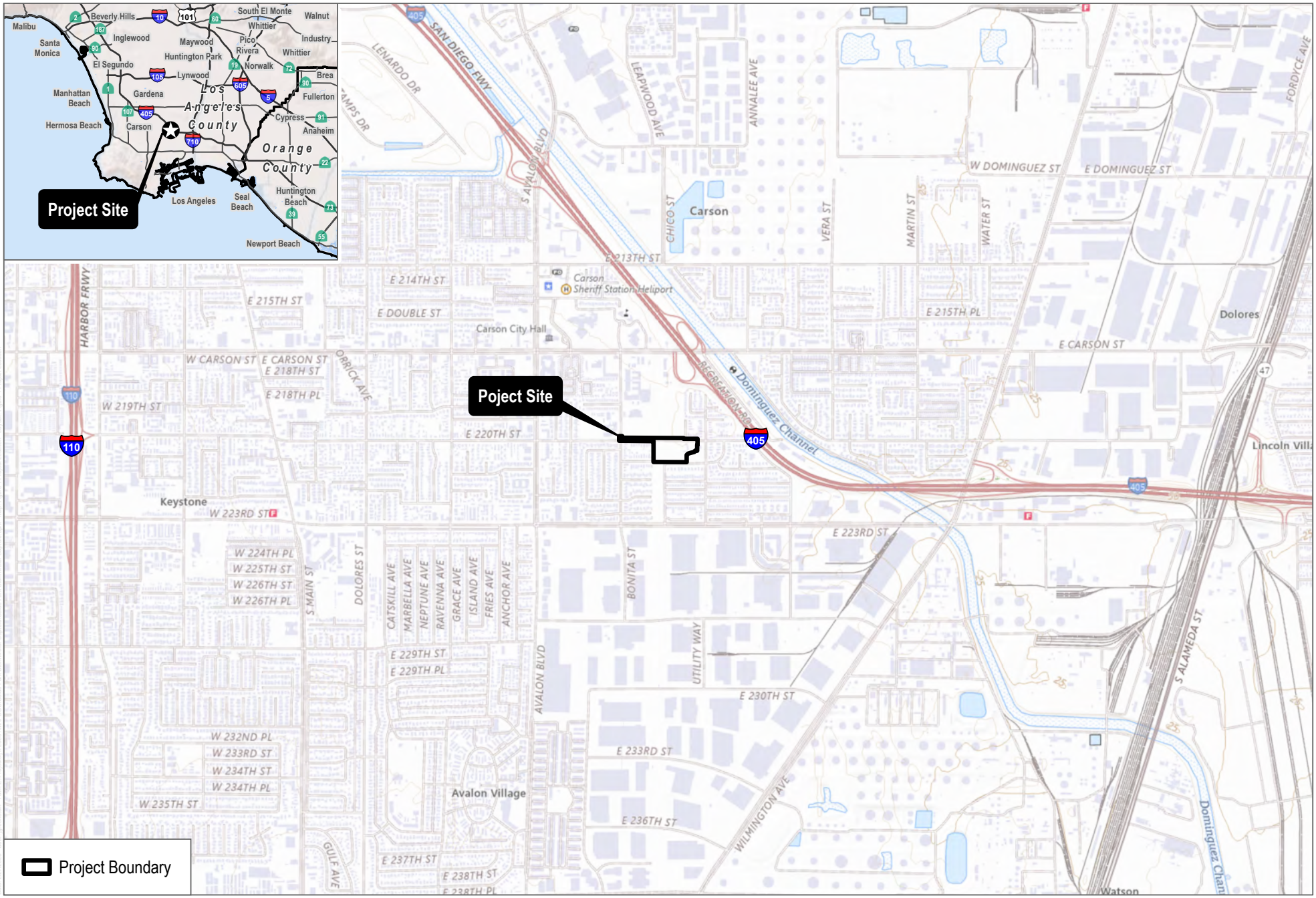
City of Carson. 2023. "Open Space and Environmental Conservation Element." Chapter 8 in *Carson 2040 General Plan*. Adopted April 4, 2023. Accessed February 26, 2025. https://www.carson2040.com/.

County of Los Angeles. 2015. "Conservation and Natural Resources Element." Chapter 9 in *Los Angeles County 2035 General Plan*. Adopted October 6, 2015. Accessed February 26, 2025. https://planning.lacounty.gov/long-range-planning/general-plan/.

Craftwater Engineering, Inc. 2025. *Geotechnical Evaluation Calas Park Stormwater and Water Quality Improvements Project 1000 E. 220th Street, Carson California*. Project Number 212807001. January 31, 2025.

Eggers, A.V. 1977. *Cultural Resources Inventory of the City of Carson, California*. Prepared for the Community Planning Department, City of Carson, California.

NETR (Nationwide Environmental Title Research). 2025. Address search for Calas Park, Carson, California. Accessed February 12, 2025. http://www.historicaerials.com/.



SOURCE: USGS National Map 2025

DUDEK

FIGURE 1

Project Location

Calas Park Stormwater Capture Project

SOURCE: Bing Maps 2024; Open Street Map 2024

DUDEK

0 75 150 Feet

FIGURE 2

Project Site and Existing Features

Calas Park Stormwater Capture Project

Figure 3. View of the Project area along East 220th Street, view facing west.

Figure 4. View of the baseball fields within the Project area, view facing southwest.

National Archaeological Database (NADB) Information

Authors:	Ryan J. Glenn, MA, RPA
Firm:	Dudek
Project Proponent:	City of Carson
Report Date:	April 2025
Report Title:	Cultural Resources Inventory Report for the Calas Park Stormwater Capture Project, City of Carson, California
Type of Study:	Cultural Resources Inventory
Resources:	None
USGS Quads:	Torrance, California, Township 4 South, Range 13 West, Sections 16 and 17
Acreage:	4.6
Permit Numbers:	N/A
Keywords:	Pedestrian Survey, Inventory, City of Carson, Calas Park Stormwater Capture, Negative for Archaeological Resources

Confidential Appendix A

SCCIC Records Search Results

Appendix B

NAHC Correspondence and Tribal Outreach

Sacred Lands File & Native American Contacts List Request

Native American Heritage Commission
1550 Harbor Blvd, Suite 100
West Sacramento, CA 95691
916-373-3710
916-373-5471 – Fax
nahc@nahc.ca.gov

Information Below is Required for a Sacred Lands File Search

Project: Calas Park Stormwater and Water Quality Improvements Project

County: Los Angeles

USGS Quadrangle Name: Torrance

Township: 4S **Range:** 13W **Section(s):** 16, 17

Company/Firm/Agency: Dudek

Street Address: 225 South Lake Avenue Suite M210

City: Pasadena **Zip:** 91101

Phone: (425) 213-2349

Fax:

Email: rglenn@dudek.com

Project Description:

The conceptual design of the project is to divert stormwater runoff from a storm drain in E. 220th Street (northeast of the park) and from storm drain inlets in Bonita Street at 223rd Street (southwest of the park). The captured stormwater runoff will flow through a pre-treatment unit (hydrodynamic separator) via a proposed conveyance system before entering an underground storage vault, which will facilitate infiltration into the underlying groundwater. In addition, the project proposes a passive irrigation system that will be filled with stormwater for irrigation use of the Calas Park field(s).

NATIVE AMERICAN HERITAGE COMMISSION

CHAIRPERSON
Reginald Pagaling
Chumash

VICE-CHAIRPERSON
Buffy McQuillen
Yokayo Pomo, Yuki, Nomlaki

SECRETARY
Sara Dutschke
Miwok

PARLIAMENTARIAN
Wayne Nelson
Luiseño

COMMISSIONER
Isaac Bojorquez
Ohlone-Costanoan

COMMISSIONER
Stanley Rodriguez
Kumeyaay

COMMISSIONER
Laurena Bolden
Serrano

COMMISSIONER
Reid Milanovich
Cahuilla

COMMISSIONER
Bennae Calac
Pauma-Yuima Band of Luiseño Indians

ACTING EXECUTIVE SECRETARY
Steven Quinn

NAHC HEADQUARTERS
1550 Harbor Boulevard
Suite 100
West Sacramento,
California 95691
(916) 373-3710
nahc@nahc.ca.gov

February 11, 2025

Ryan Glenn
Dudek

Via Email to: rglenn@dudek.com

Re: Calas Park Stormwater and Water Quality Improvements Project, Los Angeles County

To Whom It May Concern:

As requested, a record search of the Native American Heritage Commission (NAHC) Sacred Lands File (SLF) was completed based on information submitted for the above referenced project. The results were negative. Please note that tribes do not always record their sacred sites in the SLF, nor are they required to do so. As such, a SLF search is not a substitute for consultation with all tribes that are traditionally and culturally affiliated with a project's geographic area.

Attached is a list of Native American tribes who may also have knowledge of cultural resources in the project area. This list should provide a starting place in locating areas of potential adverse impact within the proposed project area. Please contact all of those listed; if they cannot supply information, they may recommend others with specific knowledge. If within two weeks of notification, a response has not been received, the Commission requests that you follow-up with a telephone call or email to ensure that the project information was received.

If you receive notification of a change of address or phone number from a tribe, please notify the NAHC so that we can assure that our lists contain current information.

In addition to engaging in tribal consultation, you should consult the appropriate regional California Historical Research Information System (CHRIS) archaeological Information Center to determine whether it has information regarding the presence of recorded archaeological sites within the project area.

If you have any questions or need additional information, please contact me at Andrew.Green@nahc.ca.gov.

Sincerely,

Andrew Green

Andrew Green
Cultural Resources Analyst

Attachment

Native American Heritage Commission
Native American Contact List
Los Angeles County
2/11/2025

Tribe Name	Contact Person	Contact Address	Phone #
Cahuilla Band of Indians	Erica Schenk, Chairperson	52701 CA Highway 371 Anza, CA, 92539	(951) 590-0942
Cahuilla Band of Indians	Anthony Madrigal, Tribal Historic Preservation Officer	52701 CA Highway 371 Anza, CA, 92539	(951) 763-5549
Cahuilla Band of Indians	BobbyRay Esparza, Cultural Director	52701 CA Highway 371 Anza, CA, 92539	(951) 763-5549
Gabrieleno Band of Mission Indians - Kizh Nation	Andrew Salas, Chairperson	P.O. Box 393 Covina, CA, 91723	(844) 390-0787
Gabrieleno Band of Mission Indians - Kizh Nation	Christina Swindall Martinez, Secretary	P.O. Box 393 Covina, CA, 91723	(844) 390-0787
Gabrieleno/Tongva San Gabriel Band of Mission Indians	Anthony Morales, Chairperson	P.O. Box 693 San Gabriel, CA, 91778	(626) 483-3564
Gabrielino Tongva Indians of California Tribal Council	Robert Dorame, Chairperson	P.O. Box 490 Bellflower, CA, 90707	(562) 761-6417
Gabrielino Tongva Indians of California Tribal Council	Christina Conley, Cultural Resource Administrator	P.O. Box 941078 Simi Valley, CA, 93094	(626) 407-8761
Gabrielino/Tongva Nation	Sandonne Goad, Chairperson	106 1/2 Judge John Aiso St., #231 Los Angeles, CA, 90012	(951) 807-0479

Native American Heritage Commission
Native American Contact List
Los Angeles County
2/11/2025

Gabrielino-Tongva Tribe	Charles Alvarez, Chairperson	23454 Vanowen Street West Hills, CA, 91307	(310) 403-6048
Gabrielino-Tongva Tribe	Sam Dunlap, Cultural Resource Director	P.O. Box 3919 Seal Beach, CA, 90740	(909) 262-9351
Santa Rosa Band of Cahuilla Indians	Vanessa Minott, Tribal Administrator	P.O. Box 391820 Anza, CA, 92539	(951) 659-2700
Santa Rosa Band of Cahuilla Indians	Steven Estrada, Tribal Chairman	P.O. Box 391820 Anza, CA, 92539	(951) 659-2700
Soboba Band of Luiseno Indians	Joseph Ontiveros, Tribal Historic Preservation Officer	P.O. Box 487 San Jacinto, CA, 92581	(951) 663-5279
Soboba Band of Luiseno Indians	Jessica Valdez, Cultural Resource Specialist	P.O. Box 487 San Jacinto, CA, 92581	(951) 663-6261

This list is current only as of the date of this document. Distribution of this list does not relieve any p
Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resources Code and S

This list is only applicable for contacting local Native Americans with regard to cultural resources

Email Address	Cultural Affiliation	Last Updated
chair@cahuilla-nsn.gov	Cahuilla	2/1/2024
anthonymad2002@gmail.com	Cahuilla	6/28/2023
besparza@cahuilla-nsn.gov	Cahuilla	6/28/2023
admin@gabrielenoindians.org	Gabrieleno	8/18/2023
admin@gabrielenoindians.org	Gabrieleno	8/18/2023
GTTribalcouncil@aol.com	Gabrieleno	12/4/2023
gtongva@gmail.com	Gabrielino	3/16/2023
christina.marsden@alumni.usc.edu	Gabrielino	3/16/2023
sgoad@gabrielino-tongva.com	Gabrielino	3/28/2023

Chavez1956metro@gmail.com	Gabrielino	5/30/2023
tongvatcr@gmail.com	Gabrielino	5/30/2023
vminott@santarosa-nsn.gov	Cahuilla	4/8/2024
sestrada@santarosa-nsn.gov	Cahuilla	4/8/2024
jontiveros@soboba-nsn.gov	Cahuilla Luiseno	7/14/2023
jvaldez@soboba-nsn.gov	Cahuilla Luiseno	7/14/2023

person of statutory responsibility as defined in
Section 5097.98 of the Public Resources Code.

s assessment for the proposed Calas Park

Appendix E
Energy Calculations

Construction Energy

Source	Percent	Total MTCO2	Gallons Diesel	Gallons Gasoline
2026				
Off-road	89.2%	164	16,015	
Electricity	0.0%	0		
Worker	3.6%	7		752
Vendor	1.9%	3	341	
Hauling	5.3%	10	952	
Onsite Truck	0.0%	0	0	
Total	100.0%	*183*	*17,308*	*752*
				18,060

Source	Percent	Total MTCO2	Gallons Diesel	Gallons Gasoline
2027				
Off-road	88.0%	431	42,176	
Electricity	0.0%	0		
Worker	5.1%	25		2,842
Vendor	1.7%	8	815	
Hauling	5.2%	25	2,492	
Onsite Truck	0.0%	0	0	
Total	100.0%	*489*	*45,483*	*2,842*
				48,326

Source	Gallons Diesel	Gallons Gasoline
Total (2026+2027)		
Off-road	58,192	0
Worker	0	3,594
Vendor	1,156	0
Hauling	3,444	0
Total	*62,792*	*3,594*
Total Petroleum	*66,386*	

Project Operation

15

Source	Total MTCO2	Gallons Diesel	Gallons Gasoline
Mobile	7.9	159	720
		kWh/year	
Electricity	13.6	86,585	
Total	*21.5*		

Appendix F

Confidential Paleontological Resources Record Search

Appendix G
Noise Assessment Data

FORMS DUDEK FIELD DATA REPORT

Field Noise Measurement Data

Record: 2044	
Project Name	*Calas park*
Observer(s)	
Date	*2025-02-20*

Meteorological Conditions	
Temp (F)	*71*
Humidity % (R.H.)	*50*
Wind	*Light*
Wind Speed (MPH)	*3*
Wind Direction	*North East*
Sky	*Clear*

Instrument and Calibrator Information	
Instrument Name List	*(ENC) Rion NL-52*
Instrument Name	*(ENC) Rion NL-52*
Instrument Name Lookup Key	*(ENC) Rion NL-52*
Manufacturer	*Rion*
Model	*NL-52*
Serial Number	*553896*
Calibrator Name	*(ENC) LD CAL150*

Calibrator Name	*(ENC) LD CAL150*
Calibrator Name Lookup Key	*(ENC) LD CAL150*
Calibrator Manufacturer	*Larson Davis*
Calibrator Model	*LD CAL150*
Calibrator Serial #	*5152*
Pre-Test (dBA SPL)	*94.1*
Post-Test (dBA SPL)	*94*
Windscreen	*Yes*
Weighting?	*A-WTD*
Slow/Fast?	*Slow*

Monitoring	
Record #	*1*
Site ID	*ST2*
Site Location Lat/Long	*33.827296, -118.257621*
Begin (Time)	*12:37:00*
End (Time)	*12:52:00*
Leq	*54.7*
Lmax	*75.9*
Lmin	*47.7*
Other Lx?	*L90, L50, L10*
L90	*49.1*
L50	*51.7*

L10	*57.3*
Other Lx (Specify Metric)	*L*
Primary Noise Source	*Traffic*
Other Noise Sources (Background)	*Birds, Distant Aircraft, Distant Conversations / Yelling, Distant Dog Barking, Distant Gardener / Landscape Noise, Rustling Leaves*
Is the same instrument and calibrator being used as previously noted?	*Yes*
Are the meteorological conditions the same as previously noted?	*Yes*

Description / Photos

Site Photos

Photo	
Comments / Description	*Facing west*

Site Photos

Photo	
Comments / Description	*Facing south*

Site Photos

Photo	
Comments / Description	*Facing south*

Monitoring	
Record #	*2*
Site ID	*ST3*
Site Location Lat/Long	*33.826710, -118.257162*
Begin (Time)	*12:54:00*
End (Time)	*13:09:00*
Leq	*52.1*
Lmax	*65.7*
Lmin	*46.8*
Other Lx?	*L90, L50, L10*
L90	*47.6*
L50	*49.1*
L10	*54.4*
Other Lx (Specify Metric)	*L*
Primary Noise Source	*Traffic*
Other Noise Sources (Background)	*Birds, Distant Conversations / Yelling, Distant Gardener / Landscape Noise, Rustling Leaves*
Is the same instrument and calibrator being used as previously noted?	*Yes*
Are the meteorological conditions the same as previously noted?	*Yes*

Description / Photos

Site Photos

Photo	
Comments / Description	*Facing north*

Site Photos

Photo	

Comments / Description	*Facing south*

Site Photos	
Photo	
Comments / Description	*Facing east*

Monitoring	
Record #	*3*
Site ID	*ST1*
Site Location Lat/Long	*33.827917, -118.255908*
Begin (Time)	*13:12:00*
End (Time)	*13:27:00*
Leq	*59.6*
Lmax	*74.7*

Lmin	*47.4*
Other Lx?	*L90, L50, L10*
L90	*48.5*
L50	*51.7*
L10	*62.3*
Other Lx (Specify Metric)	*L*
Primary Noise Source	*Traffic*
Other Noise Sources (Background)	*Birds, Distant Aircraft, Distant Gardener / Landscape Noise*
Is the same instrument and calibrator being used as previously noted?	*Yes*
Are the meteorological conditions the same as previously noted?	*Yes*

Source Info and Traffic Counts	
Number of Lanes	*2*
Lane Width (feet)	*10*
Roadway Width (feet)	*20*
Roadway Width (m)	*6.1*
Distance to Roadway (feet)	*10*
Distance to Roadway (m)	*3*
Distance Measured to Centerline or Edge of Pavement?	*Centerline*
Estimated Vehicle Speed (MPH)	*0*

Traffic Counts

Vehicle Count Summary	*A 11, MT 0, HT 0, B 0, MC 0*
Counting Both Directions?	*Yes*
Count Duration (minutes)	*0*
Vehicle Count Tally	
Select Method for Vehicle Counts	*Enter Manually*
Number of Vehicles - Autos	*11*
Number of Vehicles - Medium Trucks	*0*
Number of Vehicles - Heavy Trucks	*0*
Number of Vehicles - Buses	*0*
Number of Vehicles - Motorcyles	*0*

Description / Photos

Site Photos

Photo

Comments / Description	*Facing east*

Site Photos

Photo	
Comments / Description	*Facing west*

Site Photos

Photo	

Comments / Description	*Facing south*

To User: bordered cells are inputs, unbordered cells have formulae

noise level limit for construction phase at residential land use, per City of Carson = 75

allowable hours over which Leq is to be averaged = 8

= temporary barrier (TB) of input height inserted between source and receptor

Construction Activity	Equipment	Total Equipment Qty	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Client Equipment Description, Data Source and/or Notes	Source to NSR Distance (ft.)	*Temporary Barrier Insertion Loss (dB)*	*Additional Noise Reduction*	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 8-hour Leq	Source Elevation (ft)	Receiver Elevation (ft)	Barrier Height (ft)	Source to Barr. ("A") Horiz. (ft)	Rcvr. to Barr. ("B") Horiz. (ft)	Source to Rcvr. ("C") Horiz. (ft)	"A" (ft)	"B" (ft)	"C" (ft)	Path Length Diff. "P" (ft)	Abarr (dB)	Heff (with barrier)	Heff (wout barrier)	G (with barrier)	G (without barrier)	ILbarr (dB)
Demolition	dozer	2	40	82		200	0.1		66.0	8	480	65	5	5	0	195	5	200	195.1	7.1	200.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	Front End Loader	1	40	79		200	0.1		63.0	8	480	59	5	5	0	195	5	200	195.1	7.1	200.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	Jackhammer	2	20	85		200	0.1		69.0	8	480	65	5	5	0	195	5	200	195.1	7.1	200.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
									Total for Demolition Phase:			**68.5**																
Site Preparation	dozer	3	40	82		200	0.1		66.0	8	480	67	5	5	0	195	5	200	195.1	7.1	200.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	Grader	1	40	85		200	0.1	5.0	64.0	8	480	60	5	5	0	195	5	200	195.1	7.1	200.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	backhoe	4	40	78		200	0.1		62.0	8	480	64	5	5	0	195	5	200	195.1	7.1	200.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
									Total for Site Preparation Phase:			**69.2**																
Underground Stromwater Storage system excavation	dozer	2	40	82		200	0.1		66.0	7	420	64	5	5	0	195	5	200	195.1	7.1	200.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	front end loader	2	40	79		200	0.1		63.0	8	480	62	5	5	0	195	5	200	195.1	7.1	200.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	backhoe	3	40	78		200	0.1		62.0	8	480	63	5	5	0	195	5	200	195.1	7.1	200.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
									Total for Underground Stromwater Storage system excavation Phase:			**68.0**																
Underground stormwater storage system construction	crane	1	16	81		200	0.1		65.0	8	480	57	5	5	0	195	5	200	195.1	7.1	200.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	dozer	2	40	82		200	0.1	6.0	60.0	8	480	59	5	5	0	195	5	200	195.1	7.1	200.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	front end loader	2	40	79		200	0.1		63.0	8	480	62	5	5	0	195	5	200	195.1	7.1	200.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
									Total for Underground stormwater storage system construction Phase:			**64.6**																
Storm drain diversion and pretreatment	crane	1	16	81		200	0.1		65.0	8	480	57	5	5	0	195	5	200	195.1	7.1	200.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	excavator	2	40	81		200	0.1	6.0	59.0	8	480	58	5	5	0	195	5	200	195.1	7.1	200.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	front end loader	2	40	79		200	0.1		63.0	8	480	62	5	5	0	195	5	200	195.1	7.1	200.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
									Total for Storm drain diversion and pretreatment Phase:			**64.4**																
Outlet Line	dozer	2	40	82		200	0.1		66.0	8	480	65	5	5	0	195	5	200	195.1	7.1	200.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1

To User: bordered cells are inputs, unbordered cells have formulae

0.0314663

noise level limit for construction phase at residential land use, per City of Carson = 65

allowable hours over which Leq is to be averaged = 8

= temporary barrier (TB) of input height inserted between source and receptor

Construction Activity	Equipment	Total Equipment Qty	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Client Equipment Description, Data Source and/or Notes	Source to NSR Distance (ft.)	*Temporary Barrier Insertion Loss (dB)*	*Additional Noise Reduction*	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 8-hour Leq	Source Elevation (ft)	Receiver Elevation (ft)	Barrier Height (ft)	Source to Barr. ("A") Horiz. (ft)	Rcvr. to Barr. ("B") Horiz. (ft)	Source to Rcvr. ("C") Horiz. (ft)	"A" (ft)	"B" (ft)	"C" (ft)	Path Length Diff. "P" (ft)	Abarr (dB)	Heff (with barrier)	Heff (wout barrier)	G (with barrier)	G (without barrier)	ILbarr (dB)
Demolition	dozer	1	40	82		50	0.1		81.9	1	60	69	5	5		45	5	50	45.3	7.1	50.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	Front End Loader	1	40	79		50	0.1		78.9	1	60	66	5	5		45	5	50	45.3	7.1	50.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	Jackhammer	1	20	85		50	0.1		84.9	1	60	69	5	5		45	5	50	45.3	7.1	50.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
									Total for Demolition Phase:			72.9																
Site Preparation	dozer	1	40	82		50	12.7		69.3	1	60	56	5	5	8	45	5	50	45.1	5.8	50.0	0.93	12.7	13.0	5.0	0.5	0.7	12.7
	Grader	1	40	85		50	12.7		72.3	1	60	59	5	5	8	45	5	50	45.1	5.8	50.0	0.93	12.7	13.0	5.0	0.5	0.7	12.7
	backhoe	1	40	78		50	12.7		65.3	1	60	52	5	5	8	45	5	50	45.1	5.8	50.0	0.93	12.7	13.0	5.0	0.5	0.7	12.7
									Total for Site Preparation Phase:			61.6																
Underground Stromwater Storage system excavation	dozer	1	40	82		150	0.1		69.0	4	240	62	5	5		5	145	150	7.1	145.1	150.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	front end loader	1	40	79		150	0.1		66.0	4	240	59	5	5		5	145	150	7.1	145.1	150.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	backhoe	1	40	78		150	0.1		65.0	4	240	58	5	5		5	145	150	7.1	145.1	150.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
									Total for Underground Stromwater Storage system excavation Phase:			64.8																
Underground stormwater storage system construction	crane	1	16	81		150	0.1		68.0	4	240	57	5	5		5	145	150	7.1	145.1	150.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	dozer	1	40	82		150	0.1		69.0	4	240	62	5	5		5	145	150	7.1	145.1	150.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	front end loader	1	40	79		150	0.1		66.0	4	240	59	5	5		5	145	150	7.1	145.1	150.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
									Total for Underground stormwater storage system construction Phase:			64.6																
Storm drain diversion and pretreatment	crane	1	16	81		50	12.7		68.3	2	120	54	5	5	8	45	5	50	45.1	5.8	50.0	0.93	12.7	13.0	5.0	0.5	0.7	12.7
	excavator	1	40	81		50	12.7		68.3	2	120	58	5	5	8	45	5	50	45.1	5.8	50.0	0.93	12.7	13.0	5.0	0.5	0.7	12.7
	front end loader	1	40	79		50	12.7		66.3	2	120	56	5	5	8	45	5	50	45.1	5.8	50.0	0.93	12.7	13.0	5.0	0.5	0.7	12.7
									Total for Storm drain diversion and pretreatment Phase:			61.3																
Outlet Line	dozer	1	40	82		50	12.7		69.3	2	120	59	5	5	8	45	5	50	45.1	5.8	50.0	0.93	12.7	13.0	5.0	0.5	0.7	12.7

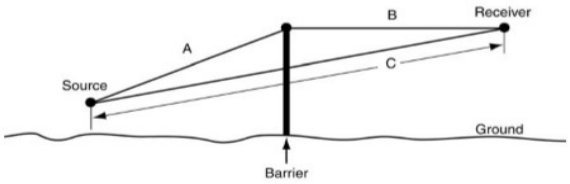
Equipment Description	Impact Device?	Acoustical Use Factor (%)	Lesser of or available Lmax	Spec. 721 Lmax	Measured L_{max} @50ft (dBA, slow)
All Other Equipment > 5 HP	No	50	85	85	-- N/A --
Auger Drill Rig	No	20	84	85	84
Backhoe	No	40	78	80	78
Bar Bender	No	20	80	80	-- N/A --
Blasting	Yes	-- N/A --	94	94	-- N/A --
Boring Jack Power Unit	No	50	80	80	83
Chain Saw	No	20	84	85	84
Clam Shovel (dropping)	Yes	20	87	93	87
Compactor (ground)	No	20	80	80	83
Compressor (air)	No	40	78	80	78
Concrete Batch Plant	No	15	83	83	-- N/A --
Concrete Mixer Truck	No	40	79	85	79
Concrete Pump Truck	No	20	81	82	81
Concrete Saw	No	20	90	90	90
Crane	No	16	81	85	81
Dozer	No	40	82	85	82
Drill Rig Truck	No	20	79	84	79
Drum Mixer	No	50	80	80	80
Dump Truck	No	40	76	84	76
Excavator	No	40	81	85	81
Flat Bed Truck	No	40	74	84	74
Front End Loader	No	40	79	80	79
Generator	No	50	72	72	81
Generator (<25KVA, VMS signs)	No	50	70	70	73
Gradall	No	40	83	85	83
Grader	No	40	85	85	-- N/A --
Grapple (on backhoe)	No	40	85	85	87
Horizontal Boring Hydr. Jack	No	25	80	80	82
Hydra Break Ram	Yes	10	90	90	-- N/A --
Impact Pile Driver	Yes	20	95	95	101
Jackhammer	Yes	20	85	85	89
Man Lift	No	20	75	85	75
Mounted Impact Hammer (hoe ram)	Yes	20	90	90	90
Pavement Scarafier	No	20	85	85	90
Paver	No	50	77	85	77
Pickup Truck	No	40	55	55	75
Pneumatic Tools	No	50	85	85	85
Pumps	No	50	77	77	81
Refrigerator Unit	No	100	73	82	73
Rivit Buster/chipping gun	Yes	20	79	85	79
Rock Drill	No	20	81	85	81
Roller	No	20	80	85	80
Sand Blasting (Single Nozzle)	No	20	85	85	96
Scraper	No	40	84	85	84
Shears (on backhoe)	No	40	85	85	96
Slurry Plant	No	100	78	78	78
Slurry Trenching Machine	No	50	80	82	80
Soil Mix Drill Rig	No	50	80	80	-- N/A --
Tractor	No	40	84	84	-- N/A --
Vacuum Excavator (Vac-truck)	No	40	85	85	85
Vacuum Street Sweeper	No	10	80	80	82
Ventilation Fan	No	100	79	85	79
Vibrating Hopper	No	50	85	85	87
Vibratory Concrete Mixer	No	20	80	80	80
Vibratory Pile Driver	No	20	95	95	101
Warning Horn	No	5	83	85	83
Welder / Torch	No	40	73	73	74

$Source_{elev}$	5.0	A_{horiz}	24.0	A	25.0
$Receiver_{elev}$	10.0	B_{horiz}	38.0	B	38.1
C	62.2	C_{horiz}	62.0		
P	0.85				
$Barrier_{elev}$	12				
Abarr	12.3				

The above calculations, refering to inputs from the figure at right, helps a user estimate what barrier attenuation (Abarr) to expect (i.e., up to 15 per formula to right) based upon source height (above grade), barrier height, and receiver height, and the horizontal distances between the source and receiver to the barrier. The FTA-based formula in the worksheets use these path length (P) and Abarr values to determine the barrier's insertion loss.

Barrier Parameter P

P= A+B-C



For all other barriers, and for protrusion of terrain above the line of sight:	$A_{barrier} = \min\left\{15 or\left[20\times\log\left(\frac{2.51\sqrt{P}}{\tanh\left[4.46\sqrt{P}\right]}\right)+5\right]\right\}$
Barrier Insertion Loss	$IL_{barrier} = \max\left\{0 or\left[A_{barrier} - 10(G_{NB} - G_B)\log\left(\frac{D}{50}\right)\right]\right\}$

D = closest distance between the receiver and the source, in feet
P = path length difference, in feet (see figure below)
G_{NB} = Ground factor G computed *without barrier* (see Figure 6-5)
G_B = Ground factor G computed *with barrier* (see Figure 6-5)

† The term "tanh(variable)" stands for hyperbolic tangent, available on many scientific calculators. If "tanh" is not available, then compute E = exp(variable), and set tanh(variable) = (E - 1/E) / (E + 1/E), where exp(variable) is the "exponential" function, also written as e^x on calculator keypads.

Sources: Transit Noise & Vibration Impact Assessment (FTA 2006)

11/26/21, MCS:
the calculations herein assume the "In General" calculation of Heff per Figure 6-5, which then allows a calculation of "G" with and without barrier.

Notice of Determination **Appendix D**

To:

■ Office of Planning and Research

U.S. Mail: P.O. Box 3044 Sacramento, CA 95812-3044

Street Address: 1400 Tenth St., Rm 113 Sacramento, CA 95814

■ County Clerk

County of: Los Angeles

Address: 12400 Imperial Highway Norwalk, CA 90650

From:

Public Agency: City of Carson

Address: 701 East Carson Street Carson, CA 90745

Contact: Roland Jen

Phone: 310.847.3544

Lead Agency (if different from above): Same as above

Address:

Contact:

Phone:

SUBJECT: Filing of Notice of Determination in compliance with Section 21108 or 21152 of the Public Resources Code.

State Clearinghouse Number (if submitted to State Clearinghouse): 2025100949

Project Title: Calas Park Stormwater and Water Quality Improvements Supplemental Environmental Project

Project Applicant: City of Carson; 701 East Carson Street, Carson, CA 90745
(Name and Address)

Project Applicant Contact: Roland Jen, Stormwater Engineer
(Name/Title)

310.847.3544, rjen@carsonca.gov
(Phone) (Email)

Project Location (include county): Carson, Los Angeles County

Project Description:

The project entails constructing and operating a stormwater capture and treatment facility within the northern portion of Calas Park, as well as other ancillary park improvements. The project is the result of the 2023 Settlement Agreement and Stipulation Order No. R4-2023-0088 between the Los Angeles County Sanitation Districts and the Los Angeles Regional Water Quality Control Board.

This is to advise that the City of Carson has approved the above
(■ Lead Agency or ☐ Responsible Agency)

described project on _____ and has made the following determinations regarding the above
(date)
described project.

1. The project [☐ will ■ will not] have a significant effect on the environment.
2. ☐ An Environmental Impact Report was prepared for this project pursuant to the provisions of CEQA.
   ■ A Negative Declaration was prepared for this project pursuant to the provisions of CEQA.
3. Mitigation measures [■ were ☐ were not] made a condition of the approval of the project.
4. A mitigation reporting or monitoring plan [■ was ☐ was not] adopted for this project.
5. A statement of Overriding Considerations [☐ was ■ was not] adopted for this project.
6. Findings [☐ were ■ were not] made pursuant to the provisions of CEQA.

This is to certify that the final EIR with comments and responses and record of project approval, or the negative Declaration, is available to the General Public at:
Carson City Hall, Planning Division; 701 East Carson Street, Carson, CA 90745

Signature (Public Agency): _____ Title: _____

Date: _____ Date Received for filing at OPR: _____

Authority cited: Sections 21083, Public Resources Code.
Reference Section 21000-21174, Public Resources Code.

AGREEMENT No. _____

LACFCD Project No. 9803 Bonita Street Concrete Conduit
(BI-9803 Unit 1 Line B) &
LACRD Project No. CI 2262-M Joel St. Et. Al Improvements
AIN: 7332-004-900 & 7332-004-905
SUPERVISORY DISTRICT #

USE AND MAINTENANCE AGREEMENT

This USE AND MAINTENANCE AGREEMENT (hereinafter referred to as AGREEMENT), is made and entered by and between the Los Angeles County Flood Control District, a body corporate and politic (hereinafter referred to as DISTRICT), and the City of Carson, a municipal corporation (hereinafter referred to as OWNER). DISTRICT and OWNER are collectively referred to as PARTIES.

RECITALS

WHEREAS, OWNER proposes to construct the Calas Park Stormwater Capture Project (hereinafter referred to as PROJECT); to treat and recharge incoming stormwater and urban runoff to enhance water quality and provide public recreational amenities;

WHEREAS, DISTRICT owns and operates storm drain(s) known as Project No. 9803 Unit 1 Line B and Joel Street Et Al Project No, C.I. 2262-M and associated right of way, hereinafter collectively referred to as DISTRICT FACILITIES;

WHEREAS, the following portions of the PROJECT (hereinafter referred to as IMPROVEMENTS), depicted in Exhibit A, are proposed to be located within DISTRICT FACILITIES:

- Diversion structure located within the LACFCD Bonita Street Concrete Conduit (BI 9803) Unit 1 Line B located at STA 43+78.35
- Diversion structure located at LACRD Project No. C.I. 2262-M Joel Street Et. Al Improvements at STA 19+93.90
- Diversion structure located at LACRD Project No. C.I. 2262-M Joel Street Et. Al Improvements at on the 24” RCP outflow pipe at STA 7+62.55

WHEREAS, the DISTRICT will issue permit number FCDP2023000228, (hereinafter referred to as PERMIT), upon execution of this AGREEMENT to the OWNER for construction of the IMPROVEMENTS;

NOW, THEREFORE, in consideration of the foregoing recitals, the mutual agreements contained herein, and for other good and valuable consideration, the receipt of which is hereby acknowledged, the PARTIES agree as follows:

SECTION 1: Authorized Use

1.1. The OWNER is authorized and permitted to use the DISTRICT FACILITIES for the construction, operation, maintenance, and repair of the IMPROVEMENTS in accordance with the terms and conditions of this AGREEMENT and PERMIT. Any other use of the DISTRICT FACILITIES or any portion thereof by the OWNER is expressly prohibited.

1.2. The OWNER is authorized and permitted to take access through the DISTRICT FACILITIES and associated DISTRICT property in accordance with and as depicted in Exhibit B, for the purpose of construction and maintenance of the IMPROVEMENTS.

1.3. The OWNER's use of the DISTRICT FACILITIES in connection with the PROJECT shall be nonexclusive and shall be subordinate to the uses of the DISTRICT FACILITIES by the DISTRICT, and the OWNER's use of the DISTRICT FACILITIES shall at no time interfere with the DISTRICT's use of the DISTRICT FACILITIES or the DISTRICT's use of its adjacent property.

1.4. This AGREEMENT is valid only to the extent of the DISTRICT's jurisdiction. The OWNER shall be responsible for obtaining authorization from other affected persons or agencies with property rights over the PROJECT area, and the consent of the underlying fee owner(s), as necessary.

SECTION 2: Construction and Implementation of PROJECT

2.1. The OWNER understands and acknowledges that it is required to comply with the California Environmental Quality Act (hereinafter referred to as CEQA) prior to implementing the PROJECT and that the OWNER shall be the lead agency with respect to any and all CEQA compliance related to the PROJECT. In addition to its other indemnification obligations as specified below, the OWNER hereby agrees to indemnify, defend, and hold harmless the DISTRICT and their elected and appointed officers, employees, and agents from and against any and all claims and/or actions related to the PROJECT that may be asserted by a third party or public agency alleging violations of CEQA or the CEQA Guidelines.

2.2 The OWNER is responsible for obtaining and complying with any permits or approvals required by agencies (federal, state and local) with regulatory jurisdiction over the construction and maintenance of the PROJECT and for all costs associated with obtaining and complying with the requirements and conditions of such permits or approvals including, by way of example, permit fees and compensatory mitigation expenses. The DISTRICT shall not be responsible for any costs associated with the construction of the PROJECT. In addition to its other indemnification obligations in Section 7 below, the OWNER hereby agrees to indemnify, defend, and hold harmless the DISTRICT and their elected and appointed officers, employees, and agents from and against all claims and/or actions related to the PROJECT that may be asserted by a public agency or third-party alleging violations of federal, state, or local laws, rules or regulations.

2.3. Upon completion of the construction of the PROJECT, the OWNER shall provide to the DISTRICT a complete set of the as-built plans for the PROJECT in an electronic format as specified by the DISTRICT. In addition, the OWNER shall provide geographic information system (hereinafter referred to as GIS) shapefiles for all maps depicting the PROJECT.

SECTION 3: Operation and Maintenance of IMPROVEMENTS

3.1. The OWNER shall prepare an operation and maintenance manual (hereinafter referred to as O&M MANUAL) describing the operation, maintenance, and inspection practices, all permits required by federal, state or local regulatory agencies, and procedures and standards for the PROJECT components located on property of the DISTRICT, including maintenance schedules, identification of any specialty maintenance service providers, equipment usage, and a maintenance log sheet.

3.1.1. The OWNER shall not commence any work authorized by this permit until it has submitted a draft of the O&M MANUAL to the DISTRICT and the DISTRICT has approved the draft.

3.1.2. The DISTRICT shall provide the OWNER with comments on the draft O&M MANUAL within a reasonable timeframe of submittal.

3.1.3. The OWNER shall incorporate any and all reasonable comments submitted by the DISTRICT and shall deliver a final version of the O&M MANUAL to the DISTRICT prior to completion of work authorized by this permit. If the PARTIES cannot agree as to whether the DISTRICT's comments shall be incorporated, the

PARTIES shall meet and confer in good faith to resolve such disagreement.

3.1.4. The work authorized by this permit shall not be deemed complete until the OWNER has delivered the final version of the O&M MANUAL to the DISTRICT as described above.

3.2. Discharges from the PROJECT shall comply with the following:

3.2.1 The OWNER shall not discharge any non-stormwater from the PROJECT to the DISTRICT FACILITIES or to any other storm drain owned or operated by the DISTRICT unless authorized by a permit to do so from the State Water Resources Control Board, the Los Angeles Regional Water Quality Control Board (Regional Board), or express written permission from the Executive Officer of the Regional Board. The OWNER shall provide a copy of any such permit or express written permission to the DISTRICT prior to discharging any non-stormwater from the PROJECT to the DISTRICT FACILITIES or to any other storm drains owned or operated by the DISTRICT.

3.2.2 The DISTRICT shall establish notification and monitoring requirements for discharges from the PROJECT to the DISTRICT FACILITIES or to any other storm drains owned or operated by the DISTRICT and shall notify OWNER of these requirements in writing not later than the date DISTRICT provides the OWNER with comments on the draft O&M MANUAL and the OWNER shall comply with the requirements described in the written notice from the DISTRICT.

3.2.3. The DISTRICT may periodically update or revise the notification and monitoring requirements described in subsection 3.2.2 as the DISTRICT deems necessary to address changes in its MS4 Permit or other regulatory requirements or its operational requirements. The DISTRICT shall provide written notice to the OWNER of any updated or revised requirements and the OWNER shall comply with the updated or revised requirements immediately upon receipt of the written notice from the DISTRICT.

3.3. The OWNER shall, upon completion of construction, be responsible for the operation, maintenance, and repair of the IMPROVEMENTS in accordance with the terms and conditions of this AGREEMENT and the provisions of the O&M MANUAL.

3.4. The DISTRICT shall not be responsible for any costs associated with the operation and maintenance of the IMPROVEMENTS, including but not limited to, any costs related to repairs and/or replacement of components and obtaining, complying with and renewing as necessary all permits and approvals required by federal, state or local regulatory agencies.

3.5. The OWNER shall operate and maintain the IMPROVEMENTS in a safe, clean, and orderly condition, and in compliance with the O&M MANUAL and all applicable federal and state laws, rules and regulations, local ordinances (including the Los Angeles County Flood Control District Code) and applicable regulatory permits.

3.6. The OWNER shall be responsible to inspect the IMPROVEMENTS and clear any obstructions, sediment, or debris that may interfere with the proper functioning of the DISTRICT FACILITIES, including upstream and downstream of all connections to the DISTRICT FACILITIES. The limits of the OWNER's responsibility under this subsection shall be up to 100 feet for open channels and up to 50 feet for covered storm drains, from ends of connections in both directions as directed by the DISTRICT, at the DISTRICT's sole discretion. The OWNER shall take appropriate measures to make sure sediment does not enter the DISTRICT FACILITIES from the PROJECT.

3.6.1 The OWNER shall be responsible to address any People Experiencing Homelessness Encampments located within the portion of DISTRICT FACILITIES occupied by the IMPROVEMENTS that may interfere with the proper functioning of the DISTRICT FACILITIES, including up to 100 feet upstream and downstream of the IMPROVEMENTS for open channels and up to 50 feet upstream and downstream of the IMPROVEMENTS for covered storm drains, in a manner consistent with the policies of the DISTRICT, at OWNER's cost.

3.7. The OWNER shall provide the DISTRICT with 24-hour contact information for person(s) responsible for the operation and maintenance activities related to the IMPROVEMENTS. The DISTRICT shall provide the OWNER with 24-hour contact information for person(s) responsible for maintaining the DISTRICT FACILITIES.

3.8. The OWNER shall coordinate and communicate with the DISTRICT in regard to operation, maintenance, and repair activities related to the IMPROVEMENTS.

3.8.1. The OWNER shall notify the DISTRICT a minimum of thirty (30) days in advance of any major (non-routine) proposed maintenance activities related to the IMPROVEMENTS; provided, however, that in the event the OWNER becomes aware of the need to perform any such maintenance activities less than thirty (30) days from the date it proposes to perform said activities, it shall notify the DISTRICT immediately upon determining to perform the activities.

3.8.2. The OWNER shall notify the DISTRICT a minimum of forty-eight (48) hours in advance of accessing the DISTRICT FACILITIES to perform any routine maintenance activities related to the IMPROVEMENTS including trash removal, routine cleaning, and minor repairs.

3.8.3. The OWNER shall provide the DISTRICT with an annual summary report of its operations and maintenance of the IMPROVEMENTS and status of all related regulatory permits. The contents of the summary report shall include at a minimum the following information:

a. Name of PROJECT;
b. Location description;
c. Project contact information;
d. Description of the PROJECT and its function and direct impact to the DISTRICT FACILITIES and/or other DISTRICT right of way;
e. Summary of operations within the reporting year, from July 1st to June 30th of the following year, type of activities (i.e. routine, non-routine, and emergency), date and time of activities, and description of work performed;
f. Summary of major repairs completed, including but not limited to, type of repairs, location of repairs, pre- and post-repair photographs, date and time of repairs;
g. Summary of public inquiries and complaints related to the PROJECT and the OWNER'S response;
h. Summary of volume captured or discharged from PROJECT;
i. Status of any regulatory permits affecting the operation or maintenance of the IMPROVEMENTS;
j. Status of any specialty contractor agreements required for ongoing maintenance and repairs of the IMPROVEMENTS;

3.8.4. The annual summary report shall be mailed to the following address by July 30th each year:

Attention: Senior Civil Engineer
Los Angeles County Flood Control District
Los Angeles County Public Works
Stormwater Maintenance Division, Annex Building 2nd Floor
Staff Support Section
900 South Fremont Avenue
Alhambra, CA 91803-1331

3.9. The DISTRICT shall coordinate and communicate with the OWNER regarding any maintenance activities by the DISTRICT related to the DISTRICT FACILITIES that may impact the IMPROVEMENTS.

3.10. If the OWNER fails to perform any maintenance activities as provided for in this AGREEMENT in a timely manner, the DISTRICT reserves the right to remedy any such maintenance deficiency that the DISTRICT determines impairs the functioning of the DISTRICT FACILITIES or the DISTRICT's flood protection activities. However, prior to taking any action to remedy any such maintenance deficiency, the DISTRICT shall provide written notice to the OWNER of the deficiency. If the OWNER fails to correct the deficiency within thirty-five (35) days from the date of the notice or such longer period as the DISTRICT, in its sole discretion may agree to, the DISTRICT shall thereafter be entitled to correct the deficiency. Notwithstanding the foregoing, if the DISTRICT determines that immediate remedial action is required to prevent or mitigate a dangerous condition, the DISTRICT shall be entitled to implement the remedial action(s) after giving the OWNER as much notice as the DISTRICT determines is feasible under the circumstances. If the DISTRICT takes any remedial action pursuant to this Section, it shall prepare and send to the OWNER an invoice for all work undertaken by the DISTRICT to remedy any maintenance deficiency, and the OWNER shall, within thirty (30) days from the receipt of the invoice, reimburse the DISTRICT for all costs and expenses reasonably incurred by the DISTRICT to remedy said deficiency.

3.11. The OWNER shall be responsible for all community relations related to the PROJECT, including responding to public inquiries, complaints, etc. The DISTRICT shall forward to the OWNER any community relations, public inquiries, complaints, etc., related to the PROJECT.

SECTION 4: Term

4.1. The term of this AGREEMENT shall be for fifty (50) years (Initial Term), subject to the DISTRICT's right to terminate the OWNER'S use as provided for in Section 5 in this AGREEMENT.

4.2. This AGREEMENT shall expire at the end of the Initial Term provided; however, the Chief Engineer of the DISTRICT or his designee may extend the term of this AGREEMENT, beyond the Initial Term, up to ten (10) years, subject to such terms and conditions as they deem appropriate, upon receipt of a written request from the OWNER, no earlier than twelve (12) months or later than six (6) months prior to the end of the Initial Term.

SECTION 5: Termination of AGREEMENT

5.1. The DISTRICT shall have the right to terminate this AGREEMENT by giving the OWNER at least one hundred twenty (120) days prior written notice, under the following conditions:

5.1.1. The DISTRICT proposes a project for flood control, water conservation and/or any other use or purpose authorized by the Los Angeles County Flood Control Act; and

5.1.2. The DISTRICT determines, in good faith, that the IMPROVEMENTS or any portion thereof, would be substantially incompatible with the DISTRICT's proposed project; and

5.1.3. The DISTRICT has notified the OWNER of the basis for the DISTRICT'S determination that a substantial incompatibility will exist and has provided the OWNER with a reasonable opportunity to propose modifications to the IMPROVEMENTS that will eliminate the incompatibility; and

5.1.4. After consideration of any such modifications proposed by the OWNER, the DISTRICT, in its sole but reasonable discretion, determines not to incorporate any such modifications or determines that, notwithstanding any such modifications, a substantially incompatibility would still exist.

5.2. The DISTRICT shall have the right to terminate this AGREEMENT in the event the OWNER breaches any term or condition of this AGREEMENT and fails to cure such breach or breaches within a reasonable amount of time up to a maximum of one hundred twenty (120) days from the date the DISTRICT provides written notice of said breach or breaches to the OWNER. Upon receipt of a written notice of breach, the OWNER shall, within thirty (30) days of the date of the written notice, send the DISTRICT

a written response describing the corrective measures that the OWNER proposes to implement. The PARTIES shall thereafter promptly meet and confer, in good faith, to reach agreement on the corrective measures. The OWNER shall not implement any corrective measure until it has been approved and agreed upon by the DISTRICT.

5.3. The DISTRICT shall have the right to terminate this AGREEMENT if construction of the PROJECT has not been completed within five (5) years from the date this AGREEMENT is fully executed.

5.4. The DISTRICT shall have the right to suspend or terminate this AGREEMENT in the DISTRICT's sole discretion, in the event the DISTRICT determines, in good faith, that it is necessary for the DISTRICT to enter and take exclusive possession of the DISTRICT FACILITIES or any portion thereof, in order to respond to an emergency as defined in Public Contract Code Section 1102.

5.5. The OWNER shall have the right to terminate this AGREEMENT for any reason, by giving the DISTRICT at least sixty (60) days prior written notice, subject to the OWNER's obligation to remove the IMPROVEMENTS described in Section 6, below.

SECTION 6: Removal of IMPROVEMENTS and Restoration of the DISTRICT FACILITIES

6.1. Upon termination of this AGREEMENT, the DISTRICT may, in its sole discretion, provide a written notice to the OWNER to remove all or any portion of the IMPROVEMENTS, and to restore the DISTRICT FACILITIES to a condition similar to or better than that which existed on the effective date of this AGREEMENT (including sealing off all connections between PROJECT and DISTRICT FACILITIES). If the DISTRICT provides such notice, the OWNER shall comply with said notice within a reasonable time, but in no event exceeding one hundred eighty (180) days from the date of the notice or such longer period as the DISTRICT may in its sole discretion agree to.

6.2. Prior to commencing the removal of any IMPROVEMENTS within the DISTRICT FACILITIES, the OWNER shall apply for and obtain a permit for the removal activities from the County of Los Angeles Public Works, Land Development Division, Permits and Subdivisions Section, and shall also apply for and obtain any and all other necessary local, state, and federal permits applicable to the removal of the IMPROVEMENTS.

6.3. If the OWNER fails to comply with the DISTRICT's notice referred to in subsection 6.1, the DISTRICT may, in its sole discretion, remove any or all IMPROVEMENTS referenced in the DISTRICT's notice to the OWNER.

6.4. If the DISTRICT removes any IMPROVEMENTS pursuant to subsection 6.3, the DISTRICT shall submit a billing invoice to the OWNER indicating the costs and expenses reasonably incurred by the DISTRICT in connection with the removal of the IMPROVEMENTS and the OWNER shall reimburse the DISTRICT all such costs and expenses within thirty (30) days of the OWNER's receipt of a billing invoice from the DISTRICT.

SECTION 7: Miscellaneous Provisions

7.1. Damage to DISTRICT FACILITIES or PROJECT

7.1.1. If any components of the PROJECT are damaged by any negligent act or omission of the DISTRICT, the DISTRICT shall repair and replace those components within a reasonable time frame after discovery or notice thereof. The DISTRICT shall be responsible for all costs related to these repairs and/or replacements.

7.1.2. If any components of the DISTRICT FACILITIES are damaged by any negligent act or omission of the OWNER (including its consultants and contractors), the OWNER shall repair and replace those components within a reasonable time frame after discovery or notice thereof. The OWNER shall be responsible for all costs related to these repairs and/or replacements.

7.2. The DISTRICT shall not be responsible for the expense of any relocation, alteration, or modification of the PROJECT, or any portion thereof.

7.3. Indemnification, Release, and Insurance.

7.3.1. The OWNER shall indemnify, defend, and hold harmless the DISTRICT, the County of Los Angeles, and their respective officers and employees from and against any claims, demands, liability, damages, costs and expenses, including without limitation, reasonable attorney fees and costs of litigation, arising out of or in any way connected to the construction, operation, maintenance, repair, modification, or removal of the PROJECT, or any portion thereof, except to the extent caused by the negligence or willful misconduct of the DISTRICT, the County of Los Angeles, or their respective officers, employees or contractors.

7.3.2. The DISTRICT shall indemnify, defend, and hold harmless the OWNER and its respective officers and employees from and against any claims, demands, liability, damages, costs and expenses, including without limitation, reasonable attorney fees and costs of litigation, arising out of or in any way connected to operation and maintenance of the DISTRICT FACILITIES exclusive of the IMPROVEMENTS, or any portion thereof, except to the extent caused by the negligence or willful misconduct of the OWNER or its respective officers, employees or contractors.

7.3.3. The OWNER releases the DISTRICT and waives all rights to damages for any loss, costs, or expenses the OWNER may sustain as a result of any damage to, or destruction of, the PROJECT, or any portion thereof, attributable to flood or stormwaters, or any other runoff tributary to the DISTRICT FACILITIES, except to the extent such damages are caused by the negligence or willful misconduct of the DISTRICT or its officers, employees or contractors.

7.3.4. Without limiting the OWNER's indemnification of the DISTRICT, the OWNER shall procure and/or maintain, in full force and effect during the term of this AGREEMENT, insurance policies or a program of self-insurance providing for the following coverage related to the IMPROVEMENTS:

7.3.4.1. Commercial general liability and property damage coverage with a combined single limit liability in the amount of not less than two million dollars ($2,000,000) per occurrence.

7.3.4.2. Worker's Compensation coverage in such amount as will fully comply with the laws of the State of California and which shall indemnify, insure, and provide legal defense for both the DISTRICT and the OWNER against any loss, claim, or damage arising from any injuries or occupational diseases occurring to any worker employed by, or any person retained by, the OWNER in the course of carrying out the work or services contemplated in this AGREEMENT.

7.3.4.3. Automobile Liability Insurance: the OWNER shall procure such policy with coverage of not less than one million dollars ($1,000,000) per accident.

7.3.4.4. The County of Los Angeles and Los Angeles County Flood Control District, its governing board, officers, agents,

contractors, and employees shall be named as Additional Insureds on all policies of liability insurance. The OWNER shall furnish to the DISTRICT a Policy of Insurance evidencing the OWNER's insurance coverage no later than ten (10) working days after execution of the AGREEMENT. Upon renewal of said policy, the OWNER shall furnish to the DISTRICT a Certificate evidencing the OWNER's continued insurance coverage as required herein.

7.3.4.5. Should the OWNER elect to comply with this section through a program of self-insurance, OWNER shall provide a Certificate of Self-Insurance to DISTRICT indicating limits of such self-insurance coverage that meet or exceed those stated herein.

7.4. Relationship of Parties. The Parties are and shall remain at all times as to each other wholly independent entities. No Party to this AGREEMENT shall have power to incur any debt, obligation, or liability on behalf of another Party unless expressly provided to the contrary by this AGREEMENT. No employee, agent, or officer of a Party shall be deemed for any purpose whatsoever to be an agent, employee or officer of another Party.

7.5. Binding Effect. This AGREEMENT shall be binding upon, and shall be to the benefit of the respective successors, heirs, and assigns of each Party; provided, however, no Party may assign its respective rights or obligations under this AGREEMENT without prior written consent of the other Party.

7.6. Amendment. The terms and provisions of this AGREEMENT may not be amended, modified or waived, except by an instrument in writing signed by all the Parties.

7.7. Waiver. Waiver by any Party to this AGREEMENT of any term, condition, or covenant of this AGREEMENT shall not constitute a waiver of any other term, condition, or covenant. Waiver by any Party to any breach of the provisions of this AGREEMENT shall not constitute a waiver of any other provision, nor a waiver of any subsequent breach or violation of any provision of this AGREEMENT.

7.8. Governing Law. This AGREEMENT is made under and will be governed by the laws of the State of California. In the event of litigation between the Parties, venue in the state trial court shall lie exclusively in the County of Los Angeles.

7.9. No Presumption in Drafting. All Parties have been represented by legal counsel in the preparation and negotiation of this AGREEMENT. Accordingly, this AGREEMENT shall be construed according to its fair language.

7.10. Severability. The provisions of this AGREEMENT are severable, and the invalidity, illegality or unenforceability of any provision of this AGREEMENT will not affect the validity or enforceability of any other provisions. If any provision of this AGREEMENT is found to be invalid, illegal, or unenforceable, the Parties shall endeavor to modify that clause in a manner which gives effect to the intent of the Parties in entering into this AGREEMENT.

7.11. Counterparts. This AGREEMENT may be executed in counterparts, which together shall constitute the same and entire Agreement.

7.12. Administration. Each of the persons signing below on behalf of a Party represents and warrants that they are authorized to sign this AGREEMENT on behalf of such Party.

7.13. Notices

Any correspondence, communication, or contact concerning this AGREEMENT, and all notices that are to be given or that may be given by PARTIES shall be directed to the following:

Los Angeles County Flood Control District
Los Angeles County Public Works
Stormwater Planning Division, 11th Floor
900 South Fremont Avenue
Alhambra, CA 91803-1331
Attention: Assistant Deputy Director
Phone No.: (626) 458-4300
Fax: (626) 458-1526

Los Angeles County Flood Control District
Los Angeles County Public Works
Stormwater Maintenance Division, Annex Building Second Floor
900 South Fremont Avenue
Alhambra, CA 91803-1331
Attention: Assistant Deputy Director
Phone No.: (626) 458-4145
Fax No.: (626) 458-4165

City of Carson
Public Works Department
701 E Carson Street
Carson, CA 90745
Attention: Public Works Director
Phone No.: (310) 847-3520

The PARTIES shall promptly notify each other of any change of the contact information specified in this Section, including personnel changes.

IN WITNESS WHEREOF, DISTRICT and OWNER have caused this AGREEMENT to be executed by their respective duly authorized officers, by DISTRICT on _____, 2026; by OWNER on _____, 2026.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT,
A body corporate and politic

By_____
Chief Engineer

CITY:

CITY OF CARSON, a municipal corporation

By_____
Lula Davis-Holmes, Mayor

ATTEST:

By_____
Dr. Khaleah Bradshaw, City Clerk

APPROVED AS TO FORM:
ALESHIRE & WYNDER, LLP

By_____
Sunny K. Soltani, City Attorney

ESCROW AGREEMENT

Calas Park Stormwater and Water Quality Improvements Supplemental Environmental Project

This Escrow Agreement ("**Agreement**") is made as of February 20, 2024 ("**Effective Date**") and is between COUNTY SANITATION DISTRICT NO. 2, a special district organized and existing under the provisions of Health and Safety Code sections 4700 et seq. (the "**District**") in its capacity as the Administrative District for the Joint Outfall System;[1] the CITY OF CARSON, a California charter city and municipal corporation (the "**City**"); and U.S. BANK TRUST COMPANY, NATIONAL ASSOCIATION, a national banking association, in its capacity as escrow agent ("**Escrow Agent**"). The District, City, and Escrow Agent are sometimes hereinafter referred to individually as a "**Party**" or collectively as the "**Parties**."

A. Between January 25, 2018, and September 6, 2022, an amount in excess of 8.6 million gallons of untreated domestic and municipal wastewater were inadvertently discharged by the Joint Outfall System from its collection system to waters of the United States, including the inadvertent discharge of approximately 8,507,790 gallons of untreated wastewater to the Dominguez Channel on December 30-31, 2021, and an additional approximately 108,414 gallons of untreated wastewater during 13 separate spills that took place between January 25, 2018, and September 6, 2022 to Rio Hondo, Dominguez Channel, Los Angeles River, Alhambra Wash, San Jose Creek, Machado Lake, Arroyo Seco Channel, and Malaga Creek.

B. On January 17, 2024, the California Regional Water Quality Control Board – Los Angeles Region (**"Regional Water Board")** issued Order No. R4-2023-0088, Settlement Agreement and Stipulation for Entry of Administrative Civil Liability Order ("**ACL Order**") under Water Code section 13385 for the spills that occurred between January 25, 2018 and September 6, 2022. A copy of the ACL Order is attached as **Exhibit A** to this Agreement.

C. Under the ACL Order, the District agreed, among other things, to contribute the sum of Five Million Nine Hundred and Eighty Thousand Dollars ($5,980,000.00) (the "**District's SEP Contribution**") to a Supplemental Environmental Project ("**SEP**") for the development of the Calas Park Stormwater and Water Quality Improvements Supplemental Environmental Project ("**Calas Park Stormwater SEP**"). The ACL Order further provides that, if the Calas Park Stormwater SEP is not completed due to circumstances outside the control of the Districts and/or the City, as determined by the Executive Officer of the Regional Water Board **("Regional Water Board's Executive Officer")**, and the Regional Water Board does not move to collect payment of the value of the District's SEP Contribution to the State Water Pollution Cleanup and Abatement Account, a **Replacement SEP** may be proposed within 60 days by the District, subject to approval the Regional Water Board's Executive Officer in accordance with the terms and provisions of the ACL Order.

[1] Pursuant to a Joint Outfall Agreement, 17 of the 24 County Sanitation Districts operate and maintain a wastewater collection, treatment, and disposal system known as the Joint Outfall System that serves approximately 5.5 million people in the Los Angeles Basin.

D. As provided in the ACL Order, the City will implement the Calas Park Stormwater SEP on behalf of the District.

The Parties therefore agree as follows:

1. **Representatives**. The District and the City have each designated one individual to serve as their respective representatives under this Agreement ("**Representative**"). The Representative for the District is the Chief Engineer, or their designee. The Representative for the City is the City Manager, or their designee. Any Party may change their Representative by giving the other Parties written notice consistent with Section 3.1. By executing this Agreement, the Parties represent and warrant to one another that:

   1.1 Each person designated as a Representative by that Party will at all times have the full power and authority to take all actions on behalf of that Party, and

   1.2 The Representative of that Party is authorized to act on that Party's behalf under this Agreement and that instructions, consents, and other actions under this Agreement will be valid if signed by the Representative of that Party. Signatures on instructions, consents and other actions under this Agreement will be valid if the signatures are originals, electronic, facsimiles or digital. If the District or the City choose to use electronic signatures to sign documents delivered to the Escrow Agent, the District or the City agree to assume all risks arising out of its use of electronic signatures, including without limitation the risk of the Escrow Agent acting on an unauthorized document and the risk of interception or misuse by third parties. Notwithstanding the foregoing, the Escrow Agent may in any instance and in its sole discretion require that an original document bearing a manual signature be delivered to the Escrow Agent in lieu of, or in addition to, any document signed via electronic signature.

2. **Administration.**

   2.1 **Deposit of Funds.**

   The Escrow Agent shall deposit funds transferred to the Escrow Agent from the District into a separate, newly established general escrow account named the "**Calas Park Stormwater SEP Fund**" and a separate sub-account within the Calas Park SEP Fund to account for the deposit and disbursement of interest earnings on the funds in the Calas Park SEP Fund, to be named the "**Calas Park Stormwater SEP Interest Sub-Account**." The purpose of the Calas Park Stormwater SEP Fund is to obtain, hold, administer, invest, reinvest, and disburse the District's SEP Contribution and the earnings thereon, solely as provided below.

   2.2 **Investment of Funds.**

   a. The Escrow Agent shall invest the funds in the Calas Park Stormwater SEP Fund in such investments, certificates of deposits, bank accounts or money market funds as determined in the sole and absolute discretion of the District and as directed in writing by the District to Escrow Agent. In the absence of any written direction from the District, the Escrow Agent shall invest and reinvest the funds

in the Calas Park Stormwater SEP Fund in the U.S. Bank Money Market Account (CUSIP Number DDAFC5). The Escrow Agent may make any investments through its trust or investment department. All interest and earnings from investments must be deposited into the Calas Park Stormwater SEP Interest Sub-Account.

b. The Representatives of both the District and the City shall jointly furnish the Escrow Agent with written instructions to sell any investments to make any disbursements pursuant to Section 2.5 from the Calas Park Stormwater SEP Fund required under this Agreement. If no instructions are received, no earlier than thirty (30) days prior to the disbursement date, the Escrow Agent is authorized to sell or liquidate any investments held in the Calas Park Stormwater SEP Fund as necessary for those disbursements. The Escrow Agent will not be liable for any loss from any investments made by the Escrow Agent in accordance with this Agreement except if caused by Escrow Agent's own negligence or willful misconduct.

c. The Parties acknowledge that to the extent regulations of the Comptroller of the Currency or other applicable regulatory entity grant the Representatives the right to receive brokerage confirmations of security transactions as they occur, the Representatives will not accept those confirmations to the extent permitted by law unless specifically requested, in writing, by the Representatives. The Escrow Agent shall furnish monthly written transaction statements that must include, without limitation, detail for all investment transactions made by the Escrow Agent under this Agreement and such other information as may be requested by the Parties.

2.3 **Disbursement of Interest and Earnings of Calas Park Stormwater SEP Fund.** The Escrow Agent shall disburse all interest and earnings of the Calas Park Stormwater SEP Interest Sub-Account of the Calas Park Stormwater SEP Fund pursuant to the joint written instructions of the District and the City, as follows:

a. To the Escrow Agent in payment of its fees and administrative expenses;

b. The remaining balance to the District.

2.4 **District to Pay Fees to Escrow Agent if Interest Sub-Account Funds are Insufficient.** If the interest and earnings in the Calas Park Stormwater SEP Interest Sub-Account of the Calas Park Stormwater SEP Fund are insufficient to cover the Escrow Agent's fees and administrative expenses, then the District shall pay those fees and expenses directly to the Escrow Agent after written request of the Escrow Agent.

2.5 **Disbursement of Principal from the Calas Park Stormwater SEP Fund.**

a. The Escrow Agent shall make payments of principal from the Calas Park Stormwater SEP Fund in accordance with the following instructions:

(i) Pursuant to the terms, requirements and provisions of this Agreement; or

(ii) As directed jointly in writing by the Representatives of the City and the District; or

(iii) To the District upon termination of the Calas Park Stormwater SEP Fund in accordance with Section 2.8 of this Agreement.

b. Payments of principal from the Calas Park Stormwater SEP Fund shall be made by Escrow Agent within 5 business days of receipt of joint instructions from the Representatives in accordance with Paragraph (a)(ii).

2.6 **Reporting.**

a. **Monthly Reporting**. The Escrow Agent shall submit its customary monthly account statement for the Calas Park Stormwater SEP Fund concurrently to both the the District and the City.

b. **Annual Reporting**. The Escrow Agent shall deliver to each Representative an annual statement showing the income and disbursements of the Calas Park Stormwater SEP Fund for the preceding calendar year within sixty (60) days after the end of each calendar year.

c. **Final Report**. Within thirty (30) days following the termination of the Calas Park Stormwater SEP Fund in accordance with the terms and provisions of Section 2.8, below, the Escrow Agent shall deliver to the City and the District a final account statement of any final income and disbursements made as part of the termination process.

2.7 **No Authority to Conduct Business.** The purposes of the Calas Park Stormwater SEP Fund are limited to the matters set forth in this Agreement.

2.8 **Termination of the Calas Park Stormwater SEP Fund.**

a. The Calas Park Stormwater SEP Fund and this Agreement will terminate upon any of the following:

(i) The disbursement of the last of the funds from the Calas Park Stormwater SEP Fund as provided in this Agreement and the Escrow Agent's receipt of written notice from the District that all the provisions of Section 4 are completed to the satisfaction of the Chief Engineer; or

(ii) The Escrow Agent's receipt of written notice from the District that the **Regional Water Board's** Executive Officer has determined that the Calas Park Stormwater SEP cannot be performed or completed; or

(iii) The Escrow Agent's receipt of written notice from the District and the City that the Calas Park Stormwater SEP has been completed and funds remain in the Calas Park Stormwater SEP Fund.

b. Upon termination of the Calas Park Stormwater SEP Fund, all remaining funds, including any funds remaining in the Calas Park Stormwater SEP Interest Sub-Account, must be paid by Escrow Agent to the District within ten (10) days following receipt of written instructions provided by the District.

c. Termination under this section may occur at any time that funds remain in the Calas Park Stormwater SEP Fund.

3. <u>Miscellaneous.</u>

3.1 **Notices.** Any notice, request, direction, instruction or other communication (collectively "**Notice**") required or permitted to be made or given by any Party must be in writing, and otherwise in accordance with this Agreement. Notice must be delivered (i) by hand, with signed delivery receipt required; (ii) by U.S. Mail; (iii) by facsimile; (iv) by overnight mail or courier service, or (v) by electronic mail , and will be deemed to have been made or given as of the time and date of receipt, if by hand or facsimile, or the time and date of mailing, if by mail or electronic mail. The time to respond to any Notice will commence to run upon the date of actual delivery to the appropriate address. Any Party may change its designation of address upon written notice to the other Parties.

Any Notice to Escrow Agent must be addressed as follows:

U.S. Bank National Association
633 West Fifth Street, 24th Floor
Los Angeles, CA 90071
Attention: Global Corporate Trust Services
Ms. Lauren Costales
Electronic mail: Lauren.Costales@usbank.com

Any Notice to the District must be addressed as follows:

County Sanitation District No. 2 of Los Angeles County
1955 Workman Mill Road
Whittier, CA 90601-1400
Fax: (562) 695-8660
Telephone: (562) 699-7411
Attn: Robert Ferrante
Chief Engineer and General Manager
Electronic mail: rferrante@lacsd.org

Any Notice to the City must be addressed as follows:

City of Carson
701 East Carson, Carson, CA 90745
Telephone: (310) 952-1729
Attn: David C. Roberts, Jr.
City Manager
Electronic mail: droberts@carsonca.gov

With copy to:

City of Carson
701 East Carson, Carson, CA 90745
Telephone: (310) 952-1729
Attn: Gilbert Marquez
City Engineer
Electronic mail: gmarquez@carsonca.gov

3.2 **Governing Law and Venue**. This Agreement will be administered, construed and enforced according to the laws of the State of California applicable to agreements performed entirely in California. Legal actions concerning any dispute, claim or matter arising out of or in relation to this Agreement shall be instituted in the Superior Court of the County of Los Angeles, State of California, or any other appropriate court in such county, and the Parties covenant and agree to submit to the personal jurisdiction of such court in the event of such action. In the event of litigation in a U.S. District Court, venue shall lie exclusively in the Central District of California, in the County of Los Angeles, State of California.

3.3 **Attorneys' Fees.** If any action or proceeding is commenced by any Party to enforce its rights under this Agreement or to collect damages as a result of the breach of any of the provisions of this Agreement, the prevailing Party in that action or proceeding, including any bankruptcy, insolvency or appellate proceedings, will be entitled to recover all reasonable costs and expenses, including, without limitation, reasonable attorneys' fees, expenses, and court costs, in addition to any other relief awarded by the court.

3.4 **Amendment; Complete Agreement.** All amendments and supplements to this Agreement must be in writing and executed by the District, the City, and the Escrow Agent. This Agreement contains the entire agreement and understanding between the Parties concerning the Calas Park Stormwater SEP Fund and supersedes all prior agreements, terms, understandings, conditions, representations and warranties, whether written or oral, made by any of the Parties concerning the Calas Park Stormwater SEP Fund or the other matters which are the subject of this Agreement.

3.5 **Interpretation.** As used in this Agreement, words in the singular include the plural and words in the plural include the singular; and the masculine and neuter genders will be deemed to include the masculine, feminine and neuter. The descriptive heading for each Section and Subsection of this Agreement will not affect the interpretation or the legal efficacy of this Agreement. Except as expressly provided in this Agreement, neither the act of entering into this Agreement nor any contribution to the Calas Park Stormwater SEP Fund nor any action taken under this Agreement constitutes an admission of any liability or fault on the part of any Party with respect to the Calas Park Stormwater SEP or otherwise, nor does it constitute a commitment or agreement, either expressed or implied, by any or all of them to undertake any further activities with respect to the Calas Park Stormwater SEP.

3.6 **Severability.** If any provision of this Agreement or its application to any person or entity or in any circumstance is deemed invalid or unenforceable, the application of that provision to persons or entities and in circumstances other than those as to which it is invalid or unenforceable, and the other provisions of this Agreement will not be affected by that invalidity or unenforceability.

3.7 **Waiver.** No waiver by the District, the City or the Escrow Agent of any of the terms or conditions of this Agreement or any of their respective rights under this Agreement will be effective unless such waiver is in writing and signed by the Party charged with the waiver.

3.8 **Third Parties**. Except as expressly provided in this Agreement, nothing contained in this Agreement will create any rights in any person or entity not a Party to this Agreement, except the individuals and entities entitled to the benefits of the indemnity under Section 4.15 below.

3.9 **Restriction on Assignment.** Neither the City nor the District shall have the right to assign, transfer, convey, or sell its rights or obligations under this Agreement without the prior written consent of the other Party which consent may be withheld in such Party's sole and absolute discretion.

3.10 **Counterparts**. This Agreement may be executed in any number of counterparts and each of such counterparts shall for all purposes be deemed to be an original, whether the signatures are originals, electronic, facsimiles or digital. All such counterparts shall together constitute but one and the same Agreement.

3.11 **Execution.** This Agreement will be binding on the Escrow Agent, the District, and the City upon the execution of this Agreement by the individuals duly authorized to sign this Agreement on behalf of each Party.

3.12 **Consultation**. The Parties hereto hereby represent and warrant to one another that each of them has had the full opportunity of consulting legal counsel of their own choosing in connection with the preparation of this Agreement, that each of them has read and understood the provisions of this Agreement and is fully aware of the contents and legal effect thereof.

3.13 **Provisions Negotiated and Independent**. Each and every provision of this Agreement has been independently, separately and freely negotiated by the Parties as if this Agreement were drafted by all Parties hereto. The Parties, therefore, waive any statutory or common law presumption which would serve to have this document construed in favor of, or against, any Party.

4. Provisions Applicable to the District and City Only.

4.1 **Applicability.** The provisions of Section 4 are agreements between the District and the City only, and do not apply to the Escrow Agent.

4.2 **Authorization to Disburse Funds.**

a. The disbursement of funds by the Escrow Agent is expressly contingent upon the District's determination that the following conditions have been and are continuing to be satisfied:

(i) The Calas Park Stormwater SEP qualifies as a Regional Water Board-approved SEP; and

(ii) The Calas Park Stormwater SEP can be performed or completed.

b. **Qualification as Regional Water Board-Approved SEP**. The District shall promptly notify the City of any questions or concerns raised by the Regional Water Board or the Regional Water Board's Executive Officer related to the Calas Park Stormwater SEP's continuing qualification as a Regional Water Board-approved SEP.

c. **Determination that Calas Park Stormwater SEP Cannot be Performed or Completed.** Prior to issuing any determination that the **Calas Park Stormwater SEP** cannot be performed or completed pursuant to Section 4.2(a), the District shall in good faith meet and confer with representatives of the City. The District shall make an initial determination that the City is sufficiently prepared to perform the **Calas Park Stormwater SEP**, to trigger the obligations in Section 4.3. Thereafter, the District can make subsequent determination(s) that the **Calas Park Stormwater SEP,** in whole or in part, including any Project Milestone, cannot be performed or completed. In such an event, the District shall work with the City to identify a Replacement SEP that is suitable for the City and that meets the requirements of the ACL Order and the Regional Water Board.

4.3 **Schedule of Expenditures.** Upon the District's initial written determination (in its sole and absolute discretion) that the conditions described in Section 4.2(a) of this Agreement have been initially satisfied, the City shall submit to the District a proposed written schedule of activities and expenditures of Calas Park Stormwater SEP funds, and shall update that written schedule of activities and expenditures after contracts are awarded, when change orders are approved, or when any other material change in the scope of work is planned. The proposed schedule of expenditures must describe the scope of work and amount of funds needed for all costs and fees related to the Calas Park Stormwater SEP, including for permitting, staff costs, and any design professionals, consultants, contractors, or subcontractors. The schedule and work to be performed must be described in detail to the sole satisfaction of the Chief Engineer.

4.4 **Disbursement.** On a quarterly basis, the City shall submit to the District a SEP Invoice that includes a detailed accounting of and supporting documentation for actual work and expenditures made specifically for the Calas Park Stormwater SEP ("**SEP Invoices**") since the last invoice submitted. The District shall review and approve or reject each of the expenditures in writing to the City and Escrow Agent in a timely manner and will strive to complete review and issue instructions within thirty (30) calendar days from the date a SEP Invoice is issued, not including time for the City to submit responses to the District regarding questions about the work and expenditures included in the invoice.

a. **Documentation** – Documentation of the expenditures shall include, but is not limited to, invoices for payments to vendors or contractors performing work on the SEP or providing consulting or contracted services (such as environmental or information technology), documentation for personnel time (such as approved time sheets), or supporting documentation for any other expenditures made to implement the Calas Park Stormwater SEP.

b. **Approval** – The District's written approval of all or part of the SEP Invoices tendered to Escrow Agent will constitute joint written instructions from City and District to the Escrow Agent. The District shall not unreasonably withhold approval of reimbursement of actual expenditures.

c. **Rejection** – If the District rejects one or more expenditures identified in a SEP Invoice, the District shall provide the City with a written notice including an explanation and any documentation that supports the rejection. The City will have fifteen (15) calendar days to provide any additional documentation, information or clarification which the City believes warrants reversal of the District's decision. The Parties shall have forty-five (45) calendar days after the date of submittal of the supplemental information to resolve the dispute administratively. However, if after the forty-five-day period, the District upholds a decision to reject an expenditure, the City shall have fifteen (15) calendar days after the date of notice to issue a written request to refer the matter to dispute resolution as provided under Section 4.13 and the disbursement of disputed funds will be suspended. The District shall not withhold any undisputed funds.

4.5 **Limitations on Expenditures.** The City shall use the principal funds received from the Calas Park Stormwater SEP Fund only for the purpose of completing the project elements described in the approved Calas Park Stormwater SEP Workplan and only according to the terms of this Agreement. The City shall not use any portion of the Calas Park Stormwater SEP Fund for fund raising or public relations efforts, or for any Calas Park Stormwater SEP elements that have not received prior written approval by the District. If, as a result of any audit initiated under Section 4.6 of this Agreement, it is determined that any expenditure previously approved under subsection (a) of Section 4.4 was improper and approved by the District in reliance upon any misrepresentation by the City and/or their respective officers, agents or employees, the City shall immediately return the improperly expended sums to the Calas Park Stormwater SEP Fund along with the cost of the audit as specified under subsection (c) of Section 4.6 and any other actual costs, damages, and penalties, as may be incurred by the District as a result of the misrepresentation.

4.6 **Accounts and Audit**.

a. In accordance with page 13 of the 2017 Supplemental Environmental Projects Policy, within ninety (90) days after completion of the Calas Park Stormwater SEP, the District shall arrange and bear the cost of preparation of an independent third-party final financial audit report following completion of the project. This audit will be prepared in accordance with any guidance or procedures that may be provided by the Regional Water Board, in order to obtain an independent third party's professional opinion regarding whether the District expended SEP funds in the amount claimed. Upon request via written notice of intent provided at least five (5) business days prior to commencement, the City and its agent shall make available to the independent third-party auditor the relevant books, accounts, and records pertaining to the project during normal business hours. The City and its agent shall fully cooperate with this request to the fullest extent feasible to ensure timely completion of this review.

b. In addition to the final financial audit report of the project described in Section 4.6(a), the District may request a separate financial audit of the City's use of SEP funds at any point during the construction and completion of the Calas Park Stormwater SEP. The City shall make available to the District or an agent of the District the relevant books, accounts, and records, during normal business hours, provided the District deliver to the City written notice of intent to audit at least five (5) business days prior to commencement of audit. Auditors engaged by the District to conduct any audit, whether as employees of the District or independent contractors, must have a minimum of two (2) years' experience conducting audits for public agencies.

c. The District shall bear the cost of the audit referred to in Section 4.6b, above, except that, if any of the following conditions exist, the City shall be responsible for payment, in full, of all costs and fees associated with the audit within 30 days after receipt of a written invoice from the District:

(i) The audit reveals variance of more than two percent (2%) between the schedule of expenditures or any amendments approved under Section 4.3 and the actual amounts of expenditures; or

(ii) Any portion of the Calas Park Stormwater SEP Funds have been used for something other than the elements specified in the approved Calas Park Stormwater SEP Workplan or for any expense that had not received approval by the District; or

(iii)The City has failed to maintain true and complete books, records, accounts, and supporting source documents substantially in accordance with this Agreement.

4.7 **Alternative Disposition of SEP Funds.**

a. The City understands that, under the ACL Order, the **Regional Water Board's** Executive Officer has the authority to determine that the Calas Park Stormwater SEP was not fully implemented by the SEP Completion Date listed in **Exhibit A**, or there has been a material failure to satisfy a Project Milestone. If the material failure, in whole or in part, is due to circumstances beyond the control of the District and/or City, and the **Regional Water Board** does not move to collect payment of the suspended liability amount, the District can propose a **Replacement SEP(s)** for the entire **District's SEP Contribution**, or some portion thereof less the value of any completed milestones of the **Calas Park Stormwater SEP** as stipulated to by the District and the **Regional Water Board.** If approved, the **Regional Water Board** or its delegee can direct that the funds designated for the Calas Park Stormwater SEP be paid to a **Replacement SEP.** If not approved, the **District's SEP Contribution** must be paid to the State Water Pollution Cleanup and Abatement Account following issuance by the **Regional Water Board** of a Motion for Payment of Suspended Liability and a determination of the payment amount. In the event of such determination, the

District shall give prompt written notice to the City's Representative that the **Calas Park Stormwater SEP** cannot be performed and the principal in the **Calas Park Stormwater SEP Fund** will be dispensed in accordance with the determination by the **Regional Water Board** or its delegee following the provisions of Section 2.8(a)(ii).

b. In such an event, the District shall make best efforts to assist the City in identifying a Replacement SEP that is suitable for the City and meets the requirements of the ACL Order and any applicable requirements of the Los Angeles Regional Water Board. Any final decision on a Replacement SEP is subject to approval by the District and Executive Officer of the Regional Water Board.

4.8 **Publicity**. In accordance with Section III, paragraph 10 of the ACL Order, if either the District or the City publicizes the Calas Park Stormwater SEP or the results of the SEP, it shall state in a prominent manner that the Calas Park Stormwater SEP is being undertaken as part of settlement of a Regional Water Board enforcement action.

4.9 **Monthly Reporting.** Within ten (10) calendar days after the close of each month, the City shall submit to the District a summary of project activities performed in the prior month and project activities proposed to be performed during the remainder of the calendar month and in the following calendar month. If the month is the third month of the calendar quarter, the City shall include in its monthly report the project activities proposed to be performed in each month of the following quarter. This information will be used by the District in preparation of quarterly reports that are required to be submitted to the Regional Water Board per the ACL Order, and the approved Calas Park Stormwater SEP Workplan.

4.10 **Final Report.** No later than forty-five (45) days after the completion date for the Calas Park Stormwater SEP and in accordance with the approved Calas Park Stormwater SEP Workplan, the City shall submit to the District a summary of all project activities performed as part of the project, including, but not limited to, all of the following:

a. Evidence that the Calas Park Stormwater SEP has been completed consistent with the approved Workplan and milestone schedule, including how the expected outcome(s) or performance standard(s) for the project were met, and documentation such as photographs, invoices, receipts, certifications, and other materials reasonably necessary for the District and the Regional Water Board to evaluate the completion of the Calas Park Stormwater SEP and the costs incurred by the City;

b. Written certification by the City, made under penalty of perjury, that the City followed all applicable environmental laws and regulations in the implementation of the Calas Park Stormwater SEP, including, but not limited to, the California Environmental Quality Act (CEQA), the federal Clean Water Act, and the Porter-Cologne Water Quality Control Act; and

c. Any other information or documentation requested by the District to assist in preparation of the Certification of Completion Report required by the Regional Water Board.

4.11 **Access to Site and Documents.** In accordance with Section III, paragraph 11 of the ACL Order, the City shall allow the Regional Water Board staff to inspect the Calas Park Stormwater SEP implementation locations during normal business hours, provided reasonable notice is provided to the City, and shall provide Regional Water Board staff access to documents associated with Calas Park Stormwater SEP implementation, upon request.

4.12 **Further Assurances.** The City shall execute and deliver any instruments and perform any actions that may be necessary, or reasonably requested, in order to give full effect to this Agreement. The City will use all reasonable efforts to provide any information, execute any further instruments and documents, and take any action reasonably requested by the District or the Regional Water Board, in accordance and consistent with the provisions of this Agreement and the ACL Order for the purpose of carrying out the intent of this Agreement.

4.13 **Resolution of Disputes.** The Parties shall meet and use their best efforts to resolve any dispute, claim, question or disagreement (a "**Dispute**") arising from or relating to this Agreement or to the interpretation of this Agreement. To that end, Representatives of the Parties shall consult and negotiate with each other in good faith and attempt to reach an equitable solution satisfactory to all Parties. If the Parties are unable to reach an equitable solution satisfactory to all Parties, any Party may pursue any and all legal and equitable remedies that may be available. Each Party will bear its own respective costs for resolving any Dispute, except that if a legal action is filed, the attorneys' fees and costs are governed by Section 3.3.

4.14 **Notices to the Regional Water Board.** To ensure that the Regional Water Board is kept apprised of the status of the expenditures of sums for the SEP, the District shall transmit the following documents to the Regional Water Board:

a. A fully executed copy of the final version of this Agreement, and any amendments, within seven (7) calendar days of execution; and

b. A copy of each statement received from the Escrow Agent, pursuant to section 2.6, within seven (7) calendar days of receipt thereof.

c. Notices to the Regional Water Board will be sent to:

Enforcement Unit Chief (presently Russ Colby)
Los Angeles Regional Water Quality Control Board
320 West 4th Street, Suite 200
Los Angeles, CA 90013
Electronic mail: Russ.Colby@waterboards.ca.gov

4.15 **Indemnity.** The City shall indemnify, defend, and hold harmless the District, both in its individual capacity and as the administrative district for the Joint Outfall System, along with all participating districts of the Joint Outfall System, their directors, officers, employees, representatives, agents, and assigns, from any and all claims, actions, demands, liabilities, losses, damages, injuries to persons or property, costs and expenses (including without limitation reasonable attorneys' fees, expert fees, and court costs, fines, penalties, and administrative civil liabilities) (collectively "Claims") that arise out of or relate to the Calas Park Stormwater SEP or this Agreement, except for Claims arising out of the negligence or willful misconduct of the District.

4.16 **Insurance.** The City shall ensure that all contractors ("Contractors") performing work in connection with the Calas Park SEP procure and maintain insurance, including, without limitation, comprehensive general liability insurance and workers compensation insurance, with such terms, conditions, coverage, limits and endorsements and in such amounts as may be required by the City (the "Required Insurance Coverage"). The City shall additionally ensure that the insurance policies for the Required Insurance Coverage provide that coverage shall not be cancelled without thirty (30) days' prior written notice to the City and that such policies are maintained throughout the term of this Agreement. The City shall cause all Contractors to name the District as additional insured with respect to all Required Insurance Coverage except Workers Compensation, as applicable, at any time. No later than thirty (30) days prior to the commencement of work pursuant to this Agreement, the City shall furnish the District with certificates of insurance and verify coverage of the Contractors. Within ten (10) days after request by the District, the City shall deliver to the District true, complete, and correct copies of all insurance policies, including all endorsements and applicable policy language, as required under this Agreement.

5. Escrow Agent Assignment and Successors.

5.1 **Vacancy Caused by Resignation or Removal.** The Escrow Agent may resign at any time by delivering its resignation in writing to the other Parties. The other Parties may remove the Escrow Agent at any time by delivering joint notice of removal in writing to the Escrow Agent. Resignation or removal will take effect sixty (60) days after delivery of the notice of resignation or removal, or upon the acceptance of appointment in writing by a successor escrow agent, whichever is earlier.

5.2 **Appointment of Successor Escrow Agent.** A successor escrow agent will be appointed by the District and the City upon the resignation or removal of the Escrow Agent. In the absence of an appointment within sixty (60) days of resignation or removal, the Escrow Agent may petition a court of competent jurisdiction to make an appointment.

5.3 **Acceptance of Appointment by Successor.** Acceptance of appointment as a successor escrow agent must be in writing and will become effective upon receipt by the District and the City of notice of acceptance. Each successor escrow agent will

have all of the rights, powers, duties, authority, and privileges as if initially named as the Escrow Agent. Upon the acceptance of appointment of any successor escrow agent, the Escrow Agent shall deliver all assets, documentation, and other property of the Calas Park Stormwater SEP Fund in its possession, custody, or control to such successor escrow agent. After selection of a successor escrow agent, the Escrow Agent shall reasonably cooperate in meeting any reasonable requests for information or other assistance made by the District or the City to the Escrow Agent with respect thereto and any other subject matter of this Agreement. The provisions of this section survive the resignation or removal of the Escrow Agent.

5.4 **Automatic Succession.** Any bank or company into which the Escrow Agent may be merged or with which it may be consolidated, or any bank or company to whom Escrow Agent may sell or transfer all or part of its escrow business, will be the successor to the Escrow Agent without the execution or filing or any paper or any further act on the part of the Parties to this Agreement.

6. Escrow Agent Compensation and Liability.

6.1 **Compensation.** The Escrow Agent shall receive compensation from the District for, and administrative expense reimbursement with respect to, its services rendered in connection with the administration of the Calas Park Stormwater SEP Fund based on the schedule attached hereto as **Exhibit B**. The Escrow Agent's compensation will be paid from the interest earned on the Calas Park Stormwater SEP Fund, as provided in Section 2.3 of this Agreement, and if that interest is insufficient, as provided in Section 2.4 of this Agreement, the Escrow Agent's compensation will be paid directly by the District. The District shall indemnify and hold the Escrow Agent harmless from and against any losses, costs, claims, expenses and liabilities, including fees and expenses of its counsel incurred by the Escrow Agent in the acceptance of this Agreement by the Escrow Agent and performance of the Escrow Agent of the duties and obligations of the Escrow Agent hereunder.

6.2 **Bond and Liability**.

a. Escrow Agent. The Escrow Agent will not be required to furnish any bond or surety. The Escrow Agent acts solely as Escrow Agent on behalf of the District and the City and has solely an agency and not a fiduciary relationship with District and the City. The Escrow Agent will not be required to defend any legal proceedings that may be instituted against the Escrow Agent with respect to the subject matter of this Agreement (except legal proceedings arising out of the Escrow Agent's negligence or willful misconduct) unless the Escrow Agent is requested to do so by the District or the City and is indemnified to the Escrow Agent's satisfaction against the cost and expense of such defense. The Escrow Agent shall not be required to institute legal proceedings of any kind. Any Party that makes such a request to the Escrow Agent hereby agrees to indemnify and hold the Escrow Agent harmless for and against any and all losses, claims, damages, liabilities, and expenses, including reasonable costs of investigation, counsel fees, and disbursements that may be imposed upon or incurred by the

Escrow Agent in connection with the Escrow Agent's appointment hereunder or performance of its duties herein, including any litigation arising from this Agreement or involving the subject matter hereof or the monies or other property deposited hereunder except that such other parties do not agree to defend, indemnify, or hold the Escrow Agent harmless for the Escrow Agent's negligence or willful misconduct. The Escrow Agent will not incur any liability, personal or corporate, of any nature in connection with any act or omission, unless involving its negligence or willful misconduct, in the administration of the Calas Park Stormwater SEP Fund or otherwise pursuant to this Agreement. In no event shall the Escrow Agent be responsible or liable for special, indirect, punitive, incidental or consequential loss or damage of any kind whatsoever (including, but not limited to, loss of profit) irrespective of whether the Escrow Agent has been advised of the likelihood of such loss or damage and regardless of the form of action.

b. Other Parties. Escrow Agent represents and warrants that it has full authority to enter into and perform its obligations under this Agreement and to perform all of its duties in accordance with customary and usual procedures employed by institutions acting as escrow agents in accordance with the Escrow Agent's own practices.

6.3 **Limitations on the Escrow Agent's Duties and Liabilities.** The Escrow Agent's acceptance of its duties under this Agreement is subject to the following terms and conditions which together with any other provision in this Agreement limiting the Escrow Agent's liabilities, will govern and control with respect to its rights, duties, liabilities and immunities:

a. The Escrow Agent will have no duties or responsibilities except those expressly set forth herein. The Escrow Agent shall not be subject to, or obliged to recognize, any agreement between any of the other Parties, or any direction or instruction of any or all of the other Parties, except as provided for in this Agreement. In the event that the Escrow Agent receives written instructions from the Representatives and there is a discrepancy between those instructions and prior written instructions, the Escrow Agent will refrain from taking any further action, other than to keep the funds held by it in trust, unless or until such time as directed otherwise by all other Parties by written instrument or by order or judgment of a court of competent jurisdiction. If the Escrow Agent is uncertain as to the actions to be taken by it or as to its duties or rights or receives instructions with respect to its duties which, in its opinion, are in conflict with any of the provisions of this Agreement, then the Escrow Agent shall adhere to the terms of this Agreement and refrain from taking any action other than to keep funds held by it safe as Escrow Agent until directed otherwise in writing by all other Parties or by an order or judgment of a court of competent jurisdiction.

b. The Escrow Agent will not be liable for assuming the due execution and the validity and effectiveness of any written notice, agreement, verification, instruction, or other paper or document delivered to or deposited with it and the

truth of any information contained therein, which it in good faith believes to be genuine, and the Escrow Agent will be fully protected in acting in accordance with any written instructions given to the Escrow Agent and believed by the Escrow Agent to have been signed by the proper Parties or their respective Representatives.

c. The Escrow Agent will not be liable for any loss of or depreciation in the value of the cash or property comprising the Escrow Fund including, without limitation, any loss caused by closure or failure of a bank, except if caused by the Escrow Agent's own negligence or willful misconduct.

d. The Escrow Agent will not be liable for damage resulting from the willful or negligent acts or omissions or failures to perform of any third party, including the failure of any means of communications, the closing of or other unavailability of a bank or trust company, the loss of any documents in the mails, or the failure of any delivery service to deliver as instructed.

e. The Escrow Agent will not be liable to any person for the failure of another Party or Representative to perform any of the acts or duties which are referred to in or contemplated by this Agreement.

f. The Escrow Agent has no responsibility with respect to the construction or operation of the Calas Park Stormwater SEP.

g. The Escrow Agent may consult with counsel concerning any of its duties or responsibilities under this Agreement.

h. The Parties hereto (other than the Escrow Agent) authorize and request the Escrow Agent to enter into this Agreement.

i. The Escrow Agent shall have the right to accept and act upon instructions, including funds transfer instructions ("Instructions") given pursuant to this Agreement and delivered using Electronic Means ("Electronic Means" shall mean the following communications methods: e-mail, facsimile transmission, secure electronic transmission containing applicable authorization codes, passwords and/or authentication keys issued by the Escrow Agent, or another method or system specified by the Escrow Agent as available for use in connection with its services hereunder); provided, however, that the District and the City shall provide to the Escrow Agent an incumbency certificate listing the Representatives with the authority to provide such Instructions and containing specimen signatures of such Representatives, which incumbency certificate shall be amended by the District and the City whenever a person is to be added or deleted from the listing. If the District or the City elects to give the Escrow Agent Instructions using Electronic Means and the Escrow Agent in its discretion elects to act upon such Instructions, the Escrow Agent's reasonable understanding of such Instructions shall be deemed controlling. The District and the City understand and agree that the Escrow Agent cannot determine the identity of the

actual sender of such Instructions and that the Escrow Agent shall conclusively presume that directions that purport to have been sent by a Representative listed on the incumbency certificate provided to the Escrow Agent have been sent by such Representative. The District and the City shall be responsible for ensuring that only authorized Representatives transmit such Instructions to the Escrow Agent and that the District and the City and all Representatives are solely responsible to safeguard the use and confidentiality of applicable user and authorization codes, passwords and/or authentication keys upon receipt by the District and the City. The Escrow Agent shall not be liable for any losses, costs or expenses arising directly or indirectly from the Escrow Agent's reliance upon and compliance with such Instructions notwithstanding such directions conflict or are inconsistent with a subsequent written instruction; provided, however, that Escrow Agent's understanding of the Instructions are reasonable. The District and the City agree: (i) to assume all risks arising out of the use of Electronic Means to submit Instructions to the Escrow Agent, including without limitation the risk of the Escrow Agent acting on unauthorized Instructions, and the risk of interception and misuse by third parties; (ii) that it is fully informed of the protections and risks associated with the various methods of transmitting Instructions to the Escrow Agent and that there may be more secure methods of transmitting Instructions than the method(s) selected by the District and the City; (iii) that the security procedures (if any) to be followed in connection with its transmission of Instructions provide to it a commercially reasonable degree of protection in light of its particular needs and circumstances; and (iv) to notify the Escrow Agent immediately upon learning of any compromise or unauthorized use of the security procedures.

The Parties are executing this Agreement as of the Effective Date.

U.S. BANK TRUST COMPANY, NATIONAL ASSOCIATION

By: _____

Lauren Costales
Vice President

COUNTY SANITATION DISTRICT NO. 2 OF LOS ANGELES COUNTY

By: Robert C. Ferrante
Chief Engineer and General Manager

APPROVED AS TO FORM:
Lewis Brisbois Bisgaard & Smith, LLP

By: Jessica Lienau
District Counsel

CITY OF CARSON, a municipal corporation

Lula Davis Holmes
Lula Davis-Holmes, Mayor

ATTEST:
K. Bradshaw
Dr. Khaleah K. Bradshaw, City Clerk

CITY OF CARSON, CALIFORNIA
FUTURE UNLIMITED

APPROVED AS TO FORM:
ALESHIRE & WYNDER, LLP

Sunny K. Soltani, City Attorney

Exhibit A

Administrative Civil Liability Order (Order No. RF-2023-0088)

LOS ANGELES REGIONAL WATER QUALITY CONTROL BOARD

In the Matter of:	ORDER R4-2023-0088
Los Angeles County Sanitation Districts' Joint Outfall System, Collection System **Sanitary Sewer Overflows (2018-2022)**	**SETTLEMENT AGREEMENT AND STIPULATION FOR ENTRY OF ADMINISTRATIVE CIVIL LIABILITY ORDER**

I. Introduction

1. This Settlement Agreement and Stipulation for Entry of Administrative Civil Liability Order (Stipulated Order or Order) is entered into by and between the Assistant Executive Officer of the California Regional Water Quality Control Board, Los Angeles Region (Los Angeles Water Board), on behalf of the Los Angeles Water Board Prosecution Team (Prosecution Team), and the Los Angeles County Sanitation Districts' Joint Outfall System (JOS) collection system via County Sanitation District No. 2 of Los Angeles County, a special district organized and existing under the provisions of California Health and Safety Code sections 4700 *et seq*. in its capacity as the Administrative District for the JOS[1], (Discharger) (collectively known as the Parties) and is presented to the Los Angeles Water Board, or its delegee, for adoption as an order by settlement, pursuant to Water Code section 13323 and Government Code section 11415.60.

II. Recitals

2. The Los Angeles County Sanitation Districts are a confederation of 24 independent special districts that provide wastewater and solid waste management for approximately 5.5 million people in Los Angeles County. 17 of the 24 special districts proportionally share ownership and operation of the JOS, a regional interconnected system of wastewater conveyance and treatment facilities that include 1,220 miles

[1] Pursuant to a Joint Outfall Agreement, 17 of the 24 County Sanitation Districts of Los Angeles County operate and maintain a wastewater collection, treatment, and disposal system known as the Joint Outfall System that serves approximately 5.5 million people in the Los Angeles Basin. The events described herein all occurred within the Joint Outfall System. Ownership and operation of the Joint Outfall System is proportionally shared among the signatory parties to the Joint Outfall Agreement effective July 1, 2022. These parties include Los Angeles County Sanitation Districts Nos. 1, 2, 3, 5, 8, 15, 16, 17, 18, 19, 21, 22, 23, 28, 29, and 34, and South Bay Cities Sanitation District of Los Angeles County. County Sanitation District No. 2 of Los Angeles County acts as the Administrative District on behalf of the 17 districts for various purposes, including entering agreements.

of sewers to convey approximately 350 million gallons per day of wastewater to 7 wastewater treatment plants. *See*, *infra*, footnote 1.

3. The Discharger's sanitary sewer system is regulated by the *Statewide General Waste Discharge Requirements for Sanitary Sewer Systems*, Order No. 2006-0003-DWQ, as revised by WQ-2013-0058-EXEC (SSS WDRs). The Discharger has been subject to the SSS WDRs since that permit's adoption in 2006.

4. The SSS WDRs require the Discharger to operate and maintain its collection system to prevent sanitary sewer overflows and spills. Prohibition C.1 of the SSS WDRs states that the discharge of untreated or partially treated wastewater from the collection system to water of the United States is prohibited.

5. Clean Water Act section 301 (33 U.S.C. §1311) and California Water Code (Water Code) section 13376 prohibit the discharge of pollutants to surface waters except in compliance with a National Pollutant Discharge Elimination System (NPDES) permit. The SSS WDRs is not an NPDES permit.

6. The Prosecution Team alleges that between January 25, 2018, and September 6, 2022, the Discharger discharged over 8.5 million gallons of untreated domestic and municipal wastewater from its collection system to waters of the United States. Specifically, as described in Attachment A, herein incorporated by reference, the Prosecution Team alleges two violations:

    a. Violation 1: Discharge of 8,507,790 gallons of untreated wastewater to the Dominguez Channel Estuary on December 30-31, 2021.

    b. Violation 2: Discharge of an additional 108,414 gallons of untreated wastewater during 13 separate spills that took place between January 25, 2018, and September 6, 2022. These discharges entered the following waterbodies: Rio Hondo, Dominguez Channel, Los Angeles River, Alhambra Wash, San Jose Creek, Machado Lake, Arroyo Seco Channel, and Malaga Creek.

7. For both violations, the Prosecution Team alleges the Discharger violated Prohibition C.1 of the SSS WDRs, Clean Water Act section 301, and Water Code section 13376 by discharging untreated wastewater to a water of the state and the United States.

8. Pursuant to Water Code section 13385(a), any person who violates Water Code section 13376 or any requirements of Clean Water Act section 301 is subject to administrative civil liability pursuant to Water Code section 13385(c), in an amount not to exceed the sum of both of the following: (1) ten thousand dollars ($10,000) for

each day in which the violation occurs; and (2) where there is a discharge, any portion of which is not susceptible to cleanup or is not cleaned up, and the volume discharged but not cleaned up exceeds 1,000 gallons, an additional liability not to exceed ten dollars ($10) multiplied by the number of gallons by which the volume discharged but not cleaned up exceeds 1,000 gallons.

9. Additionally, the unauthorized discharge of untreated wastewater to a water of the state in violation of Prohibition C.1 of the SSS WDRs is subject to administrative civil liability under Water Code section 13350. The Prosecution Team has elected to pursue enforcement pursuant to Water Code section 13385(a) instead of Water Code section 13350.

10. On April 4, 2017, the State Water Resources Control Board (State Water Board) adopted Resolution No. 2017-0020, which adopted the *2017 Water Quality Enforcement Policy* (Enforcement Policy). The Enforcement Policy was approved by the Office of Administrative Law and became effective on October 5, 2017.

11. The Enforcement Policy establishes a methodology for assessing administrative civil liability. Use of the methodology incorporates Water Code section13385(e) that requires the Los Angeles Water Board to consider specific factors when determining the amount of civil liability to impose, including "…the nature, circumstance, extent, and gravity of the violation or violations, whether the discharge is susceptible to cleanup or abatement, the degree of toxicity of the discharge, and, with respect to the violator, the ability to pay, the effect on ability to continue its business, any voluntary cleanup efforts undertake, any prior history of violations, the degree of culpability, economic benefit or savings, if any, resulting from the violation, and other matters that justice may require."

12. Pursuant to the Enforcement Policy, section VI.B. (Settlement Considerations), the Prosecution Team agreed during settlement negotiations to reduce the administrative civil liability amount contained in the penalty calculation methodology included as Attachment A in consideration of hearing and/or litigation risks.

13. The Parties have engaged in confidential settlement negotiations and agree to fully settle the violations alleged in this Stipulated Order and Attachment A without administrative or civil litigation and by presenting this Stipulation to the Los Angeles Water Board, or its delegee, for adoption as an Order by settlement, pursuant to Water Code section 13323 and Government Code section 11415.60.

14. To resolve the violations by consent and without further administrative or civil proceedings, the Parties have agreed to the imposition of an administrative civil liability against the Discharger in the amount of six million dollars ($6,000,000). The

Prosecution Team believes that the resolution of the alleged violations is fair and reasonable and fulfills its enforcement objectives, that no further action is warranted concerning the violations alleged herein, and that this Stipulated Order is in the best interest of the public.

III. Stipulations

The Parties stipulate to the following:

1. **Jurisdiction:** The Parties agree that the Los Angeles Water Board has subject matter jurisdiction over the matters alleged in this action and personal jurisdiction of the Parties to this Stipulation.

2. **Administrative Civil Liability:** The Discharger hereby agrees to the imposition of an administrative civil liability in the amount of **six million dollars ($6,000,000)** to resolve the violations specifically alleged in this Stipulated Order as follows:

   a. No later than thirty (30) days after the effective date of this Order, the Discharger shall submit a check for **twenty thousand dollars ($20,000)** to the State Water Board. The check shall be made payable to the "State Water Pollution Cleanup and Abatement Account," reference Order No. R4-2023-0088, and be mailed to:

      State Water Resources Control Board Accounting Office
      Attn: ACL Payment
      P.O. Box 1888
      Sacramento, CA 95812-1888

      The Discharger shall provide a copy of the check via email to the State Water Board, Office of Enforcement (Kailyn.Ellison@waterboards.ca.gov) and to the Los Angeles Water Board (Russ.Colby@waterboards.ca.gov).

   b. The Parties agree that the remaining **five million nine hundred eighty thousand dollars ($5,980,000)** (SEP amount) of the administrative civil liability shall be utilized to implement the *Calas Park Stormwater and Water Quality Improvements Supplemental Environmental Project* (Calas Park Stormwater SEP) as described herein and in Attachment B, which is hereby incorporated by reference. The Calas Park Stormwater SEP is designed to capture and pre-treat 2.8 acre-feet of stormwater annually, and then infiltrate the stormwater onsite through the use of underground storage vaults, bioswales, rain gardens, and infiltration galleries.

c. The State Water Board's May 3, 2018 Policy on Supplemental Environmental Projects (SEP Policy) section VIII.B. provides:

> Unless otherwise permitted by statute or approved by the Director of [the Office of Enforcement (OE)] based on a finding of compelling justification due to exceptional circumstances . . . no settlement shall be approved by the Water Boards that fund a [Supplemental Environmental Project (SEP)] in an amount greater than 50 percent of the total adjusted monetary assessment against the settling party. The total adjusted monetary assessment is the total amount assessed, exclusive of a Water Board's investigative and enforcement costs.

The Director of OE may approve a proposed settlement to fund a SEP in an amount greater than 50 percent of the total adjusted monetary assessment in cases where the SEP is located in or benefits a disadvantaged community, an environmental justice community, a community that has a financial hardship, or where the SEP substantially furthers the human right to water. The Calas Park Stormwater SEP is within areas that have a Disadvantaged Community (DAC) score within the top 25%, as found in the CalEnviroScreen 4.0. The particular tract in which Calas Park is located scored in the 92nd percentile as a DAC.

Pursuant to the Director of OE's April 30, 2021 memorandum on approving disadvantaged community and environmental justice SEPs greater than 50 percent of the total adjusted monetary assessment (SEP Memo), more than 50 percent to the total adjusted monetary assessment may be dedicated to the SEP because it is located in and/or benefits a disadvantaged community as described in Attachment B. Notice and an opportunity to object was provided to the Director of OE.

3. **SEP Requirements:** The Parties agree that the SEP Amount specified in Section III, paragraph 2.b., is for the Calas Park Stormwater SEP identified in Attachment B and that SEP Amount shall be treated as a suspended administrative civil liability at the time of project completion for purposes of this Stipulated Order. The Los Angeles Water Board is entitled to recover any SEP funds that are not expended in accordance with this Stipulated Order. Detailed project descriptions, including milestones, budgets, and performance measures are attached hereto as Attachment B.

4. **Representation of the Discharger:** As a material consideration for the Los Angeles Water Board's acceptance of this Order, the Discharger represents that it will utilize

the SEP Amount to implement the Calas Park Stormwater SEP in accordance with terms and conditions described in this Stipulated Order and Attachment B. The Discharger understands that its commitment to implement the Calas Park Stormwater SEP in accordance with the schedule and deliverables for implementation is a material condition of this settlement of liability between the Parties.

5. **Nexus to the Violation:** The SEP Policy requires that a SEP have a nexus to the alleged violation. (SEP Policy, section VIII.F.) The Calas Park Stormwater SEP has a geographic nexus to Violation 1 as it is within the same watershed (Dominguez Channel) and approximately two miles from the location of the sanitary sewer overflow alleged under Violation 1; the Calas Park Stormwater SEP also has a geographic nexus to Violation 2 as it is within 50 miles of the sanitary sewer overflows alleged under Violation 2. The Calas Park Stormwater SEP will reduce the potential for several types of pollutants, including bacteria and metals, to enter the Dominguez Channel.

6. **SEP Categories:** The SEP Policy provides for seven categories of SEPs. (SEP Policy, section V.) The Calas Park Stormwater SEP falls under the "Pollution Prevention" and "Pollution Reduction" categories. The project will capture and infiltrate stormwater, thus reducing the mobilization of stormwater-associated pollutants such as zinc and bacteria from the drainage area, and reducing the volume and magnitude of stormwater runoff to the Dominguez Channel. In addition, the construction of the project, and the included stormwater education signage, will promote public awareness and education regarding urban runoff and the need to prevent pollution and protect water quality.

7. **SEP Oversight:** The City of Carson Public Works Department will implement the Calas Park Stormwater SEP on behalf of the Discharger. The Los Angeles Water Board will provide additional oversight of the Calas Park Stormwater SEP, which includes, but is not limited to, updating regulatory and records databases, reviewing and evaluating progress, conducting site inspections, reviewing the final completion report, and verifying appropriate expenditure of the SEP Amount.

8. **SEP Completion Date:** Pursuant to SEP Policy section VIII.B., the Director of OE may approve a project implementation schedule memorialized in a stipulated order allowing for a SEP to be completed within 48 months based on a finding that a SEP provides an exceptional environmental benefit. On June 1, 2023, the Director of OE granted the Prosecution Team's request for the 48-month project implementation schedule through issuance of the *Director of the Office of Enforcement's Findings of*

Exception Environmental Benefit for the Calas Park Stormwater SEP with a 48-Month Project Schedule, based on finding an exceptional environmental benefit.

9. **Reporting Requirements for the SEP:** The Discharger will provide the following reports to the Los Angeles Water Board:

   a. **Quarterly Reports:** Quarterly Reports must be submitted in accordance with the schedule provided in Attachment B (*i.e.*, by May 1, August 1, November 1, and February 1 each year). **The first Quarterly Report is due on February 1, 2024**, and is to cover the period of October through December 2023. The Quarterly Reports must describe the tasks completed and funds expended during the previous quarter, and proposed work for the following quarter. In addition, the Quarterly Reports must describe whether the Discharger is in compliance with the milestones and deadlines contained in Attachment B, and if not, the cause(s) of the delay(s) and the anticipated date of compliance with this Stipulated Order. The Quarterly Reports may also include descriptions and photos of activities completed during the previous quarter and an analysis of the Calas Park Stormwater SEP's progress.

   b. **Certification of SEP Completion:** No later than 54-months after the effective date of the Stipulated Order, the Discharger must submit a final report that documents SEP completion and provides a certified statement of SEP completion (Certification of SEP Completion), signed under penalty of perjury, that documents the following:

      i. Certification of completion in accordance with the terms of this Stipulated Order, addressing how the expected outcome(s) for the project were met,

      ii. Certification documenting the expenditures by the Discharger and/or the City of Carson during the completion period for the Calas Park Stormwater SEP, and

      iii. Certification that the Discharger and/or the City of Carson followed all applicable environmental laws and regulations in implementing the SEP, including the California Environmental Quality Act, Porter-Cologne Water Quality Control Act, and federal Clean Water Act.

      Documentation of SEP completion may include photographs, invoices, receipts, certifications, and other materials reasonably necessary for the Los Angeles Water Board to evaluate SEP completion and the costs incurred.

10. **Publicity Associated with the SEP:** Whenever the Discharger or its agents (City of Carson) publicizes one or more SEP elements, it shall state in a prominent manner that the project is undertaken as part of a settlement of a Los Angeles Water Board enforcement action against the Discharger.

11. **Site Inspections:** Delivery of the SEP amount by the Discharger to the City of Carson will be conditioned upon (a) the Los Angeles Water Board staff being permitted by the City of Carson to inspect the Calas Park Stormwater SEP implementation locations during normal business hours, provided reasonable notice is provided to the City of Carson, and (b) the City of Carson providing access to documents associated with Calas Park Stormwater SEP implementation for review by Los Angeles Water Board staff upon request.

12. **SEPs are Above and Beyond the Discharger's Obligations:** The Calas Park Stormwater SEP included in this Stipulated Order contains only measures that go above and beyond the Discharger's obligations. The Calas Park Stormwater SEP is not part of the Discharger's normal business nor is the Discharger otherwise legally required to implement any portion of the Calas Park Stormwater SEP.

13. **No Benefit to Los Angeles Water Board Functions, Members, or Staff:** The Calas Park Stormwater SEP provides no direct fiscal benefit to the Los Angeles Water Board's functions, its members, its staff, or any family member of staff.

14. **Los Angeles Water Board Not Liable:** The Los Angeles Water Board and its members, staff, attorneys, and representatives shall not be liable for any injury or damage to persons or property resulting from negligent or intentional acts or omissions by the Discharger or its directors, officers, employees, agents, representatives, or contractors in carrying out activities pursuant to this Stipulated Order.

15. **Third Party Audit:** The SEP Policy requires that if a project has a direct cost of over one million dollars, the Discharger must have a third-party financial audit performed after the completion of the project. Pursuant to Section IX.I of the SEP Policy, the Discharger shall submit an audit report prepared by an independent third party, acceptable to the Los Angeles Water Board, providing such party's professional opinion that the Discharger has expended money in the amount claimed by the Discharger. This audit report shall be at the sole cost of the Discharger and shall be submitted within six (6) months of the SEP Completion Date. The audit need not address any costs incurred by the Los Angeles Water Board for SEP oversight.

16. **Request for Extension of Completion Date:** If the Discharger anticipates delay in the schedule for any milestone or deadline resulting in the need to extend the Completion Date, the Discharger, and/or the Discharger's agents, shall notify the Executive Officer in writing at least thirty (30) days prior to the deadline or completion date of the event or circumstance that caused delay. The notice shall describe the reason for the inability to complete the milestone deadline or the SEP by the SEP Completion Date and specifically refer to this Paragraph. The notice shall describe the anticipated length of time the delay may persist, the cause or causes of the delay including whether the circumstance(s) was beyond the reasonable control of the Discharger and/or the Discharger's agents (*e.g.,* City of Carson), the measures taken or to be taken to minimize the delay, and provide an updated milestone schedule by which the measures will be implemented. The Discharger shall adopt all reasonable measures to avoid and minimize such delays.

    The determination as to whether the circumstances were beyond the reasonable control of the Discharger, and/or the Discharger's agents will be made by the Executive Officer. Where the Executive Officer concurs that compliance was or is impossible, despite timely good faith efforts, due to circumstances beyond its control that could not have been reasonably foreseen and prevented by the exercise of reasonable diligence by the Discharger and/or the Discharger's agents, a new compliance deadline shall be established. The Executive Officer will endeavor to grant a reasonable extension of time if warranted.

17. **Failure to Expend the SEP Amount on the Approved SEP:** If the Discharger is not able to demonstrate to the reasonable satisfaction of the Executive Officer that the entire SEP Amount was spent on the completed Calas Park Stormwater SEP, the Discharger shall pay the difference between the SEP Amount and the amount the Discharger can demonstrate was actually spent on the Calas Park Stormwater SEP (the Difference). The Executive Officer shall issue a "Notice of Violation" that will require the Discharger to pay the Difference to the State Water Pollution Cleanup and Abatement Account within thirty (30) days of the Notice of Violation's issuance date. The Discharger shall submit payment consistent with the payment method described in Section III, paragraph 2.a., above. Payment of the Difference shall satisfy the Discharger's obligations to implement the Calas Park Stormwater SEP.

18. **Failure to Complete the SEP:** If the Calas Park Stormwater SEP is not fully implemented by the SEP Completion Date listed in Attachment B, or if there has been a material failure to satisfy a project milestone necessary to implement the Calas Park Stormwater SEP, the Executive Officer shall issue a "Notice of Failure to Complete SEP". The amount of suspended liability owed shall be determined via a

Motion for Payment of Suspended Liability before the Los Angeles Water Board or its delegee. The Discharger shall be liable to pay the entire SEP Amount, or, if shown by the Discharger, some portion thereof less the value of any completed milestones as stipulated to by the Parties in writing, or as determined by the Motion for Payment of Suspended Liability. Unless the Los Angeles Water Board or its delegee determines otherwise, the Discharger shall not be entitled to any credit, offset, or reimbursement from the Los Angeles Water Board for expenditures made on the Calas Park Stormwater SEP prior to the issuance date of the Notice. Within thirty (30) days of the Los Angeles Water Board's or its delegee's determination of the suspended liability amount assessed for the Discharger to pay, the Discharger shall submit payment consistent with the payment method described in Section III, paragraph 2.a., above. Payment of the assessed amount shall satisfy the Discharger's obligations to implement the Calas Park Stormwater SEP.

19. **Replacement SEP:** If there is a material failure, in whole or in part, to perform the Calas Park Stormwater SEP described in Section III, paragraph 2.b., and Attachment B, due to circumstances beyond the control of the Discharger and/or the Discharger's agents (*e.g.,* the City of Carson), and the Los Angeles Water Board does not move to collect the Payment of Suspended Liability amount as provided in Section III, paragraph 18, above, the Parties agree that the Discharger may propose a Replacement SEP. Whether there is a material failure to perform the Calas Park Stormwater SEP described in Section III, paragraph 2.b., and Attachment B shall be determined by the Executive Officer. The Discharger shall have sixty (60) days from the date of the Executive Officer's determination to propose a Replacement SEP(s). The cost of the Replacement SEP shall be for the entire SEP Amount, or some portion thereof less the value of any completed milestones as stipulated to by the Parties in writing and shall be treated as a suspended liability subject to the same conditions provided for the SEP being replaced. The terms and conditions of the Replacement SEP shall be memorialized in a Supplemental Agreement to this Stipulated Order, signed by both parties and approved by the Los Angeles Water Board or its delegee. The Replacement SEP shall meet the criteria in the SEP Policy, and shall be completed within 36 months of the Los Angeles Water Board's or its delegee's approval of the Supplemental Agreement (Replacement SEP Completion Date). The Executive Officer may grant an extension for good cause shown as to why the Replacement SEP cannot be completed by the Replacement SEP Completion Date. The Parties agree that, unless requested by the Executive Officer, the Supplemental Agreement will not be subject to public notice and comment so long as the initial notice and comment period complied with federal and/or state requirements. If there is a material failure to perform a Replacement SEP, then the Executive Officer shall issue a "Notice of Failure to Complete SEP" as described in

Section III, paragraph 18. The Discharger shall not have an opportunity to propose a second Replacement SEP should it fail to complete the Replacement SEP for any reason.

20. **Los Angeles Water Board Acceptance of Completed SEP:** Upon the Discharger's satisfaction of its obligations under this Stipulated Order, the completion of the Calas Park Stormwater SEP and any audits, the designated Los Angeles Water Board or its delegee shall issue a "Satisfaction of Order." The issuance of the Satisfaction of Order will terminate any further obligation of the Discharger under this Stipulated Order and permanently suspend the SEP Amount.

21. **Compliance with Applicable Laws and Regulatory Changes:** The Discharger understands that payment of an administrative civil liability in accordance with the terms of this Stipulated Order and/or compliance with the terms of this Stipulated Order is not a substitute for compliance with applicable laws, and that additional violations of the type alleged may subject it to further enforcement, including additional administrative civil liabilities. Nothing in this Stipulated Order shall excuse the Discharger from meeting any more stringent requirements which may be imposed hereafter by changes in applicable and legally binding legislation or regulations.

22. **Party Contacts for Communications Related to Stipulated Order:**

    For the Los Angeles Water Board:
    Russ Colby, Environmental Program Manager
    Los Angeles Regional Water Quality Control Board
    (213) 620-6375
    russ.colby@waterboards.ca.gov

    For the Discharger:
    Lysa Gaboudian, Supervising Engineer
    Los Angeles County Sanitation Districts
    (562) 908-4288, extension 2811
    lgaboudian@lacsd.org

23. **Attorneys' Fees and Costs:** Except as otherwise provided herein, each Party shall bear all attorneys' fees and costs arising from the Party's own counsel in connection with the matters set forth herein.

24. **Covered Matters**: Upon the Los Angeles Water Board's or its delegee's adoption of this Order, this Order presents a final and binding resolution and settlement of the

alleged violations in this Stipulated Order. The provisions of this Paragraph are expressly conditioned on the full payment of the administrative civil liability by the deadline specified in Section III, paragraph 2.a., and the successful completion of the Calas Park Stormwater SEP as outlined in this Stipulated Order and Attachment B, or full payment of the associated SEP Amount.

25. **Public Notice:** The Discharger understands that this Stipulated Order will be noticed for a thirty (30)-day public review and comment period prior to consideration by the Los Angeles Water Board, or its delegee. If significant new information is received that reasonably affects the propriety of presenting this Stipulated Order to the Los Angeles Water Board, or its delegee, for adoption, the Assistant Executive Officer may unilaterally declare this Stipulated Order void and decide not to present it to the Los Angeles Water Board, or its delegee. The Discharger agrees that it may not rescind or otherwise withdraw its approval of this proposed Stipulated Order.

26. **Procedure:** The Parties agree that the procedure that has been adopted for the approval of the settlement by the Parties and review by the public, as reflected in this Order, will be adequate. In the event procedural objections are raised prior to this Stipulated Order becoming effective, the Parties agree to meet and confer concerning any such objections, and may agree to revise or adjust the procedure as necessary or advisable under the circumstances.

27. **No Waiver of Right to Enforce:** The failure of the Prosecution Team or Los Angeles Water Board to enforce any provision of this Stipulated Order shall in no way be deemed a waiver of such provision, or in any way affect the validity of this Stipulated Order. The failure of the Prosecution Team or Los Angeles Water Board to enforce any such provision shall not preclude it from later enforcing the same or any other provision of this Stipulated Order except the Los Angeles Water Board must comply with applicable requirements regarding timeliness of bringing action. No oral advice, guidance, suggestions, or comments by employees or officials of any Party regarding matters covered under this Stipulated Order shall be construed to relieve any Party regarding matters covered in this Stipulated Order. The Los Angeles Water Board reserves all rights to take additional enforcement actions, including without limitation, the issuance of administrative civil liability complaints or orders for violations other than those addressed by this Order.

28. **Effect of Stipulated Order:** Except as expressly provided in this Stipulated Order, nothing in this Stipulated Order is intended nor shall it be construed to preclude the Los Angeles Water Board or any state agency, department, board or entity or any local agency from exercising its authority under any law, statute, or regulation.

29. **Interpretation:** This Stipulated Order shall not be construed against the party preparing it, but shall be construed as if the Parties jointly prepared it and any uncertainty and ambiguity shall not be interpreted against any one party.

30. **Modification:** This Stipulated Order shall not be modified by any of the Parties by oral representation whether made before or after the execution of this Order. All modifications must be made in writing and approved by the Los Angeles Water Board or its delegee.

31. **Integration:** This Stipulated Order constitutes the entire agreement between the Parties and may not be amended or supplemented except as provided for in this Stipulated Order.

32. **If Order Does Not Take Effect:** The Discharger's obligations under this Stipulated Order are contingent upon the entry of the Order of the Los Angeles Water Board as proposed. In the event that this Stipulated Order does not take effect because it is not approved by the Los Angeles Water Board, or its delegee, or is vacated in whole or in part by the State Water Board or a court, the Parties acknowledge that the Prosecution Team may proceed to a contested evidentiary hearing before the Los Angeles Water Board to determine whether to assess an administrative civil liability for the underlying alleged violations, or may continue to pursue settlement. The Parties agree that all oral and written statements and agreements made during the course of settlement discussions will not be admissible as evidence in any subsequent administrative or judicial proceeding or hearing and will be fully protected by California Evidence Code sections 1152 and 1154; California Government Code section 11415.60; Rule 408, Federal Rules of Evidence; and any other applicable privilege under federal and/or state law. The Parties also agree to waive any and all objections related to their efforts to settle this matter, including, but not limited to:

    a. Objections related to prejudice or bias of any of the Los Angeles Water Board members or their advisors and any other objections to the extent that they are premised in whole or in part on the fact that the Los Angeles Water Board members or their advisors were exposed to some of the material facts and the Parties settlement positions, and therefore may have formed impressions or conclusions, prior to conducting any contested evidentiary hearing in this matter; or

b. Laches or delay or other equitable defenses based on the time period that the Order or decision by settlement may be subject to administrative or judicial review.

33. **Waiver of Hearing:** The Discharger has been informed of the rights provided by Water Code section 13323, subdivision (b), and, if the settlement is adopted by the Los Angeles Water Board or its delegee, hereby waives its right to a hearing before the Los Angeles Water Board prior to the Stipulated Order's adoption. However, should the settlement not be adopted, and should the matter proceed to the Los Angeles Water Board or State Water Board for hearing, the Discharger does not waive the right to a hearing before an order is imposed.

34. **Waiver of Right to Petition:** Except in the instance where the settlement is not adopted by the Los Angeles Water Board, the Discharger hereby waives the right to petition the Los Angeles Water Board's adoption of the Stipulated Order to the State Water Board, and further waives the right, if any, to appeal the adopted Stipulated Order to a California Superior Court and/or any California appellate level court.

35. **Covenant Not to Sue:** The Discharger covenants not to sue or pursue any administrative or civil claim(s) against any State Agency or the State of California, their officers, Board Members, employees, representatives, agents, or attorneys arising out of or relating to any matter expressly addressed by this Stipulated Order.

36. **Authority to Bind:** Each person executing this Stipulated Order in a representative capacity represents and warrants that they are authorized to execute this Order on behalf of and to bind the entity on whose behalf the Order is executed.

37. **Necessity for Written Approvals:** All approvals and decisions of the Los Angeles Water Board under the terms of this Stipulated Order shall be communicated to the Discharger in writing. No oral advice, guidance, suggestions, or comments by employees or officials of the Los Angeles Water Board regarding submissions or notices shall be construed to relieve the Discharger of its obligation to obtain any final written approval required by this Stipulated Order.

38. **No Third Party Beneficiaries:** This Stipulated Order is not intended to confer any rights or obligation on any third party or parties, and no third party or parties shall have any right of action under this Stipulated Order for any cause whatsoever.

39. **No Admission of Liability/No Waiver of Defenses:** In settling this matter, the Discharger does not admit to any of the allegations stated herein or admit to any violations of the Water Code, or any other federal, State, or local law or ordinance,

but recognizes that this Stipulated Order may be used as evidence of a prior enforcement action against the JOS and/or County Sanitation District Nos. 2, 5, 8, 15, 16, and/or 21, consistent with Water Code sections 13327 and 13385, subdivision (e). By entering into this Stipulated Order, the Discharger does not waive any defenses or arguments related to any new enforcement action the Los Angeles Water Board may bring in the future.

40. **Severability:** This Stipulated Order is severable; should any provision be found invalid, the remainder shall remain in full force and effect.

41. **Effective Date:** This Stipulated Order shall be effective and binding on the Parties upon the date the Los Angeles Water Board, or its delegee, enters the Order incorporating the terms of this Stipulated Order.

42. **Counterpart Signatures:** This Order may be executed and delivered in any number of counterparts, each of which when executed and delivered shall be deemed to be an original, but such counterparts shall together constitute one document. Further, this Stipulated Order may be executed by facsimile or electronic signature, and any such facsimile or electronic signature by any Party hereto shall be deemed to be an original signature and shall be binding on such Party to the same extent as if such facsimile or electronic signature were an original signature.

IT IS SO STIPULATED.

California Regional Water Quality Control Board, Los Angeles Region Prosecution Team

By: Hugh Marley Digitally signed by Hugh Marley Date: 2023.09.29 09:12:11 -07'00' 9/29/23

Hugh Marley
Assistant Executive Officer

Date

County Sanitation District No. 2 of Los Angeles County on behalf of the Joint Outfall System

By: Robert C Ferrante 9/28/23

Robert C. Ferrante
Chief Engineer and General Manager

Date

Approved as to Form:

By: Nicole Granquist Digitally signed by Nicole Granquist Date: 2023.09.29 01:27:24 -07'00' 9/29/23

Nicole E. Granquist
Downey Brand LLP
Special Counsel for County Sanitation District No. 2 of Los Angeles County/JOS

Date

HAVING CONSIDERED THE PARTIES' STIPULATIONS, THE LOS ANGELES REGIONAL WATER QUALITY CONTROL BOARD FINDS THAT:

1. The foregoing Stipulation is fully incorporated herein and made part of this Order.

2. This is an action to enforce the laws and regulations administered by the Los Angeles Water Board. The Los Angeles Water Board finds that issuance of this Order is exempt from the provisions of the California Environmental Quality Act (Public Resources Code, sections 21000 et seq.), in accordance with section 15321, subdivision (a)(2), Title 14, of the California Code of Regulations.

3. The Executive Officer of the Los Angeles Water Board is authorized to refer this matter directly to the Attorney General for enforcement if the Discharger fails to perform any of its obligations under this Order.

Pursuant to Water Code section 13323 and Government Code section 11415.60, **IT IS HEREBY ORDERED** on behalf of the California Regional Water Quality Control Board, Los Angeles Region.

Susana Arredondo Digitally signed by Susana Arredondo Date: 2024.01.17 16:21:30 -08'00'

Susana Arredondo
Executive Officer
Los Angeles Regional Water Quality Control Board

1/17/24
Date

Attachment A: Penalty Calculation Methodology
Attachment B: Calas Park Stormwater and Water Quality Improvements Supplemental Environmental Project Workplan

ATTACHMENT A
PENALTY CALCULATION METHODOLOGY
ORDER NO. R4-2023-0088
FOR
LOS ANGELES COUNTY SANITATION DISTRICTS' JOINT OUTFALL SYSTEM
SANITARY SEWER OVERFLOWS (2018-2022)[1]
LOS ANGELES COUNTY

This document provides details to support a discretionary administrative civil liability in response to the Los Angeles County Sanitation Districts' Joint Outfall System's (JOS or Discharger) violation of California Water Code (CWC) section 13376, Clean Water Act section 301, and the State Water Resources Control Board (State Water Board) *Statewide General Waste Discharge Requirements for Sanitary Sewer Systems*, Order No. 2006-0003-DWQ (SSS WDR) for sanitary sewer overflows (SSOs) which took place from January 25, 2018 through September 6, 2022.

The Los Angeles Regional Water Quality Control Board (Los Angeles Water Board) Prosecution Team has derived the proposed administrative civil liability following the State Water Resources Control Board's (State Water Board's) 2017 Water Quality Enforcement Policy[2] (Enforcement Policy).

Application of the Enforcement Policy

The Enforcement Policy establishes a methodology for assessing administrative civil liability considering specific factors required by CWC sections 13327 and 13385, subdivision (e), including "…the nature, circumstance, extent, and gravity of the violation or violations, whether the discharge is susceptible to cleanup or abatement, the degree of toxicity of the discharge, and, with respect to the violator, the ability to pay, the effect on its ability to continue its business, any voluntary cleanup efforts undertaken, any prior history of violations, the degree of culpability, economic benefit or savings, if any, resulting from the violation, and other matters that justice may require." This document applies the methodology associated with the Enforcement Policy's steps, as discussed in detail below.

Summary of Alleged Violations

This administrative civil liability addresses alleged Category 1 violations of the SSS WDR that occurred between January 25, 2018, and September 6, 2022. Category 1 spills are

[1] This administrative civil liability addresses all overflows from January 25, 2018 through September 6, 2022 other than the December 25, 2020 spill of 222,542 gallons from the sewage force main at the Long Beach Water Reclamation Plant (CIWQS spill ID 871320). The Los Angeles Water Board reserves its right to undertake separate discretionary enforcement for that event.

[2] https://www.waterboards.ca.gov/board_decisions/adopted_orders/resolutions/2017/040417_9_final%20adopted%20policy.pdf

discharges of untreated or partially treated wastewater resulting from a sanitary sewer system failure in which the spill reaches surface water and/or a drainage channel tributary to a surface water; or reaches a Municipal Separate Storm Sewer System (MS4) and are not fully captured and returned to the sanitary sewer system or not otherwise captured and disposed of properly. Violation 1 took place on December 30-31, 2021, and is the discharge of over eight million gallons of untreated wastewater to the Dominguez Channel Estuary, a water of the United States. Violation 2 is an aggregate of the 13 additional Category 1 SSOs to waters of the United States that occurred between January 25, 2018, and September 6, 2022[3].

Table 1, below, summarizes the alleged violations that are the subject of this liability assessment, and the Enforcement Policy factors that were used to determine a liability. The remainder of this document contains a full description of each violation, a complete assessment of the factors used to determine the base liability for each violation, and a discussion of the additional factors used to determine the final proposed liability.

Legal Considerations

The Los Angeles County Sanitation Districts is a confederation of 24 independent special districts that serve wastewater and solid waste management to approximately 5.5 million people in Los Angeles County. Pursuant to a Joint Outfall Agreement effective July 1, 2022, 17 of the 24 special districts proportionally share ownership and operation of the JOS, a regional interconnected system of wastewater conveyance and treatment facilities that include 1,220 miles of sewers to convey approximately 350 million gallons per day of wastewater to 7 wastewater treatment plants. The events described herein all occurred within the JOS. These special districts include Los Angeles County Sanitation Districts Nos. 1, 2, 3, 5, 8, 15, 16, 17, 18, 19, 21, 22, 23, 28, 29, and 34, and South Bay Cities Sanitation District of Los Angeles County. County Sanitation District No. 2 of Los Angeles County acts as the Administrative District on behalf of the JOS for various purposes, including entering agreements, such as the settlement agreement and stipulated order. The Discharger has been subject to the SSS WDR since its adoption in 2006.

The SSS WDR prohibits SSOs that result in the discharge of untreated wastewater to surface waters. In particular, Prohibition C.1 states "*Any SSO that results in a discharge of untreated or partially treated wastewater to waters of the United States is prohibited*." In addition, the discharge of wastewater to waters of the United States without a permit is a violation of CWC section 13376 and Clean Water Act section 301.

[3] As noted in footnote 1, these 13 spills do not include the December 25, 2020, spill of 222,542 gallons from the sewage force main at the Long Beach Water Reclamation Plant (CIWQS spill ID 871320).

On 14 separate occasions between January 25, 2018, and September 6, 2022, the Discharger discharged over 8.5 million gallons (total) of untreated domestic and municipal wastewater from its collection system to waters of the United States. The Discharger did not file a report of waste discharge or have a permit to discharge pollutants into waters of the United States. Therefore, these discharges were in violation of the SSS WDR, CWC section 13376, and Clean Water Act section 301.

A discharger who violates CWC section 13376 or Clean Water Act section 301 is subject to administrative civil liability under CWC section 13385, subdivision (a). Additionally, the unauthorized discharge of untreated wastewater in violation of Prohibition C.1 of the SSS WDR is subject to administrative civil liability under CWC section 13350. The Los Angeles Water Board Prosecution Team has elected to pursue enforcement of the alleged violations pursuant to CWC section 13385, subdivision (a). Liability is assessed pursuant to CWC section 13385, subdivision (c), which states, in part:

> *Civil liability may be imposed administratively by the state board or a regional board …in an amount not to exceed the sum of both of the following:*
>
> *(1) Ten thousand dollars ($10,000) for each day in which the violation occurs.*
>
> *(2) Where there is a discharge, any portion of which is not susceptible to cleanup or is not cleaned up, and the volume discharged but not cleaned up exceeds 1,000 gallons, an additional liability not to exceed ten dollars ($10) multiplied by the number of gallons by which the volume discharged but not cleaned up exceeds 1,000 gallons.*

Table 1: Summary of Violations and Liability Calculations								
Summary of Violation	**Potential for Harm Factors**	**Discharge Assessment Factors**	**Gallons (less 1,000) and days of discharge**	**Culpability**	**History of Violations**	**C/C[4]**	**Total Base Liability Amount**	**Statutory Maximum**
1. Discharge of 8,507,790 gallons of untreated wastewater to the Dominguez Channel Estuary	Toxicity=above moderate (3) Harm =major (5) Susceptibility to Cleanup or Abatement = 1 Potential for Harm Score = 9	Deviation from Requirement = major Per gallon and per day factor = 0.8	8,506,790 gallons discharged over two days High volume discharges = $1/gallon	1.3	1.0	0.8	$7,094,289	$85,087,900
2. Remaining Category 1 spills that took place between January 25, 2018 and September 6, 2022. (See Table 2 for a complete listing).	Toxicity=above moderate (3) Harm =moderate (2) Susceptibility to Cleanup or Abatement = 1 Potential for Harm Score = 6	Deviation from Requirement = major Per gallon and per day factor = 0.28	75,046 gallons discharged over 13 days	1.1	1.0	1.0	$271,182	$880,460

Combined Total Base Liability Amount:	$7,365,471
Ability to Pay and Ability to Continue in Business:	The Discharger has the ability to pay and continue in business. The Discharger's 2022 Annual Comprehensive Financial Report shows that the Discharger has a net position of over $1.9 billion; as of April 30, 2023, the Discharger has $466 million in total cash and investments.
Economic Benefit:	$4,594
Other Factors as Justice May Require:	Staff costs = $16,976
Maximum Liability Amount:	$85,968,360
Minimum Liability Amount:	$5,053
Final Liability Amount:	$7,382,447[5]

[4] Cleanup and Cooperation

[5] As explained in Section II, paragraph 12 of the Stipulated Order, the administrative civil liability was reduced to $6,000,000 under Enforcement Policy, section VI.B. (Settlement Considerations) in consideration of hearing and/or litigation risk.

VIOLATION 1:
Discharge of Untreated Wastewater to the Dominguez Channel Estuary

On December 30, 2021, Los Angeles Water Board staff were notified by the California Office of Emergency Service (Cal OES) that untreated wastewater was flowing from a manhole at the intersection of 212th Street and Moneta Avenue in the City of Carson. Cal OES reported that untreated wastewater had entered the Dominguez Channel Estuary, a water of the United States. In subsequent communications, the Discharger clarified that the SSO was due to a collapsed sewer line located between the I-110 Freeway northbound off-ramp to 220th Street and a commercial building located at 22029 S. Figueroa Street in the City of Carson.

According to County Sanitation District No. 8's January 15, 2022 initial SSO Report, the SSO was discovered by a resident at approximately 1:30 p.m. on December 30, 2021. The SSO occurred as a result of the collapse of a 15-foot reach and manhole that caused a total blockage in the 48-inch 216th Street Relocation Trunk Sewer during a significant rain event. The SSO fully ceased[6] at approximately 9:38 p.m. on December 31, 2021. During the two-day period, untreated wastewater overflowed from two manholes and entered a storm drain catch basin at the intersection at 212th Street and Moneta Avenue. This catch basin discharges to the Torrance Lateral, which in turn flows into the Dominguez Channel Estuary. The Dominguez Channel Estuary is a tributary to the Pacific Ocean.

The SSO Report estimated that 8,613,558 gallons of untreated wastewater spilled from the manholes, and of this, 35,000 gallons was recovered prior to reaching surface waters, while 8,578,558 gallons reached the Torrance Lateral. In response to questions from Los Angeles Water Board staff, the Discharger refined its calculations and stated that the spill volume was 8,542,790 gallons, of which 35,000 gallons were recovered prior to reaching surface waters and 8,507,790 gallons of untreated wastewater reached surface waters. The Los Angeles Water Board Prosecution Team agrees with the Discharger's updated calculations.

Step 1. Actual or Potential for Harm for Discharge Violations

The first step for discharge violations is to determine the actual or potential harm to the water body's beneficial uses by using a three-factor scoring system. Because actual harm is not always quantifiable, potential harm may be used for this factor.

[6] The Discharger installed four bypass pumps and the spill temporarily stopped at about 8:00 a.m. on December 31, 2021. However, waste started spilling again at about 10:00 a.m. when the flow within the sewer system increased. A fifth bypass pump was then installed, and the spill was fully contained at 9:38 p.m. on December 31, 2021.

Factor 1: Degree of Toxicity of the Discharge: **3**

The degree of toxicity considers the physical, chemical, biological, and/or thermal characteristics of the discharge, and the risk of damage the discharge could cause to the receptors or beneficial uses. A score between 0 and 4 is assigned. The discharge of untreated wastewater to surface water poses an above moderate risk or a direct threat to potential receptors for at least four reasons:

(1) Excess nutrients, such as nitrogen, phosphorus, and organic matter, are present in untreated wastewater and can cause nutrient over-enrichment in the receiving water. The over-enrichment can result in rapid growth of algae and nuisance plants as well as eutrophic conditions that can lead to oxygen depletion, negatively affecting plant and aquatic life.

(2) Untreated wastewater includes solids that may settle or stay in suspension in the receiving water, affecting aquatic wildlife through ingestion, impacting aesthetic uses throughout the water column, and preventing sunlight from penetrating the water column. Oil and grease may also be present in untreated wastewater and may float on the surface of a receiving water, causing aesthetic impacts.

(3) Untreated wastewater typically contains high levels of pathogenic microorganisms, including Campylobacter, E. coli, Salmonella, Shigella, Vibrio Cholerae and Yersinia. These microorganisms are harmful to human health through direct contact, ingestion, or via foodborne pathways such as fish consumption.

(4) Untreated wastewater typically contains ammonia and toxic pollutants (such as metals, hydrocarbons, and synthetic organics) from industrial wastewater sources; these pollutants can cause both chronic and acute toxicity to aquatic life. Although some industrial pollutants may not be completely removed by treatment methods commonly employed at wastewater treatment plants, sanitary sewer overflows eliminate the possibility of any treatment of the wastewater prior to its discharge to surface water, thereby significantly increasing the loading of toxic pollutants to the receiving water and posing greater threats to beneficial uses.

Given the facts above, the discharge of untreated wastewater possesses “an above moderate risk or a direct threat to potential human receptors” and a score of 3 is warranted.

Factor 2: Actual Harm or Potential Harm to Beneficial Uses: **5**

This factor considers the actual harm or potential harm to beneficial uses that may result from exposure to the pollutants or contaminants in the discharge. A score between 0 and 5 is assigned.

Discharges of domestic and municipal wastewater to surface water must typically be treated to a high standard to prevent adverse impacts to human and aquatic life. The December 30-31, 2021 spill consisted of raw untreated wastewater, which typically contains pathogens, nitrogen, ammonia, total suspended solids, and biochemical oxygen demand. The untreated wastewater entered a storm drain catch basin which discharges to the Torrance Lateral. The Torrance Lateral flows into the Dominguez Channel Estuary, which in turn flows into the Pacific Ocean. According to the Los Angeles Water Board's *Water Quality Control Plan: Los Angeles Region Basin Plan for the Coastal Watersheds of Los Angeles and Ventura Counties* (Basin Plan), the existing and potential beneficial uses of the Dominguez Channel Estuary (below Vermont Avenue) are navigation; commercial and sport fishing; estuarine habitat; marine habitat; wildlife habitat; migration of aquatic organisms; spawning, reproduction, and/or early development; and rare, threatened, or endangered species. The Dominguez Channel Estuary is also designated to be used for non-contact water recreation and water contact recreation, but access is prohibited by Los Angeles County Department of Public Works.

Upon the December 30, 2021 notification of the spill, the Los Angeles County Department of Public Health (LACDPH) closed Cabrillo Beach, Point Fermin Beach, White Point Park Beach, Royal Palm State Beach, and Rancho Palos Verdes Beach. On December 31, 2021, the beach closure was updated to include all eight miles of Long Beach City beaches (under City of Long Beach Health and Human Services' jurisdiction) and all Los Angeles County beaches north to Rancho Palos Verdes Beach. The Orange County Health Care Agency also closed two beaches from December 30, 2021 to January 4, 2022. On January 3, 2022, LACDPH lifted the closure for Portuguese Bend in Rancho Palos Verdes, White Point at Royal Palms Beach, Wilder Addition Park at Point Fermin and Outer Cabrillo Beach in San Pedro. Inner Cabrillo Beach in San Pedro remained closed until January 5, 2022. The City of Long Beach Health and Human Services lifted its beach closures on January 5, 2022.

In response to the spill, the Discharger conducted water quality monitoring at 20 locations for bacteria, ammonia, dissolved oxygen, pH, and metals. Samples were taken upstream and downstream of the spill discharge point into the Torrance Lateral, upstream and downstream of the Torrance Lateral discharge point into the Dominguez Channel Estuary, at the shoreline of four beaches, and offshore of eight beaches. Sampling was delayed by one day after the spill event began due to heavy rain and unsafe conditions. Beach closure status is based on the public health agency's sampling regime, not the Discharger's sampling results.

In the Torrance Lateral, bacteria levels downstream of the spill location were higher than upstream until January 12, 2022 (13 days after the spill began). Within the Dominguez Channel Estuary, bacteriological sampling ceased on January 7, 2022 (eight days after the spill began) because analytical results indicated that water quality had returned to

background conditions. Bacteria levels exceeded the Basin Plan Bacteria Marine Objective at the mouth of the Los Angeles Harbor Breakwater on December 31, 2021 and at the Inner Cabrillo Beach on December 31, 2021 and January 2, 2022. Samples collected for ammonia and dissolved oxygen did not show an obvious water quality impact due to the SSO.

In general, untreated wastewater is known to contain solids and organic materials, ammonia, and excessive nutrients, all of which are potentially harmful to habitat-related beneficial uses due to solids deposition, oxygen depletion, and toxicity. Pathogenic organisms harmful to human health (such as Campylobacter, Salmonella, Shigella, Vibrio Cholera, and Yersinia) have the potential to impact other beneficial uses such as contact recreation (here, in the Pacific Ocean), and sport fishing due to direct contact with or ingestion of impacted waters, or indirect contact via foodborne pathways such as fish consumption. Oil, grease, and floatable or suspended materials may harm non-contact water recreation due to aesthetic impacts.

The Potential for Harm is major (5) because of the high threat to beneficial uses, as evidenced by the multiple miles of beach closures that lasted up to seven days, the elevated bacteria in the Torrance Lateral, the elevated bacteria in the Dominguez Channel Estuary, and the exceedance of the Basin Plan Bacteria Marine Objective at two ocean sampling locations. Wet weather conditions directly preceding the spill event may have contributed to the conditions.

Factor 3: Susceptibility to Cleanup or Abatement: **1**

A score of 0 is assigned if the discharger cleans up 50% or more of the discharge within a reasonable time, while a score of 1 is assigned if less than 50% of the discharge is susceptible to clean up, or if 50% of the discharge is susceptible to cleanup or abatement, but the discharger failed to clean up 50% or more of the discharge within a reasonable time. For this case, 8,507,790 gallons spilled into the Torrance Lateral and moved downstream to the Dominguez Channel Estuary, dispersing, and dissipating in the watershed and was not recovered. Less than 50% of the spill was recovered; therefore, a score of 1 is appropriate for this factor.

Final “Potential for Harm” Score”: **9**

The scores for the three above factors are added, resulting in a Potential for Harm score of 9. This score is then used in Step 2.

Step 2. Assessment for Discharge Violations

This step addresses administrative civil liabilities for the spill based on both a per-gallon and a per-day basis.

1. Per Gallon Assessment

When there is a discharge, the Los Angeles Water Board is to determine an initial liability amount on a per-gallon basis using the Potential for Harm score and the Extent of Deviation from Requirement.

a. Deviation from Requirement**: Major**

This factor reflects the extent the alleged violation deviated from the specific requirement at issue, and is expressed as either minor, moderate, or major. A factor of "major" is assigned when the requirement has been rendered ineffective (e.g., the requirement was rendered ineffective in its essential functions).

Prohibition C.1 of the Statewide General Order prohibits any SSO that results in a discharge of untreated or partially treated wastewater to waters of the United States. Similarly, Clean Water Act section 301 prohibits the point source discharge of any pollutant to waters of the United States, except as authorized by an NPDES permit issued in accordance with CWC section 13376. The Discharger's unpermitted discharge of untreated wastewater to a water of the United States without a permit renders each requirement ineffective in its essential function of protecting water quality. Therefore, a "major" Deviation from Requirement is appropriate.

b. Per Gallon Factor: **0.8**

Using a Potential for Harm score of 9 and a major Deviation from Requirement, Table 1 of the Enforcement Policy prescribes a factor of 0.8 as the Per Gallon Factor for the discharge.

c. Gallons Discharged to Surface Water: **8,507,790 gallons**

The Discharger's May 13, 2022 email states 8,507,790 gallons of untreated wastewater reached surface waters. The Prosecution Team has reviewed the Discharger's calculations and agrees with the volumes.

CWC section 13385, subdivision (c)(2) states that the per-gallon maximum civil liability is $10/gallon multiplied by the number of gallons discharged but not cleaned up over 1,000 gallons. For this violation, the civil liability is based on 8,507,790 gallons minus 1,000 gallons, or 8,506,790 gallons. The Enforcement Policy allows for discharges that exceed 2,000,000 gallons, to use $1/gallon in the penalty calculation instead of the statutory $10/gallon. For this case, the Prosecution Team has elected to use $1/gallon due to the nature and volume of the discharge. This reduction does not result in an inappropriately small liability.

Per Gallon Assessment:
0.8 per gallon factor x 8,506,790 gallons x $1 per gallon = $6,805,432

2. Per Day Assessment

When there is a discharge, the Los Angeles Water Board is to also determine an initial liability amount on a per-day basis using the Potential for Harm score and the extent of Deviation from Requirement.

a. Deviation from Requirement: **Major**

b. Per Day Factor: **0.8**

Using a Potential for Harm score of 9 and a major Deviation from Requirement, Table 2 of the Enforcement Policy prescribes a factor of 0.8 as the Per Day Factor for the discharge.

c. Days of Violation: **2**

The spill event took place over two days: December 30-31, 2021.

Per Day Assessment:
0.8 per day factor x 2 days x $10,000 per day = $16,000

3. Initial Liability Amount

The Per Gallon Assessment and the Per Day Assessment are added together to become the initial liability amount for Violation 1.

Initial Liability Amount for Violation 1:
$6,805,432 + $16,000 = $6,821,432

Step 3. Per Day Assessment for Non-Discharge Violations

The alleged violation is a discharge violation. Therefore, this step is not applicable.

Step 4. Adjustment Factors

The Enforcement Policy states that three additional factors must be considered for potential modification of the liability amount: (a) the Discharger's degree of culpability, (b) the

Discharger's prior history of violations, and (c) the Discharger's voluntary efforts to cleanup, or its cooperation with regulatory authorities after the violation.

Culpability: **1.3**

The Enforcement Policy states that higher liabilities should result from intentional or negligent violations as opposed to accidental violations. A multiplier between 0.75 and 1.5 is used, with a higher multiplier for intentional misconduct or gross negligence. The information discussed below is taken from the Discharger's May 4, 2022 third-party audit report.

The 216th Street Relocation Trunk Sewer failed on segment pipe P20116 between manholes 644 and 476. This sewer pipe was a 48-inch diameter unlined reinforced concrete pipe that was approximately 60 years old. On December 30, 2021, a 15-foot length of the pipe collapsed, as well as manhole 476.

Between 2006 and 2021, this section of line had been inspected nine times by Closed Circuit TV (CCTV). The inspection frequency was elevated to yearly between 2016 and 2021. The most recent inspection occurred on December 1, 2021, only 29 days prior to the collapse. Since at least 2012, the Discharger tested the pH of the pipe and sprayed the pipe with magnesium hydroxide on six-month intervals. The measured pH ranged from 1 to 9 but was most often between 1 and 3. This indicates that the pipe was subject to high levels of acidity, leading to deterioration of the concrete. In fact, portions of the collapsed pipe had a thickness of less than 1". It is believed that corrosion of the pipeline and manhole was the primary cause of failure and subsequent SSO.

Although the pipe was subject to CCTV inspection, some of the videos were of poor quality and impacted by high water levels in the pipe, there was unclear imagery due to the equipment and/or material on the camera lens, and the magnesium hydroxide coating obscured the view of defects.

On February 10, 2015, the Discharger's staff prepared an internal memorandum requesting the rehabilitation of Condition 1 and 2 segments[7] of the 216th Street trunk line within two years, or by 2017. The section of line that failed had been rated Condition 2. While the Discharger funded and commenced the efforts to replace the line as part of a larger global planned replacement sewer project, the construction process took longer than expected. The Discharger was in the process of building the replacement sewers (now complete with redundant trunk sewer lines) in the area of the spill when the event occurred. Previously, emergency repairs took place on a portion of the line in 2017, and the initial phase of the global planned replacement sewer project took place in late 2020. If a rehabilitation project

[7] The Discharger utilizes a pipe rating system ranging from 1 through 4, with 1 being the worst condition sewers and 4 being the best condition with minimal defects.

is taking longer than expected, then a discharger should implement interim measures, if any, to reduce the risk of failure. The Discharger did not have a formal inspection program for sewer manholes and junction structures at the time of the spill; however, the Discharger has now implemented a formal inspection process as part of the planned programmatic changes.

Based on the above, the Discharger had knowledge of the poor condition of the pipe and knew rehabilitation was necessary. The project, though planned, was delayed, resulting in the discharge of over 8 million gallons of untreated wastewater to surface waters from the collapsed pipe. Therefore, a multiplier of 1.3 is assigned for this violation.

History of Violation: **1.0**

When there is a history of repeat violations, the Enforcement Policy requires a minimum multiplier of 1.1, with higher values as appropriate. The Discharger does not have a history of adjudicated violations; therefore, a multiplier of 1.0 is appropriate.

Cleanup and Cooperation: **0.8**

This factor reflects the extent to which a discharger voluntarily cooperates in returning to compliance and correcting environmental damage. A multiplier between 0.75 and 1.5 is applied, with a higher multiplier when there is a lack of cleanup or cooperation.

The spill began between 1:30 and 1:35 p.m. on December 30, 2021. The Discharger was notified at 1:50 p.m. on December 30, 2021. The Discharger relied on multiple contractors to respond to the emergency. Access to the spill location was difficult, but it still took over 32 hours, until 9:38 p.m. on December 31, 2021, for the Discharger to stop the spill through the installation of five bypass pumps. It also took over 13 hours, until 3:00 a.m. on December 31, 2021, to excavate, install shoring and secure the sinkhole. After securing the sinkhole, Discharger's contractor continued to clean up soil and debris through January 2, 2022 and conducted CCTV inspection to assess the condition of the sewer. On January 3, 2022, the downstream sewer was determined to be safe to reestablish the flow. In total, the flow was restored after five days.

While the facts above indicate some problems with the Discharger's response to the SSO, overall, the Discharger went above and beyond a normally expected response to an SSO and exceeded what was envisioned in the Discharger's Sanitary Sewer Overflow Response Plan. For example, the Discharger conducted the following activities:

- Enhanced public notification, such as stationing staff at each end of the West 212th Street throughout the entirety of the SSO event to prevent public contact with wastewater; going door-to-door to speak to affected residents on the evening of December 30th; meeting with residents to understand their concerns on January 3rd;

releasing public notification flyers in multiple languages; and providing daily updates regarding the spill and progress of cleanup on the Discharger's website.

- Enhanced cleaning activities including working throughout the night of December 31st to flush the north side of West 212th Street; re-flushing the north side of West 212th Street on January 1st; completing additional cleaning and disinfection of driveways and sidewalks on January 3rd; completing additional cleaning and disinfection of the south side of West 212th Street on January 3rd; completing additional cleaning of the north side of West 212th Street on January 5th; providing a mobile car washing service to affected residents; and contracting with a landscaping company to replace topsoil and vegetation in the affected landscaped areas.

- Retaining the services of a third-party consultant to perform an independent audit of the sewer collapse and the Discharger's response.

Overall, the Discharger's actions were above the minimum expected in cleaning up and returning to compliance, and therefore warrant a Cleanup and Cooperation factor of 0.8.

Step 5. Total Base Liability Amount

The Total Base Liability Amount is determined by multiplying the following: the Initial Liability, the degree of culpability factor, the history of violations factor, and the cleanup and cooperation factor.

Total Base Liability Amount: Violation 1
$6,821,432 x 1.3 x 1.0 x 0.8 = $7,094,289

VIOLATION 2:
Remaining Category 1 Spills From
January 25, 2018 through September 6, 2022

Between January 25, 2018 and September 6, 2022, the Discharger reported 13 sanitary sewer overflows[8] of untreated wastewater that entered surface waters. The Discharger has attributed these sanitary sewer overflows to operational and structural failures, including root intrusion, grease deposition, the presence of debris, and a lack of hydraulic capacity in the sewer. The 13 spills are listed in Table 2, below. Each incident is of similar magnitude and is therefore considered together instead of individually.

[8] These 13 spills do not include the Carson spill (CIWQS Spill ID 878549) which is the subject of Violation 1, or the December 25, 2020 spill of 222,542 gallons from the sewage force main at the Long Beach Water Reclamation Plant (CIWQS Spill ID 871320). The Los Angeles Water Board reserves its right to undertake discretionary enforcement for the Long Beach spill.

Table 2: Remaining Category 1 Spills which occurred between January 25, 2018 and September 6, 2022

SSO # AND EVENT ID	SPILL START AND END DATES	TOTAL DAYS	COLLECTION SYSTEM	SPILL LOCATION	GALLONS DISCHARGED TO SURFACE WATER AND WATER BODY	GALLONS RECOVERED FROM SURFACE WATER	GALLONS DISCHARGED TO SURFACE WATER, LESS 1,000 GALLONS	CAUSE OF SPILL	LIABILITY AT $10,000/DAY	LIABILITY AT $10/GALLON	COMBINED MAXIMUM LIABILITY
1. 844340	1/25/2018-1/25/2018	1	County Sanitation District No. 15 CS	Hill Drive Extension Trunk	8,551 (Rio Hondo)	0	7,551	Vandalism – Debris (rocks/wood)	$10,000	$75,510	$85,510
2. 845320	3/3/2018-3/3/2018	1	County Sanitation District No. 5 CS	South Inglewood-Orange Avenue Trunk Extension 2	5,731 (Dominguez Channel)	0	4,731	Debris from Construction	$10,000	$47,310	$57,310
3. 855878	2/2/2019-2/2/2019	1	County Sanitation District No. 2 CS	District #2 Main Trunk Sewer	4,415 (Los Angeles River)	0	3,415	Other – heavy rain event outpaced the hydraulic capacity of the sewer due to inflow/infiltration.	$10,000	$34,150	$44,150
4. 855879	2/2/2019-2/2/2019	1	County Sanitation District Joint Outfall CS	Joint Outfall B Unit 1C Replacement	3,964 (Los Angeles River)	0	2,964	Other – heavy rain event outpaced the hydraulic capacity of the sewer due to inflow/infiltration.	$10,000	$29,640	$39,640
5. 856060	2/11/2019-2/11/2019	1	County Sanitation District No. 16 CS	Chapel Avenue Trunk, Section 3	6,000 (Alhambra Wash)	6,000	0	Other – Link-Pipe Repair Sleeve Failure	$10,000	$0	$10,000

SSO # AND EVENT ID	SPILL START AND END DATES	TOTAL DAYS	COLLECTION SYSTEM	SPILL LOCATION	GALLONS DISCHARGED TO SURFACE WATER AND WATER BODY	GALLONS RECOVERED FROM SURFACE WATER	GALLONS DISCHARGED TO SURFACE WATER, LESS 1,000 GALLONS	CAUSE OF SPILL	LIABILITY AT $10,000/DAY	LIABILITY AT $10/GALLON	COMBINED MAXIMUM LIABILITY
6. 856635	2/28/2019-2/28/2019	1	County Sanitation District No. 2 CS	Monterey Park Relief Trunk Sewer	283 (Los Angeles River)	0	0	Vandalism – Debris (e.g., trash)	$10,000	$0	$10,000
7. 860403	8/9/2019-8/9/2019	1	County Sanitation District No. 21 CS	Pomona Boulevard Interceptor Trunk Sewer	835 (San Jose Creek)	835	0	Contractor activities accidentally punctured the sewer	$10,000	$0	$10,000
8. 864079	12/29/2019-12/29/2019	1	County Sanitation District No. 5 CS	Prairie Avenue Trunk (District 5)	23,100 (Dominguez Channel)	0	22,100	Debris – General	$10,000	$221,000	$231,000
9. 866253	4/18/2020-4/18/2020	1	County Sanitation District No. 5 CS	Narbonne Avenue Trunk, Section 1 (West) (District 5)	2,000 (Machado Lake)	0	1,000	Root Intrusion from upstream sewer system	$10,000	$10,000	$20,000
10. 869694	10/9/2020-10/9/2020	1	County Sanitation District No. 5 CS	1919 Artesia Blvd., Gardena, CA 90274	150 (Dominguez Channel)	0	0	Discharge hose from Jetter was not placed properly into MH 05 2016 for tank draining.	$10,000	$0	$10,000

SSO # AND EVENT ID	SPILL START AND END DATES	TOTAL DAYS	COLLECTION SYSTEM	SPILL LOCATION	GALLONS DISCHARGED TO SURFACE WATER AND WATER BODY	GALLONS RECOVERED FROM SURFACE WATER	GALLONS DISCHARGED TO SURFACE WATER, LESS 1,000 GALLONS	CAUSE OF SPILL	LIABILITY AT $10,000/DAY	LIABILITY AT $10/GALLON	COMBINED MAXIMUM LIABILITY
11. 874673	6/9/2021-6/9/2021	1	County Sanitation District No. 5 CS	Narbonne Avenue Trunk, Section 1 (East) (District 5)	4,725 (Machado Lake)	0	3,725	Root Intrusion from upstream sewer system	$10,000	$37,250	$47,250
12. 877650	11/17/2021-11/17/2021	1	County Sanitation District Joint Outfall CS	Joint Outfall B Unit 6J Trunk Sewer	40,306 (Arroyo Seco Channel)	17,100	22,206	Residential plumber made an unpermitted lateral connection to the LACSD sewer system.	$10,000	$222,060	$232,060
13. 883181	9/6/2022-9/6/2022	1	County Sanitation District Joint Outfall CS	Via Pinale, 140’ east of Via Ramon, Palos Verdes Estates	8,354 (Malaga Creek)	0	7,354	Blockage caused by cut roots, likely from a private sewer	$10,000	$73,540	$83,540
				Totals:	108,414 gallons	23,935 gallons	75,046 gallons		$130,000	$750,460	$880,460

Step 1. Actual or Potential for Harm for Discharge Violations

The first step for discharge violations is to determine the actual or potential harm to water quality by using a three-factor scoring system. Because actual harm is not always quantifiable, potential harm may be used for this factor.

Factor 1: Degree of Toxicity of the Discharge: **3**

The degree of toxicity considers the physical, chemical, biological, and/or thermal characteristics of the discharge, and the risk of damage the discharge could cause to the receptors or beneficial uses. A score between 0 and 4 is assigned. As described for Violation 1, the discharge of untreated wastewater poses an above-moderate risk to human or aquatic receptors and therefore warrants a factor of 3 (above moderate).

Factor 2: Actual Harm or Potential Harm to Beneficial Uses: **2**

This factor considers the actual harm or potential harm to beneficial uses that may result from exposure to the pollutants or contaminants in the discharge. A score between 0 and 5 is assigned.

Discharges of untreated wastewater to surface water must typically be treated to a high standard to prevent adverse impacts to aquatic life. For this violation, there were 13 discharges of raw untreated wastewater, all of which may have contained pathogens, nitrogen, ammonia, metals, and biological oxygen demand. The SSOs entered the Rio Hondo, Dominguez Channel, Alhambra Wash, San Jose Creek, Machado Lake, Arroyo Seco Channel, Malaga Creek, and the Los Angeles River. The Basin Plan designates existing and potential beneficial uses for these water bodies which includes municipal and domestic supply; warm freshwater habitat; estuarine habitat; wildlife habitat; rare, threatened, or endangered species; migration of aquatic organisms; and spawning, reproduction, and/or early development.

Most of the spills were less than 10,000 gallons. The spills were at various times of the year; in the winter the water bodies could have high flows, resulting in the potential for dilution, while in the summer or fall the water bodies could have low flows with less dilution available and therefore a higher potential impact. A “below moderate” potential for harm is defined as “observed or reasonably expected potential impacts, but based on the characteristics of the discharge and applicable beneficial uses, harm or potential harm to beneficial uses is measurable in the short term, but not appreciable.” Given the size of the SSOs, the impacts to beneficial uses were likely to attenuate without appreciable short term acute or chronic effects. Therefore, a score of 2, below moderate, is assigned for this factor.

Factor 3: Susceptibility to Cleanup or Abatement: **1**

A score of 0 is assigned if the discharger cleans up 50% or more of the discharge within a reasonable time, while a score of 1 is assigned if less than 50% of the discharge is susceptible to clean up, or if 50% of the discharge is susceptible to cleanup or abatement, but the discharger failed to clean up 50% or more of the discharge within a reasonable time. As shown in Table 2, of the 108,414 gallons discharged to surface water, only 23,935 gallons were recovered. Because less than 50% of the discharge was cleaned up, a factor of 1 is assigned.

Final "Potential for Harm" Score": 6

The scores for the three above factors are added, resulting in a Potential for Harm score of 6. This score is then used in Step 2.

Step 2. Assessment for Discharge Violations

This step addresses administrative civil liabilities for the spill based on both a per-gallon and a per-day basis.

1. Per Gallon Assessment

When there is a discharge, the Los Angeles Water Board is to determine an initial liability amount on a per-gallon basis using the Potential for Harm score and the Extent of Deviation from Requirement.

a. Deviation from Requirement**: Major**.

The Deviation from Requirement is major, for the same reasons as described in Violation 1.

b. Per Gallon Factor: **0.28**

Using a Potential for Harm score of 6 and a major Deviation from Requirement, Table 2 of the Enforcement Policy prescribes a factor of 0.28 as the Per Gallon Factor for the discharge.

c. Gallons Subject to Administrative Civil Liability: **75,046 gallons**

As shown in Table 2, 108,414 gallons were discharged to surface water during the 13 SSO events. Of this, 23,935 gallons were recovered.

CWC section 13385, subdivision (c)(2) states that the maximum per-gallon civil liability is $10/gallon multiplied by the number of gallons discharged but not cleaned up over

1,000 gallons. Table 2 provides the calculations to show the gallons subject to administrative civil liability for each spill. For example, Spill #1 discharged 8,551 gallons to the Rio Hondo. None of this spill was recovered, and therefore 7,551 gallons are subject to administrative civil liability. Spill #5 discharged 6,000 gallons to the Alhambra Wash; however, because all 6,000 gallons were recovered, there is not a per-gallon penalty for this spill. Similarly, Spill #6 discharged 283 gallons to the Los Angeles River. Although none of this spill was recovered, because less than 1,000 gallons were discharged, there is not a per-gallon penalty for Spill #6. As shown in the "Total" row of Table 2, the 13 spills resulted in 75,046 gallons that are subject to administrative civil liability.

Per Gallon Assessment:
0.28 per gallon factor x 75,046 gallons x $10 per gallon = $210,129

2. Per Day Assessment

When there is a discharge, the Los Angeles Water Board is to determine an initial liability amount on a per-day basis using the Potential for Harm score and the Extent of Deviation from Requirement.

a. Deviation from Requirement: **Major**

b. Per Day Factor: **0.28**

Using a Potential for Harm score of 6 and a major Deviation from Requirement, Table 2 of the Enforcement Policy prescribes a factor of 0.28 as the Per Day Factor for the discharge. This factor is then multiplied by the days of discharge and the maximum per day liability of $10,000/day.

c. Days of Violation: **13**

As shown in Table 2, the spills occurred over 13 days.

Per Day Assessment:
0.28 per day factor x 13 days x $10,000 per day = $36,400

3. Initial Liability Amount

The Per Gallon Assessment and the Per Day Assessment are added together to become the Initial Liability Amount for Violation 2.

Initial Liability Amount for Violation 2: $210,129 + $36,400 = $246,529

Step 3. Per Day Assessment for Non-Discharge Violations

The alleged violations are discharge violations. Therefore, this step is not applicable.

Step 4. Adjustment Factors

The Enforcement Policy states that three additional factors must be considered for potential modification of the liability amount: (a) the Discharger's degree of culpability, (b) the Discharger's prior history of violations, and (c) the Discharger's voluntary efforts to cleanup, or its cooperation with regulatory authorities after the violation.

Culpability: **1.1**

The Enforcement Policy states that higher liabilities should result from intentional or negligent violations as opposed to accidental violations. A multiplier between 0.75 and 1.5 is to be used, with a higher multiplier for intentional misconduct or gross negligence.

According to the Discharger's CIWQS spill reports, about 40% of the untreated wastewater discharged for Violation 2 was due to root intrusion or vandalism. However, the remaining 60% of the volume discharged was due to lack of hydraulic capacity, failure of a repair, a contractor puncturing a line, improper placement of a jetter hose, cut roots, and an unpermitted connection. The Discharger could have taken actions to prevent or minimize 60% of the volume of untreated wastewater that was discharged. Hence, these spills should not be considered accidental violations.

As described in the May 4, 2022 *Audit of Sanitary Sewer Overflow (SSO) in the City of Carson*, for the five-year period of 2017 to 2021, the Discharger had a spill rate of 0.56 spills per 100 miles of sewer. When compared to local sanitation districts of similar size, the Discharger has a lower spill rate than the City of Los Angeles (LASAN; 1.54 spills/100 miles) but a higher spill rate than Orange County Sanitation District (0.36 spills/100 miles). Based on these facts, it is appropriate to assign a culpability score of 1.1.

History of Violations: **1.0**

When there is a history of repeat violations, the Enforcement Policy requires a minimum multiplier of 1.1, with higher values as appropriate. The Discharger does not have a history of adjudicated violations; therefore, a multiplier of 1.0 is appropriate.

Cleanup and Cooperation: **1.0**

This factor reflects the extent to which a discharger voluntarily cooperates in returning to compliance and correcting environmental damage. A multiplier between 0.75 and 1.5 is used, with a higher multiplier when there is a lack of cleanup or cooperation. In this case, the Discharger responded to each spill in a manner that is reasonable and prudent, and as expected for a sewer district of its size. The Discharger appropriately followed its Sanitary Sewer Overflow Response Plan, a component of the 2019 Sewer System Management Plan, as is expected of a discharger enrolled in the SSS WDR. Therefore, a neutral multiplier of 1.0 is assigned.

Step 5. Total Base Liability Amount

The Total Base Liability Amount is determined by multiplying the following: the Initial Liability, the degree of culpability factor, the history of violations factor, and the cleanup and cooperation factor.

Total Base Liability Amount: Violation 2
$246,529 x 1.1 x 1.0 x 1.0 = $271,182

Combined Total Base Liability Amount for All Violations

The Combined Total Base Liability Amount for Violations 1 and 2 is determined by adding the total base liability amount of each violation. The Combined Total Base Liability Amount is $7,365,471.

Step 6. Ability to Pay and Continue in Business

The CWC and the Enforcement Policy require the Water Boards to consider a discharger's ability to pay and continue in business when imposing administrative civil liabilities.
In this matter, the Discharger is an ongoing public entity with the ability to raise revenue to satisfy the proposed liability through the imposition of fees and taxes. In addition, a review of the Los Angeles County Sanitation Districts' 2022 Annual Comprehensive Financial Report shows that the Discharger has a net position of over $1.9 billion; as of April 30, 2023, the Discharger has $466 million in total cash and investments. Based on publicly available information, the Discharger has the ability to pay and continue in business.

Step 7. Economic Benefit

The Enforcement Policy states that the economic benefit of noncompliance should be calculated using the United States Environmental Protection Agency's (US EPA) Economic Benefit Model (BEN) liability and financial modeling program. For this case, the total

economic benefit of non-compliance was calculated using BEN Version 2022.0.0. Using standard economic principals such as the time-value of money and tax deductibility of compliance costs, BEN calculates a discharger's economic benefit derived from delaying[9] or avoiding[10] compliance with environmental statutes.

The avoided and delayed expenses associated with each alleged violation are outlined below.

Violation 1 was caused by a collapsed pipe segment. Following the SSO, the Discharger rehabilitated the collapsed sewer line by slip lining with a fiberglass reinforced plastic pipe. This pipe had the most severe condition rating since 2016 and should have been repaired earlier. Due to the current economic situation and increased prices, this delayed pipe rehabilitation resulted in a negligible economic benefit.

Violation 2, SSO CIWQS Event ID 844340 was the result of debris in the pipe from vandalism and the corrective action was to secure the manhole cover with a locking steel strap. Due to the current economic situation, this delayed action resulted in a negligible economic benefit.

Violation 2, SSO CIWQS Event ID 845320 was the result of debris from a construction project. To prevent future recurrence, the Discharger sent a letter to the City of Inglewood requesting their contractors take precautions to prevent debris from entering the sewer. The delayed action resulted in an economic benefit of $1.23.

Violation 2, SSO CIWQS Event ID 855879 was caused by a pressure plate lifting the manhole cover during a rain event. Following the SSO, the pressure plate frame was repaired, but the damage should have been identified and repaired during previous inspection. This delayed repair had a negligible economic benefit. The second action was to change the standard design drawing for the pressure manhole frame; this action should have occurred sooner and could have helped prevent or mitigate the SSO. This delayed action resulted in an economic benefit of $5.89.

Violation 2, SSO CIWQS Event ID 856060 resulted from a Link-Pipe repair sleeve failure. The Link Pipe was installed in 1999 to cover a crack with root intrusion. The Link Pipe should have been removed much earlier and the pipe rehabilitated with a cured-in-place pipe (CIPP) liner. This delayed pipe rehabilitation resulted in a negligible economic benefit.

[9] Delayed costs include expenditures that should have been made sooner, such as manhole or pipe repairs that were made too late to avoid the violation.

[10] Avoided costs include expenditures for services that the permittee should have incurred to avoid the incident of noncompliance, such as additional staffing and preventative maintenance.

Violation 2, SSO CIWQS Event ID 856635 was caused by debris in the manhole due to vandalism. To prevent future SSOs, two manholes were secured with tack welds. This delayed action resulted in an economic benefit of $1.45.

Violation 2, SSO CIWQS Event ID 866253 resulted from roots in the mainline. To prevent future SSOs, the Discharger constructed an upstream diversion. This location had a previous SSO due to roots, so the upstream diversion should have been installed much sooner. This delayed action resulted in an economic benefit of $131.44.

Violation 2, SSO CIWQS Event ID 869694 was the result of a discharge hose not being properly placed. In response, the Discharger created a preconstruction checklist to prevent a spill of this nature from reoccurring. The need for this checklist should have been identified earlier and this delayed action resulted in an economic benefit of $248.50.

Violation 2, SSO CIWQS Event ID 874673 was caused by roots in the mainline. As a corrective action, real-time level sensors were installed at two different manholes. Two SSOs due to roots had occurred at this location previously, so the real-time level sensors should have been installed sooner. However, the economic benefit from these delayed actions was negligible.

Violation 2, SSO CIWQS Event ID 883181 was also the result of roots. Following the SSO, a SmartCover was installed. No significant economic benefit was identified for this SSO.

Finally, the fourteen SSOs resulted in a combined total of 8,592,269 gallons discharging to surface water. This wastewater should have remained within the collection system to be transported to the wastewater treatment plant for treatment. Due to the SSOs, the cost of treating the 8,592,269 gallons of wastewater was avoided. This avoided cost resulted in an economic benefit of $4,206.

For computational purposes and for purposes of settlement, the penalty payment date was established as February 1, 2023. Based on specific assumptions within the model, the total economic benefit of non-compliance was determined to be $4,594.

Step 8. Other Factors as Justice May Require

The Enforcement Policy allows for the costs of investigation and enforcement to be considered under other factors as justice may require. To date, the Los Angeles Water Board Prosecution Team has incurred $16,976 in staff costs associated with the investigation, preparation, and enforcement of the violations. This represents approximately 153 hours of staff time devoted to this matter. No attorneys' fees are included in this calculation. The Los Angeles Water Board Prosecution Team finds that it is appropriate to increase the Combined

Total Base Liability Amount by $16,976 in consideration of investigation and enforcement costs incurred in prosecuting this matter. Increasing the Combined Total Base Liability Amount in this manner serves to create a more appropriate deterrent against future violations.

Step 9. Maximum and Minimum Liability Amounts

Maximum Liability Amount: The maximum liability is found in CWC section 13385 subdivision (c) and is $10,000 per day of violation plus $10 per gallon multiplied by the number of gallons discharged but not cleaned up over 1,000 gallons. The statutory maximum for Violation 1 is $85,087,900 based on two days of violation and a discharge of 8,507,790 gallons. The statutory maximum for Violation 2 is $880,460 based on 13 days of violation and a discharge of 75,046 gallons discharged to a water of the United States, less 1,000 gallons, and was not recovered. The combined total maximum liability for the two violations is $85,968,360.

Minimum Liability Amount: CWC section 13385, subdivision (e) requires that, at a minimum, the economic benefit derived from the violations be recovered. The statutory minimum liability amount for Violations 1-2 is equal to the economic benefit of $4,594. The Enforcement Policy requires the Water Boards to recover 10% greater than the economic benefit. The economic benefit derived from the violations addressed in this matter is $5,053. Therefore, the minimum under the Enforcement Policy is $5,053.

Step 10. Final Liability Amount

The Final Liability Amount consists of the added amounts for each violation, with any allowed adjustments, provided the amount is within minimum and maximum liability amounts. The Combined Total Base Liability Amount was added to the investigation and enforcement costs accrued by the Los Angeles Water Board Prosecution Team. The Final Liability Amount is **$7,382,447**, which is within the minimum and maximum liability amounts.[11]

[11] As explained in Section II, paragraph 12 of the Stipulated Order, the administrative civil liability was reduced to $6,000,000 under Enforcement Policy, section VI.B. (Settlement Considerations) in consideration of hearing and/or litigation risk.

CALAS PARK STORMWATER AND WATER QUALITY IMPROVEMENTS
SUPPLEMENTAL ENVIRONMENTAL PROJECT WORKPLAN

PROPOSAL/ WORK PLAN REQUIREMENTS:

Project Title:
Calas Park Stormwater and Water Quality Improvements Supplemental Environmental Project (Calas Park SEP)

Organization proposing the project (including project manager's name, email address, and phone number; type of organization (public, private, non-profit, etc.):

Los Angeles County Sanitation Districts (public)
Project Manager: Lysa Gaboudian, Supervising Engineer
lgaboudian@lacsd.org
(562) 908-4288 extension 2811

Third party completing the project including all contact information (If applicable), including Project Manager Name & Contact Information:

City of Carson (public)
Project Manager: Roland Jen, PE, Stormwater Engineer
Rjen@carsonca.gov
(310) 952-1700 extension 3523

Names and statement of qualifications and experience for Project Manager:

Roland Jen, PE

Roland is a Licensed Civil Engineer (CA) with 9 years of experience in both public and private stormwater infrastructure projects, water quality analysis, and infrastructure maintenance. He received his B.S. in Civil Engineering with an emphasis on Environmental Hydrology from the University of California, Irvine in 2014. He also holds a B.S. in Biology from the University of California, San Diego. At the City of Carson, Roland works as the Stormwater Engineer managing and developing green infrastructure projects and managing MS4 permit compliance.

Throughout his career, Roland has worked on a variety of projects related to stormwater, encompassing roles such as conceptual design, planning, grant funding, construction, post-construction review, maintenance, and water quality testing in both urban and natural infrastructure. His experience in both private and public enterprises provide a solid foundation to guide the effective development and management of stormwater projects.

Roland's experience with multi-benefit stormwater infrastructure is extensive. He has worked on several public stormwater projects, notably: South Los Angeles Wetlands Park, Mar Vista Recreation Park BMP, Echo Park Lake Rehabilitation, and the City of Carson's Carriage Crest Park

Stormwater facility. He also has experience in designing and reviewing stormwater treatment and capture devices for private developments. With these projects, he has focused on providing maximum benefit to the general public in the form of improved recreation, climate resilience, and clean water.

Location of the project (city, county, address, watershed):
The Calas Park SEP will be located in Calas Park, which is on E 220th St between Bonita St and S Edgar St in the City of Carson in Los Angeles County. This SEP is located in the Dominguez Channel watershed.

Project Description (include overall description and identify specific project elements):
This voluntary project is expected to capture, pretreat and infiltrate 2.8 acre-ft of stormwater produced in the drainage area (based on the 85th percentile, 24-hour storm). *See* **Attachment A** for drainage map. The proposed project will capture runoff in an underground vault where the water will infiltrate. The project features will involve underground storage vaults, bioswales, rain gardens, infiltration galleries, and other elements that will capture, pretreat, and infiltrate stormwater onsite. Based on the size of an 85th percentile storm, which occurs on average five times per year, a preliminary estimate of the volume that will be captured and conserved is 2.8 acre-ft per event and 13.8 acre-ft on an annual basis.

Stormwater runoff will be diverted from a storm drain in E 220th Street at South Edgar Street (northeast of the park) and from storm drain inlets in Bonita Street at 223rd Street (southwest of the park). The captured stormwater runoff will flow through a pre-treatment unit (hydrodynamic separator) via a proposed conveyance system before entering an underground storage vault, which will facilitate infiltration into the underlying groundwater. Initial review of available information for groundwater depth, soil type, and groundwater contamination reveals infiltration is possible, and a detailed geotechnical investigation will be conducted as part of the project to determine infiltration rates across the site. In addition, the project proposes a passive irrigation system that will be filled with stormwater for irrigation use of the Calas Park field(s), thereby offsetting the current reliance on potable water for irrigation.

Specific Project Elements:

- Collection and Conveyance System
    - Stormwater will be diverted from the existing local storm drain system and directed to the park. Diversions will be constructed along storm drains to capture water quality flows and they will be conveyed to the park in new storm drainpipes.
- Pre-Treatment Unit (Hydrodynamic Separator)
    - Diverted stormwater will flow through a pre-treatment unit, likely a hydrodynamic separator, prior to entering the underground storage vault. The purpose of this pretreatment is to remove debris and sediment to limit maintenance in the vault.

- Underground Storage Vault for Water Quality Treatment (infiltration)
    - Stormwater will be collected in an underground storage vault where it will be held while it infiltrates into the soil. The vaults will be sized to capture runoff from the 85th percentile storm.
- Harvest and Use (passive turf irrigation)
    - A passive irrigation system consisting of shallow storage below the turf will be provided to irrigate the field using captured stormwater. This approach allows for use of stormwater for irrigation, which displaces the use of potable water.
- Multi-lingual interpretative signage / displays
    - This project will be located underground once complete. Signage and displays will be incorporated into the park to help residents learn about the system and what they can do to improve the quality of urban runoff in their area. Signage associated with the SEP shall state in a prominent manner that the project is being undertaken as part of settlement of a Regional Water Board enforcement action.

Some project elements will require long-term maintenance, which the City will perform after completion of the SEP on a regular schedule. These activities are described here for informational purposes and are not considered part of the SEP's Scope of Work.

- Collection and Conveyance System
    - The collection and conveyance systems will require maintenance similar to what the City currently provides for catch basins and storm drains. Maintenance will focus on debris and sediment removal to ensure design capacity and function remain intact.
- Pre-Treatment Unit (Hydrodynamic Separator)
    - The pre-treatment unit will require clean out by vacuum truck prior to each wet season. Additional maintenance may be required depending on the amount of runoff generated each year. The unit is accessible via manhole at the ground surface.
- Underground Storage Vault for Water Quality Treatment (infiltration)
    - The underground storage vault will have a settling forebay to concentrate any debris or sediment that is not addressed by the pre-treatment unit. The settling forebay will be accessible via manhole and will require annual clean out.
- Harvest and Use (passive turf irrigation)
    - This passive turf irrigation system will not require ongoing maintenance. Prior to entering the passive turf irrigation system, the water will have already passed through the pre-treatment unit and the settling forebay in the underground vault.

Describe how the proposed SEP fits into one or more of the following categories (address any that are applicable:

• Pollution Prevention
• Pollution Reduction

The Calas Park SEP will capture and pretreat stormwater runoff, improve onsite water retention

and enhancement of groundwater supplies for beneficial use, and substantially reduce remaining stormwater runoff and associated pollutants conveyed to surface waters. This, in turn, will improve public health, and will operate to reduce and/or prevent pollution.

This project will reduce the mobilization of stormwater-associated pollutants (such as zinc and bacteria) from the drainage area, will provide a mechanism by which the stormwater can be made available for beneficial use in the underlying groundwater, and will reduce the surface water risk posed by these constituents to the surrounding communities. In addition, the construction of this project, and the desired stormwater education signage to be included, will promote public awareness and education regarding urban runoff and the need to prevent pollution and protect water quality. Signage associated with the SEP shall state in a prominent manner that the project is being undertaken as part of settlement of a Regional Water Board enforcement action.

Expected Benefits or improvements to water quality or beneficial uses:
The project is expected to capture and pretreat up to 2.8 acre-feet of stormwater produced by the drainage area during the water quality rain event and infiltrate that water locally, enhancing the groundwater basin supply that, in turn, can support designated beneficial uses, like municipal and domestic supply (MUN). Pollutant loads will be reduced in surface waters, human health will be further protected, and groundwater supplies will be enhanced for beneficial use.

Nexus between the violations and the project:
The Calas Park SEP is located in the same watershed (Dominguez Channel) and a short distance (approximately 2 miles) from the location of the violations; therefore, the primary benefits of the SEP will be within the immediate geographic area where the violations occurred. The Calas Park SEP will reduce the potential for several types of pollutants, including bacteria and metals, to reach the Dominguez Channel. The Calas Park SEP is both geographically related to the violations (*i.e.,* existing in the same watershed) and designed to reduce the overall risk to the public and the environment through reduction of pollutants.

Is the project located within, or does it benefit, an EJ community, a DAC, or a community that has financial hardship? If yes, describe.
Yes. This project is within areas that have a Disadvantaged Community (DAC) score of CalEnviroScreen 4.0 Top 25%. The particular tract in which Calas Park is located scored in the 92nd percentile (see Attachment B). The Calas Park SEP will provide capture and pretreatment of stormwater runoff and facilitate infiltration to groundwater which will beneficially improve the overall health of the watershed and provide a clean source for drinking water in the community. While the project will be largely underground, the SEP's public outreach and education on the importance of clean water projects and the City's efforts to improve water quality through multilingual interpretive displays, exhibits, and interactive features, will promote watershed health and encourage visitors to engage in water conservation, promote stewardship, and educate the public about local water management strategies.

Will this project further the State Water Board's core value of human right to water? If yes,

describe.
The State of California statutorily recognizes that every human being has the right to safe, clean, affordable, and accessible water adequate for human consumption, cooking, and sanitary purposes. Because the Calas Park SEP specifically intends to facilitate infiltration of stormwater to groundwater, the SEP indirectly supports the State Water Board's core value of a human right to water. However, because the water supply benefits of the project will not be tracked, this factor is not directly applicable.

Project readiness, including status of CEQA, permits, and landowner agreements:
As the CEQA lead agency for the project, it is anticipated that the City will be required to conduct environmental review of the proposed project, including preparation of a CEQA document with supporting technical studies, as well as acquisition of regulatory permits. CEQA and any applicable regulatory permits will be initiated once a conceptual design plan is available during the project period of performance (i.e., advanced design is not typically necessary to initiate CEQA). After review of the project concept plan and the associated footprint of construction activities, the appropriate level of CEQA compliance and the applicable regulatory permits will be determined. Based on the current planning for the project, we anticipate an Initial Study/Mitigated Negative Declaration (IS/MND) will be the appropriate level of CEQA documentation to support the project. Due to the proposed excavation activities and proximity to sensitive receptors (i.e., residential uses), technical studies analyzing the construction-related impacts will be prepared, which are anticipated to include an Air Quality Report, Cultural Resources Report, Greenhouse Gas Emissions, and Noise and Vibration. If any biological or jurisdictional resources have the potential to be impacted during implementation of the proposed project, the appropriate regulatory permits would be initiated and prepared, typically commencing prior to the release of the Draft IS/MND document and requiring 6-12 months, dependent on agency reviews. Preparation and approval of an IS/MND document and regulatory permits is anticipated to take up to 16 months.

Once the project is approved by the City Council, the approved IS/MND would be provided to the Regional Water Quality Control Board, Los Angeles Region (Regional Water Board) prior to commencement of construction of the project. Any applicable regulatory permitting will be completed as the design progresses to ensure compliance with CEQA and all regulatory requirements. Because the project will be located at a City-owned park, no landowner agreements will be necessary.

Brief work plan containing tasks, deliverables, milestones, and schedules:
The work for the Calas Park SEP will include planning and design, environmental documentation and permitting, bidding, constructing, and commissioning a stormwater capture facility. As shown in the schedule below, project implementation will occur over a 48-month period beginning with the effective date of the final stipulated order. The Project features and amenities are described below, with specific project elements and milestones detailed in the project budget in the section below, including CEQA, project design, permitting, bidding, award, and construction.

The 48-month project timeframe is necessary to complete design, environmental review,

permitting, construction, and commissioning of an infrastructure project of this scope. Moreover, the extended timeframe is justified given the exceptional localized environmental benefits expected from the project. Stormwater runoff can mobilize pollutants (such as bacteria and metals) to nearby receiving waterbodies (Dominguez Channel) and ultimately, the Pacific Ocean, thereby precluding attainment of recreational and other beneficial uses. The capture, pretreatment and infiltration of stormwater via the SEP will provide significant water quality benefits to the local watershed, and the DAC in which the watershed is located. The ability to address urban runoff from the 63-acre drainage area with one project is a rare and important opportunity. Completion of the project will provide significant benefits to the City and surrounding community and will facilitate more expedient progress to address water quality challenges in this area than would otherwise be possible.

The 48-month proposed project timeframe is also necessary to minimize disruption to the local community, which relies heavily on the area for access to green space and places to remain active. Construction will be staged and scheduled to minimize impacts on sports and other activities that occur in the park. The park primarily serves an Environmental Justice community burdened by the impacts of a highly industrialized area (*e.g.,* multiple oil refineries and a major freeway within approximately one mile of the park). The community is characterized by high CalEnviroScreen 4.0 scores, specifically a score of 93 for "Impaired Waters" and 96 for "Pollution Burden." Thus, the investment this project will make in the community will provide "exceptional environmental benefits" that warrant approval of a 48-month project timeline.

Upon award of the funds, the City will undertake a Preliminary Engineering Study to progress the project concept to a 10% plan. The 10% design phase will include the geotechnical investigation necessary to confirm infiltration feasibility. With the concept proved feasible, the City will move to produce a Plans, Specifications, and Estimates package. Key deliverables will include project design and 30%, 90%, and 100% plans. Deliverables include quarterly progress reports (12 total), Preliminary Engineering Study, Design Plans (3 total, 1 for each deliverable), and a final completion report. The final completion report will conform to SEP Reporting and Certificate of Completion guidelines.

Discussion of the environmental documentation and permitting is included in the section above.

The project will schedule and stage construction to avoid impacts to frequently used park features such as playground equipment, event pavilions, and parking access. The soccer and baseball/softball fields will be impacted during construction. The work, however, will be scheduled around sports seasons to limit disturbance to community activities as much as possible.

Project Tasks and Schedule

Task 1: Planning and Design – this task includes preparation of a bid package for design of the project, and City Council actions to authorize bidding and award of the planning and design contract. A Preliminary Engineering Study will be produced to bring the project concept to a 10% plan. The 10% design phase will include a geotechnical investigation necessary to confirm infiltration feasibility. The City will then move to produce a Plans, Specifications, and Estimates package. Key deliverables will include project design and 30%, 90%, and 100% plans. The milestone will be met when construction drawings are at the 90% level. (100% plans will be produced at the conclusion of the Task 2 milestone after permits are issued and plans are modified, to the extent necessary based on permit requirements.)

- **Milestone deadline: 20 months from the effective date of the Stipulated Order.**

Task 2: Environmental Documentation and Permit Acquisition – As the CEQA lead agency for the project, the City will be required to conduct environmental review of the proposed project, including preparation of a CEQA document with supporting technical studies, as well as acquisition of regulatory permits. CEQA and any applicable regulatory permits will be initiated once a conceptual design plan is available, and to some extent will be conducted in parallel with Project Design. Preparation and approval of CEQA documents and acquisition regulatory permits is anticipated to take up to 16 months and be completed by the end of month 26. Deliverables for this milestone include certified CEQA documentation, acquisition of all required permits, and 100% construction drawings.

- **Milestone deadline: 26 months from the effective date of the Stipulated Order.**

Task 3: Bidding and Award of Contract: Based on the completion of Task 2, a bid package will be prepared and released, bids will be reviewed, and the construction contract awarded. This process is anticipated to take up to 6 months. This milestone will be complete when the construction contract is awarded.

- **Milestone deadline: 32 months from the effective date of the Stipulated Order.**

Task 4: Construction and Commissioning: This task includes issuance of a Notice to Proceed, mobilization of the contractor, construction and commissioning of the facilities. This task is anticipated to require 16 months, and the milestone will be achieved when commissioning is completed.

- **Milestone deadline: 48 months from the effective date of the Stipulated Order.**

Schedule for periodic monitoring (quarterly at a minimum) on the performance of the SEP to monitor the timely and successful completion of the SEP

The Sanitation Districts will provide quarterly progress reports to the Regional Board and a final report to the Regional Board and Office of Enforcement, on activities undertaken with the project. At a minimum, the reports will include a list of all activities on the SEP for each reporting period, an accounting of funds expended, and the proposed work for the following quarter. The reports will also describe whether the SEP is compliant with milestones/deadlines, and if not, the

cause of delay and anticipated date of compliance. Reports will be submitted no later than the first day of the second month following the end of each reporting period in accordance with the schedule shown below. The Sanitation Districts will submit progress reports on the SEP until the proposed project is completed and the SEP contribution is fully expended or otherwise approved by the Regional Board Executive Officer.

Quarterly Report Schedule:

Reporting Period	Report Submittal Date
January - March	May 1
April - June	August 1
July - September	November 1
October - December	February 1

Total project cost and amount of SEP money requested. If there are other funding sources, indicate if the funds have been committed and whether there are any restrictions on the fund.

The Calas Park SEP is anticipated to cost approximately $5,980,000. No other sources of funding are anticipated. The budget is shown below:

Project Element	**Amount**
Planning and Design	$565,000
Environmental Documentation and Permit Acquisition	$185,000
Bidding/Award of Contract	$20,000
Construction and Commissioning	$5,210,000
• Collection and Conveyance System	$1,457,000
• Pre-Treatment Unit	$228,000
• Underground Storage Vault	$2,585,000
• Harvest and Use System	$925,000
• Signage and Displays	$15,000
Project Total	$5,980,000

Time schedule for implementation with single or multiple milestones which identifies the amount of liability that will be suspended or excused upon the timely and successful completion of each milestone.

The timeline for completion and budget are shown below.

Task	SEP Milestone	Deadline*	Amount
1	Planning and Design	20 months	$565,000
2	Environmental Documentation and Permit Acquisition	26 months	$185,000
3	Bidding/Award of Contract	32 months	$20,000
4	Construction and Commissioning	48 months	$5,210,000
*Timeline begins on the effective date of the final Stipulated Order.		Total	$5,980,000

Third Party Financial Audits:
At the sole cost to the Sanitation Districts (*i.e.,* no SEP money shall be utilized for this report), the Sanitation Districts will submit a financial audit report prepared by an independent third party, which states, in their professional opinion, that the Sanitation Districts have expended the money in the amounts claimed. The Sanitation Districts shall provide the financial audit report to the Regional Board within three (3) months of the completion of the Calas Park SEP.

Publicity:
If the Sanitation Districts or the City of Carson publicize the Calas Park SEP, it will state in a prominent manner that the SEP is being undertaken as part of a Settlement Agreement with the Regional Water Board.

Discharger Responsibility Statement:
The Sanitation Districts are ultimately responsible for ensuring that the SEP monies are expended for the project described and remain liable for the SEP amount under the Settlement Agreement and Stipulated ACL until the SEP is completed and accepted by the Los Angeles Regional Board. After successful completion of the SEP and notification of acceptance by the Regional Board, any SEP funds that remain will be transferred to the State Water Pollution Cleanup and Abatement Account.

Optional Information:

1. **Whether the project is resilient to climate change and conforms with State Water Board Resolution No. 2017-0012, Comprehensive Response to Climate Change**
The Calas Park SEP is a stormwater capture project, which conforms with State Water Board Resolution No. 2017-0012, Comprehensive Response to Climate Change, to develop new and

underutilized water resources, expand surface water and groundwater storage where appropriate, and add operational flexibility to build and enhance resilience to impacts of climate change.

2. **Whether the applicant has the institutional stability and capacity to complete the project as proposed**

   The City of Carson has primary responsibility for the Calas Park SEP. The City plans, coordinates, implements, and maintains the parks for public benefit within the City's jurisdiction. The City continues to work to expand the facilities and scope of the resources it offers. The City has the institutional stability, capacity, and experience on similar projects to be able to complete the project as proposed. The City's Public Works Department, which will manage the SEP, will collaborate with the City's Parks and Recreation Division, which operates the park. Maintenance is performed by Public Works.

3. **Whether this project has monitoring, success criteria, or other tools to track long-term success**

   Performance indicators will include annual visitation to Calas Park and public outreach and education about the SEP's role in protecting surface water quality and conserving water. Visitors will be encouraged to provide feedback via social media (Facebook, Twitter and Instagram) to gauge community interest and effectiveness of the interpretive materials provided. The City will adapt and make improvements to the outreach materials and performance of the SEP based on this feedback. Additionally, the Public Works Department will perform operations and maintenance of the project going forward as part of its operational responsibilities, which will include monitoring to assess the effectiveness of the stormwater infiltration and passive irrigation systems.

ATTACHMENT A

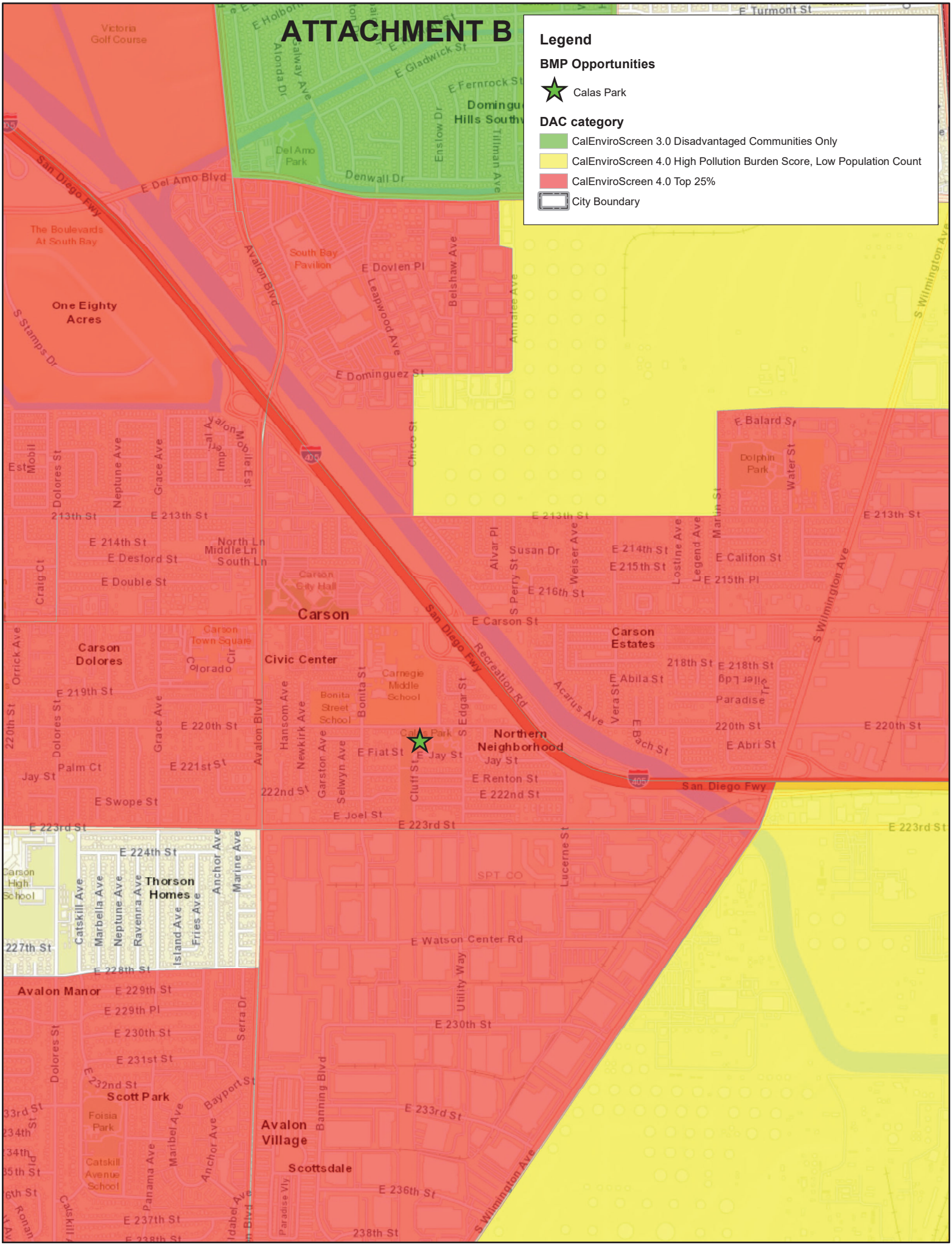

ATTACHMENT B
Legend
BMP Opportunities
Calas Park
DAC category
CalEnviroScreen 3.0 Disadvantaged Communities Only
CalEnviroScreen 4.0 High Pollution Burden Score, Low Population Count
CalEnviroScreen 4.0 Top 25%
City Boundary
Carson
Carson Estates
Northern Neighborhood
Civic Center
Thorson Homes
Scott Park
Avalon Village
Avalon Manor
Scottsdale
Dominguez Hills South
One Eighty Acres
The Boulevards At South Bay
South Bay Pavilion
Del Amo Park
Victoria Golf Course
Dolphin Park
Carson Town Square
Carson City Hall
Carnegie Middle School
Bonita Street School
Foisia Park
Catskill Avenue School
Carson High School
San Diego Fwy
E Del Amo Blvd
E Dominguez St
E Carson St
E Watson Center Rd
E Turmont St
E Balard St
E 213th St
E 214th St
E 215th St
E 216th St
E 218th St
E 219th St
E 220th St
E 221st St
E 222nd St
E 223rd St
E 224th St
E 229th St
E 230th St
E 231st St
E 232nd St
E 233rd St
E 236th St
E 237th St
238th St
227th St
Avalon Blvd
Recreation Rd
Acarus Ave
Alvar Pl
Susan Dr
Weiser Ave
Lostine Ave
Legend Ave
Martin St
Water St
E Califon St
E Abila St
E Abri St
Paradise
Vera St
Beach St
Edgar St
Cluff St
Garston Ave
Selwyn Ave
Hansom Ave
Newkirk Ave
Bonita St
Dolores St
Grace Ave
Neptune Ave
Orrick Ave
Craig Ct
E Double St
E Desford St
North Ln
Middle Ln
South Ln
E Fiat St
E Jay St
Jay St
Palm Ct
E Swope St
E Joel St
E Renton St
Lucerne St
SPT CO
Utility Way
Banning Blvd
Serra Dr
Bayport St
Maribel Ave
Panama Ave
Anchor Ave
Marine Ave
Catskill Ave
Marbella Ave
Ravenna Ave
Island Ave
Fries Ave
Paradise Vly
Idabel Ave
Chico St
Leapwood Ave
Belshaw Ave
Annalee Ave
Enslow Dr
Tillman Ave
Denwall Dr
Alondra Dr
Gateway Ave
E Holbrook St
E Gladwick St
E Fernrock St
S Stamps Dr
S Wilmington Ave
Craig Ct
Est Mobil
Imperial Avalon Golf Course

Exhibit B

Escrow Agent Compensation Schedule

Schedule of Fees for Services as

Escrow Agent

For

Los Angeles County Sanitation District Calas Park Stormwater and Water Quality Improvements Supplemental Environme

Project Escrow Agreement

CTS01010 A	**Acceptance Fee -** The acceptance fee includes the administrative review of documents, initial set-up of the account, and other reasonably required services up to and including the closing. This is a one-time, non-refundable fee, payable at closing. Does not include legal fees.	Amount $1,000.00
CTS16156 A	**Legal Expenses** - Includes fees and expenses of legal counsel (except for the fees associated with rendering a standard legal opinion).	Amount $2,500.00
CTS04470	**Escrow Agent Depository -** Annual fee for the standard escrow agent depository services associated with the administration of the account. Administration fees are payable in advance.	Amount $2,250.00
CTS10880	**Disbursement / Draw -** Charge per disbursement. Includes the wire or check fee.	Amount $25.00

Direct Out of Pocket Expenses. Reimbursement of expenses associated with the performance of our duties, including but not limited to publications, legal counsel's fees and expenses after the initial closing, travel expenses, and filing fees will be billed at cost.

Extraordinary Administration Services. Extraordinary Administration Services ("EAS") are duties, responsibilities or activities not expected to be provided by the trustee or agent at the outset of the transaction, not routine or customary, and/or not incurred in the ordinary course of business, and may require analysis or interpretation. Billing for fees and expenses related to EAS is appropriate in instances where particular inquiries, events or developments are unexpected, even if the possibility of such circumstances could have been identified at the inception of the transaction, or as changes in law, procedures, or the cost of doing business demand. At our option, EAS may be charged on an hourly (time expended multiplied by current hourly rate), flat or special fee basis at such rates or in such amounts in effect at the time of such services, which may be modified by us in our sole and reasonable discretion from time to time. In addition, all fees and expenses incurred by the trustee or agent, in connection with the trustee's or agent's EAS and ordinary administration services and including without limitation the fees and expenses of legal counsel, financial advisors and other professionals, charges for wire transfers, checks, internal transfers and securities transactions, travel expenses, communication costs, postage (including express mail and overnight delivery charges), copying charges and the like will be payable, at cost, to the trustee or agent. EAS fees are due and payable in addition to annual or ordinary administration fees. Failure to pay for EAS owed to U.S. Bank when due may result in interest being charged on amounts owed to U.S. Bank for extraordinary administration services fees and expenses at the prevailing market rate.

General. Your obligation to pay under this Fee Schedule shall govern the matters described herein and shall not be superseded or modified by the terms of the governing documents, and survive any termination of the transaction or governing documents and the resignation or removal of the trustee or agent. This Fee Schedule shall be construed and interpreted in accordance with the laws of the state identified in the governing documents without giving effect to the conflict of laws principles thereof. You agree to the sole and exclusive jurisdiction of the state and federal courts of the state identified in the governing documents over any proceeding relating to or arising regarding the matters described herein. Payment of fees constitutes acceptance of the terms and conditions described herein.

Account approval is subject to review and qualification. Fees are subject to change at our discretion and upon written notice. Fees paid in advance will not be prorated. The fees set forth above and any subsequent modifications thereof are part of your agreement. Finalization of the transaction constitutes agreement to the above fee schedule, including agreement to any subsequent changes upon proper written notice. In the event your transaction is not finalized, any related out-of-pocket expenses will be billed to you directly. Absent your written instructions to sweep or otherwise invest, all sums in your account will remain uninvested and no accrued interest or other compensation will be credited to the account. Payment of fees constitutes acceptance of the terms and conditions set forth.

IMPORTANT INFORMATION ABOUT PROCEDURES FOR OPENING A NEW ACCOUNT:
To help the government fight the funding of terrorism and money laundering activities, Federal law requires all financial institutions to obtain, verify and record information that identifies each person who opens an account.
For a non-individual person such as a business entity, a charity, a Trust or other legal entity we will ask for documentation to verify its

formation and existence as a legal entity. We may also ask to see financial statements, licenses, identification and authorization documents from individuals claiming authority to represent the entity or other relevant documentation.

Report to Honorable Mayor and City Council

Tuesday, March 17, 2026, 5:00 PM

CONSENT 22.

To: Honorable Mayor and City Council

From: Dr. Arlington Rodgers, Director of Public Works PW Engineering

Subject: CONSIDER ADOPTING THE FINAL 2025 PAVEMENT MANAGEMENT PROGRAM REPORT PREPARED BY APPLIED RESEARCH ASSOCIATES, INC. (ARA) (CITY COUNCIL)

I. SUMMARY

The City of Carson hired Applied Research Associates, Inc. (ARA), an engineering consulting firm, to update the City's Pavement Management Program (PMP). A Pavement Management Program is a planning tool used by cities to evaluate the condition of streets and determine the most cost-effective way to maintain and repair them over time. As part of this effort, ARA inspected and collected data on the condition of streets throughout the City and updated the City's pavement database using specialized pavement management software called StreetSaver. StreetSaver analyzes pavement conditions and assigns each street a Pavement Condition Index (PCI). The PCI is a standard rating used nationwide to measure roadway condition on a scale from 0 to 100, with higher numbers indicating better pavement conditions. The software also helps estimate the funding needed to perform maintenance and rehabilitation work, such as resurfacing or reconstruction, and allows staff to evaluate different budget scenarios to understand how various funding levels could affect the condition of the City's streets over time.

The City's last Pavement Management Program update was completed in 2022. Updating the program regularly is recommended by the Los Angeles County Metropolitan Transportation Authority (Metro) and helps the City remain competitive when applying for transportation and infrastructure grants. In addition, the updated program provides objective data and analysis that City staff and the City Council can use to make informed decisions about maintaining and improving the City's roadway system. The 2025 update evaluates the current condition of the City's streets, forecasts how pavement conditions may change over time, and analyzes several funding scenarios to determine how different levels of investment could affect the roadway network. Based on the analysis, the City's overall area-weighted Pavement Condition Index (PCI) is 65, which is classified as "Good." However, approximately 27 percent of the City's roadway network is currently rated as poor or very poor condition and will require repair or rehabilitation. Without continued and sustained investment in roadway maintenance, pavement conditions are expected to decline over the next ten years.

The City Council is requested to receive, file, and adopt the Final Updated Pavement Management Program Report, which will serve as a planning and decision-making tool for maintaining and improving the City's street network in the coming years.

II. RECOMMENDATION

RECEIVE, FILE, and ADOPT the final 2025 Pavement Management Program Report prepared by Applied Research Associates, Inc.

III. ALTERNATIVES

TAKE any other action deemed appropriate by the City Council and consistent with applicable law.

IV. BACKGROUND

The City of Carson is responsible for maintaining approximately 249 miles of public streets throughout the community. These streets include 94.2 miles of arterial streets (major roadways that carry high volumes of traffic such as Carson Street), 17.9 miles of collector streets (roads that connect neighborhoods to larger arterial roads), 130.9 miles of residential streets within neighborhoods, and 6.1 miles of alleys. Maintaining this large network of streets requires careful planning so that repairs are performed at the right time and in the most cost-effective manner.

The City's Pavement Management Program (PMP) is a planning and decision-making tool that helps the City evaluate the condition of its streets and determine the best strategies to maintain and repair them. The program uses data and engineering analysis to help staff make consistent, cost-effective, and transparent decisions about how to preserve and improve the City's roadway network. The primary goals of the Pavement Management Program are to maintain an accurate inventory of all City streets, evaluate pavement conditions across the entire roadway system, and determine the most appropriate maintenance and repair strategies. The program also analyzes the level of funding needed to maintain the street network and evaluates whether current funding sources are sufficient to keep streets in good condition over time.

In July 2025, the City's consultant, Applied Research Associates, Inc. (ARA), conducted a citywide pavement condition survey, which involved evaluating streets throughout Carson to determine their current condition. The results were entered into the City's pavement management database using a specialized pavement analysis software program called StreetSaver, which is widely used by cities and transportation agencies throughout California. ARA completed the final Pavement Management Program report in November 2025 and will also provide training and user manuals to City staff who will maintain and use the system moving forward (Exhibit No. 1).

The condition of the City's streets is measured using the Pavement Condition Index (PCI). The PCI is a standard engineering rating used across the country that measures pavement condition on a scale from 0 to 100, with higher numbers indicating better conditions. A newly constructed street would typically have a PCI close to 100, while a severely deteriorated or failed roadway may have a PCI of 10 or lower. The City's previous Pavement Management Program, completed in 2022, reported that the overall street network was in "fair" condition, with an average PCI of 56. At that time, approximately 33.4 percent of streets were classified as good, while 41.5 percent were identified as poor or failed. Historically, the City's pavement network had an average PCI of 72 in 2007 and 67 in 2016, indicating that pavement conditions had gradually declined over time before recent maintenance and rehabilitation efforts were implemented.

Based on the 2025 pavement condition survey, the City's residential streets are now in "Very Good" condition, with an average PCI of 75. Collector streets have an average PCI of 66, which is classified as "Good." The City's arterial streets, which carry heavier traffic and experience greater wear and tear, have average PCI values ranging from 54 to 56, which also fall within the "Good" condition category. Overall, the City's street network has an area-weighted PCI of 65, meaning Carson's roadway system is currently classified as being in "Good" condition. Although the overall network condition is considered good, approximately 27 percent of the City's streets are still classified as poor or very poor condition. These streets will require targeted maintenance and rehabilitation in the coming years to prevent further deterioration and more costly reconstruction in the future. As expected, residential streets are generally in better condition than major roadways because arterial and higher-traffic streets carry significantly more vehicles, including heavy trucks and buses, which place greater stress on the pavement. In addition, the improved condition of residential streets reflects the City Council's ongoing commitment to improving roadways throughout the community and the significant investments made in recent years to fund pavement rehabilitation. These investments, combined with the Public Works Department's pavement rehabilitation program, including systematic grinding and asphalt overlay projects completed in several areas of the City, have helped stabilize and improve overall pavement conditions across Carson's street network.

When compared with nearby jurisdictions, the City of Carson's pavement condition is competitive with surrounding cities. Carson's current average PCI of 65 is higher than the City of Los Angeles (62) and the City of Compton (59), and comparable to the City of Long Beach (61). These comparisons indicate that Carson's street conditions are generally consistent with, or better than, many neighboring communities. However, continued investment will be necessary to maintain this progress and address streets that remain in poor condition.

The Pavement Management Program also analyzes future funding needs. The 2025 report evaluated several ten-year funding scenarios to determine how different investment levels would affect the condition of the City's streets over time. Under a scenario where the City continues to invest approximately $3.5 million per year, the pavement network is projected to gradually decline, with the overall PCI dropping to approximately 51 within ten years. To maintain the current overall PCI of 65, the Pavement Management Program estimates that the City would need to invest approximately $11.3 million per year over the next ten years. This level of funding would help prevent further deterioration and maintain street conditions within the "Good" range. To further improve the street network and achieve what engineers call a "State of Good Repair", defined as an average PCI of 75, the analysis estimates that an investment of approximately $17.9 million per year over ten years would be required. A street network in a "State of Good Repair" means most streets are in good or very good condition and are maintained before major damage occurs. This approach extends the life of roadways, improves safety and driving conditions for residents, and reduces long-term repair costs because preventative maintenance is far less expensive than full street reconstruction. Maintaining streets in good condition also helps protect the City's infrastructure investment and improves overall quality of life in the community. It is important to note that these estimates include pavement rehabilitation costs only and do not include the cost of related concrete improvements such as sidewalk repairs, curb and gutter reconstruction, or accessibility ramps.

As the Public Works Department prepares the Fiscal Year 2026-2027 Operating Budget and Capital Improvement Program (CIP), Engineering and Operations staff will use the findings from the Pavement Management Program to guide future investment recommendations for the City's street network. This analysis helps ensure that the City continues to make smart, data-driven decisions that maximize the value of taxpayer investments in roadway infrastructure. The Pavement Management Program also helps the City prioritize maintenance projects, pursue grant funding opportunities, supplement existing gas tax revenues, and implement cost-effective preventative maintenance strategies that extend the life of streets throughout the community.

V. FISCAL IMPACT

The purpose of this item is to provide information to the City Council regarding the updated Pavement Management Program. This report is being presented for informational purposes only so that the City Council and members of the public can understand the current condition of the City's streets and the long-term funding needs associated with maintaining and improving the roadway network. There is no direct fiscal impact associated with this staff report, as it does not authorize any new spending or funding at this time.

VI. EXHIBITS

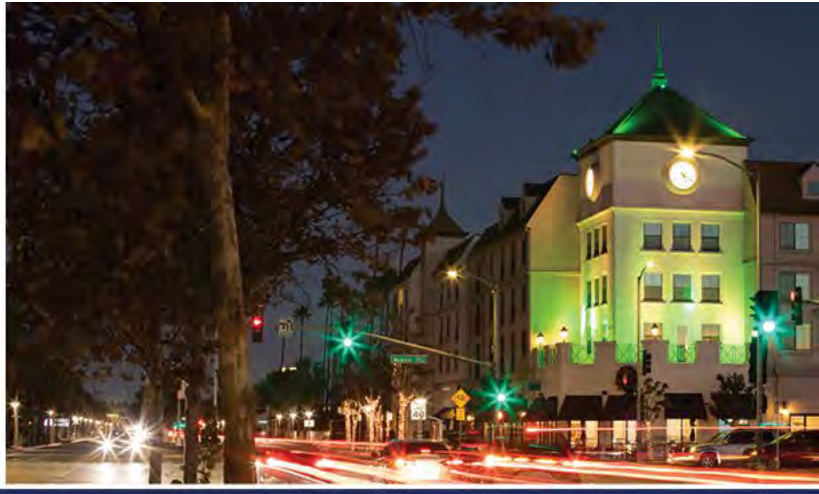
1. Pavement Management Program 2025

Attachments

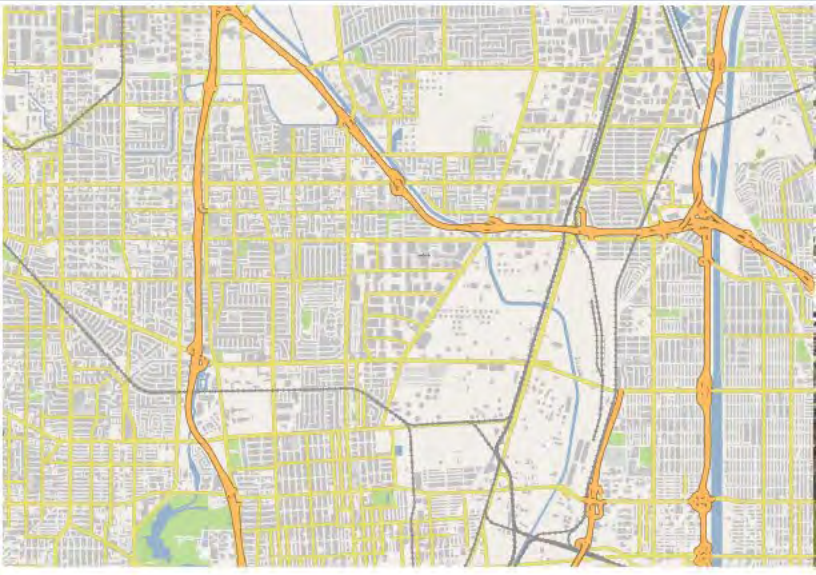
Pavement Management Program 2025

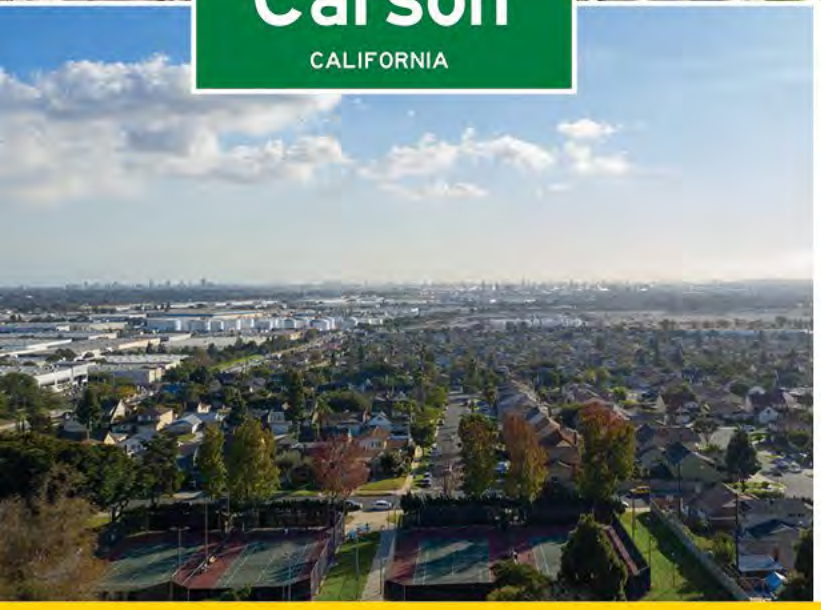
CITY OF CARSON

The Jewel of the South Bay



Pavement Management Program Update 2025





Submitted to:

City of Carson
Public Works Department
701 E. Carson Street,
Carson, CA 90745

ARA

Jesus Sanchez: jsanchez@carsonca.gov
Gilbert Marquez GMarquez@carsonca.gov

In consultation with

Phillip Donovan - ARA
Joseph Dib - ARA
Meet Singh - ARA

Table of Contents

City Pavement Condition Team ii

Overview 1

Executive Summary 2

Introduction 4

1. Pavement Management Overview 5

1.1 Pavement Condition Index (PCI) 5
1.2 Pavement Management Approach 6
1.3 StreetSaver® Pavement Management System (PMS) Overview 7

2. Data Collection and Analysis Methodology 10

2.1 Pavement Condition Survey System 10
2.2 Pavement Distress Data Interpretation 12

3. StreetSaver® Implementation 14

3.1 Sections added to StreetSaver® 15
3.2 Historical PCI Comparison 15
3.2.1 Inspection Coverage and Comparable Network Definition 15
3.2.2 Network-Wide PCI Comparison 16
3.2.3 PCI Comparison by Functional Class 17
3.2.4 PCI Comparison by Surface Type 18
3.2.5 Implications for Funding Adequacy 18

4. 2025 Pavement Condition Index (PCI) Results 20

4.1 International Roughness Index (IRI) 20

5. Pavement Deterioration Models 24

5.1 Decision Tree and Unit Cost 25

6. M&R Budget Scenario 29

6.1 Fixed Annual Budget Scenarios 29
Scenario 1: Fixed Budget of $3.5M 29
Scenario 2: Fixed Budget of $10M 30
6.2 Target Driven Scenario 32
Scenario 1: Improve Condition to a State of Good Repair – PCI = 75 32
Scenario 2: Maintain Current PCI of 65 33
Scenario Comparisons: 34

7. Summary and Recommendations 35

7.1 Summary 35
7.2 Recommendations 36
7.2.1 Perform Regular Pavement Condition Inspections 36
7.2.2 Keep the Work History Data Update in StreetSaver® Database 36
8. Disclaimer 37

APPENDICES

APPENDIX A Section Condition Report A1
APPENDIX B Maps B1
APPENDIX C Section Included in $10M per Year C1
APPENDIX D Sections Added to StreetSaver D1

List of Figures

Figure 1. Network PCI Comparison of Nearby Cities. 1
Figure 2. City's PCI Categories. 2
Figure 3. Overall Pavement Network Condition Distribution. 3
Figure 4. City of Carson Roads Included in 2025 Scope of Work. 4
Figure 5. Pavement Condition Index Process and Categories. 5
Figure 6. Functional Class PCI Values. 6
Figure 7. Stages of Pavement Lifecycle: From Preservation to Rehabilitation. 6
Figure 8. Pavement Life Cycle and Repair Costs. 7
Figure 9. PathRunner Hardware Components. 10
Figure 10. Forward-Facing HD+ Cameras (on the left) and LadyBug Camera (on the right). 11
Figure 11. Sample ROW Image of StreetID 162ST10 - 162ST010. 11
Figure 12. Sample ROW Image of StreetID 189ST20 - 189ST051. 12
Figure 13. Sample ROW Image of StreetID NEWAV10 - NEWAV020. 12
Figure 14. 3D Pavement Images (left) and Software Identified Cracks (in purple). 13
Figure 15. Network-Wide PCI Comparison. 16
Figure 16. PCI Comparison by Functional Class. 17
Figure 17. PCI Comparison by Surface Type. 18
Figure 18. Overall Pavement Network Condition Distribution. 20
Figure 19. Typical Pavement Conditions Observed during PCI Inspection. 24
Figure 20. Typical Pavement Deterioration Curve. 25
Figure 21. PCI Condition Category. 28
Figure 22. Impact of Treatment on Pavement Condition Index: Budget $3.5M per Year 30
Figure 23. Impact of Treatment on Pavement Condition Index: Budget $10M per Year 31
Figure 24. Impact of Treatment on Pavement Condition Index: Achieving a State of Good Repair 32
Figure 25. Impact of Treatment on Pavement Condition Index: Maintain Current PCI of 65 34
Figure 26. PCI Comparison by Scenarios. 35

List of Tables

Table 1. Asphalt Pavement Distress Types. 13
Table 2. Concrete Pavement Distress Types. 14
Table 3. City's Pavement Inventory per Pavement Class 14
Table 4. City's Pavement Inventory per Surface Type 15
Table 5. Number of Inspected Sample by Year. 16
Table 6. Pavement Condition Distribution by Pavement Rank. 21
Table 7. Pavement Condition Distribution by Surface Type. 21
Table 8. Categorization of Observed Pavement Distresses. 24
Table 9. Decision Tree and Unit Costs by Work Type. 26
Table 10.Breakdown of Yearly Maintenance and Rehabilitation Cost for $3.5M per year 30
Table 11.Breakdown of Yearly Maintenance and Rehabilitation Cost for $10M per year 31
Table 12. Breakdown of Yearly Maintenance and Rehabilitation Cost to Achieve and Maintain a State of Good Repair 33
Table 13. Breakdown of Yearly Maintenance and Rehabilitation Cost to Maintain Current PCI of 65 34
Table 14. Comparison of annual M&R Cost. 35

OVERVIEW

The City of Carson is located in Southern California, within Los Angeles County. It is bordered by several communities, including Torrance, Compton, Long Beach, and an unincorporated area of Los Angeles County. Carson is approximately 13 miles south of downtown Los Angeles and about 14 miles north of the Port of Los Angeles and Long Beach, offering both proximity to major employment centers and a strong local community character. The city is well-connected to the region through several major highways, including the I-405, I-110, and SR-91, providing convenient access to Los Angeles, the South Bay, and neighboring communities.

The City of Carson's Public Works Department is committed to maintaining and improving the city's infrastructure while delivering high-quality, cost-effective services that support residents, businesses, and visitors. The department's mission includes managing and enhancing the City's transportation network, public facilities, and essential infrastructure such as roadways, sidewalks, traffic systems, and drainage facilities to ensure safety and quality of life.

This report provides an overview of essential details regarding street network and addresses the following questions:

- What is the current condition of the City's Street network?
- How do various pavement treatments impact the condition and longevity of city streets?

The chart below shows the latest Network PCI scores for neighboring cities City of Carson (65), City of LA (62), City of Compton (59), and City of Long Beach (61), indicating overall **Good** pavement conditions.

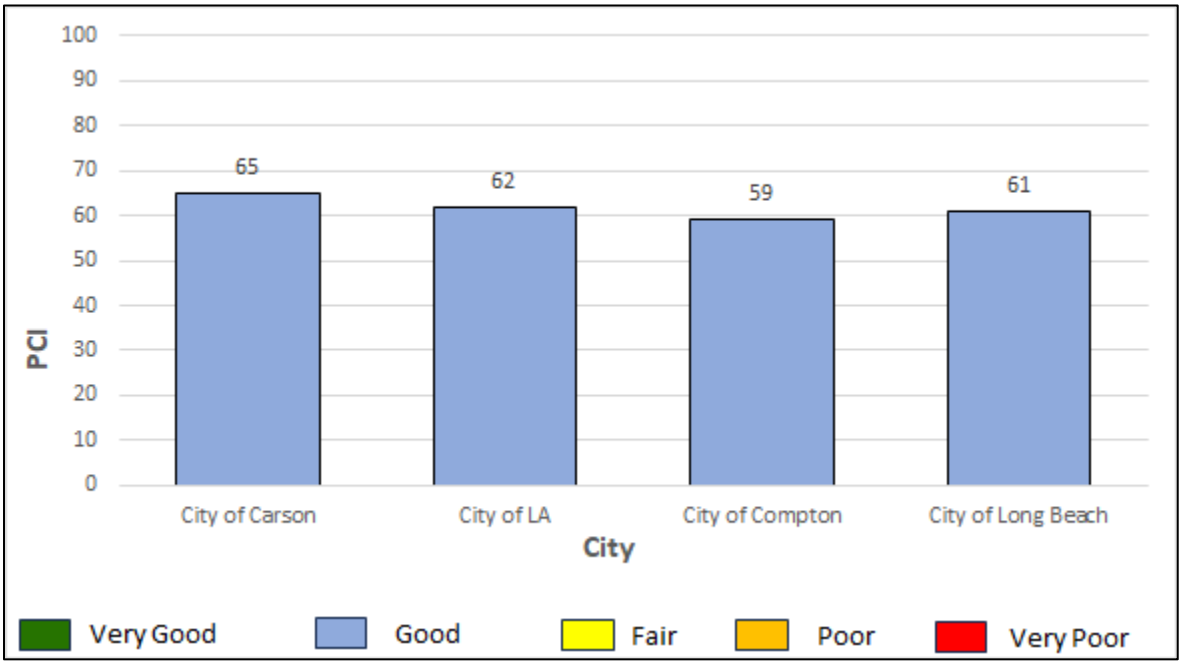


Figure 1. Network PCI Comparison of Nearby Cities.

EXECUTIVE SUMMARY

The City of Carson Public Works Department strives to provide a safe, efficient, and sustainable transportation system for its users. The City has implemented a Pavement Management System (PMS) to assist in determining pavement needs and priorities. The PMS supplements decision-making by helping the City implement cost-effective solutions to pavement problems and improve the overall condition of roads. The PMS also allows the city to maximize the use of limited funding for pavement improvements by taking a comprehensive approach using best management practices instead of a "worst-first" pavement strategy. The PMS considers pavement life cycle costs in determining what work should be completed. This involves applying the right treatment to the right pavement at the right time to maximize the pavement's service life at the lowest overall cost.

The objectives of this project were to: (1) perform a network-level condition survey of the City's pavements using the Metropolitan Transportation Commission (MTC) guidelines, (2) update city's StreetSaver® database, and (3) Prepare a pavement condition report. The data collection scope of the project included the City's approximately 249.07 centerline miles of road network. This includes 94.2 centerline miles of major and minor arterial streets, 17.9 centerline miles of collector streets, 130.9 centerline miles of residential/local streets, and 6.10 centerline miles of alleys.

The Pavement Condition Index (PCI) method was used in assessing the condition of the City's pavements. The PCI method is an objective and repeatable method for assessing pavement conditions and is widely used in industry. Pavement conditions were categorized based on PCI values using the five PCI ranges shown in Figure 2.

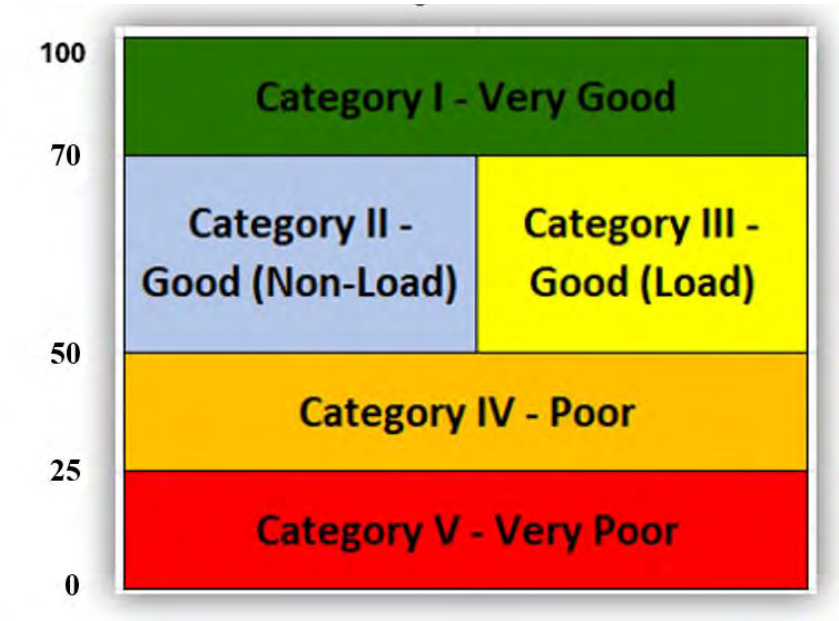


Figure 2. City's PCI Categories.

The City's StreetSaver® database includes a total of 1,792 pavement sections, each representing the smallest manageable unit for planning maintenance or rehabilitation treatments. According to the recent pavement condition assessment, approximately 54% of the evaluated area was found to be in Category I - Very Good condition, indicating a generally strong pavement performance across most of the network.

Less than 1% of the network fell within Category II - Good (Non-Load), while 14% was categorized as Category III – Good (Load), suggesting minor surface or load-related distress. 21.2% of the area was found to be in Category IV - Poor, and about 10.8% was classified as Category V - Very Poor, representing sections in need of immediate attention.

Collectively, about 32% of the network lies within the “Poor” or “Very Poor” categories, highlighting a limited but important portion of pavement that requires timely maintenance and rehabilitation (M&R) actions to prevent further deterioration. The overall distribution of pavement conditions across the network is shown in Figure 3.

Compared to prior inspection cycles, the City's overall network PCI has improved from 58 in 2022 to 65 in 2025, recovering 7 points after a 10-point decline from 68 in 2016 to 58 in 2022. This recovery demonstrates that recent funding levels and treatment strategies have been effective in reversing the deterioration trend observed during the prior period of underinvestment. Residential streets and collectors have nearly or fully returned to their 2016 condition levels, while arterials have shown only partial recovery due to higher traffic demands. Although the current PCI remains 3 points below the 2016 baseline, the positive trend confirms that sustained and strategically targeted investment can restore and maintain network performance over time. A detailed historical PCI comparison is presented in Section 3.2.

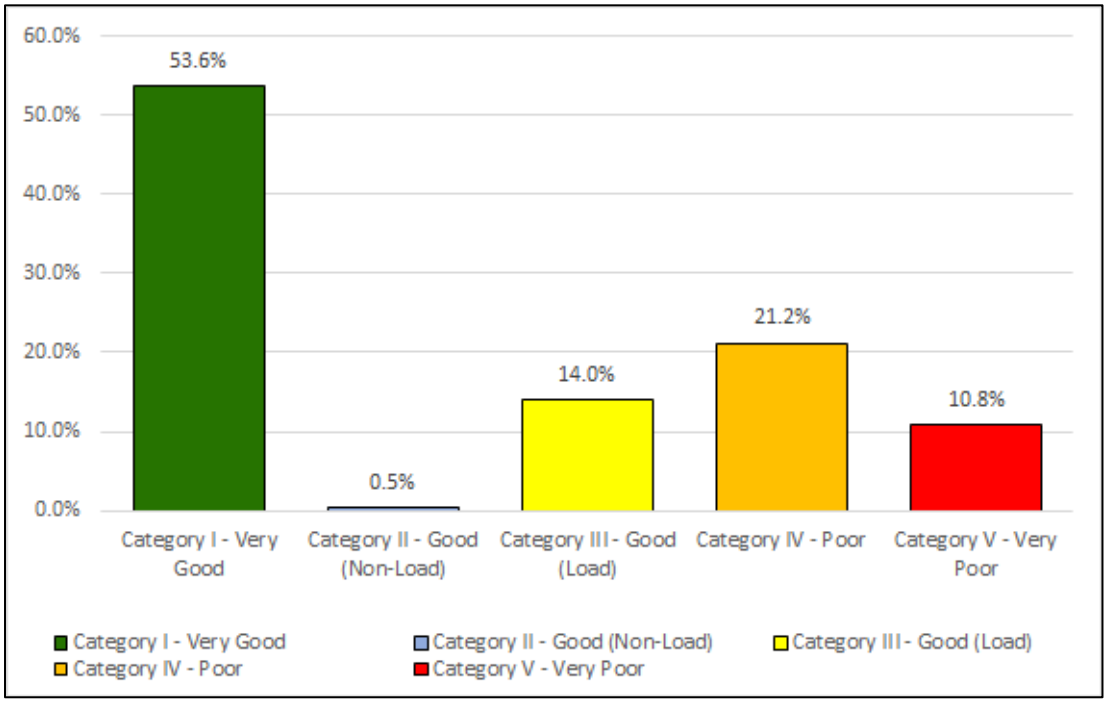


Figure 3. Overall Pavement Network Condition Distribution.

INTRODUCTION

In July 2025, Applied Research Associates performed a semi-automated pavement condition survey on the City's entire roadway network and updated the City's StreetSaver® database.

The City's pavement inventory includes approximately 249.07 centerline miles of roads. This includes 86.9 centerline miles of Arterial streets, 7.3 miles of Minor Arterial, 17.9 centerline miles of collector streets, 130.9 centerline miles of local (residential) streets, and 6.10 centerline miles of Others (alleys) streets.

The primary objectives of this data collection were as follows:

- Collected laser-based pavement images of the City's roadway network. Figure 4 is a general map of the roads inspected.
- Perform an imagery-based PCI survey on the collected data using ASTM D6433 guidelines.
- Update the City's StreetSaver® PMS using the provided GIS shapefile, the inspection data, the available work history, and updated attributes (e.g., Surface type).

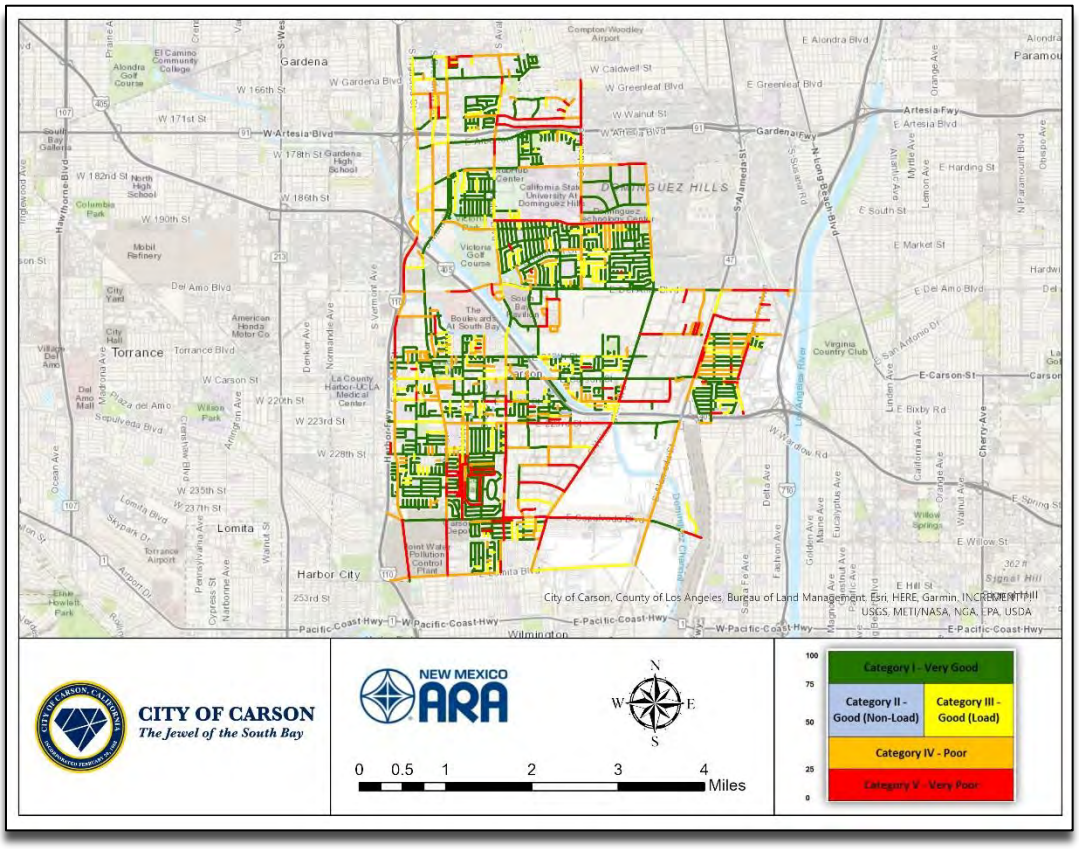


Figure 4. City of Carson Roads Included in 2025 Scope of Work.

1. PAVEMENT MANAGEMENT OVERVIEW

1.1 Pavement Condition Index (PCI)

The Pavement Condition Index (PCI) survey method was used in assessing the condition of the City's roads. The PCI method is an objective and repeatable method for assessing pavement conditions and is widely used by cities. PCI scores range from 0 to 100, with 0 representing the worst pavement condition and 100 representing the best possible condition. If properly designed and constructed, new pavements begin their service life with a PCI of 100. Due to the effects of loading and aging, the pavement deteriorates over time and its PCI declines. To obtain a section's PCI, the type, extent, and severity of pavement distresses are recorded on representative samples and are used to calculate a deduct value. The PCI is calculated by subtracting the sum of all deductions from 100. Pavement conditions were categorized based on the PCI values shown in Figure 5.

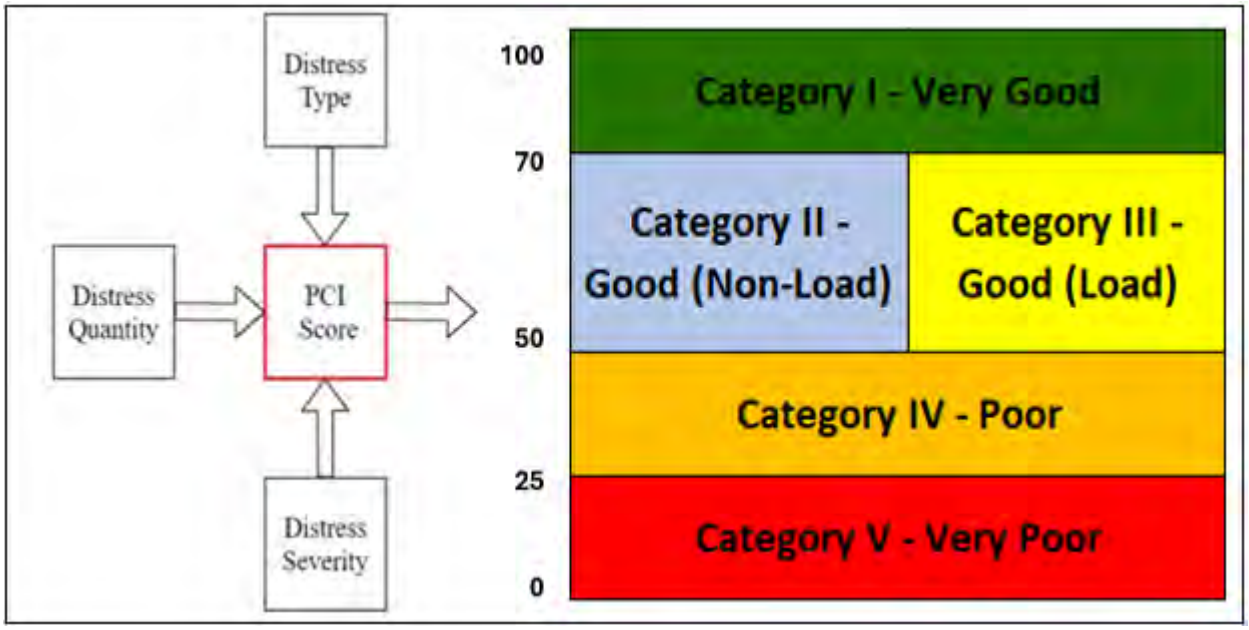


Figure 5. Pavement Condition Index Process and Categories.

As of the 2025 survey, the overall area-weighted average PCI of the City's roadway network was **65**. About 27 percent of the total maintained miles throughout the city were found to be in need of rehabilitation or replacement (poor or very poor category). The bar chart presents the average area-weighted PCI scores categorized by roadway functional classes. The Residential/Local (R – Tertiary) class has the highest average PCI at 75, indicating a very good condition. Major Collector (C – Secondary) follows with a PCI of 66, also falling within the good range. In contrast, both Minor Arterial (MiA – Primary) and Other Principal Arterial (OPA – Primary) roads have average PCI scores of 56 and 54, respectively, classifying them as being in good condition. The chart highlights that residential streets generally exhibit better pavement conditions compared to higher-volume arterials, which may reflect differences in traffic loading, maintenance prioritization, or funding allocation.

The PCI scores reflect the condition of the city's pavement network across various functional roadway classes.

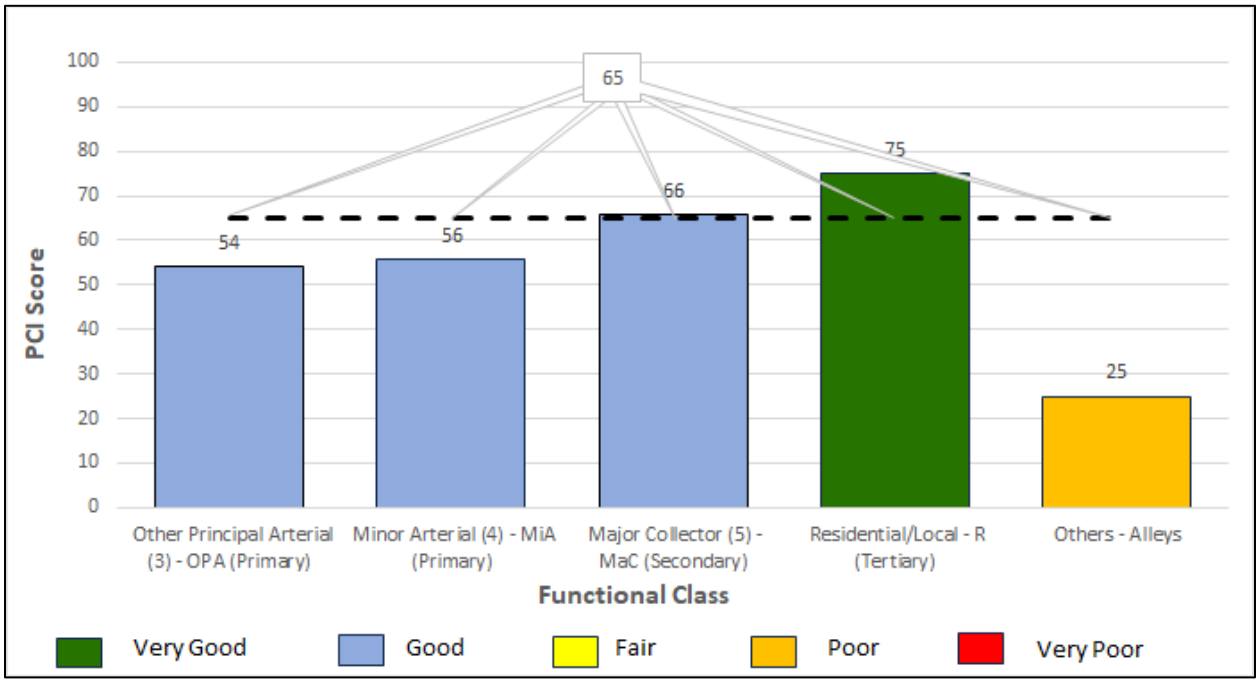


Figure 6. Functional Class PCI Values.

1.2 Pavement Management Approach

Pavement management is a systematic approach to forecasting pavement M&R requirements and then optimizing and prioritizing available M&R funding. As shown in Figure 7, the primary objective of pavement management is to preserve pavements in good condition rather than wait for them to fail and then have to reconstruct them.

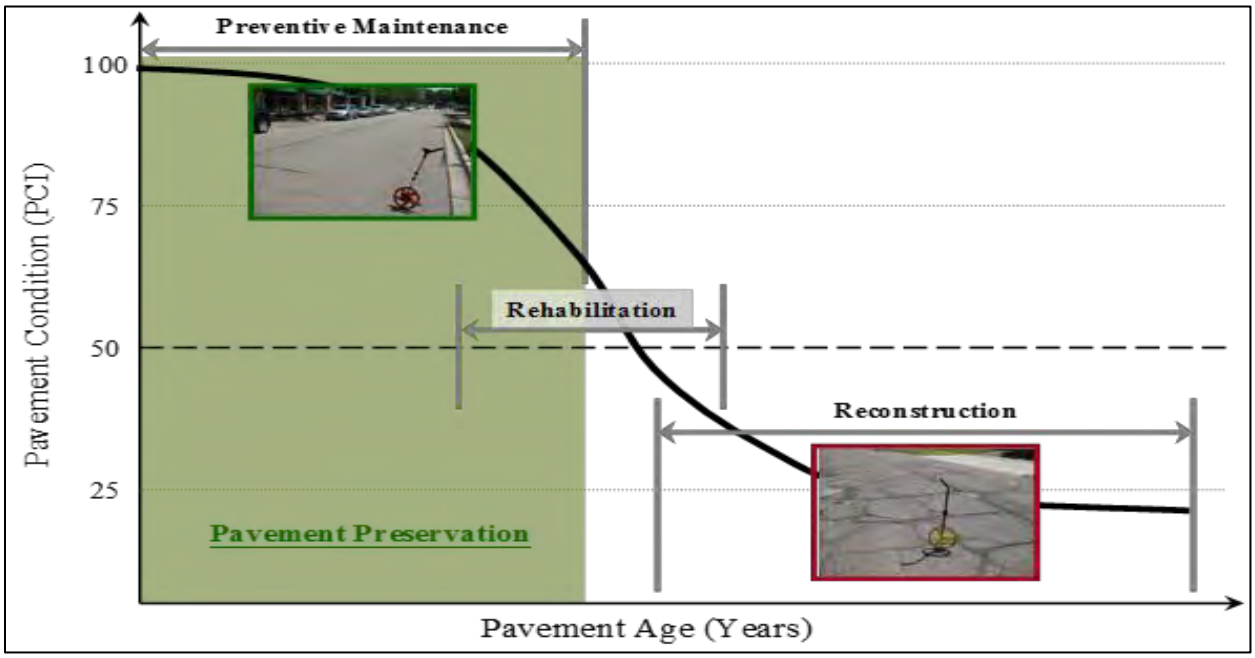


Figure 7. Stages of Pavement Lifecycle: From Preservation to Rehabilitation.

There is a critical point in pavement's service life (denoted as the critical PCI) after which the slope of deterioration curve and M&R costs may increase significantly. When the appropriate preventive M&R treatments (e.g., crack sealing, seal coats, etc.) are applied at the correct times during a pavement's service life, these relatively inexpensive preventive M&R treatments can cost-effectively extend the service life of the pavement, as shown in Figure 8.

There are significant financial implications to a decrease in PCI. Obviously, pavements deteriorate over time. The deterioration is slow at first, but then generally accelerates when the PCI drops below 70. As the pavement deteriorates, the cost of repair also increases rapidly. If there is inadequate funding to maintain streets in their current condition, the unfunded backlog will grow rapidly.

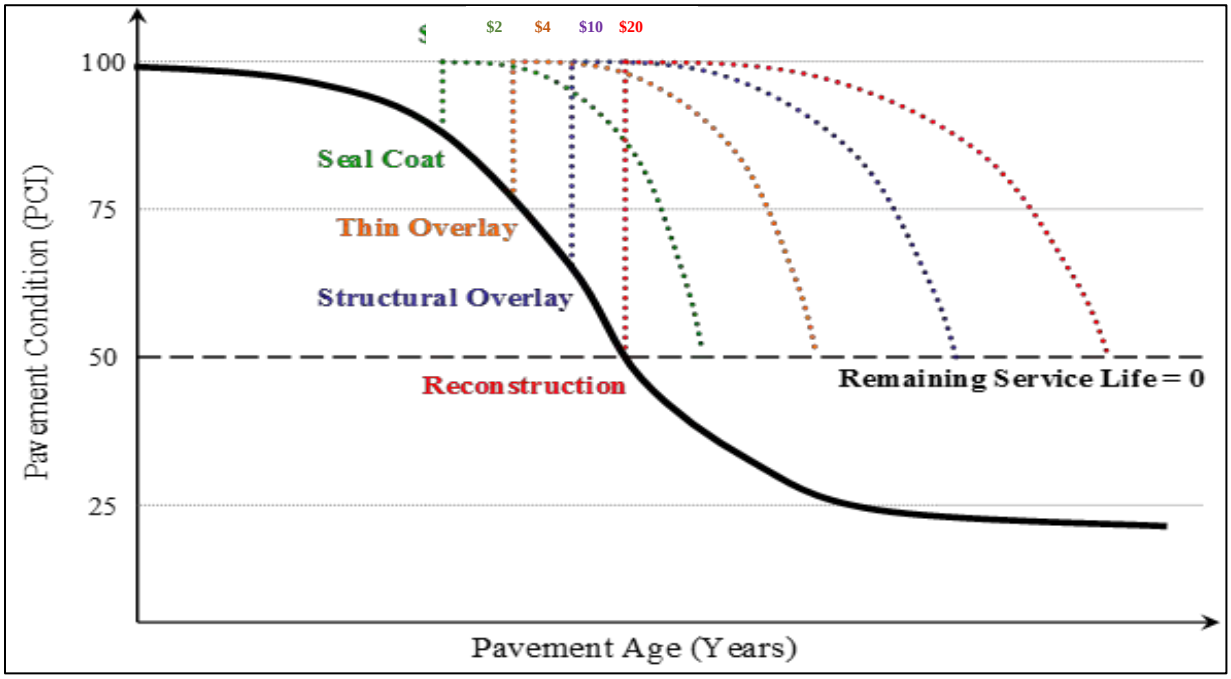


Figure 8. Pavement Life Cycle and Repair Costs.

As pavement management concepts have gained acceptance, computer-based PMS programs have been developed to assist agencies in managing their pavements. PMS programs currently rely on a comprehensive pavement inventory, regular pavement condition assessments, pavement performance modeling, and sophisticated analysis tools that forecast future pavement condition and estimate future M&R needs.

1.3 StreetSaver® Pavement Management System (PMS) Overview

StreetSaver® is a pavement management software that provides tools and capabilities for effective management of road infrastructure.

The StreetSaver® PMS helps agencies determine when, where, and what level of pavement M&R is required and approximately how much it will cost. The system provides a suite of pavement management software tools that assist agencies in:

- Developing and organizing their pavement inventory.
- Assessing the current condition of their pavements.
- Developing models to predict future pavement conditions.
- Reporting on past and future pavement performance.
- Developing network level M&R scenarios based on either budget or condition requirements and planning M&R projects.

Here's a brief description of the various modules available in StreetSaver® and the key features:

Executive Dashboard: StreetSaver® provides a dashboard consisting of summery of data and gives an overview of pavement conditions. It usually includes details such as centerline miles, sections, section PCI, and historical Network condition.

Pavement Inventory: StreetSaver® helps create and maintain a comprehensive inventory of roads. This includes details about each road segment, such as its location, type, and characteristics.

- A Network consists of all surface areas that provide accessways for ground traffic and is managed by a given entity (e.g., City).
- A Branch is any identifiable part of the network which has a distinct use, such as an individual street.
- A Section is a division of a Branch which has consistent structural composition, construction history, and traffic volume and is the smallest "managed" pavement area when applying Major M&R (e.g., street block)

Condition Assessment: The software allows for regular and systematic assessment of pavement conditions. This involves evaluating factors like cracks, potholes, and overall wear and tears to determine the current state of the road.

Performance Modeling: StreetSaver® employs pavement performance modeling to analyze how roads are likely to deteriorate over time. This helps in predicting future conditions based on current data.

Analysis Tools: The software is equipped with sophisticated analysis tools that aid in understanding the data gathered from pavement assessments. These tools assist in making informed decisions about maintenance and repair strategies.

Forecasting: StreetSaver® can forecast future pavement conditions, enabling agencies to plan ahead for necessary maintenance and repairs. This proactive approach helps optimize budget allocation and resources.

Historical pavement condition data is used to build pavement deterioration models that are used to predict future pavement conditions. If historical pavement data is not available, StreetSaver® provides default pavement deterioration curves, but the user is still allowed to develop custom deterioration curves based on local experience. The default deterioration curves were used for PCI prediction and M&R analysis in this project.

Budget Optimization: With information from the pavement assessment and performance modeling, StreetSaver® assists in optimizing budget allocation for pavement management. This ensures that resources are directed where they are needed most.

StreetSaver can analyze using a "Fixed budget" scenario or a "Target PCI Driven" scenario.

1. **Fixed Budget Scenario:**
    - In a fixed budget scenario, the organization allocates a predetermined amount of funds for road maintenance or pavement management.
    - The allocated budget remains constant, and the challenge is to efficiently allocate these fixed resources to address the most critical road maintenance needs.
    - StreetSaver® helps prioritize and optimize the use of the fixed budget by identifying areas that require immediate attention based on the condition of the roads and the available resources.
2. **Target Driven:**
    - In a target-driven approach, the organization sets specific goals or targets related to road conditions, pavement quality, or other relevant metrics.
    - StreetSaver® assesses the current state of the roads and creates a maintenance and repair plan and budget for achieving the set targets.
    - Targets could include achieving a certain pavement condition index, reducing the number of potholes, or improving the overall condition of the road network. Usually, the "target" is an increase PCI value.

Decision Tree: StreetSaver® provides a decision support system, helping agencies and organizations make logical, objective, and informed choices regarding pavement maintenance and rehabilitation activities. The decision tree provides an objective and defendable decision-making system for the city to show the public that the city is efficiently managing its streets.

Reporting: StreetSaver® provides reporting functions to allow agencies to generate detailed reports on pavement conditions, maintenance plans, and budgets.

- Summary Charts – Simple graphs and data tables of inventory and inspection data.
- Inspection Reports – Summary of collected pavement condition data.
- Work History – Summary of historical maintenance, repair, and rehabilitation data.
- Branch Listing – Summary of overall pavement inventory data.
- Branch Condition – Summary of overall pavement condition data.
- Section Condition – Summary of individual section data.
- GIS Toolbox – Internal/external reporting and mapping of inventory and condition data.

StreetSaver® is capable of generating "user-defined" reports, which can be tailored to meet the agency's specific reporting needs. StreetSaver® user-defined reports enable the user to extract any data stored in the system and export it to either a spreadsheet or a text file.

2. DATA COLLECTION AND ANALYSIS METHODOLOGY

As described before, the primary objective of this project was to perform a semi-automated pavement condition survey on City's roadway network and perform imagery-based PCI survey on the collected data using the ASTM D6433.

2.1 Pavement Condition Survey System

ARA deployed a State-of- the-Art Pavement Condition Survey System to collect high-quality pavement imagery, Right of Way (ROW) images, pavement profile measurements, and sub-meter accurate GPS data. The Survey System is equipped with the latest sensors and hardware required for accurate, high-quality pavement data collection, including 3D pavement imaging sensor, 360° Ladybug camera, three (3) Right of Way (ROW) cameras for panoramic images, Class-1 roadway surface profiler (including macrotexture) and integrated with sub-meter accuracy GPS/IMU system for roadway geometry.

The PathRunner system allows automated detection of pavement distresses including various types of cracks, raveling, edge drop-offs, potholes, macrotexture, and rutting. The system also automatically determines the presence of paint stripes which help in identifying the pavement lane. A picture of the Survey System equipped with the PathRunner system is shown in Figure 9. A closer look at the cameras and ROW images are shown in Figure 10 through Figure 13.

Data collection was performed during daytime and only during dry weather conditions. Data collection was performed while observing all traffic rules and at posted speed limits. One- and two-lane roads were surveyed in one direction while roads with three or more lanes were surveyed in two directions.

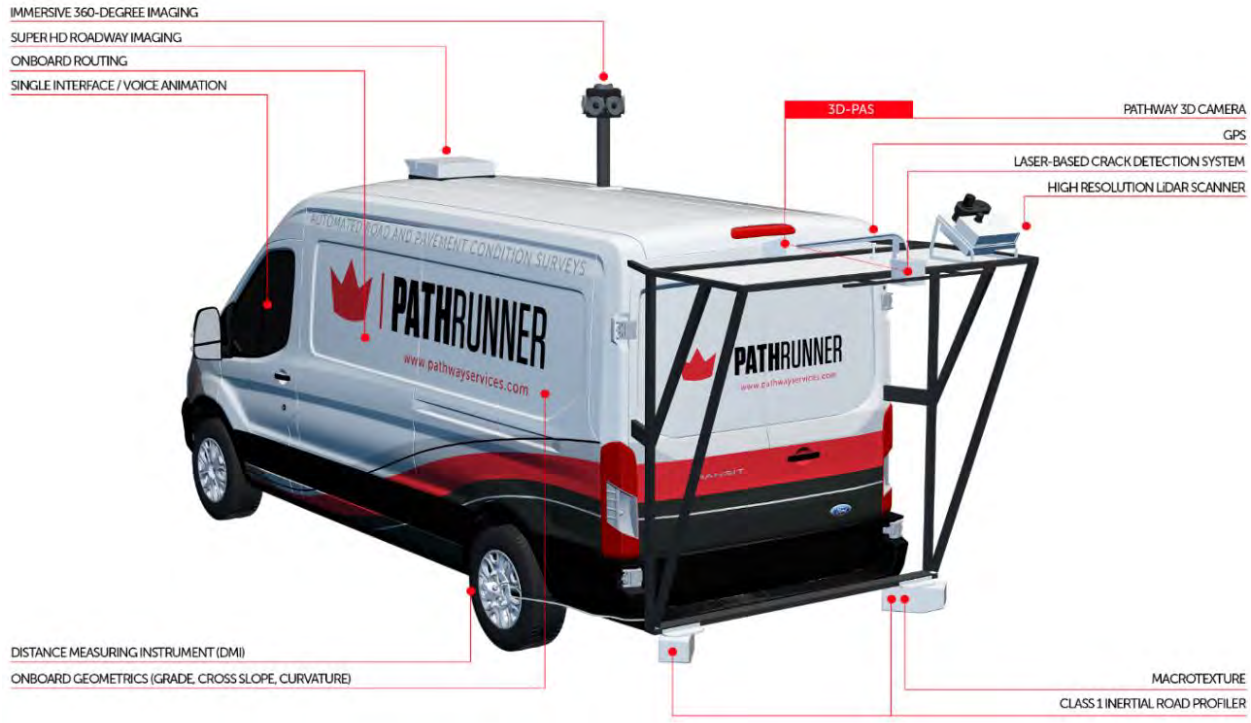


Figure 9. PathRunner Hardware Components.

Figure 10. Forward-Facing HD+ Cameras (on the left) and LadyBug Camera (on the right).

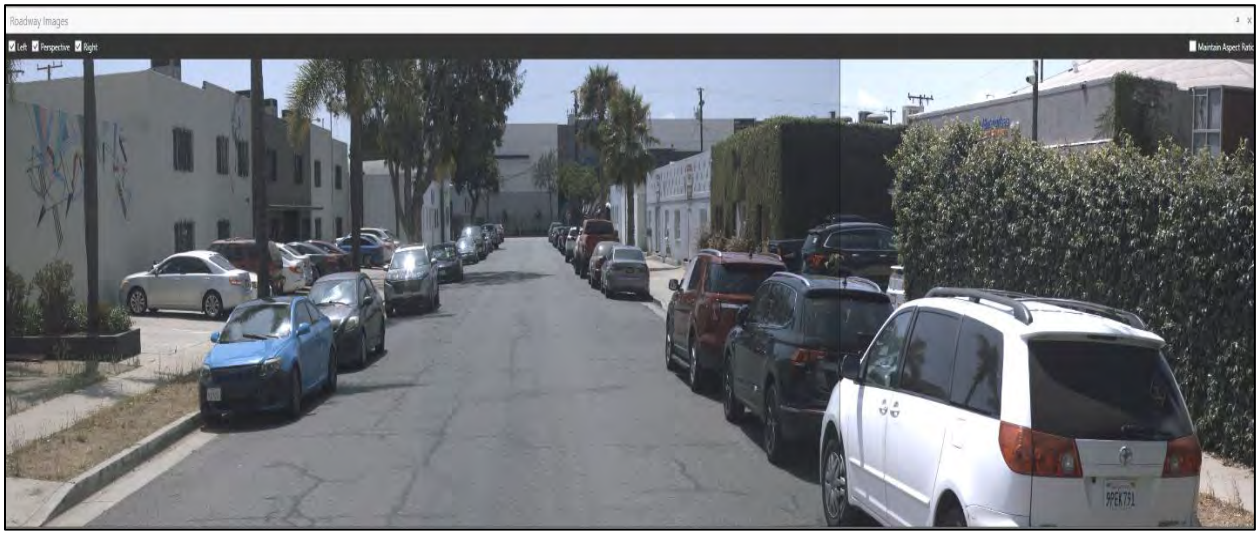


Figure 11. Sample ROW Image of StreetID 162ST10 - 162ST010.

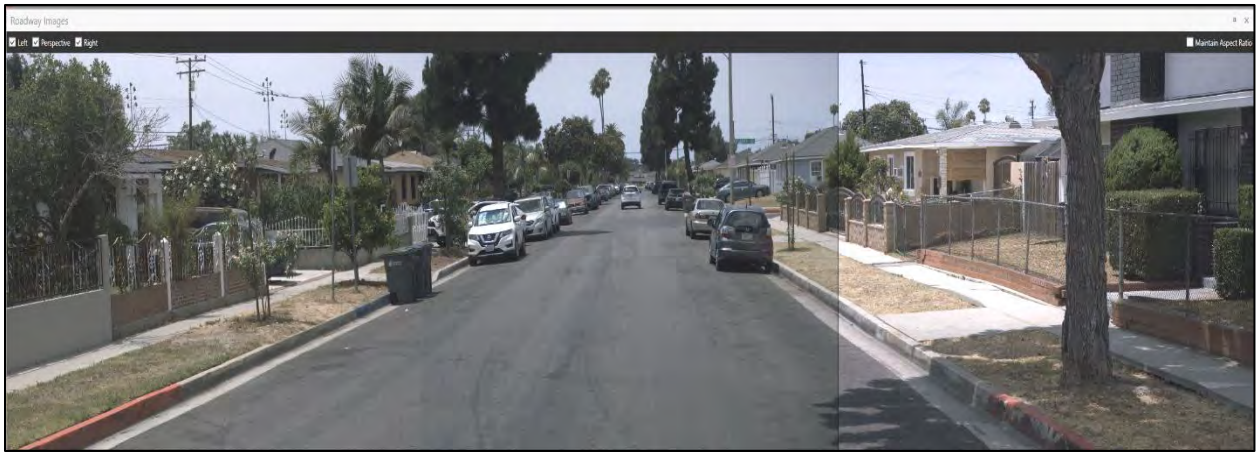


Figure 12. Sample ROW Image of StreetID 189ST20 - 189ST051.

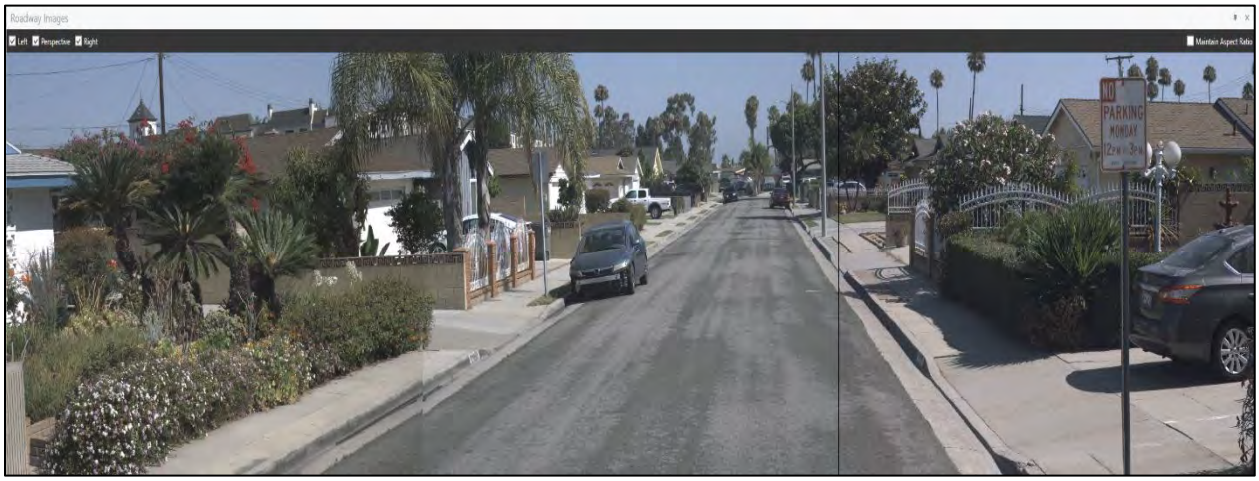


Figure 13. Sample ROW Image of StreetID NEWAV10 - NEWAV020.

2.2 Pavement Distress Data Interpretation

Data acquired with the 3D-PAS system allows the automated detection/identification of various types of distresses including all types of cracking, rutting, raveling, cracking, sealed cracks, lane markings, and macrotexture. ARA used a 2-step distress rating procedure for this project. In the first step, we utilized Pathway's AUTOCRACK software for identifying and locating the extents of distresses.

In the second step, our team of Metropolitan Transportation Commission (MTC) and Orange County Transportation Authority (OCTA) certified pavement inspectors checked the resulting distresses for false positives or negatives and made changes accordingly. The ASTM D6433 standard includes 20 distress types for asphalt and 19 distress types for concrete surface types of The distress data included distress types, severities, extents, and locations and was exported to calculate PCI. Figure 14 below shows the surface image of DEL Boulevard 30.

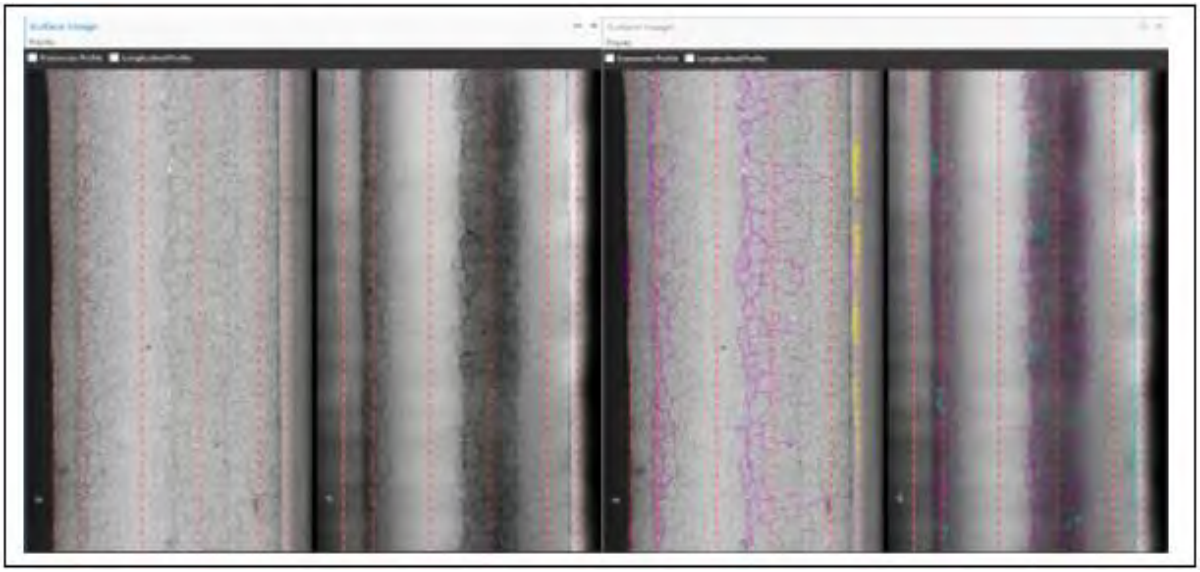


Figure 14. 3D Pavement Images (left) and Software Identified Cracks (in purple).

ASTM distresses can be grouped into three categories of cause: Climate Related, Load Related, and Other. The distress types for asphalt and concrete and their primary cause (load, climate, and other) are shown in Table 1 and Table 2.

Table 1. Asphalt Pavement Distress Types.

Distress Code	Distress Description	Cause
01	Alligator Cracking	Load
02	Bleeding	Other
03	Block Cracking	Climate/Durability
04	Bumps and Sags	Other
05	Corrugation	Other
06	Depression	Other
07	Edge Cracking	Load
08	Joint Reflection Cracking	Climate/Durability
09	Lane/Shoulder Drop-Off	Other
10	Longitudinal and Transverse Cracking	Climate/Durability
11	Patching and Utility Cut Patching	Other
13	Pothole	Load
14	Railroad Crossing	Other
15	Rutting	Load
16	Shoving	Other
17	Slippage Cracking	Other
18	Swell	Other
19	Raveling	Other
20	Weathering	Climate/Durability

Table 2. Concrete Pavement Distress Types.

Distress Code	Distress Description	Cause
21	Blowup/Buckling	Climate/Durability
22	Corner Break	Load
23	Divided Slab	Load
24	Durability ("D") Cracking	Climate/Durability
25	Faulting	Other
26	Joint Seal Damage	Climate/Durability
27	Lane/Shoulder Drop-Off	Other
28	Linear Cracking	Load
29	Patching, Large and Utility Cuts	Other
30	Patching, Small	Other
31	Polished Aggregate	Other
32	Popouts	Other
33	Pumping	Other
34	Punchout	Load
35	Railroad Crossing	Other
36	Scaling, Map Cracking, and Crazing	Other
37	Shrinkage Cracks	Climate/Durability
38	Spalling, Corner	Climate/Durability
39	Spalling, Joint	Climate/Durability

3. STREETSAVER® IMPLEMENTATION

ARA reviewed the City's GIS datasets showing all pavement sections inspected in 2025 and updated the required fields (e.g., PCI, IRI, Surface type, etc.) to define the City's StreetSaver® database.

At present, the City's network includes 1,792 pavement Sections totaling approximately 249.1 centerline miles of roads. Based on the scope of work, ARA performed semi-automated pavement condition surveys and distress analysis on all the City's paved roads.

Table 3. City's Pavement Inventory per Pavement Class

Pavement Classification	Centerline Miles	Number of Sections	Area (Sq. ft)	% Area
Other Principal Arterial (3) - OPA (Primary)	86.9	437	16,765,227	36.9%
Minor Arterial (4) - MiA (Primary)	7.3	34	1,809,380	4.0%
Major Collector (5) - C (Secondary)	17.9	122	3,742,292	8.2%
Others - Alleys	6.1	54	387,624	0.9%
Residential/Local - R (Tertiary)	130.9	1145	22,704,453	50.0%
Total	**249.1**	**1,792**	**45,408,976**	**100%**

Table 4. City's Pavement Inventory per Surface Type

Surface	Centerline Miles	Number of Sections	Length (ft)	Area (Sq. ft)	% Area
Asphalt	227	1,647	1,198,538	41,105,535	90.5%
AC/AC	20.5	133	108,407	4,034,721	8.9%
PCC	1.3	11	6,670	209,520	0.46%
AC/PCC	0.3	1	1,480	59,200	0.1%
Total	**249.1**	**1,792**	**1,315,095**	**45,408,976**	**100%**

3.1 Sections added to StreetSaver®

ARA also incorporated all missing roadway sections into StreetSaver® to ensure the network inventory is complete and up to date. In addition, the StreetSaver® shapefile was updated to reflect these newly added sections, maintaining consistency between the GIS data and the pavement management database. The list of sections added, along with their corresponding StreetID and SectionID, are provided in Appendix D for reference.

3.2 Historical PCI Comparison

The City's prior pavement condition surveys were conducted in 2016 and 2022, with the most recent inspection completed in 2025. Comparing results across these inspection years provides insight into long-term network performance, the effectiveness of past funding strategies, and how pavement conditions have responded to recent reinvestment efforts:

- Network-wide PCI comparison
- PCI change by functional class and surface type
- Implications for funding adequacy

3.2.1 Inspection Coverage and Comparable Network Definition

The pavement condition surveys conducted in 2016, 2022, and 2025 did not include the same number of pavement sections. As shown in Table 5, 1,650 sections were inspected in 2016, 1,639 sections in 2022, and 1,792 sections in 2025, with the increase in 2025 reflecting the addition of previously uninspected facilities, including alleys, to the City's StreetSaver® database.

To ensure meaningful comparisons across inspection years, multiple network definitions are presented in the PCI trend analysis. For 2025, three separate area-weighted PCI values are shown:

- The first (orange) value represents the PCI for only those sections that were part of the 2016 inspection, allowing a direct, apple-to-apple comparison of long-term condition changes for the same roadway inventory.
- The second (green) value represents the PCI for only those sections that were part of the 2022 inspection, providing a consistent comparison over the most recent inspection cycle.
- The third (blue) value represents the entire network inspected in 2025, including newly added sections such as alleys, and reflects the current overall condition of the City's complete pavement inventory.

Table 5. Number of Inspected Sample by Year.

Year	Sections Inspected
2016	1650
2022	1639
2025	1792

This approach isolates true condition changes from the effects of network expansion and ensures that observed PCI trends reflect actual pavement performance rather than differences in inspection coverage.

3.2.2 Network-Wide PCI Comparison

The area-weighted network PCI declined from 68 in 2016 to 58 in 2022, representing a 10-point reduction over six years. This decline reflects a prolonged period of underinvestment during which pavement deterioration outpaced preservation and rehabilitation activities.

By 2025, the network PCI increased to 65, recovering 7 PCI points from the 2022 low. This improvement indicates that recent funding levels and treatment strategies have been effective in stabilizing and partially restoring overall pavement conditions. Despite this recovery, the 2025 PCI remains 3 points below the 2016 level, indicating that while recent investments have reversed short-term decline, they have not fully offset the cumulative effects of deferred maintenance earlier in the analysis period. Continued and sustained funding will be required to maintain the network within the "Good" range and prevent renewed deterioration.

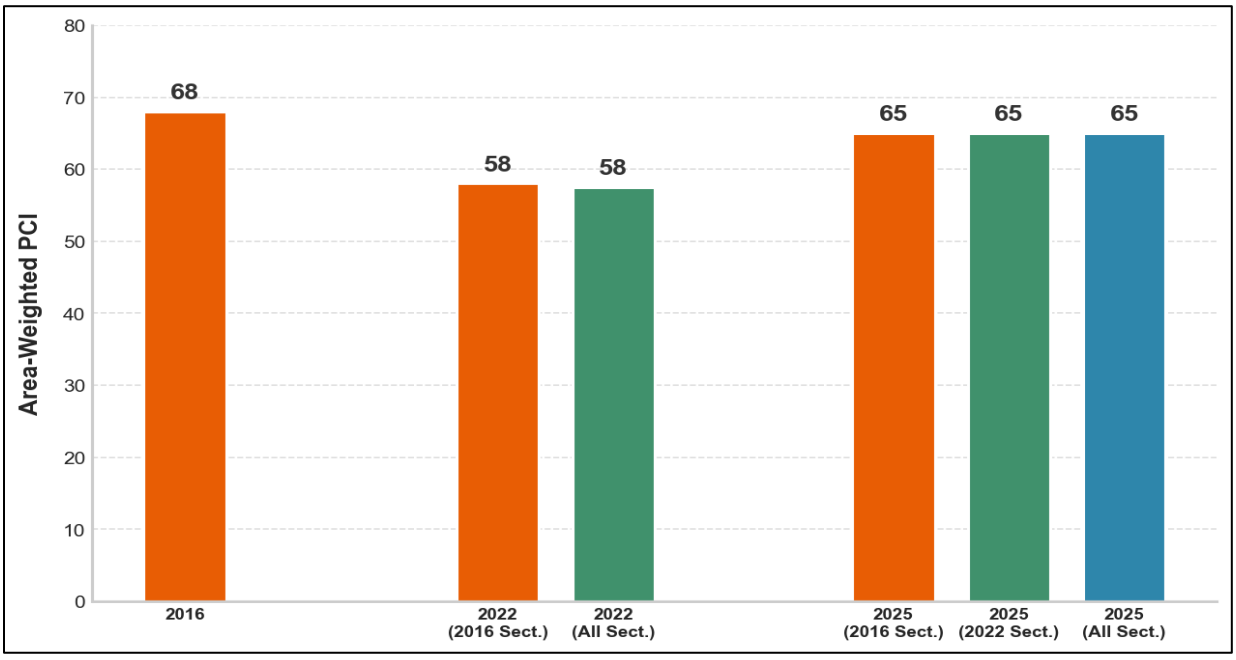


Figure 15. Network-Wide PCI Comparison.

While the recent recovery is encouraging, the 10-point decline between 2016 and 2022 underscores the consequences of deferred maintenance. During that period, pavements that were in fair condition continued to deteriorate without timely preservation treatments, pushing many sections into condition ranges that now require more costly rehabilitation or reconstruction. Sustained investment at or above

current levels will be essential to fully restore the network to its 2016 baseline and prevent a return to the downward trend observed in the prior cycle.

3.2.3 PCI Comparison by Functional Class

Pavement condition trends varied by functional classification, reflecting differences in traffic loading, treatment prioritization, and funding focus.

- Residential streets declined from 75 in 2016 to 63 in 2022, before rebounding to 74 in 2025, nearly restoring conditions to 2016 levels. Collectors decreased from 62 to 55 between 2016 and 2022, then improved to 65 in 2025, surpassing their 2016 condition. Minor arterials showed steady improvement, increasing from 48 in 2016 to 51 in 2022 and 55 in 2025. Arterials declined from 61 in 2016 to 51 in 2022, followed by a partial recovery to 54 in 2025.

- Other roadway segments, which consist of alleys added to the City's StreetSaver® database and included in the 2025 inspection, recorded a PCI of 24. These facilities were not evaluated in earlier inspection cycles and therefore are shown only for 2025. The low PCI reflects the typically minimal structural design, limited maintenance history, and advanced deterioration common to alley pavements. Due to their poor condition, many alley segments are likely candidates for rehabilitation or reconstruction rather than preservation treatments.

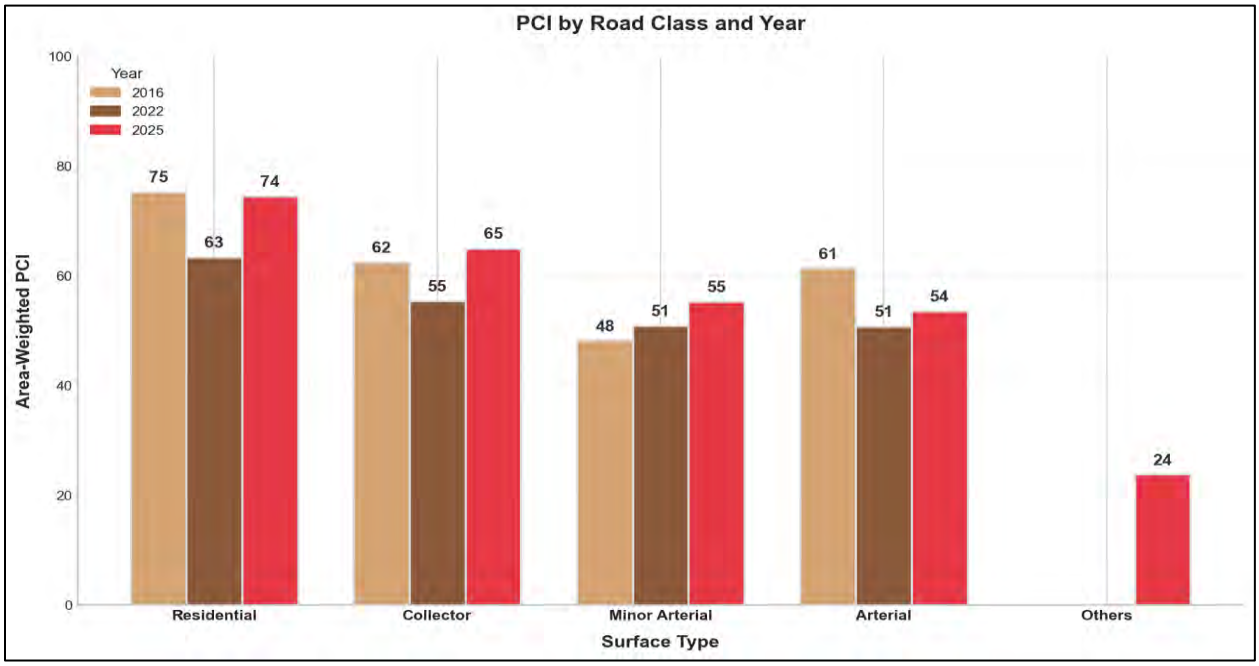


Figure 16. PCI Comparison by Functional Class.

These trends indicate that recent investments have been broadly effective across most functional classes, with the strongest recoveries observed on residential streets and collectors. However, arterials remain below their 2016 condition, suggesting that higher traffic volumes and structural demands continue to challenge long-term performance.

3.2.4 PCI Comparison by Surface Type

Surface type analysis further highlights differences in deterioration and recovery patterns across the network.

- AC pavements declined from 69 in 2016 to 58 in 2022, then improved to 62 in 2025, reflecting moderate recovery.
- AC/AC composite pavements remained essentially unchanged from 53 in 2016 to 54 in 2022, then increased substantially to 89 in 2025, indicating significant rehabilitation or resurfacing activity during the recent funding period.
- PCC pavements remained in relatively good condition throughout the analysis period, increasing from 71 in 2016 to 75 in 2022, before declining slightly to 68 in 2025.
- AC/PCC pavements showed a dramatic increase from 49 in 2016 to 93 in 2025, suggesting targeted reconstruction or major rehabilitation efforts on previously distressed sections. These sections were not included in the 2022 inspection cycle.

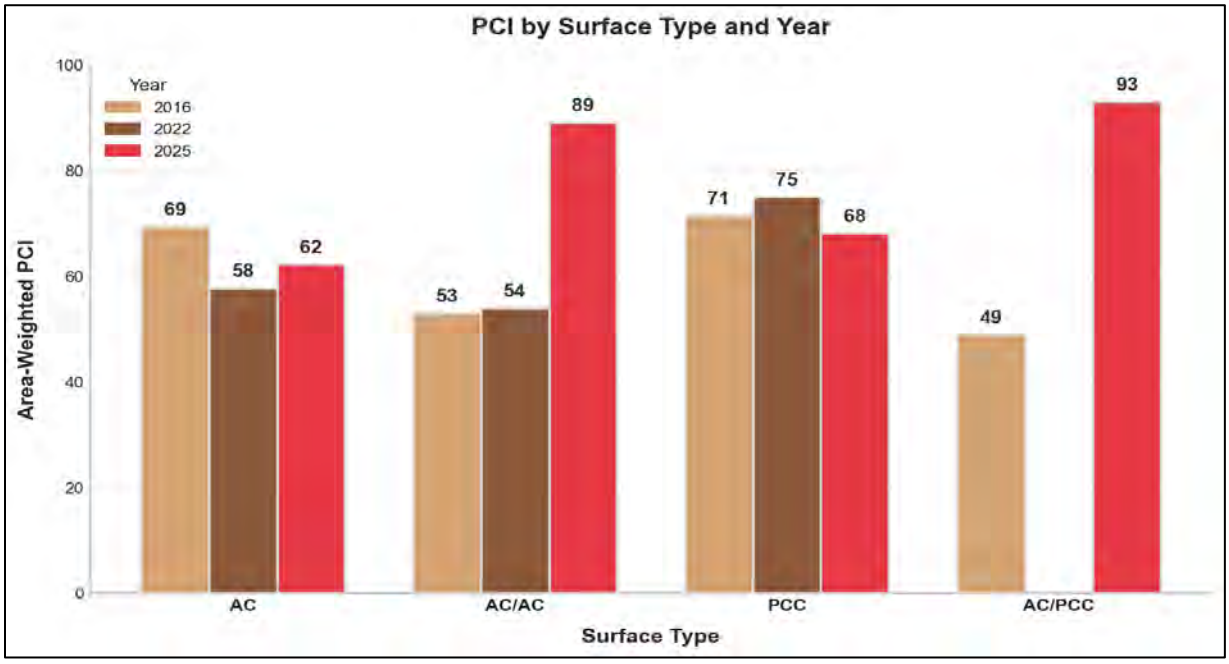


Figure 17. PCI Comparison by Surface Type.

The strong performance of composite pavements in 2025 indicates that recent investments have effectively addressed sections where prior overlays had reached the end of their service lives.

3.2.5 Implications for Funding Adequacy

The observed trends demonstrate that past funding levels prior to 2022 were insufficient to maintain network conditions, resulting in a sharp decline between 2016 and 2022. However, the substantial PCI recovery by 2025 confirms that increased and strategically applied funding can reverse deterioration trends when focused on timely rehabilitation and preservation.

The near restoration of residential and collector conditions suggests that recent funding allocations have successfully addressed deferred maintenance in these areas. In contrast, arterials have shown only partial recovery, indicating that sustained investment will be required to keep pace with higher traffic demands.

Moving forward, the City faces a strategic decision: maintain current funding levels to preserve recent gains or increase investment to fully restore the network to, and beyond, its 2016 condition. The budget scenarios presented in Section 6 evaluate these options and their long-term impact on network performance.

4. 2025 PAVEMENT CONDITION INDEX (PCI) RESULTS

Following a review of the collected and analyzed distress data, the City's StreetSaver® database was updated with the latest conditions including the detailed distresses, PCI and IRI values. Please note that the statistics and graphs shown on the following pages pertain to the pavement sections surveyed in 2025. At the time of ARA's July 2025 inspection, around 54 percent of the area of the City's roadway pavements were found to be in 'Very Good' condition. The overall area weighted average **PCI of the network is 65**. The condition distribution of all the pavement sections inspected in July 2025 is shown in Figure 18 below.

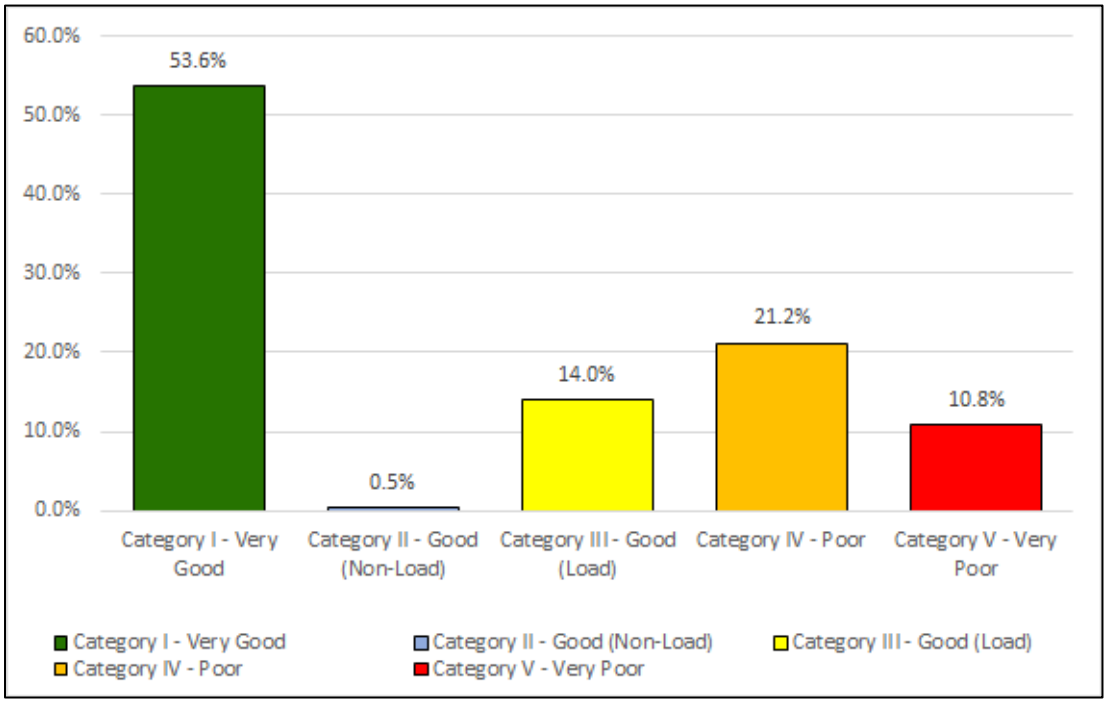


Figure 18. Overall Pavement Network Condition Distribution.

4.1 International Roughness Index (IRI)

The International Roughness Index (IRI) is a standardized metric used to evaluate the ride quality and surface smoothness of roadways. It reflects the level of pavement roughness experienced by vehicles, making it a valuable indicator of user comfort and safety.

As part of the pavement condition assessment, Applied Research Associates (ARA) has collected and included IRI data for all surveyed city streets. This data provides an additional layer of insight beyond surface distress and PCI values, helping the city monitor ride quality, prioritize maintenance on high-traffic corridors, and support long-term pavement management decisions.

Benefits of IRI Measurement:

- Helps identify surface irregularities affecting driver comfort and safety
- Supports maintenance planning by detecting early signs of surface deterioration
- Complements PCI by focusing on ride quality, especially important for arterial and collector roads

- Enables performance tracking over time and supports data-driven rehabilitation decisions.

The area weighted average PCI and condition distribution by pavement rank and pavement classification are provided in Table 6 and Table 7.

Table 6. Pavement Condition Distribution by Pavement Rank.

Pavement Classification	PCI (Area Weighted Average)	Percentage Area				
		Very Good (70–100)	Good (non-load) (50-70)	Good (Load) (50-70)	Poor (25-50)	Very Poor (0–25)
Principal Arterial - A (Primary)	54	32.0%	0.3%	17.9%	34.8%	14.9%
Minor Arterial - MiA (Primary)	56	46.1%	0.0%	10.4%	9.8%	33.7%
Major Collector - C (Secondary)	66	51.1%	0.8%	15.5%	23.0%	9.6%
Residential/Local - R (Tertiary)	75	71.3%	0.6%	11.3%	11.5%	5.3%
Others - Alleys	25	5.1%	0.0%	2.6%	34.7%	57.5%
Total	**65**	**53.6%**	**0.5%**	**14.0%**	**21.2%**	**10.8%**

Table 7. Pavement Condition Distribution by Surface Type.

Pavement Classification	PCI (Area Weighted Average)	Percentage Area				
		Very Good (70–100)	Good (Non-Load) (50-70)	Good (Load) (50-70)	Poor (25-50)	Very Poor (0–25)
Asphalt	63	50%	1%	15%	23%	12%
Other AC/AC	89	93%	0%	6%	1%	0%
PCC	69	53%	4%	30%	13%	0%
AC/PCC	94	100%	0%	0%	0%	0%
Total	**65**	53.6%	0.5%	14.0%	21.2%	10.8%

Figure 19 illustrates a variety of pavement conditions and the recommended M&R for each PCI condition.

Pictures	PCI	Recommended M&R Activity (Typical)
	95	Do Nothing
	96	Do Nothing
	82	Preventive Maintenance *Crack Seal, Surface Treatment*
	75	Preventive Maintenance *Crack Seal, localized patching, Surface Treatment*
	69	Preventive Maintenance *Crack Seal, Localized Patching and Surface Treatment*

Pictures	PCI	Recommended M&R Activity (Typical)
	68	Major M&R *Localized* *Slab replacement*
	55	Major M&R *Localized Structural Patching and Resurfacing or Reconstruction*
	42	Major M&R *Localized Structural Patching and Resurfacing or Reconstruction*
	30	Major M&R *Localized Structural Patching and Resurfacing or Reconstruction*
	16	Major M&R *Localized Structural Patching and Resurfacing or Reconstruction*

Figure 19. Typical Pavement Conditions Observed during PCI Inspection.

An analysis of the measured distress data was completed to determine the predominant causes of pavement distress. Table 8 shows the primary causes of pavement deterioration observed throughout the City's pavement network.

Table 8. Categorization of Observed Pavement Distresses.

Distress Category	Example Distresses	Percentage of Observed Distresses
Load Related	Asphalt pavement distresses such as rutting and alligator cracking. Concrete pavement distresses such as corner breaks and divided slabs.	48%
Climate/ Durability Related	Asphalt pavement distresses such as weathering, longitudinal and transverse cracking, and block cracking. Concrete pavement distresses such as joint and corner spalling and joint seal damage.	50%
Other	Pavement distresses such as bleeding, patching, raveling, and slippage cracking for asphalt pavements. Popouts and scaling for concrete pavements.	2%

The deterioration observed on the City's pavements appears to be caused by a combination of climate- and load-related distresses. Climate-related distresses – in particular, weathering, and longitudinal and transverse cracking were found across the City's pavement inventory. Load-related distresses, such as rutting, alligator cracking, and potholes, were also observed on the City's roadways.

5. PAVEMENT DETERIORATION MODELS

All pavements deteriorate with the passage of time and application of traffic loads. The rate of deterioration is based on a complex interaction of many factors including, amount of traffic, pavement structure, materials used in construction, subgrade conditions, localized factors, etc. Pavement sections will deteriorate at different rates. For pavement management purposes, pavement sections with similar characteristics and loading are grouped into 'families', and family deterioration models are developed. Pavement families are based on criteria such as pavement use, rank, surface type, traffic loading and other factors.

Pavement prediction models are used to predict future pavement conditions based on historical deterioration trends in StreetSaver®. Predicting future pavement conditions is an essential component of M&R planning. In StreetSaver® prediction models are developed using historical PCI inspection data and construction data from a specific location. When developing prediction models, it is important to know each pavement section's age. A pavement section's age is determined from the time it last received a Major M&R activity, such as structural overlay, reconstruction, etc. In general, the deterioration rate for asphalt pavements is considered high if the rate is greater than PCI 4 points/year since last construction or greater than PCI 5 points/year since last inspection. For concrete pavements, a deterioration rate of greater than PCI 2.5 points/year is considered high.

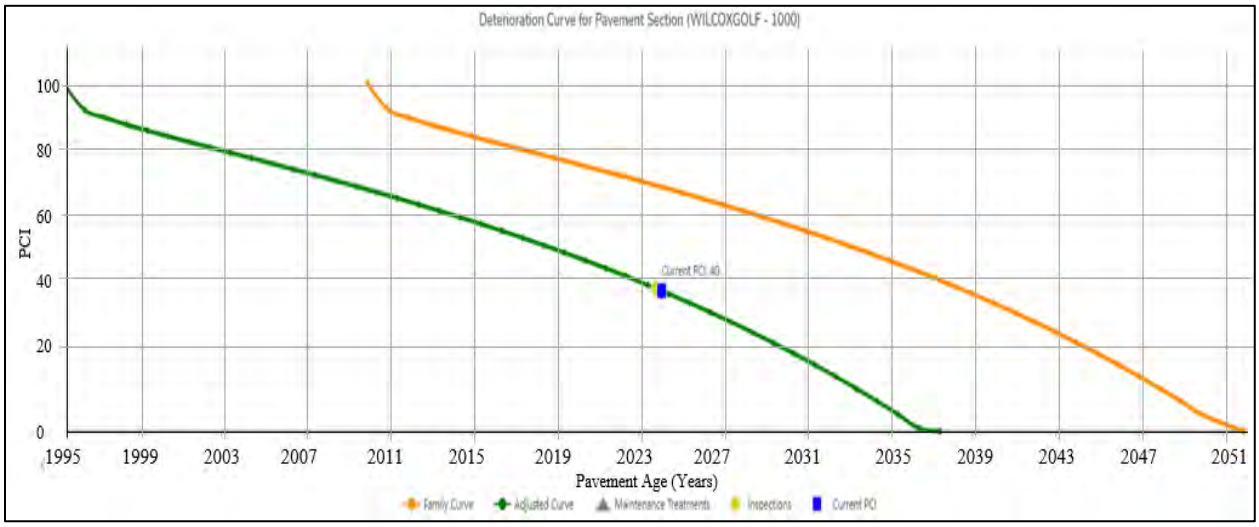


Figure 20. Typical Pavement Deterioration Curve.

5.1 Decision Tree and Unit Cost

The M&R unit cost data for each type of work are established in alignment with various condition types and PCI breakpoints, which are differentiated based on the pavement's functional class. This data is essential for projecting costs by surface type, facilitating multi-year M&R budget planning within StreetSaver®. As illustrated in Table 9, the decision tree details the calculated unit costs for each treatment, categorized by work type across four distinct functional class categories: Arterial, Collector, Residential, and Other.

Furthermore, StreetSaver® employs pavement deterioration curves to forecast future PCI values, a critical step in developing multi-year M&R plans. These forecasts necessitate correlating the costs of various M&R activities with specific PCI values.

Table 9. Decision Tree and Unit Costs by Work Type.

Functional Calss	Surface Type	Condition Category	Treatment Type	Treatment Requuired	Cost/Sq. Yd Exceot seal crack in LF	Years between Crack Seal	Year Between Crack Seals	# of surface SealsBefore Overlay
Arterial	AC	I - Very Good	Crack Treatment	SEAL CRACKS	$ 1.22	7		
			Surface Treatment	REAS	$ 7.54		7	
			Restoration Treatment	THIN ARHM OVERLAY	$ 32.82			3
		II - Good, Non-Load Related		THIN ARHM OVERLAY	$ 32.82			
		III - Good, Load Related		THIN ARHM OVERLAY W/LEVELING & B	$ 38.90			
		IV - Poor		THICK ARHM OVERLAY W/LEVELING &	$ 74.15			
		V - Very Poor		RECONSTRUCT SURFACE (AC)	$ 102.10			
	AC/AC	I - Very Good	Crack Treatment	SEAL CRACKS	$ 1.22	7		
			Surface Treatment	REAS	$ 7.54		7	
			Restoration Treatment	THIN ARHM OVERLAY	$ 32.82			3
		II - Good, Non-Load Related		THIN ARHM OVERLAY	$ 32.82			
		III - Good, Load Related		THIN ARHM OVERLAY W/LEVELING & B	$ 38.90			
		IV - Poor		THICK ARHM OVERLAY W/LEVELING &	$ 74.15			
		V - Very Poor		RECONSTRUCT SURFACE (AC)	$ 102.10			
	AC/PCC	I - Very Good	Crack Treatment	DO NOTHING	$ -	9		
			Surface Treatment	DO NOTHING	$ -		9	
			Restoration Treatment	DO NOTHING	$ -			99
		II - Good, Non-Load Related		DO NOTHING	$ -			
		III - Good, Load Related		DO NOTHING	$ -			
		IV - Poor		DO NOTHING	$ -			
		V - Very Poor		DO NOTHING	$ -			
	PCC	I - Very Good	Crack Treatment	DO NOTHING	$ -	9		
			Surface Treatment	DO NOTHING	$ -		15	
			Restoration Treatment	DO NOTHING	$ -			99
		II - Good, Non-Load Related		DO NOTHING	$ -			
		III - Good, Load Related		SLAB REPLACEMENT (25%)	$ 85.09			
		IV - Poor		SLAB REPLACEMENT (25%)	$ 85.09			
		V - Very Poor		SLAB REPLACEMENT (25%)	$ 85.09			
	ST	I - Very Good	Crack Treatment	DO NOTHING	$ -	9		
			Surface Treatment	DO NOTHING	$ -		15	
			Restoration Treatment	DO NOTHING	$ -			99
		II - Good, Non-Load Related		DO NOTHING	$ -			
		III - Good, Load Related		DO NOTHING	$ -			
		IV - Poor		DO NOTHING	$ -			
		V - Very Poor		DO NOTHING	$ -			

Functional Calss	Surface Type	Condition Category	Treatment Type	Treatment Requuired	Cost/Sq. Yd Exceot seal crack in LF	Years between Crack Seal	Year Between Crack Seals	# of surface SealsBefore Overlay
Collector	AC	I - Very Good	Crack Treatment	SEAL CRACKS	$ 1.22	7		
			Surface Treatment	REAS	$ 7.29		7	
			Restoration Treatment	THIN ARHM OVERLAY	$ 30.39			3
		II - Good, Non-Load Related		THIN ARHM OVERLAY	$ 30.39			
		III - Good, Load Related		THIN ARHM OVERLAY W/LEVELING & B	$ 35.25			
		IV - Poor		THICK ARHM OVERLAY W/LEVELING &	$ 54.70			
		V - Very Poor		RECONSTRUCT STRUCTURE (AC)	$ 85.09			
	AC/AC	I - Very Good	Crack Treatment	SEAL CRACKS	$ 1.22	7		
			Surface Treatment	REAS	$ 7.29		7	
			Restoration Treatment	THIN ARHM OVERLAY	$ 30.39			3
		II - Good, Non-Load Related		THIN ARHM OVERLAY	$ 30.39			
		III - Good, Load Related		THIN ARHM OVERLAY W/LEVELING & B	$ 35.25			
		IV - Poor		THICK ARHM OVERLAY W/LEVELING &	$ 54.70			
		V - Very Poor		RECONSTRUCT STRUCTURE (AC)	$ 85.09			
	AC/PCC	I - Very Good	Crack Treatment	DO NOTHING	$ -	9		
			Surface Treatment	DO NOTHING	$ -		9	
			Restoration Treatment	DO NOTHING	$ -			99
		II - Good, Non-Load Related		DO NOTHING	$ -			
		III - Good, Load Related		DO NOTHING	$ -			
		IV - Poor		DO NOTHING	$ -			
		V - Very Poor		DO NOTHING	$ -			
	PCC	I - Very Good	Crack Treatment	DO NOTHING	$ -	9		
			Surface Treatment	DO NOTHING	$ -		15	
			Restoration Treatment	DO NOTHING	$ -			99
		II - Good, Non-Load Related		DO NOTHING	$ -			
		III - Good, Load Related		SLAB REPLACEMENT (25%)	$ 85.09			
		IV - Poor		SLAB REPLACEMENT (25%)	$ 85.09			
		V - Very Poor		SLAB REPLACEMENT (25%)	$ 85.09			
	ST	I - Very Good	Crack Treatment	DO NOTHING	$ -	9		
			Surface Treatment	DO NOTHING	$ -		15	
			Restoration Treatment	DO NOTHING	$ -			99
		II - Good, Non-Load Related		DO NOTHING	$ -			
		III - Good, Load Related		DO NOTHING	$ -			
		IV - Poor		DO NOTHING	$ -			
		V - Very Poor		DO NOTHING	$ -			
Residential/Local	AC	I - Very Good	Crack Treatment	SEAL CRACKS	$ 1.22	7		
			Surface Treatment	REAS	$ 6.99		7	
			Restoration Treatment	THIN ARHM OVERLAY	$ 27.96			3
		II - Good, Non-Load Related		THIN ARHM OVERLAY	$ 27.96			
		III - Good, Load Related		THIN ARHM OVERLAY W/LEVELING & B	$ 31.60			
		IV - Poor		THICK ARHM OVERLAY W/LEVELING &	$ 46.19			
		V - Very Poor		RECONSTRUCT STRUCTURE (AC)	$ 67.58			
	AC/AC	I - Very Good	Crack Treatment	SEAL CRACKS	$ 1.22	7		
			Surface Treatment	REAS	$ 6.99		7	
			Restoration Treatment	THIN ARHM OVERLAY	$ 27.96			3
		II - Good, Non-Load Related		THIN ARHM OVERLAY	$ 27.96			
		III - Good, Load Related		THIN ARHM OVERLAY W/LEVELING & B	$ 31.60			
		IV - Poor		THICK ARHM OVERLAY W/LEVELING &	$ 46.19			
		V - Very Poor		RECONSTRUCT STRUCTURE (AC)	$ 67.58			
	AC/PCC	I - Very Good	Crack Treatment	DO NOTHING	$ -	9		
			Surface Treatment	DO NOTHING	$ -		9	
			Restoration Treatment	DO NOTHING	$ -			99
		II - Good, Non-Load Related		DO NOTHING	$ -			
		III - Good, Load Related		DO NOTHING	$ -			
		IV - Poor		DO NOTHING	$ -			
		V - Very Poor		DO NOTHING	$ -			
	PCC	I - Very Good	Crack Treatment	DO NOTHING	$ -	9		
			Surface Treatment	DO NOTHING	$ -		15	
			Restoration Treatment	DO NOTHING	$ -			99
		II - Good, Non-Load Related		DO NOTHING	$ -			
		III - Good, Load Related		SLAB REPLACEMENT (25%)	$ 85.09			
		IV - Poor		SLAB REPLACEMENT (75%)	$ 115.47			
		V - Very Poor		SLAB REPLACEMENT (100%)	$ 120.34			
	ST	I - Very Good	Crack Treatment	DO NOTHING	$ -	9		
			Surface Treatment	DO NOTHING	$ -		15	
			Restoration Treatment	DO NOTHING	$ -			99
		II - Good, Non-Load Related		DO NOTHING	$ -			
		III - Good, Load Related		DO NOTHING	$ -			
		IV - Poor		DO NOTHING	$ -			
		V - Very Poor		DO NOTHING	$ -			

Functional Calss	Surface Type	Condition Category	Treatment Type	Treatment Requuired	Cost/Sq. Yd Exceot seal crack in LF	Years between Crack Seal	Year Between Crack Seals	# of surface SealsBefore Overlay
	AC	I - Very Good	Crack Treatment	DO NOTHING	$ -	9		
			Surface Treatment	DO NOTHING	$ -		9	
			Restoration Treatment	DO NOTHING	$ -			99
		II - Good, Non-Load Related		DO NOTHING	$ -			
		III - Good, Load Related		DO NOTHING	$ -			
		IV - Poor		DO NOTHING	$ -			
		V - Very Poor		DO NOTHING	$ -			
	AC/AC	I - Very Good	Crack Treatment	DO NOTHING	$ -	9		
			Surface Treatment	DO NOTHING	$ -		9	
			Restoration Treatment	DO NOTHING	$ -			99
		II - Good, Non-Load Related		DO NOTHING	$ -			
		III - Good, Load Related		DO NOTHING	$ -			
		IV - Poor		DO NOTHING	$ -			
		V - Very Poor		DO NOTHING	$ -			
	AC/PCC	I - Very Good	Crack Treatment	DO NOTHING	$ -	9		
			Surface Treatment	DO NOTHING	$ -		9	
			Restoration Treatment	DO NOTHING	$ -			9
Other		II - Good, Non-Load Related		DO NOTHING	$ -			
		III - Good, Load Related		DO NOTHING	$ -			
		IV - Poor		DO NOTHING	$ -			
		V - Very Poor		DO NOTHING	$ -			
	PCC	I - Very Good	Crack Treatment	DO NOTHING	$ -	9		
			Surface Treatment	DO NOTHING	$ -		15	
			Restoration Treatment	DO NOTHING	$ -			99
		II - Good, Non-Load Related		DO NOTHING	$ -			
		III - Good, Load Related		DO NOTHING	$ -			
		IV - Poor		DO NOTHING	$ -			
		V - Very Poor		DO NOTHING	$ -			
	ST	I - Very Good	Crack Treatment	DO NOTHING	$ -	9		
			Surface Treatment	DO NOTHING	$ -		15	
			Restoration Treatment	DO NOTHING	$ -			99
		II - Good, Non-Load Related		DO NOTHING	$ -			
		III - Good, Load Related		DO NOTHING	$ -			
		IV - Poor		DO NOTHING	$ -			
		V - Very Poor		DO NOTHING	$ -			

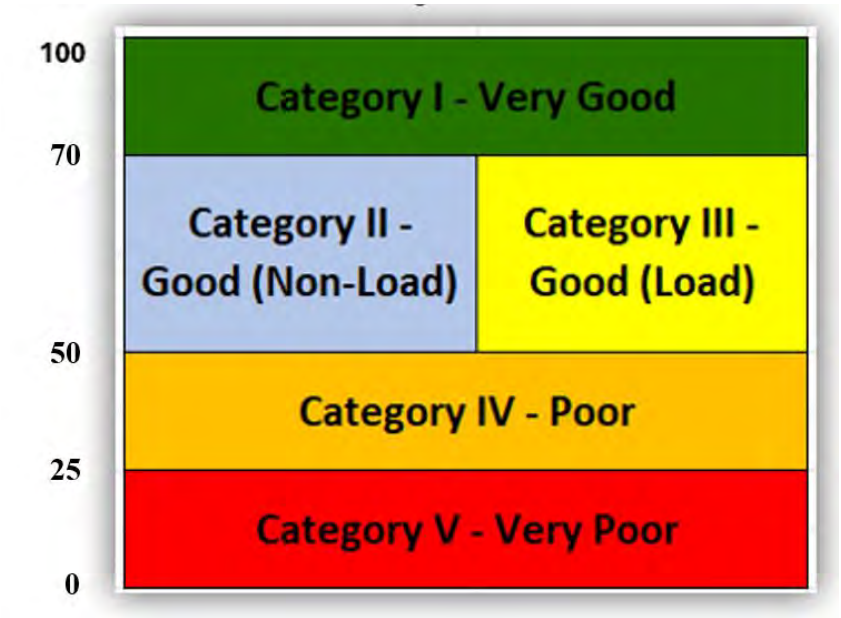


Figure 21. PCI Condition Category.

6. M&R BUDGET SCENARIO

6.1 Fixed Annual Budget Scenarios

Fixed budget scenarios were executed in StreetSaver®, assuming budgets of $3.5M per year and $10M per Year. The objective was to determine the impact of limited funding on the overall pavement network condition. The annual budget allocation is for city's Improvement Program including Thin/Thick ARHM overlay, Full-Depth Reclamation (FDR), and reconstruction.

The purpose of the fixed annual budget scenario in StreetSaver is to help cities and agencies evaluate the long-term impact of consistent funding levels on pavement maintenance and rehabilitation. By simulating how a predetermined budget allocation affects the PCI and overall network performance, this scenario provides insights into whether the current funding is sufficient to maintain or improve the network. It highlights potential funding gaps, prioritizes treatments for maximum efficiency, and demonstrates trade-offs between limited budgets and desired outcomes. Ultimately, this analysis supports informed decision-making, enabling agencies to plan strategically for sustainable infrastructure investments.

Scenario 1: Fixed Budget of $3.5M.

The table illustrates the impact of a fixed $3.5 million annual budget on the pavement network's PCI over a 10-year analysis period, with a total projected expenditure of $35 million, including both rehabilitation and preventive maintenance treatments. The untreated PCI begins at 65 in 2026 and gradually declines to 45 by 2035, representing the expected deterioration trend in the absence of maintenance interventions. In contrast, the treated PCI starts at 66 in 2026 and decreases to 51 by 2035, demonstrating that the applied budget slows the rate of decline and sustains higher pavement conditions compared to the untreated scenario.

Although the fixed funding level provides measurable benefits, particularly in the early years where treated PCI remains above 60, the overall condition still trends downward over time. By 2035, both treated and untreated networks fall into the "Fair" to "Poor" categories, underscoring that while the $3.5 million annual investment helps delay deterioration, it is insufficient to maintain or improve long-term pavement conditions. A more balanced funding approach with increase in preventive maintenance or higher annual allocations would be necessary to achieve sustainable pavement performance.

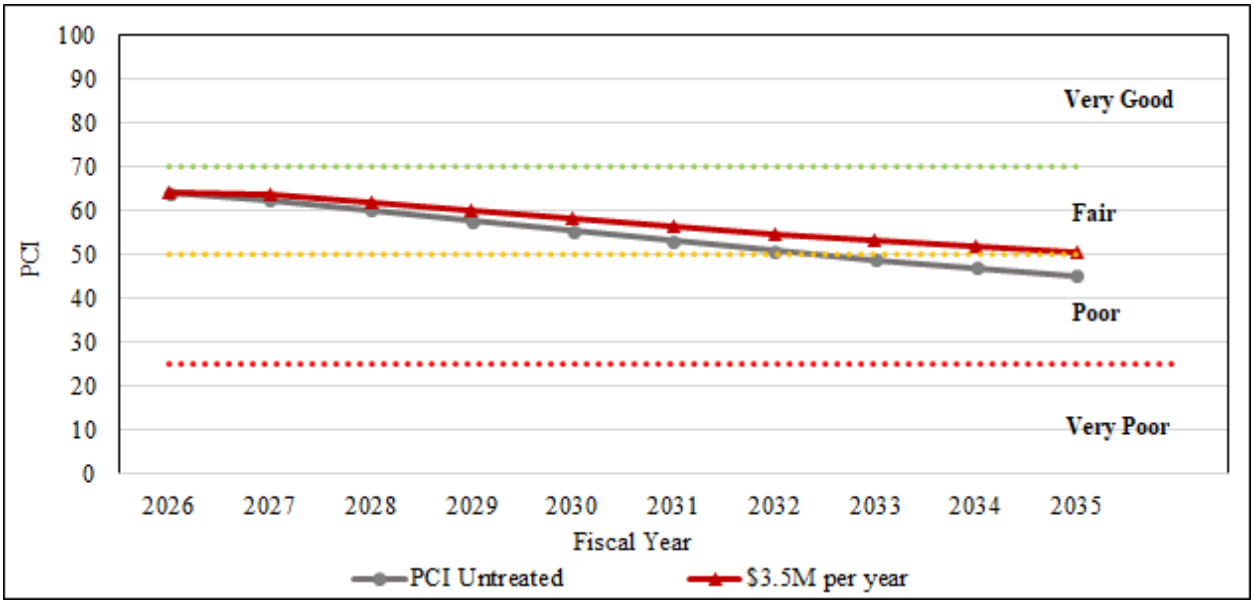


Figure 22. Impact of Treatment on Pavement Condition Index: Budget $3.5M per Year

Table 10.Breakdown of Yearly Maintenance and Rehabilitation Cost for $3.5M per year

Year	Rehabilitation Treatment Cost	Preventive Maintenance Cost	Total Cost	PCI Untreated	PCI Treated
2026	$3.3 M	$0.2 M	$3.5 M	65	66
2027	$3.3 M	$0.2 M	$3.5 M	63	64
2028	$3.3 M	$0.2 M	$3.5 M	60	62
2029	$3.3 M	$0.2 M	$3.5 M	58	60
2030	$3.3 M	$0.2 M	$3.5 M	55	58
2031	$3.3 M	$0.2 M	$3.5 M	53	56
2032	$3.3 M	$0.2 M	$3.5 M	51	55
2033	$3.3 M	$0.2 M	$3.5 M	49	53
2034	$3.3 M	$0.2 M	$3.5 M	47	52
2035	$3.3 M	$0.2 M	$3.5 M	45	51
Total for 10 Years	$33.2 M	$1.8 M	$35.0 M		

Scenario 2: Fixed Budget of $10M

The table illustrates the impact of a fixed $10 million annual budget on the pavement network's PCI over a 10-year analysis period, with a total projected expenditure of $99 million, consisting of $9.5 million allocated to rehabilitation treatments and $0.5 million to preventive maintenance each year. The untreated PCI begins at 65 in 2026 and declines steadily to 45 by 2035, representing the natural deterioration of the pavement network without maintenance intervention. In contrast, the treated PCI starts at 67 in 2026 and remains relatively stable around 63–65 throughout the analysis period, indicating a significant improvement in network preservation compared to the untreated case.

This funding scenario demonstrates that a $10 million annual investment is effective in maintaining the network in a “Good” condition over the long term. The treated PCI remains above 60 across the 10-year period, suggesting that the combination of adequate rehabilitation funding and consistent preventive maintenance successfully offsets deterioration. As a result, this level of investment supports a sustainable pavement management strategy that preserves the network condition and minimizes future backlog growth.

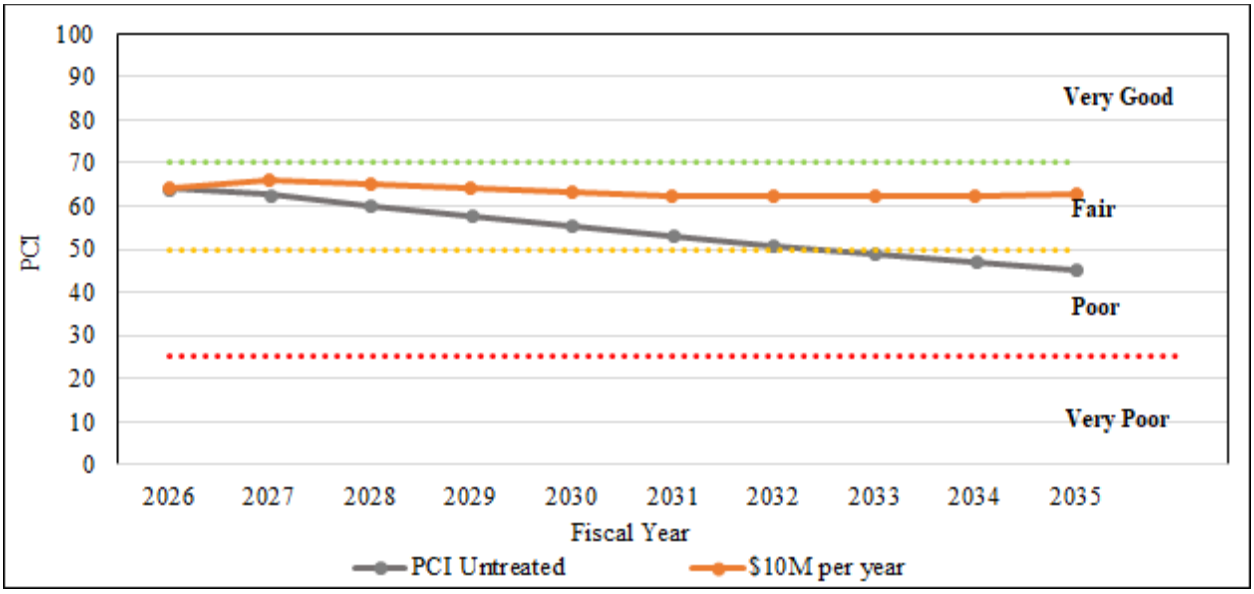


Figure 23. Impact of Treatment on Pavement Condition Index: Budget $10M per Year

Table 11.Breakdown of Yearly Maintenance and Rehabilitation Cost for $10M per year

Year	Rehabilitation Treatment Cost	Preventive Maintenance Cost	Total Cost	PCI Untreated	PCI Treated
2026	$9.5 M	$0.0 M	$9.5 M	65	67
2027	$9.5 M	$0.5 M	$10.0 M	63	66
2028	$9.5 M	$0.5 M	$10.0 M	60	65
2029	$9.5 M	$0.5 M	$10.0 M	58	64
2030	$9.5 M	$0.5 M	$10.0 M	55	63
2031	$9.5 M	$0.0 M	$9.5 M	53	62
2032	$9.5 M	$0.5 M	$10.0 M	51	62
2033	$9.5 M	$0.5 M	$10.0 M	49	62
2034	$9.5 M	$0.5 M	$10.0 M	47	62
2035	$9.5 M	$0.5 M	$10.0 M	45	63
Total for 10 Years	$94.9 M	$4.0 M	$99.0 M		

6.2 Target Driven Scenario

StreetSaver® was used to perform the following budget analyses on the City's roadway pavements from 2026 to 2035. A 3% inflation with 5% interest rate was considered in all budget scenarios. The following scenarios were considered:

1. Required annual budget to Improve Condition to a State of Good – PCI = 75.
2. Required annual budget to Maintain the PCI at 65.

Scenario 1: Improve Condition to a State of Good Repair – PCI = 75

To improve the pavement network condition and maintain it at a desirable level over a 10-year period, a total investment of approximately $174 million is required. This includes $133.4 million for rehabilitation treatments and $40.6 million for preventive maintenance. The table shows how funding is distributed annually to support both immediate rehabilitation needs and ongoing maintenance efforts.

In 2026, the program begins with a combined investment of $19.8 million, including $13.5 million in rehabilitation and $6.3 million in preventive maintenance. As the network stabilizes, funding requirements rise in the next several years, peaking between 2027 and 2028, where total annual costs reach $23.6 million and $22.9 million, driven by rehabilitation needs of $21.3 million and $20.8 million, respectively. From 2029 to 2032, annual expenditure gradually trends downward, reflecting a shift from heavy rehabilitation toward a more balanced mix of treatment types. Beginning in 2033, the strategy moves into a preservation phase, with significantly lower rehabilitation costs. Preventive maintenance plays a larger role, particularly in 2033 with $10.8 million, ensuring the network remains in good condition with minimal structural work required. Annual totals in 2034 and 2035 range between $10.1 million and $9.6 million. The untreated PCI begins at 65 in 2026 and follows the expected deterioration path, declining steadily to 45 by 2035 without any intervention. In contrast, the treated PCI improves from 69 in 2026 to 75 by 2032, and then remains consistently at 75 through 2035, demonstrating that the combined rehabilitation and preventive maintenance program effectively lifts the network into the "Very Good" condition range and sustains it over the full analysis period.

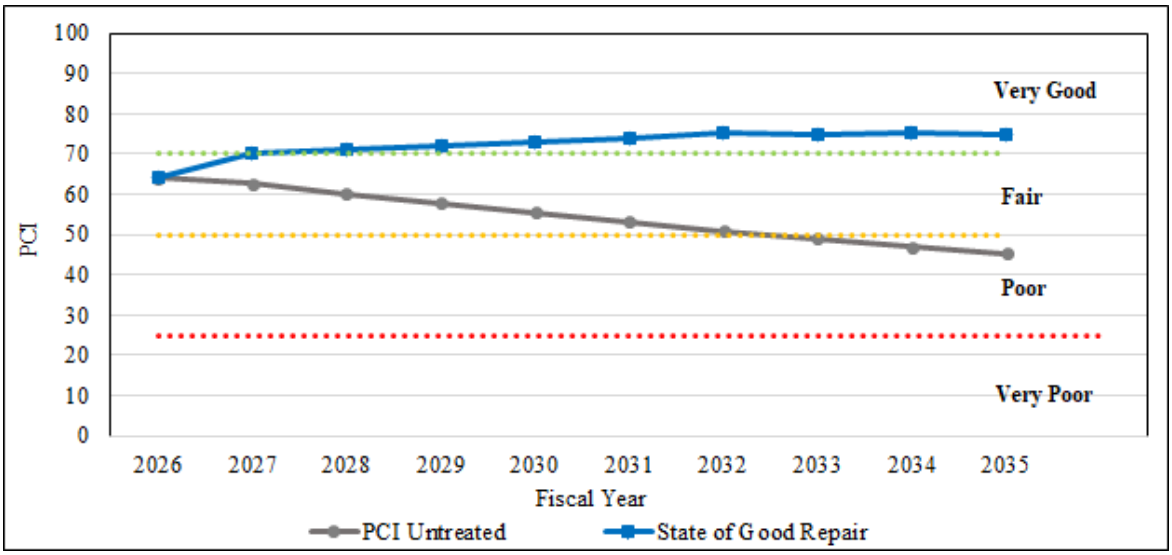


Figure 24. Impact of Treatment on Pavement Condition Index: Achieving a State of Good Repair

Table 12. Breakdown of Yearly Maintenance and Rehabilitation Cost to Achieve and Maintain a State of Good Repair

Year	Rehabilitation Treatment Cost	Preventive Maintenance Cost	Total Cost	PCI Untreated	PCI Treated
2026	$13.5 M	$6.3 M	$19.8 M	65	69
2027	$21.3 M	$2.3 M	$23.6 M	63	70
2028	$20.8 M	$2.1 M	$22.9 M	60	71
2029	$17.9 M	$2.0 M	$19.9 M	58	72
2030	$15.7 M	$2.8 M	$18.5 M	55	73
2031	$18.1 M	$1.2 M	$19.3 M	53	74
2032	$17.3 M	$2.2 M	$19.5 M	51	75
2033	$0.5 M	$10.3 M	$10.8 M	49	75
2034	$4.2 M	$5.9 M	$10.1 M	47	75
2035	$4.1 M	$5.5 M	$9.6 M	45	75
Total for 10 Years	**$133.4 M**	**$40.6 M**	**$174.0 M**		

Scenario 2: Maintain Current PCI of 65

To maintain the pavement network condition over a 10-year period, a total investment of approximately $114.5 million is required. The table provides a detailed breakdown of yearly rehabilitation treatment costs, with a combined allocation for both rehabilitation and preventive maintenance throughout the analysis period. No funding is allocated in 2026, reflecting a deferred maintenance approach during the initial years. By 2027, an investment of $13.4 million initiates rehabilitation and maintenance activities to address early signs of network deterioration.

Between 2028 and 2030, annual expenditures increase substantially, ranging from $13.4 million to $17.4 million, marking the peak years of combined treatment work aimed at improving overall network conditions. From 2031 onward, costs gradually decline as the major rehabilitation needs are met, with expenditures reducing from $12.2 million in 2031 to $9.8 million by 2035, supported by a shift toward lower-cost maintenance strategies in the later years. The untreated PCI begins at 65 in 2026 and steadily declines to 45 by 2035, representing the expected deterioration without maintenance. In contrast, the treated PCI remains consistently stable at 65 throughout the entire analysis period, indicating that the allocated funding is sufficient to sustain the network within the “Good” condition range. This funding scenario demonstrates that a strategically phased rehabilitation approach, supported by targeted preventive maintenance, can effectively maintain pavement performance when investments are concentrated during critical deterioration periods.

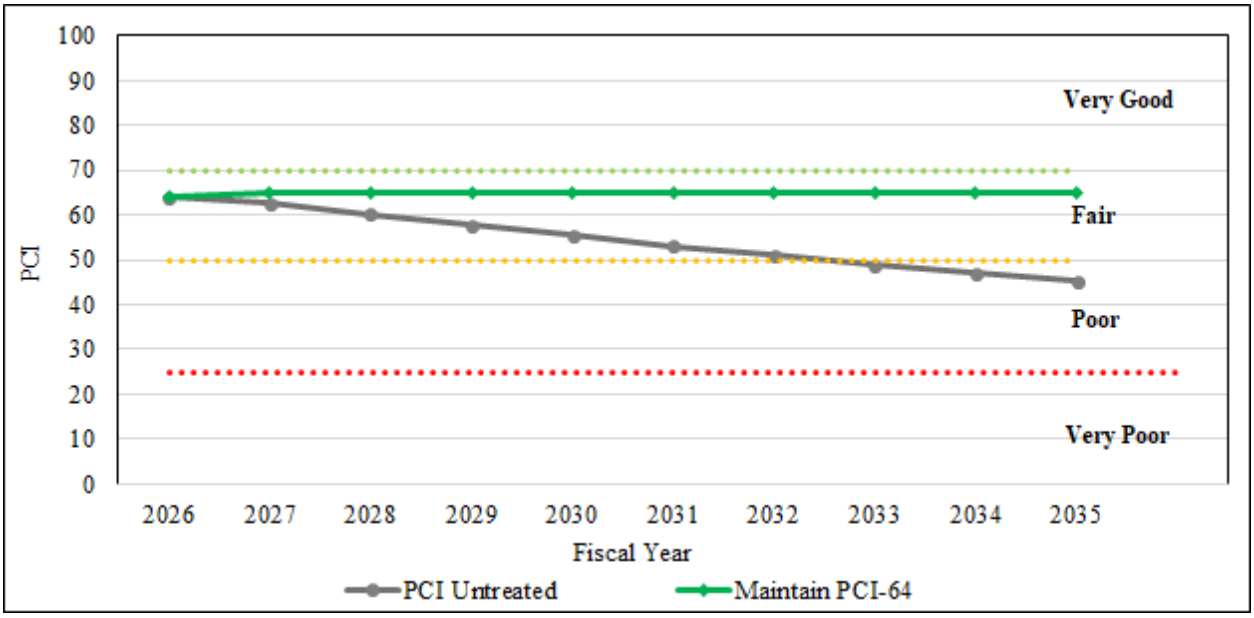


Figure 25. Impact of Treatment on Pavement Condition Index: Maintain Current PCI of 65

Table 13. Breakdown of Yearly Maintenance and Rehabilitation Cost to Maintain Current PCI of 65

Year	Rehabilitation Treatment Cost	Preventive Maintenance Cost	Total Cost	PCI Untreated	PCI Treated
2026	$0.0 M	$0.0 M	$0.0 M	65	65
2027	$6.0 M	$7.5 M	$13.4 M	63	65
2028	$10.6 M	$3.2 M	$13.8 M	60	65
2029	$14.6 M	$2.2 M	$16.8 M	58	65
2030	$14.6 M	$2.8 M	$17.4 M	55	65
2031	$11.0 M	$1.2 M	$12.2 M	53	65
2032	$8.7 M	$2.2 M	$10.9 M	51	65
2033	$10.0 M	$0.0 M	$10.0 M	49	65
2034	$0.4 M	$9.6 M	$10.1 M	47	65
2035	$3.8 M	$6.0 M	$9.8 M	45	65
Total for 10 Years	**$79.7 M**	**$34.8 M**	**$114.5 M**		

Scenario Comparisons:

Table 14 summarizes four funding scenarios, illustrating the relationship between investment levels and projected pavement conditions by 2035. Higher annual budgets yield improved PCI outcomes, with the "State of Good Repair" scenario achieving the best overall network performance.

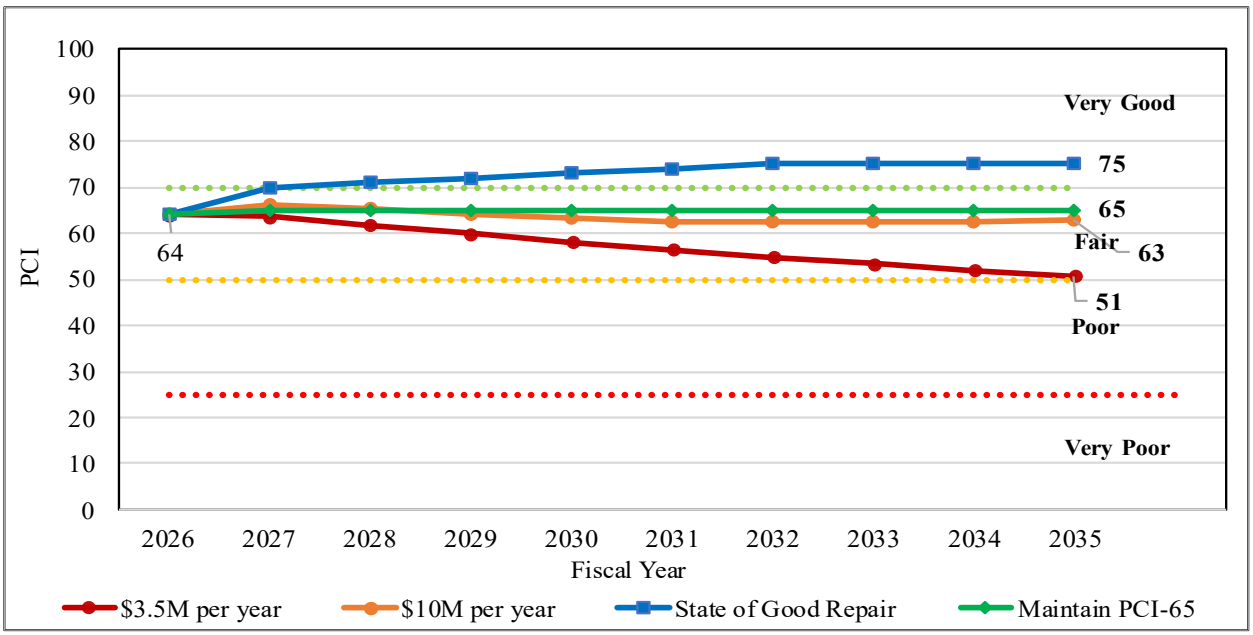


Figure 26. PCI Comparison by Scenarios.

Table 14. Comparison of annual M&R Cost.

Scenarios	Description	10-Year Budget	2035 PCI
1	$3.5M per Year	$35M	51
2	$10M per Year	$100M	63
3	State of Good Repair	$179.2M	75
4	Maintain PCI-65	$112.5M	65

7. SUMMARY AND RECOMMENDATIONS

7.1 Summary

The objectives of this Pavement Management Report are as follows:

- To present the results of the FY 2025 network-level pavement condition survey conducted for the City.
- To update and support the City's StreetSaver® pavement management program with current condition data and recommended practices.

A total of 1,792 pavement sections, covering approximately 249.07 centerline miles, were surveyed as part of this evaluation. The analysis was performed in accordance with the ASTM D6433, which categorizes pavement performance based on PCI thresholds and the roadway's structural loading characteristics. Based on the findings:

- Category I – Very Good (PCI 70-100): 53.6% of the network
- Category II – Good (PCI 50-70, Non-Load): 0.5% of the network
- Category III – Good (PCI 50-70, Load): 14.0% of the network
- Category IV – Poor (PCI 25-50): 21.2% of the network
- Category V – Very Poor (PCI 0–25): 10.8% of the network

The overall area-weighted PCI for the City is 65, placing the network in the **Good** range. This updated condition data provides a strong foundation for prioritizing pavement maintenance strategies, allocating funding, and extending the service life of the City's roadway infrastructure.

Note that ARA has included the International Roughness Index (IRI) for each section and branch. The IRI is a measurement of the "smoothness" of the pavement. The units in the IRI are inches/mile and the higher the value the "rougher" the pavement is. For most situations an IRI < 200 in/mile is considered smooth and >400 in/mile is considered rough. As you can see in the summary table in Appendix A, the IRI is not clearly correlated with the PCI, however, in general, the IRI does go up as the PCI goes down.

7.2 Recommendations

7.2.1 Perform Regular Pavement Condition Inspections

In an effort to capitalize on this PCI inspection and better track the condition of its pavements, it is strongly recommended that the City continue to perform PCI surveys on a three-year cycle. Doing so will enable the city to:

- Better track the deterioration of its pavements,
- Develop pavement deterioration trends to better predict future pavement conditions, and
- Assess the effectiveness of its pavement maintenance, preservation, and Major M&R activities.

The major inventory of pavements that are in fair condition today will continue to deteriorate and may require rehabilitation, such as resurfacing or reconstruction, a decade or so from now necessitating an increase in the annual M&R expenditure. It is necessary that this deterioration be proactively and systematically monitored to predict future pavement M&R funding needs more accurately.

7.2.2 Keep the Work History Data Update in StreetSaver® Database

As the city improves the roadway network, it is recommended that all the M&R done should be kept up to date in the database. Accurate work history combined with regular pavement inspections will result into better prediction of the pavement deterioration trends to better predict future pavement conditions.

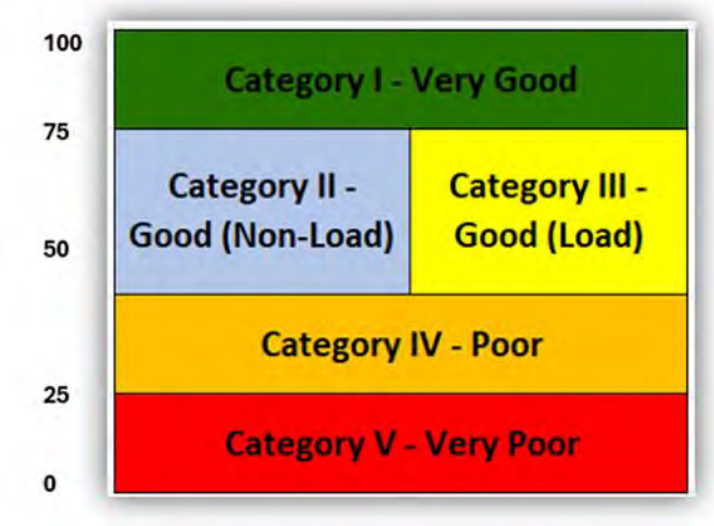
8. DISCLAIMER

All preceding analyses were based on the results obtained in the field, as well as other input and analysis assumptions as outlined herein. ARA has made every attempt to base their procedures on sound methodology. However, circumstances beyond the control of ARA could result in alterations to the above results which may be completely justifiable.

Please use the above data and information, therefore, as guidelines for this project analyzed and reported herein.

APPLIED RESEARCH ASSOCIATES, INC.
February 2026.

APPENDIX A Section Condition Report



	Street IRI	
Good - smooth	0	200
Fair	201	400
Poor - Rough	401	higher

Acronym	Full Name / Description
FC	Functional Classification
R	Residential Street
C	Collector
UMIA	Urban Minor Arterial
OPA	Other Principal Arterial
UPAO	Urban Principal Arterial

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
162ST10	162ST010	A - AC	R - Residential/Local	21,280	67	67	347	347
163ST10	163ST010	O - AC/AC	R - Residential/Local	15,120	95	90	375	364
	163ST021	A - AC	R - Residential/Local	16,050	86		353	
164ST10	164ST010	A - AC	R - Residential/Local	20,800	92	92	425	425
168ST10	168ST010	A - AC	R - Residential/Local	57,200	37	37	516	489
	168ST020	A - AC	R - Residential/Local	33,580	36		443	
169ST10	169ST010	A - AC	R - Residential/Local	26,085	82	91	235	306
	169ST020	O - AC/AC	R - Residential/Local	43,920	95		320	
	169ST030	O - AC/AC	R - Residential/Local	7,308	95		475	
181ST10	181ST010	A - AC	R - Residential/Local	32,940	73	73	274	274
182ST10	182ST011	A - AC	R - Residential/Local	28,260	91	92	395	292
	182ST041	A - AC	R - Residential/Local	28,080	93		189	
184ST10	184ST010	A - AC	R - Residential/Local	9,000	58	88	273	272
	184ST020	A - AC	R - Residential/Local	9,540	94		416	
	184ST031	A - AC	R - Residential/Local	27,720	92		169	
	184ST061	A - AC	R - Residential/Local	28,080	92		324	
185ST10	185ST010	A - AC	R - Residential/Local	5,520	79	73	388	275
	185ST020	A - AC	R - Residential/Local	33,615	72		257	
186ST10	186ST010	A - AC	R - Residential/Local	7,020	71	85	347	241
	186ST021	A - AC	R - Residential/Local	27,900	84		173	
	186ST051	A - AC	R - Residential/Local	27,540	89		184	
	186ST080	A - AC	R - Residential/Local	8,910	86		547	
189ST10	189ST011	A - AC	R - Residential/Local	7,920	87	87	409	409
189ST20	189ST010	A - AC	R - Residential/Local	12,870	87	85	253	275
	189ST021	A - AC	R - Residential/Local	27,360	87		267	
	189ST051	A - AC	R - Residential/Local	27,360	79		287	

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
	189ST081	A - AC	R - Residential/Local	19,260	88		283	
192ST10	192ST010	A - AC	C - Collector	163,370	42	40	716	620
	192ST020	A - AC	C - Collector	34,560	33		168	
208ST10	208ST010	A - AC	R - Residential/Local	24,780	24	24	688	688
209ST10	209ST011	A - AC	R - Residential/Local	18,300	31	31	287	287
211ST10	211ST011	A - AC	R - Residential/Local	13,600	86	78	366	408
	211ST030	A - AC	R - Residential/Local	5,940	59		504	
211ST20	211ST011	A - AC	R - Residential/Local	15,900	71	71	418	418
211ST30	211ST010	A - AC	R - Residential/Local	9,100	46	46	262	262
212ST10	212ST010	A - AC	R - Residential/Local	21,190	89	89	287	287
212ST20	212ST010	O - AC/AC	R - Residential/Local	16,320	95	84	423	465
	212ST020	A - AC	R - Residential/Local	5,830	53		583	
212ST30	212ST010	A - AC	R - Residential/Local	9,360	25	25	335	335
213ST10	213ST010	A - AC	R - Residential/Local	33,800	71	69	278	264
	213ST020	A - AC	C - Collector	34,380	75		324	
	213ST031	A - AC	C - Collector	30,970	69		196	
	213ST051	A - AC	C - Collector	20,140	68		247	
	213ST070	A - AC	C - Collector	28,260	73		133	
	213ST080	A - AC	C - Collector	19,260	76		225	
	213ST090	A - AC	C - Collector	29,340	66		262	
	213ST101	A - AC	C - Collector	20,330	70		340	
	213ST121	A - AC	C - Collector	26,410	63		258	
	213ST141	A - AC	C - Collector	39,520	60		266	
	213ST160	A - AC	C - Collector	11,780	87		515	
213ST20	213ST010	A - AC	R - Residential/Local	16,490	84	84	459	459
213ST30	213ST011	A - AC	C - Collector	23,760	90	90	261	211
	213ST041	A - AC	C - Collector	41,000	94		136	
	213ST071	A - AC	C - Collector	21,800	95		243	

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
	213ST091	A - AC	C - Collector	28,280	91		198	
	213ST121	A - AC	C - Collector	24,480	92		137	
	213ST140	A - AC	C - Collector	37,920	90		204	
	213ST150	A - AC	MiA - Minor Arterial (4)	59,700	85		272	
213TH90	213TH090	A - AC	R - Residential/Local	3,468	44	45	345	403
	213TH100	A - AC	R - Residential/Local	4,956	45		443	
214ST20	214ST010	A - AC	R - Residential/Local	9,570	81	81	428	428
214ST30	214ST010	A - AC	R - Residential/Local	17,700	80	80	439	439
214ST40	214ST010	A - AC	R - Residential/Local	13,440	81	81	366	366
214ST50	214ST010	O - AC/AC	C - Collector	9,720	94	92	433	328
	214ST021	A - AC	C - Collector	28,450	85		227	
	214ST041	A - AC	C - Collector	15,750	93		266	
	214ST061	A - AC	C - Collector	34,600	95		348	
	214ST080	A - AC	C - Collector	22,100	94		427	
214ST60	214ST010	A - AC	R - Residential/Local	11,310	70	70	289	289
214ST70	214ST010	A - AC	R - Residential/Local	32,100	91	91	378	378
214ST80	214ST010	A - AC	R - Residential/Local	6,160	86	86	398	398
215PL10	215PL010	A - AC	R - Residential/Local	25,920	77	73	371	332
	215PL021	A - AC	R - Residential/Local	19,080	83		572	
	215PL040	A - AC	R - Residential/Local	34,350	60		205	
	215PL050	A - AC	R - Residential/Local	9,264	87		196	
215PL20	215PL011	A - AC	R - Residential/Local	20,600	43	43	274	274
215PL30	215PL010	A - AC	R - Residential/Local	9,130	77	77	382	382
215PL40	215PL010	A - AC	R - Residential/Local	8,000	79	79	178	178
215ST10	215ST010	A - AC	R - Residential/Local	11,400	87	65	226	384
	215ST060	A - AC	R - Residential/Local	4,428	83		444	
	215ST070	A - AC	R - Residential/Local	7,296	20		594	
215ST20	215ST010	O - AC/AC	R - Residential/Local	16,000	95	95	436	547

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
	215ST020	O - AC/AC	R - Residential/Local	25,280	95		617	
215ST30	215ST010	A - AC	R - Residential/Local	29,340	89	89	365	365
215ST40	215ST011	O - AC/AC	R - Residential/Local	26,400	95	95	398	398
216ST10	216ST01	A - AC	R - Residential/Local	19,800	83	80	452	418
	216ST030	A - AC	R - Residential/Local	8,928	79		215	
	216ST040	A - AC	R - Residential/Local	10,120	83		414	
	216ST060	A - AC	R - Residential/Local	2,772	44		849	
216ST30	216ST010	O - AC/AC	R - Residential/Local	29,340	95	95	358	358
218PL10	218PL010	A - AC	R - Residential/Local	6,112	59	89	656	763
	218PL020	O - AC/AC	R - Residential/Local	27,950	95		787	
218PL20	218PL010	A - AC	R - Residential/Local	27,300	91	91	594	574
	218PL020	A - AC	R - Residential/Local	7,200	89		499	
218PL30W	218PL010	A - AC	R - Residential/Local	28,800	47	47	510	510
218PL40E	218PL010	A - AC	R - Residential/Local	3,200	95	76	287	402
	218PL100	A - AC	R - Residential/Local	7,416	68		451	
218ST10	218ST010	A - AC	R - Residential/Local	7,040	45	71	346	212
	218ST020	A - AC	R - Residential/Local	12,800	86		139	
218ST20	218ST011	O - AC/AC	R - Residential/Local	35,820	95	95	132	132
218ST30	218ST010	A - AC	R - Residential/Local	14,950	93	93	537	537
218ST40	218ST011	A - AC	R - Residential/Local	18,190	89	52	181	292
	218ST030	A - AC	R - Residential/Local	23,400	24		379	
218ST50	218ST011	A - AC	R - Residential/Local	13,760	89	89	409	409
218ST60	218ST010	A - AC	R - Residential/Local	4,680	42	42	669	669
218ST70	218ST010	A - AC	R - Residential/Local	15,000	91	91	438	438
218ST80	218ST010	A - AC	R - Residential/Local	32,096	43	43	426	426
219PL10	219PL010	A - AC	R - Residential/Local	27,300	75	75	653	653
219PL20	219PL010	A - AC	R - Residential/Local	30,940	89	89	534	534
219ST10	219ST010	A - AC	R - Residential/Local	28,990	85	85	551	551

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
219ST20	219ST010	A - AC	R - Residential/Local	28,990	86	86	529	529
219ST30	219ST010	A - AC	R - Residential/Local	5,100	31	31	441	441
219ST40	219ST020	O - AC/AC	R - Residential/Local	21,384	95	95	376	376
219ST50	219ST011	A - AC	R - Residential/Local	9,455	75	79	390	265
	219ST031	A - AC	R - Residential/Local	17,720	81		198	
219ST60	219ST010	A - AC	R - Residential/Local	14,760	91	81	683	425
	219ST021	A - AC	R - Residential/Local	23,400	78		395	
	219ST041	A - AC	R - Residential/Local	23,940	79		419	
	219ST061	A - AC	R - Residential/Local	46,440	80		362	
219ST70	219ST010	A - AC	R - Residential/Local	7,650	72	70	271	298
	219ST020	A - AC	R - Residential/Local	5,070	66		339	
219ST80	219ST080	A - AC	R - Residential/Local	5,880	49	49	489	489
220PL10	220PL010	O - AC/AC	R - Residential/Local	24,360	95	95	629	629
220PL20	220PL010	A - AC	R - Residential/Local	24,975	79	79	264	264
220ST10	220ST010	A - AC	C - Collector	119,100	23	26	605	557
	220ST020	A - AC	C - Collector	63,480	18		600	
	220ST031	A - AC	C - Collector	28,400	42		371	
	220ST060	A - AC	C - Collector	18,000	44		316	
	220ST071	A - AC	C - Collector	27,990	26		585	
	220ST100	A - AC	C - Collector	5,940	30		624	
220ST20	220ST010	O - AC/AC	R - Residential/Local	31,185	95	77	574	602
	220ST020	A - AC	R - Residential/Local	8,640	88		403	
	220ST030	A - AC	R - Residential/Local	46,260	63		658	
220ST30	220ST010	P - PCC	C - Collector	46,260	52	68	110	257
	220ST020	P - PCC	C - Collector	17,120	52		110	
	220ST030	P - PCC	C - Collector	26,660	50		110	
	220ST040	A - AC	C - Collector	21,240	89		427	
	220ST050	A - AC	C - Collector	28,260	94		234	

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
	220ST061	A - AC	C - Collector	38,160	90		257	
	220ST080	A - AC	C - Collector	9,860	77		271	
	220ST101	A - AC	C - Collector	17,100	26		466	
	220ST110	A - AC	R - Residential/Local	7,848	34		254	
	220ST120	A - AC	C - Collector	28,620	42		282	
	220ST130	A - AC	C - Collector	34,170	87		464	
	220ST140	A - AC	C - Collector	11,390	63		266	
	220ST150	O - AC/AC	C - Collector	9,600	94		274	
	220ST160	O - AC/AC	C - Collector	27,580	94		160	
	220ST210	A - AC	R - Residential/Local	7,848	25		404	
220ST40	220ST010	A - AC	C - Collector	3,036	92	92	190	179
	220ST020	A - AC	C - Collector	2,988	92		168	
221PL10	221PL010	O - AC/AC	R - Residential/Local	19,370	95	92	315	402
	221PL031	A - AC	R - Residential/Local	18,880	89		491	
221ST10	221ST010	A - AC	R - Residential/Local	20,670	94	66	315	441
	221ST021	A - AC	R - Residential/Local	16,350	32		536	
	221ST030	A - AC	R - Residential/Local	3,240	60		385	
	221ST060	A - AC	R - Residential/Local	3,360	73		520	
	221ST070	A - AC	R - Residential/Local	468	57		288	
	221ST080	A - AC	R - Residential/Local	6,240	61		605	
221ST20	221ST010	A - AC	R - Residential/Local	5,850	82	86	403	380
	221ST020	A - AC	R - Residential/Local	9,840	89		367	
221ST30	221ST01	A - AC	R - Residential/Local	19,440	93	81	162	214
	221ST031	A - AC	R - Residential/Local	27,180	72		252	
222ST10	222ST010	A - AC	R - Residential/Local	19,950	57	49	215	187
	222ST020	A - AC	R - Residential/Local	16,510	39		154	
222ST20	222ST011	A - AC	R - Residential/Local	15,900	91	61	241	278
	222ST030	A - AC	R - Residential/Local	15,200	29		317	

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
222ST30	222ST011	A - AC	R - Residential/Local	15,450	86	86	236	236
222ST40	222ST010	A - AC	R - Residential/Local	12,960	94	94	213	213
222ST50	222ST011	A - AC	R - Residential/Local	16,160	48	48	433	433
222ST60	222ST010	A - AC	R - Residential/Local	12,600	93	93	399	399
222ST70	222ST011	A - AC	R - Residential/Local	17,460	89	89	275	275
222ST80	222ST011	A - AC	R - Residential/Local	16,960	91	93	330	292
	222ST031	A - AC	R - Residential/Local	34,400	94		274	
223ST10	223ST030	A - AC	A - Arterial	1,980	28	80	183	132
	223ST040	A - AC	A - Arterial	6,564	28		275	
	223ST210	A - AC	A - Arterial	33,492	88		109	
	223ST220	A - AC	A - Arterial	17,232	90		162	
223ST10E	223ST010	P - PCC	A - Arterial	7,130	90	47	110	173
	223ST020	A - AC	A - Arterial	54,400	60		252	
	223ST030	A - AC	A - Arterial	69,880	77		129	
	223ST040	A - AC	A - Arterial	41,340	49		299	
	223ST050	A - AC	A - Arterial	10,140	36		115	
	223ST061	A - AC	A - Arterial	70,780	52		140	
	223ST081	A - AC	A - Arterial	20,360	70		163	
	223ST100	A - AC	A - Arterial	46,080	33		292	
	223ST110	A - AC	A - Arterial	27,200	35		136	
	223ST120	A - AC	A - Arterial	25,800	24		103	
	223ST130	A - AC	A - Arterial	47,520	25		145	
	223ST140	A - AC	A - Arterial	88,380	34		127	
223ST20W	223ST010	A - AC	A - Arterial	90,540	22	41	228	203
	223ST020	A - AC	A - Arterial	48,060	25		193	
	223ST030	A - AC	A - Arterial	25,600	17		167	
	223ST040	A - AC	A - Arterial	27,400	22		172	
	223ST050	A - AC	A - Arterial	46,260	40		144	

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
	223ST065	A - AC	A - Arterial	21,525	49		293	
	223ST080	A - AC	A - Arterial	30,400	54		191	
	223ST090	A - AC	A - Arterial	40,950	48		114	
	223ST101	A - AC	A - Arterial	54,795	55		276	
	223ST120	A - AC	A - Arterial	66,800	54		247	
	223ST130	A - AC	A - Arterial	54,400	53		180	
	223ST140	P - PCC	A - Arterial	7,130	91		110	
224PL10	224PL010	A - AC	R - Residential/Local	15,540	90	90	412	412
224PL20	224PL010	A - AC	R - Residential/Local	28,184	50	50	231	231
224PL30	224PL010	A - AC	R - Residential/Local	5,040	86	86	431	431
224ST10	224ST010	A - AC	R - Residential/Local	15,210	94	94	291	314
	224ST020	A - AC	R - Residential/Local	23,760	94		328	
224ST20	224ST011	A - AC	R - Residential/Local	27,180	84	89	185	259
	224ST041	A - AC	R - Residential/Local	17,460	93		209	
	224ST061	A - AC	R - Residential/Local	18,000	92		419	
224ST30	224ST010	A - AC	R - Residential/Local	5,040	66	66	506	506
225ST10	225ST010	O - AC/AC	R - Residential/Local	28,990	95	95	451	451
225ST20	225ST010	A - AC	R - Residential/Local	5,040	86	86	393	393
226PL10	226PL010	A - AC	R - Residential/Local	5,040	92	92	449	449
226PL20	226PL010	A - AC	R - Residential/Local	28,210	94	94	432	395
	226PL020	O - AC/AC	R - Residential/Local	6,840	95		240	
226ST10	226ST010	O - AC/AC	R - Residential/Local	27,950	95	95	258	258
226ST20	226PL010	A - AC	R - Residential/Local	7,840	53	53	470	470
226ST30	226ST010	A - AC	R - Residential/Local	21,930	95	95	388	388
227ST10	227ST011	A - AC	R - Residential/Local	26,400	51	51	475	475
227ST20	227ST010	A - AC	R - Residential/Local	5,040	63	63	414	414
228ST10	228ST010	O - AC/AC	C - Collector	5,550	94	89	643	496
	228ST021	A - AC	C - Collector	36,960	88		288	

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
	228ST051	A - AC	C - Collector	24,015	95		273	
	228ST081	A - AC	C - Collector	19,720	94		355	
	228ST115	A - AC	C - Collector	22,140	71		748	
	228ST131	A - AC	C - Collector	31,500	85		609	
	228ST160	A - AC	C - Collector	9,600	89		772	
	228ST171	O - AC/AC	C - Collector	18,540	94		503	
	228ST191	O - AC/AC	C - Collector	16,160	94		538	
	228ST211	A - AC	C - Collector	19,520	91		525	
	228ST231	A - AC	C - Collector	25,020	93		567	
229PL10	229PL020	O - AC/AC	R - Residential/Local	21,600	95	68	323	346
	229PL030	A - AC	R - Residential/Local	8,820	63		408	
	229PL040	A - AC	R - Residential/Local	11,550	22		341	
229PL30	229PL011	A - AC	R - Residential/Local	17,460	36	36	267	267
229PL40	229PL010	A - AC	R - Residential/Local	25,740	91	88	138	167
	229PL020	A - AC	R - Residential/Local	17,700	87		192	
	229PL040	A - AC	R - Residential/Local	2,964	67		277	
229ST10E	229ST010	A - AC	R - Residential/Local	16,484	92	92	412	412
229ST30	229ST010	A - AC	R - Residential/Local	25,740	92	92	303	334
	229ST020	A - AC	R - Residential/Local	15,210	92		386	
229ST40	229ST010	A - AC	R - Residential/Local	10,080	44	44	330	330
229ST50	229ST011	A - AC	R - Residential/Local	17,820	86	86	216	216
230ST10	230ST010	A - AC	R - Residential/Local	99,120	32	27	550	464
	230ST020	A - AC	R - Residential/Local	109,200	23		385	
230ST20	230ST010	A - AC	R - Residential/Local	5,400	79	79	362	362
230ST30	230ST010	A - AC	R - Residential/Local	16,920	44	44	359	359
230ST40	230ST010	A - AC	R - Residential/Local	16,160	80	80	407	407
230ST50	230ST010	A - AC	R - Residential/Local	14,100	77	77	343	343
230ST60	230ST010	A - AC	R - Residential/Local	21,195	92	92	260	260

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
230ST70	230ST010	A - AC	R - Residential/Local	49,600	88	88	283	283
231ST10	231ST010	A - AC	R - Residential/Local	7,800	76	76	362	362
231ST20	231ST010	A - AC	R - Residential/Local	9,120	75	75	348	348
231ST30	231ST010	O - AC/AC	R - Residential/Local	8,640	95	92	152	225
	231ST021	O - AC/AC	R - Residential/Local	31,000	95		117	
	231ST051	A - AC	R - Residential/Local	30,800	88		308	
	231ST081	A - AC	R - Residential/Local	15,800	91		313	
231ST40	231ST010	A - AC	R - Residential/Local	18,200	22	22	389	389
231ST50	231ST010	A - AC	R - Residential/Local	29,205	86	86	302	248
	231ST020	A - AC	R - Residential/Local	22,500	91		213	
	231ST030	A - AC	R - Residential/Local	20,295	81		209	
232PL10	232PL010	A - AC	R - Residential/Local	11,250	69	77	446	241
	232PL020	A - AC	R - Residential/Local	19,200	70		186	
	232PL030	A - AC	R - Residential/Local	31,460	85		202	
232PL20	232PL010	A - AC	R - Residential/Local	19,370	88	88	374	374
232ST10	232ST10	A - AC	R - Residential/Local	7,920	80	81	384	443
	232ST20	A - AC	R - Residential/Local	4,160	83		555	
232ST20	232ST010	A - AC	R - Residential/Local	18,590	22	22	254	254
232ST30	232ST011	O - AC/AC	R - Residential/Local	31,635	95	95	437	437
232ST40	232ST040	A - AC	R - Residential/Local	1,080	88	88	544	544
233ST10	233ST010	A - AC	R - Residential/Local	159,880	22	22	663	663
233ST20	233ST010	A - AC	R - Residential/Local	11,570	68	68	381	381
233ST30	233ST010	A - AC	R - Residential/Local	30,160	85	85	246	246
233ST40	233ST010	A - AC	R - Residential/Local	19,800	88	81	641	452
	233ST020	A - AC	R - Residential/Local	9,075	79		191	
	233ST030	A - AC	R - Residential/Local	9,900	70		315	
234PL10	234PL010	A - AC	R - Residential/Local	28,080	84	88	538	519
	234PL020	A - AC	R - Residential/Local	32,340	92		503	

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
234PL20	234PL010	A - AC	R - Residential/Local	22,410	21	21	429	429
234ST10	234ST010	A - AC	R - Residential/Local	8,800	93	92	334	347
	234ST020	A - AC	R - Residential/Local	15,040	93		205	
	234ST030	A - AC	R - Residential/Local	19,840	92		504	
	234ST040	A - AC	R - Residential/Local	38,240	92		377	
	234ST050	A - AC	R - Residential/Local	10,080	79		320	
	234ST060	O - AC/AC	R - Residential/Local	22,750	95		270	
234ST20	234ST011	A - AC	R - Residential/Local	19,800	93	93	209	209
235ST10	235ST010	A - AC	R - Residential/Local	8,960	85	85	355	355
235ST20	235ST011	A - AC	R - Residential/Local	68,020	92	92	329	329
235ST30	235ST011	A - AC	R - Residential/Local	32,400	89	89	382	382
236CT10	236CT010	A - AC	R - Residential/Local	5,600	41	43	593	465
	236CT020	A - AC	R - Residential/Local	5,330	45		331	
236ST10	236ST010	A - AC	R - Residential/Local	126,672	55	55	625	625
236ST20	236ST010	O - AC/AC	R - Residential/Local	9,460	95	94	215	344
	236ST020	A - AC	R - Residential/Local	11,390	93		452	
236ST30	236ST011	A - AC	R - Residential/Local	16,830	92	92	245	304
	236ST030	A - AC	R - Residential/Local	15,675	93		330	
	236ST040	A - AC	R - Residential/Local	10,710	89		360	
237ST10	237ST010	A - AC	R - Residential/Local	25,650	92	94	482	316
	237ST020	O - AC/AC	R - Residential/Local	23,625	95		125	
	237ST030	O - AC/AC	R - Residential/Local	6,480	95		353	
238PL10	238PL010	A - AC	R - Residential/Local	31,185	94	95	464	416
	238PL020	O - AC/AC	R - Residential/Local	41,910	95		347	
	238PL030	O - AC/AC	R - Residential/Local	6,300	95		641	
238ST10	238ST010	A - AC	R - Residential/Local	55,205	19	19	571	571
238ST20	238ST010	A - AC	R - Residential/Local	8,970	95	95	414	414
238ST30	238ST010	A - AC	R - Residential/Local	24,975	92	92	283	337

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
	238ST020	A - AC	R - Residential/Local	28,350	92		385	
244ST10	244ST010	A - AC	R - Residential/Local	6,095	89	89	412	412
244ST20	244ST011	A - AC	R - Residential/Local	16,920	86	88	448	384
	244ST030	A - AC	R - Residential/Local	8,820	93		260	
245ST10	245ST010	A - AC	R - Residential/Local	12,800	88	88	473	473
246PL10	246PL010	A - AC	R - Residential/Local	6,480	73	73	449	449
246ST10	246ST010	A - AC	R - Residential/Local	3,795	76	76	319	319
246ST30	246ST010	A - AC	R - Residential/Local	3,450	62	62	451	451
247ST10	247ST010	A - AC	R - Residential/Local	6,480	48	48	536	536
247ST20	247ST010	A - AC	R - Residential/Local	7,425	85	85	484	484
247ST30	247ST010	A - AC	R - Residential/Local	6,930	84	84	412	412
248ST10	248ST010	A - AC	R - Residential/Local	3,795	49	49	540	540
248ST20	248ST010	A - AC	R - Residential/Local	6,480	57	57	465	465
248ST30	248ST010	A - AC	R - Residential/Local	7,095	67	67	603	603
249ST10	249ST010	A - AC	R - Residential/Local	6,480	80	80	361	361
249ST20	249ST011	A - AC	R - Residential/Local	21,300	91	91	343	343
ABBST10	ABBST011	A - AC	R - Residential/Local	27,900	62	62	227	227
ABBST20	ABBST010	A - AC	R - Residential/Local	7,800	92	92	380	234
	ABBST020	A - AC	R - Residential/Local	24,650	92		188	
ABBST30	ABBST010	A - AC	R - Residential/Local	28,950	87	87	239	239
ABIST10	ABIST010	A - AC	R - Residential/Local	15,210	84	84	314	314
ABIST20	ABIST010	A - AC	R - Residential/Local	15,730	70	70	335	335
ABIST30	ABIST010	A - AC	R - Residential/Local	6,900	94	94	371	371
ABRST10	ABRST010	A - AC	R - Residential/Local	13,950	45	45	296	296
ABRST20	ABRST010	A - AC	R - Residential/Local	16,320	51	51	268	268
ACAAV10	ACAAV010	A - AC	C - Collector	11,880	58	62	559	615
	ACAAV020	A - AC	C - Collector	12,780	50		668	
	ACAAV030	A - AC	C - Collector	18,540	67		686	

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
	ACAAV040	A - AC	C - Collector	8,280	61		487	
	ACAAV050	A - AC	C - Collector	8,640	90		459	
	ACAAV060	A - AC	C - Collector	20,340	55		668	
ACKAV10	ACKAV010	A - AC	R - Residential/Local	11,570	48	48	425	425
ACODR10	ACODR010	A - AC	R - Residential/Local	6,555	79	79	403	403
ADAST10	ADAST010	A - AC	R - Residential/Local	27,560	45	37	316	327
	ADAST020	A - AC	R - Residential/Local	31,500	33		402	
	ADAST030	A - AC	R - Residential/Local	15,750	32		194	
ADOST10	ADOST010	A - AC	R - Residential/Local	7,920	89	89	355	355
ADRAV10	ADRAV010	A - AC	R - Residential/Local	14,400	70	70	265	265
ALAST10	ALAST010	A - AC	A - Arterial	101,160	68	68	349	349
ALAST20N	ALAST010	A - AC	A - Arterial	45,900	66	38	263	149
	ALAST020	A - AC	A - Arterial	20,880	27		171	
	ALAST030	A - AC	A - Arterial	12,350	36		154	
	ALAST040	A - AC	A - Arterial	10,440	27		120	
	ALAST050	A - AC	A - Arterial	10,620	25		108	
	ALAST060	A - AC	A - Arterial	10,620	21		124	
	ALAST070	A - AC	A - Arterial	10,800	20		103	
	ALAST080	A - AC	A - Arterial	11,780	21		120	
	ALAST090	A - AC	A - Arterial	10,620	22		119	
	ALAST100	A - AC	A - Arterial	10,800	28		123	
	ALAST110	A - AC	A - Arterial	11,160	21		119	
	ALAST120	A - AC	A - Arterial	10,440	21		135	
	ALAST130	A - AC	A - Arterial	46,440	25		138	
	ALAST140	A - AC	A - Arterial	56,700	54		111	
	ALAST150	A - AC	A - Arterial	4,440	54		132	
ALAST30S	ALAST010	A - AC	A - Arterial	10,440	32	27	183	186
	ALAST020	A - AC	A - Arterial	11,160	27		210	

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
	ALAST031	A - AC	A - Arterial	30,820	28		188	
	ALAST061	A - AC	A - Arterial	49,280	25		173	
	ALAST110	A - AC	A - Arterial	19,800	29		213	
	ALAST120	A - AC	A - Arterial	30,600	28		178	
ALAST40N	ALAST010	A - AC	A - Arterial	150,192	44	44	386	386
ALAST50S	ALAST010	A - AC	A - Arterial	150,192	47	47	376	376
ALAST60N	ALAST010	A - AC	A - Arterial	102,442	43	43	178	178
ALAST70S	ALAST010	A - AC	A - Arterial	102,442	46	46	370	370
ALBBL10	ALBBL010	O - AC/AC	MiA - Minor Arterial (4)	57,850	71		437	
	ALBBL020	O - AC/AC	MiA - Minor Arterial (4)	70,000	54		344	
	ALBBL030	O - AC/AC	MiA - Minor Arterial (4)	73,200	75	77	187	239
	ALBBL040	O - AC/AC	MiA - Minor Arterial (4)	148,400	87		165	
	ALBBL050	A - AC	MiA - Minor Arterial (4)	84,480	82		194	
ALBBL20	ALBBL010	A - AC	C - Collector	124,000	91	91	207	207
ALBST10	ALBST010	A - AC	R - Residential/Local	19,500	83	83	373	373
ALLEY01	ALLEY001	A - AC	O - Other	4,056	16	16	843	843
ALLEY02	ALLEY002	A - AC	O - Other	3,600	8	8	806	806
ALLEY03	ALLEY003	A - AC	O - Other	3,960	46	46	422	422
ALLEY04	ALLEY004	A - AC	O - Other	10,200	26	26	443	443
ALLEY05	ALLEY005	A - AC	O - Other	10,200	24	24	395	395
ALLEY06	ALLEY006	A - AC	O - Other	7,800	11	11	381	381
ALLEY07	ALLEY007	A - AC	O - Other	8,640	27	27	418	418
ALLEY08	ALLEY008	A - AC	O - Other	6,360	73	73	597	597
ALLEY09	ALLEY009	A - AC	O - Other	3,600	17	17	509	509
ALLEY10	ALLEY010	A - AC	O - Other	4,800	41	41	452	452
ALLEY11	ALLEY011	A - AC	O - Other	5,760	10	10	756	756
ALLEY12	ALLEY012	A - AC	O - Other	5,760	4	4	706	706
ALLEY13	ALLEY013	A - AC	O - Other	7,080	12	12	730	730

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
ALLEY14	ALLEY014	A - AC	O - Other	12,600	6	6	417	417
ALLEY15	ALLEY015	A - AC	O - Other	1,800	17	17	573	573
ALLEY16	ALLEY016	A - AC	O - Other	10,320	3	3	427	427
ALLEY17	ALLEY017	A - AC	O - Other	7,920	16	16	640	640
ALLEY18	ALLEY018	A - AC	O - Other	13,200	40	40	700	700
ALLEY19	ALLEY019	A - AC	O - Other	13,800	16	16	580	580
ALLEY20	ALLEY020	A - AC	O - Other	12,480	14	14	507	507
ALLEY21	ALLEY021	A - AC	O - Other	19,080	26	26	502	502
ALLEY22	ALLEY022	A - AC	O - Other	3,840	24	24	406	406
ALLEY23	ALLEY023	A - AC	O - Other	16,440	14	14	358	358
ALLEY24	ALLEY024	A - AC	O - Other	8,400	7	7	457	457
ALLEY25	ALLEY025	A - AC	O - Other	9,000	12	12	653	653
ALLEY26	ALLEY026	A - AC	O - Other	10,800	14	14	527	527
ALLEY27	ALLEY027	A - AC	O - Other	10,200	9	9	622	622
ALLEY28	ALLEY028	A - AC	O - Other	15,480	32	32	504	504
ALLEY29	ALLEY029	A - AC	O - Other	8,400	10	10	672	672
ALLEY30	ALLEY030	A - AC	O - Other	6,120	11	11	737	737
ALLEY31	ALLEY031	A - AC	O - Other	7,560	0		0	
ALLEY32	ALLEY032	A - AC	O - Other	9,600	29	29	654	654
ALLEY33	ALLEY033	A - AC	O - Other	7,680	28	28	542	542
ALLEY34	ALLEY034	A - AC	O - Other	7,920	11	11	704	704
ALLEY35	ALLEY035	A - AC	O - Other	8,520	17	17	536	536
ALLEY36	ALLEY036	A - AC	O - Other	8,640	38	38	551	551
ALLEY37	ALLEY037	A - AC	O - Other	3,240	49	49	580	580
ALLEY38	ALLEY038	A - AC	O - Other	3,480	51	51	569	569
ALLEY39	ALLEY039	A - AC	O - Other	3,360	66	66	567	567
ALLEY40	ALLEY040	A - AC	O - Other	3,360	30	30	603	603
ALLEY41	ALLEY041	A - AC	O - Other	3,360	23	23	611	611

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
ALLEY42	ALLEY042	A - AC	O - Other	3,360	8	8	556	556
ALLEY43	ALLEY043	A - AC	O - Other	3,360	37	37	403	403
ALLEY44	ALLEY044	A - AC	O - Other	3,360	34	34	584	584
ALLEY45	ALLEY045	A - AC	O - Other	3,360	40	40	449	449
ALLEY46	ALLEY046	A - AC	O - Other	3,000	43	43	624	624
ALLEY47	ALLEY047	A - AC	O - Other	2,520	17	17	768	768
ALLEY48	ALLEY048	A - AC	O - Other	13,440	94	94	1000	1000
ALLEY49	ALLEY049	A - AC	O - Other	9,840	8	8	676	676
ALLEY50	ALLEY050	A - AC	O - Other	3,360	34	34	656	656
ALLEY51	ALLEY051	A - AC	O - Other	3,480	33	33	511	511
ALLEY52	ALLEY052	A - AC	O - Other	3,360	53	53	569	569
ALLEY53	ALLEY053	A - AC	O - Other	3,408	49	49	566	566
ALLEY54	ALLEY054	A - AC	O - Other	3,360	49	49	529	529
ALOBL10	ALOBL010	O - AC/AC	A - Arterial	40,455	94	47	222	240
	ALOBL020E	A - AC	A - Arterial	25,668	62		324	
	ALOBL030E	A - AC	A - Arterial	20,460	29		292	
	ALOBL040E	A - AC	A - Arterial	29,605	19		176	
	ALOBL050E	A - AC	A - Arterial	52,235	30		160	
	ALOBL060E	A - AC	A - Arterial	38,595	44		331	
ALODR10	ALODR010	A - AC	R - Residential/Local	33,000	66	66	278	278
ALVAV10	ALVAV010	A - AC	R - Residential/Local	12,960	91	91	263	263
ALVAV20	ALVAV010	A - AC	R - Residential/Local	9,000	60	68	184	123
	ALVAV020	A - AC	R - Residential/Local	21,120	72		97	
ALVPL10	ALVPL010	A - AC	R - Residential/Local	10,400	59	73	207	271
	ALVPL020	A - AC	R - Residential/Local	18,720	80		307	
AMAAV20S	AMAAV011	A - AC	R - Residential/Local	23,400	89	89	217	217
AMAAV30	AMAAV010	A - AC	R - Residential/Local	20,800	94	94	389	389
AMAAV40	AMAAV011	O - AC/AC	R - Residential/Local	16,160	95	90	310	250

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
	AMAAV030	A - AC	R - Residential/Local	17,100	86		194	
AMAAV50	AMAAV010	A - AC	R - Residential/Local	8,250	59	59	426	426
AMBAV10	AMBAV011	A - AC	R - Residential/Local	14,890	91	91	325	325
AMBAV20	AMBAV011	A - AC	R - Residential/Local	19,800	90	90	320	320
AMBAV30	AMBAV010	A - AC	R - Residential/Local	25,650	78	78	331	331
AMBAV50	AMBAV010	A - AC	R - Residential/Local	5,280	67	66	211	184
	AMBAV020	A - AC	R - Residential/Local	4,200	65		150	
ANCAV10	ANCAV010	O - AC/AC	R - Residential/Local	8,250	95	93	150	224
	ANCAV020	A - AC	R - Residential/Local	31,845	91		197	
	ANCAV030	A - AC	R - Residential/Local	11,880	95		347	
ANCAV20	ANCAV010	A - AC	R - Residential/Local	12,160	74	74	537	537
ANCAV30	ANCAV011	A - AC	R - Residential/Local	22,860	80	84	173	245
	ANCAV031	A - AC	R - Residential/Local	18,000	88		337	
ANCAV40	ANCAV010	A - AC	R - Residential/Local	10,560	94	94	455	455
ANCAV50	ANCAV010	A - AC	R - Residential/Local	48,320	83	76	365	368
	ANCAV020	A - AC	R - Residential/Local	7,200	26		389	
ANDAV10	ANDAV010	A - AC	R - Residential/Local	10,140	93	85	261	386
	ANDAV020	A - AC	R - Residential/Local	20,100	81		449	
ANEAV10	ANEAV010	A - AC	R - Residential/Local	70,000	33	33	390	390
ANNAV10	ANNAV010	A - AC	R - Residential/Local	73,040	29	29	319	319
ANNAV20	ANNAV010	A - AC	R - Residential/Local	17,760	95	94	176	167
	ANNAV020	A - AC	R - Residential/Local	28,800	95		131	
	ANNAV031	A - AC	R - Residential/Local	33,400	93		118	
	ANNAV060	A - AC	R - Residential/Local	22,320	94		270	
	ANNAV071	A - AC	R - Residential/Local	29,340	95		179	
	ANNAV100	A - AC	R - Residential/Local	10,400	93		148	
ARCAV10	ARCAV010	A - AC	R - Residential/Local	16,510	91	91	417	417
ARCAV20	ARCAV010	A - AC	R - Residential/Local	8,400	74	74	368	368

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
ARCAV30	ARCAV010	A - AC	R - Residential/Local	8,260	93	93	383	383
ARCAV50	ARCAV011	A - AC	R - Residential/Local	17,640	81	81	440	440
ARCAV60	ARCAV010	O - AC/AC	R - Residential/Local	25,020	95	94	357	339
	ARCAV020	A - AC	R - Residential/Local	8,100	91		285	
ARCAV70	ARCAV010	A - AC	R - Residential/Local	12,220	94	94	194	194
ARNRD10	ARNRD010	A - AC	R - Residential/Local	86,100	13	13	582	582
ARTES10	ARTES010	A - AC	R - Residential/Local	22,404	17	21	209	321
	ARTES020	A - AC	R - Residential/Local	39,852	23		384	
ASHST10	ASHST010	A - AC	R - Residential/Local	4,810	95	95	641	641
ATMAV10	ATMAV010	A - AC	R - Residential/Local	12,220	94	94	429	429
ATMAV20	ATMAV010	A - AC	R - Residential/Local	16,500	80	80	327	327
ATMAV30	ATMAV010	A - AC	R - Residential/Local	7,040	51	51	321	321
AVABL10	AVABL020	A - AC	A - Arterial	28,400	90	85	321	340
	AVABL030	A - AC	A - Arterial	29,200	94		302	
	AVABL040	A - AC	A - Arterial	29,400	94		336	
	AVABL050	A - AC	A - Arterial	36,290	67		388	
AVABL100S	AVABL010	A - AC	A - Arterial	45,045	26	31	323	245
	AVABL020	A - AC	A - Arterial	14,355	23		222	
	AVABL030	A - AC	A - Arterial	27,555	28		170	
	AVABL040	A - AC	A - Arterial	55,660	50		329	
	AVABL050	A - AC	A - Arterial	31,920	20		291	
	AVABL060	A - AC	A - Arterial	36,800	26		185	
	AVABL070	A - AC	A - Arterial	44,880	20		230	
	AVABL080	A - AC	A - Arterial	41,630	39		143	
AVABL110N	AVABL020	A - AC	A - Arterial	14,490	66	77	204	154
	AVABL030	A - AC	A - Arterial	13,800	52		112	
	AVABL040	A - AC	A - Arterial	31,050	61		178	
	AVABL050	A - AC	A - Arterial	23,230	71		127	

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
	AVABL060	A - AC	A - Arterial	37,030	92		147	
	AVABL070	A - AC	A - Arterial	34,270	92		154	
AVABL120S	AVABL010	A - AC	A - Arterial	29,900	58	67	305	210
	AVABL020	A - AC	A - Arterial	37,030	76		115	
	AVABL030	A - AC	A - Arterial	23,230	71		198	
	AVABL040	A - AC	A - Arterial	31,050	67		123	
	AVABL050	A - AC	A - Arterial	13,800	69		481	
	AVABL060	A - AC	A - Arterial	11,340	54		198	
AVABL130N	AVABL010	A - AC	A - Arterial	30,360	33	50	136	107
	AVABL020	A - AC	A - Arterial	67,850	39		115	
	AVABL030	A - AC	A - Arterial	57,730	64		87	
	AVABL040	A - AC	A - Arterial	24,610	67		98	
AVABL140S	AVABL010	A - AC	A - Arterial	19,260	52	64	98	108
	AVABL020	A - AC	A - Arterial	58,650	64		121	
	AVABL030	A - AC	A - Arterial	67,850	75		95	
	AVABL040	A - AC	A - Arterial	30,360	49		121	
AVABL20	AVABL010	A - AC	A - Arterial	22,770	57	81	222	273
	AVABL020	A - AC	A - Arterial	18,400	94		386	
	AVABL030	A - AC	A - Arterial	24,990	86		246	
	AVABL040	A - AC	A - Arterial	21,760	91		262	
AVABL30N	AVABL010	A - AC	A - Arterial	40,425	60	41	147	219
	AVABL020	A - AC	A - Arterial	17,655	35		223	
	AVABL030	A - AC	A - Arterial	28,215	68		202	
	AVABL050	A - AC	A - Arterial	12,070	11		305	
	AVABL060	A - AC	A - Arterial	16,490	13		201	
	AVABL070	A - AC	A - Arterial	14,110	12		246	
	AVABL080	A - AC	A - Arterial	16,320	30		355	
AVABL40S	AVABL020	A - AC	A - Arterial	17,655	93	43	212	187

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
	AVABL030	A - AC	A - Arterial	27,390	70		238	
	AVABL040	A - AC	A - Arterial	36,890	30		137	
	AVABL050	A - AC	A - Arterial	12,070	12		214	
	AVABL060	A - AC	A - Arterial	16,490	13		215	
	AVABL070	A - AC	A - Arterial	14,110	18		156	
	AVABL080	A - AC	A - Arterial	16,490	48		170	
AVABL50N	AVABL010	A - AC	A - Arterial	19,720	21	22	414	282
	AVABL020	A - AC	A - Arterial	21,420	19		274	
	AVABL030	A - AC	A - Arterial	18,870	27		211	
	AVABL040	A - AC	A - Arterial	31,960	22		324	
	AVABL051	A - AC	A - Arterial	62,900	18		263	
	AVABL070	A - AC	A - Arterial	15,810	21		157	
	AVABL080	A - AC	A - Arterial	38,250	31		302	
AVABL60S	AVABL010	A - AC	A - Arterial	45,000	18	21	264	240
	AVABL020	A - AC	A - Arterial	18,600	13		410	
	AVABL031	A - AC	A - Arterial	73,600	12		208	
	AVABL050	A - AC	A - Arterial	30,690	41		234	
	AVABL060	A - AC	A - Arterial	18,975	26		154	
	AVABL071	A - AC	A - Arterial	44,600	24		237	
AVABL70N	AVABL011	A - AC	A - Arterial	46,240	22	22	610	610
AVABL80S	AVABL011	A - AC	A - Arterial	55,200	26	26	297	297
AVABL90N	AVABL010	A - AC	A - Arterial	44,400	73	48	228	258
	AVABL020	A - AC	A - Arterial	44,880	31		283	
	AVABL030	A - AC	A - Arterial	42,320	35		208	
	AVABL040	A - AC	A - Arterial	27,140	54		405	
	AVABL050	A - AC	A - Arterial	55,660	73		379	
	AVABL060	A - AC	A - Arterial	27,555	31		136	
	AVABL070	A - AC	A - Arterial	14,355	30		134	

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
	AVABL080	A - AC	A - Arterial	45,045	31		189	
BACST10	BACST010	A - AC	R - Residential/Local	16,650	55	55	517	517
BACST20	BACST010	A - AC	R - Residential/Local	15,450	93	93	429	429
BACST30	BACST010	A - AC	R - Residential/Local	13,680	53	53	393	393
BADAV10	BADAV010	A - AC	R - Residential/Local	12,460	45	45	395	395
BALAV10	BALAV010	A - AC	R - Residential/Local	8,960	93	91	386	351
	BALAV020	A - AC	R - Residential/Local	5,120	88		289	
BALAV20	BALAV010	O - AC/AC	R - Residential/Local	18,300	95	95	183	233
	BALAV020	O - AC/AC	R - Residential/Local	8,330	95		344	
BALST11	BALST010	A - AC	R - Residential/Local	22,400	72	72	393	393
BANBL10	BANBL010	A - AC	R - Residential/Local	21,280	35	72	196	229
	BANBL020	A - AC	R - Residential/Local	41,160	26		276	
	BANBL030	O - AC/AC	R - Residential/Local	61,880	95		138	
	BANBL040	O - AC/AC	R - Residential/Local	58,240	95		304	
BANBL20	BANBL011	O - AC/AC	R - Residential/Local	12,960	95	95	217	393
	BANBL031	O - AC/AC	R - Residential/Local	24,300	95		487	
BANDR10	BANDR010	A - AC	R - Residential/Local	15,900	33	33	143	143
BANDR20	BANDR010	A - AC	R - Residential/Local	19,240	93	93	351	351
BATAV10	BATAV010	A - AC	R - Residential/Local	9,440	93	93	398	398
BAUCT10	BAUCT010	A - AC	R - Residential/Local	17,250	86	86	239	239
BAYST10	BAYST010	A - AC	R - Residential/Local	16,500	85	74	209	337
	BAYST020	A - AC	R - Residential/Local	7,820	50		608	
BEAPL10	BEAPL010	A - AC	R - Residential/Local	120,000	83	83	291	291
BECST10	BECST011	A - AC	R - Residential/Local	11,200	79	79	445	445
BEDST10	BEDST010	A - AC	R - Residential/Local	40,940	46	46	477	477
BELAV10	BELAV010	A - AC	R - Residential/Local	45,760	22	25	246	284
	BELAV020	A - AC	R - Residential/Local	23,680	23		210	
	BELAV031	A - AC	R - Residential/Local	52,160	29		352	

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
BELAV20	BELAV010	A - AC	R - Residential/Local	16,960	85	85	194	194
BELAV30	BELAV010	A - AC	R - Residential/Local	36,900	94	94	182	182
BELAV40	BELAV010	A - AC	R - Residential/Local	24,900	91	91	222	278
	BELAV020	A - AC	R - Residential/Local	18,850	91		360	
	BELAV030	A - AC	R - Residential/Local	8,840	93		260	
BILAV10	BILAV010	A - AC	R - Residential/Local	2,889	78	78	490	426
	BILAV020	A - AC	R - Residential/Local	25,380	76		412	
	BILAV031	A - AC	R - Residential/Local	14,250	82		438	
BILAV20	BILAV010	A - AC	R - Residential/Local	13,230	78	78	382	382
BILDR10	BILDR011	A - AC	R - Residential/Local	28,875	89	91	555	343
	BILDR041	A - AC	R - Residential/Local	21,978	93		179	
	BILDR050	A - AC	R - Residential/Local	3,060	93		144	
	BILDR070	A - AC	R - Residential/Local	18,150	91		239	
BISAV10	BISAV010	A - AC	R - Residential/Local	90,000	74	74	482	383
	BISAV020	A - AC	R - Residential/Local	60,000	75		234	
BITST10	BITST011	A - AC	R - Residential/Local	34,600	83	71	492	275
	BITST035	A - AC	R - Residential/Local	16,995	63		199	
	BITST051	A - AC	R - Residential/Local	20,600	72		244	
	BITST075	A - AC	R - Residential/Local	19,820	60		145	
	BITST091	A - AC	R - Residential/Local	25,200	69		156	
BOLAV10	BOLAV010	A - AC	R - Residential/Local	4,030	95	92	391	394
	BOLAV020	A - AC	R - Residential/Local	9,300	90		395	
BOLAV20	BOLAV011	A - AC	R - Residential/Local	33,300	81	81	359	359
BOLST10	BOLST011	O - AC/AC	R - Residential/Local	20,340	95	94	152	187
	BOLST041	A - AC	R - Residential/Local	29,800	93		211	
BOLST20	BOLST010	A - AC	R - Residential/Local	5,280	63	63	741	741
BONAV10	BONAV010	A - AC	R - Residential/Local	4,995	57	57	479	479
BONAV20	BONAV010	A - AC	R - Residential/Local	9,585	81	81	446	446

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
BONAV30	BONAV010	A - AC	R - Residential/Local	25,920	72	72	198	198
BONAV40	BONAV010	A - AC	R - Residential/Local	20,925	87	87	414	414
BONI90	BONI090	A - AC	R - Residential/Local	1,416	86	86	366	366
BONST10	BONST010	A - AC	C - Collector	80,080	90	90	581	581
BONST20	BONST011	A - AC	C - Collector	27,200	78	84	477	551
	BONST041	A - AC	C - Collector	22,500	80		671	
	BONST071	A - AC	C - Collector	54,600	89		539	
BONST30	BONST011	A - AC	R - Residential/Local	24,600	38	38	313	313
BONST40	BONST010	A - AC	R - Residential/Local	9,585	58	48	230	338
	BONST020	A - AC	R - Residential/Local	14,310	42		411	
BONST50	BONST010	A - AC	R - Residential/Local	23,220	79	77	407	388
	BONST020	A - AC	R - Residential/Local	8,580	73		338	
BONST60	BONITA	O - AC/AC	R - Residential/Local	18,860	95	95	432	432
BRAAV10	BRAAV010	A - AC	R - Residential/Local	26,640	23	23	430	430
BRADR10	BRADR010	A - AC	R - Residential/Local	9,360	95	95	194	194
BRADR20	BRADR010	A - AC	R - Residential/Local	5,830	42	49	421	418
	BRADR020	A - AC	R - Residential/Local	5,920	55		415	
BRADR30	BRADR010	A - AC	R - Residential/Local	34,155	52	72	479	295
	BRADR022	A - AC	R - Residential/Local	36,720	90		123	
BREDR10	BREDR011	A - AC	R - Residential/Local	29,600	91	92	340	360
	BREDR022	A - AC	R - Residential/Local	3,096	92		346	
	BREDR033	A - AC	R - Residential/Local	23,680	92		481	
	BREDR071	A - AC	R - Residential/Local	29,340	93		395	
	BREDR101	A - AC	R - Residential/Local	29,160	92		249	
BREDR20	BREDR011	A - AC	R - Residential/Local	20,160	83	83	297	297
BRNDI10	BRNDI010	A - AC	R - Residential/Local	1,980	40	41	277	415
	BRNDI020	A - AC	R - Residential/Local	4,140	47		536	
	BRNDI030	A - AC	R - Residential/Local	2,592	31		326	

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
BROAD60	BROAD060	A - AC	R - Residential/Local	1,380	56	56	576	576
BROAV10N	BROAV051	A - AC	A - Arterial	36,777	46	68	101	162
	BROAV061	A - AC	A - Arterial	51,480	83		206	
BROAV20S	BROAV010	A - AC	A - Arterial	51,480	79	52	236	190
	BROAV020	A - AC	A - Arterial	34,515	57		254	
	BROAV030	A - AC	A - Arterial	67,860	52		127	
	BROAV040	A - AC	A - Arterial	53,040	58		161	
	BROAV050	A - AC	A - Arterial	121,680	50		149	
	BROAV060	A - AC	A - Arterial	179,280	43		225	
BROAV30N	BROAV010	A - AC	A - Arterial	58,520	80	65	331	330
	BROAV021	A - AC	A - Arterial	57,720	49		328	
BROAV40S	BROAV010	A - AC	A - Arterial	57,720	57	46	213	320
	BROAV020	A - AC	A - Arterial	58,520	36		425	
BROAV50	BROAV010	A - AC	R - Residential/Local	4,960	93	93	225	225
BROAV60	BROAV010	O - AC/AC	R - Residential/Local	18,000	95	94	403	368
	BROAV020	O - AC/AC	R - Residential/Local	20,700	95		324	
	BROAV060	A - AC	R - Residential/Local	1,380	57		576	
BROST10	BROST011	A - AC	R - Residential/Local	38,280	53	53	160	200
	BROST031	A - AC	R - Residential/Local	30,640	53		250	
BURST10	BURST010	A - AC	R - Residential/Local	37,120	24	24	283	297
	BURST020	A - AC	R - Residential/Local	7,480	22		368	
CAIAV10	CAIAV010	A - AC	R - Residential/Local	14,040	71	71	421	421
CAIAV20	CAIAV010	A - AC	R - Residential/Local	8,120	70	70	283	283
CAIAV30	CAIAV012	A - AC	R - Residential/Local	43,200	60	56	451	443
	CAIAV013	A - AC	R - Residential/Local	14,064	48		445	
	CAIAV014	A - AC	R - Residential/Local	3,324	31		338	
CALPL10	CALPL010	A - AC	R - Residential/Local	7,520	49	49	471	471
CALST10	CALST010	A - AC	R - Residential/Local	25,050	76	76	386	386

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
CALST20	CALST010	A - AC	R - Residential/Local	18,300	57	57	344	344
CALST30	CALST010	A - AC	R - Residential/Local	21,000	94	94	162	162
CAMAV10	CAMAV010	A - AC	R - Residential/Local	7,800	92	92	263	263
CAMAV20	CAMAV010	A - AC	R - Residential/Local	20,800	93	93	169	169
CAMAV30	CAMAV010	A - AC	R - Residential/Local	8,000	94	94	234	234
CAMRD10	CAMRD010	A - AC	R - Residential/Local	34,200	93	93	190	190
CAMRD20	CAMRD010	A - AC	R - Residential/Local	44,280	94	94	102	123
	CAMRD020	A - AC	R - Residential/Local	9,000	94		226	
CAMRD30	CAMRD010	A - AC	R - Residential/Local	37,910	88	91	387	301
	CAMRD020	A - AC	R - Residential/Local	22,880	94		200	
	CAMRD030	A - AC	R - Residential/Local	14,400	92		236	
CANAV10	CANAV010	A - AC	R - Residential/Local	25,920	59	71	330	277
	CANAV020	A - AC	R - Residential/Local	20,960	86		135	
	CANAV030	A - AC	R - Residential/Local	15,040	69		382	
CARAV10	CARAV011	A - AC	R - Residential/Local	30,240	94	95	165	283
	CARAV031	O - AC/AC	R - Residential/Local	19,800	95		131	
	CARAV051	O - AC/AC	R - Residential/Local	24,640	95		549	
CARAV20	CARAV010	A - AC	R - Residential/Local	16,510	48	48	409	409
CARAV30	CARAV011	A - AC	R - Residential/Local	9,900	86	82	246	289
	CARAV030	A - AC	R - Residential/Local	10,980	78		327	
CARAV40	CARAV010	A - AC	R - Residential/Local	12,220	88	88	297	297
CARAV50	CARAV011	A - AC	R - Residential/Local	24,960	83	84	498	424
	CARAV031	A - AC	R - Residential/Local	29,340	88		380	
	CARAV051	A - AC	R - Residential/Local	17,640	81		485	
	CARAV071	A - AC	R - Residential/Local	17,280	81		332	
CARAV60	CARAV011	A - AC	R - Residential/Local	19,190	93	93	429	440
	CARAV060	A - AC	R - Residential/Local	3,192	92		508	
CARAV70	CARAV070	A - AC	R - Residential/Local	3,156	89	89	359	359

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
CARCR10	CARCR010	A - AC	R - Residential/Local	11,250	79	79	396	396
CARCT10	CARCT010	A - AC	R - Residential/Local	20,460	35	35	189	189
CARDR10	CARDR012	A - AC	R - Residential/Local	84,960	78	78	499	499
CARDR20	CARDR010	A - AC	R - Residential/Local	29,920	22	26	245	390
	CARDR020	A - AC	R - Residential/Local	28,160	31		545	
CARFRNS	CARFRNS010	A - AC	R - Residential/Local	23,100	39	39	276	276
CARST10E	CARST020	A - AC	A - Arterial	14,625	92	87	91	148
	CARST030	A - AC	A - Arterial	44,550	93		122	
	CARST040	A - AC	A - Arterial	7,250	91		120	
	CARST050	A - AC	A - Arterial	15,080	85		191	
	CARST060	A - AC	A - Arterial	19,840	92		216	
	CARST070	A - AC	A - Arterial	19,840	92		126	
	CARST080	A - AC	A - Arterial	13,950	82		150	
	CARST090	A - AC	A - Arterial	15,510	50		185	
	CARST100	A - AC	A - Arterial	15,510	41		207	
	CARST111	A - AC	A - Arterial	56,430	92		116	
	CARST140	A - AC	A - Arterial	44,880	92		185	
	CARST151	A - AC	A - Arterial	56,595	93		136	
CARST20W	CARST011	A - AC	A - Arterial	42,195	87	87	615	202
	CARST041	A - AC	A - Arterial	22,330	90		143	
	CARST060	A - AC	A - Arterial	45,900	94		98	
	CARST070	A - AC	A - Arterial	14,625	95		184	
	CARST080	A - AC	A - Arterial	112,350	91		128	
	CARST090	A - AC	A - Arterial	46,860	84		242	
	CARST100	A - AC	A - Arterial	44,880	90		126	
	CARST111	A - AC	A - Arterial	56,265	86		164	
	CARST140	A - AC	A - Arterial	12,870	71		230	
	CARST150	A - AC	A - Arterial	15,015	52		242	

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
CARST30E	CARST020	A - AC	A - Arterial	43,230	66	71	365	258
	CARST030	A - AC	A - Arterial	37,290	65		184	
	CARST041	A - AC	A - Arterial	55,040	69		317	
	CARST060	A - AC	A - Arterial	32,800	73		238	
	CARST070	A - AC	A - Arterial	11,520	58		247	
	CARST080	A - AC	A - Arterial	42,400	66		257	
	CARST091	A - AC	A - Arterial	41,760	90		246	
	CARST110	A - AC	A - Arterial	27,680	76		123	
CARST32E	CARST010	P - PCC	A - Arterial	9,000	64	64	110	110
CARST40W	CARST010	A - AC	A - Arterial	28,545	77	84	165	223
	CARST020	A - AC	A - Arterial	26,560	86		132	
	CARST040	A - AC	A - Arterial	41,600	84		250	
	CARST050	A - AC	A - Arterial	11,520	66		240	
	CARST060	A - AC	A - Arterial	32,800	84		194	
	CARST070	A - AC	A - Arterial	17,760	94		193	
	CARST080	A - AC	A - Arterial	37,760	81		263	
	CARST090	A - AC	A - Arterial	36,300	84		310	
	CARST100	A - AC	A - Arterial	43,065	91		215	
CARST42W	CARST030	A - AC	A - Arterial	16,000	87	88	197	166
	CARST110	P - PCC	A - Arterial	9,000	90		110	
CASPAV10	CASPAV010	A - AC	R - Residential/Local	15,730	95	95	191	191
CASST10	CASST011	A - AC	R - Residential/Local	18,180	84	87	366	324
	CASST031	A - AC	R - Residential/Local	11,520	91		258	
CASST20	CASST010	O - AC/AC	R - Residential/Local	18,290	95	95	249	249
CASST30	CASST011	A - AC	R - Residential/Local	23,960	83	83	453	453
CATAV10	CATAV010	A - AC	R - Residential/Local	5,390	83	83	282	282
CATAV20	CATAV010	A - AC	R - Residential/Local	15,990	73	73	449	449
CATAV30	CATAV011	A - AC	R - Residential/Local	16,500	56	56	264	264

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
CATAV40	CATAV010	A - AC	R - Residential/Local	5,850	83	76	558	477
	CATAV040	A - AC	R - Residential/Local	2,424	59		281	
CATAV50	CATAV010	A - AC	R - Residential/Local	11,160	81	81	417	417
CATAV60	CATAV011	A - AC	R - Residential/Local	16,800	94	91	280	275
	CATAV030	A - AC	R - Residential/Local	9,600	86		266	
CATAV70	CATAV010	A - AC	R - Residential/Local	34,914	79	69	384	249
	CATAV021	A - AC	R - Residential/Local	22,140	94		162	
	CATAV041	A - AC	R - Residential/Local	33,840	94		229	
	CATAV071	A - AC	R - Residential/Local	24,420	93		164	
	CATAV081	A - AC	R - Residential/Local	58,880	28		248	
CENAV10N	CENAV010	A - AC	A - Arterial	35,258	54	41	398	419
	CENAV020	A - AC	A - Arterial	11,400	25		397	
	CENAV030	A - AC	A - Arterial	10,200	12		515	
CENAV20S	CENAV010	A - AC	A - Arterial	60,656	13	31	263	320
	CENAV020	A - AC	A - Arterial	10,200	13		565	
	CENAV030	A - AC	A - Arterial	11,400	47		300	
	CENAV040	A - AC	A - Arterial	37,924	62		341	
	CENAV100	A - AC	A - Arterial	6,468	11		385	
CENAV30N	CENAV011	A - AC	A - Arterial	44,840	28	27	310	290
	CENAV031	A - AC	A - Arterial	51,428	27		272	
CENAV40S	CENAV010	A - AC	A - Arterial	30,656	27	34	485	334
	CENAV020	A - AC	A - Arterial	30,656	38		258	
	CENAV030	A - AC	A - Arterial	16,000	25		301	
	CENAV040	A - AC	A - Arterial	23,520	46		258	
CENAV50N	CENAV010	A - AC	A - Arterial	27,540	62	57	256	174
	CENAV020	A - AC	A - Arterial	33,280	51		118	
	CENAV030	A - AC	A - Arterial	24,320	36		145	
	CENAV040	A - AC	A - Arterial	33,820	72		191	

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
	CENAV050	A - AC	A - Arterial	25,840	57		166	
CENAV60S	CENAV010	A - AC	A - Arterial	25,840	65	51	249	197
	CENAV020	A - AC	A - Arterial	33,820	48		162	
	CENAV030	A - AC	A - Arterial	20,480	46		194	
	CENAV040	A - AC	A - Arterial	33,280	52		165	
	CENAV050	A - AC	A - Arterial	22,950	43		241	
CENDR10	CENDR010	O - AC/AC	R - Residential/Local	30,690	95	95	241	241
CHAST10	CHAST010	A - AC	R - Residential/Local	108,000	92	92	425	425
CHAST20	CHAST010	A - AC	R - Residential/Local	60,000	81	79	237	323
	CHAST020	A - AC	R - Residential/Local	57,000	76		414	
CHEDR10	CHEDR011	A - AC	R - Residential/Local	30,600	76	76	245	245
CHEPL10	CHEPL010	A - AC	R - Residential/Local	9,240	32	32	414	414
CHIST10	CHISTN010	A - AC	R - Residential/Local	69,696	77	77	360	360
CIVDR10N	CIVDR010	A - AC	R - Residential/Local	13,950	48	48	545	545
CIVIC10	CIVIC100	A - AC	R - Residential/Local	5,436	27	27	299	299
CLADR20	CLADR010	A - AC	R - Residential/Local	5,760	78	78	514	514
CLADR40	CLADR010	A - AC	R - Residential/Local	8,320	34	36	374	280
	CLADR020	A - AC	R - Residential/Local	8,320	37		186	
CLADR50	CLADR010	A - AC	R - Residential/Local	6,630	89	89	284	284
CLADR60	CLADR010	A - AC	R - Residential/Local	16,770	26	37	572	525
	CLADR020	A - AC	R - Residential/Local	7,200	50		464	
	CLADR031	A - AC	R - Residential/Local	18,180	41		505	
CLADR70	CLADR010	A - AC	R - Residential/Local	9,100	45	45	277	277
CLADR80	CLADR010	A - AC	R - Residential/Local	5,500	55	55	487	487
CLARI10	CLARI010	A - AC	R - Residential/Local	1,728	60	60	447	447
CLAST10	CLAST011	A - AC	R - Residential/Local	19,080	89	84	331	319
	CLAST030	A - AC	R - Residential/Local	9,720	90		440	
	CLAST040	A - AC	R - Residential/Local	12,070	71		204	

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
CLIAV10	CLIAV010	A - AC	R - Residential/Local	4,960	75	75	567	567
CLIAV20	CLIAV010	A - AC	R - Residential/Local	36,000	91	81	209	235
	CLIAV020	A - AC	R - Residential/Local	10,530	48		323	
CLOST20	CLOST010	A - AC	R - Residential/Local	9,100	60	60	237	237
CLUST10	CLUST011	A - AC	R - Residential/Local	16,480	94	85	411	321
	CLUST031	A - AC	R - Residential/Local	13,440	74		210	
COLAV10	COLAV010	A - AC	R - Residential/Local	30,690	67	65	422	310
	COLAV020	A - AC	R - Residential/Local	35,100	67		164	
	COLAV031	A - AC	R - Residential/Local	25,020	61		376	
COLAV30	COLAV010	A - AC	R - Residential/Local	20,592	93	93	164	164
COLDR10	COLDR011	A - AC	R - Residential/Local	26,460	89	89	197	197
COLDR20	COLDR010	A - AC	R - Residential/Local	18,445	82	82	598	598
COLOR10	COLOR100	A - AC	R - Residential/Local	3,048	43	43	384	384
COSAV10	COSAV010	A - AC	R - Residential/Local	24,750	90	90	366	267
	COSAV021	A - AC	R - Residential/Local	20,200	93		211	
	COSAV040	A - AC	R - Residential/Local	15,840	88		184	
CRAAV10	CRAAV010	A - AC	R - Residential/Local	9,756	81	83	222	191
	CRAAV020	A - AC	R - Residential/Local	10,800	84		140	
	CRAAV030	A - AC	R - Residential/Local	9,720	84		217	
CRACT10	CRACT010	O - AC/AC	R - Residential/Local	9,680	95	95	333	333
CROAV10	CROAV010	A - AC	R - Residential/Local	26,055	79	79	362	362
CROAV20	CROAV010	A - AC	R - Residential/Local	20,925	77	77	394	394
CROCK30	CROCK010	A - AC	R - Residential/Local	3,024	94	91	201	272
	CROCK020	A - AC	R - Residential/Local	2,532	94		244	
	CROCK030	A - AC	R - Residential/Local	2,532	86		384	
CYRST10	CYRST010	A - AC	R - Residential/Local	12,450	37	37	568	568
CYRST20	CYRST011	A - AC	R - Residential/Local	28,620	56	81	385	294
	CYRST040	A - AC	R - Residential/Local	8,320	90		349	

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
	CYRST050	A - AC	R - Residential/Local	28,640	84		145	
	CYRST061	A - AC	R - Residential/Local	13,455	85		97	
	CYRST081	A - AC	R - Residential/Local	39,290	93		391	
DABAV10	DABAV010	A - AC	R - Residential/Local	10,450	90	90	480	480
DALAV10	DALAV010	A - AC	R - Residential/Local	6,900	95	95	474	474
DALAV20	DALAV011	A - AC	R - Residential/Local	19,764	87	89	126	140
	DALAV031	A - AC	R - Residential/Local	19,280	92		155	
DELAV10	DELAV010	A - AC	R - Residential/Local	15,680	31	31	479	479
DELAV20	DELAV010	A - AC	R - Residential/Local	12,220	35	35	269	269
DELAV30	DELAV010	A - AC	R - Residential/Local	13,800	81	81	402	402
DELAV40	DELAV010	A - AC	C - Collector	14,256	47	71	591	466
	DELAV020	A - AC	R - Residential/Local	36,540	80		417	
DELBL10E	DELBL060	A - AC	A - Arterial	34,920	47	80	416	235
	DELBL070	O - AC/AC	A - Arterial	61,200	67		422	
	DELBL080	O - AC/AC	A - Arterial	22,610	73		109	
	DELBL090	O - AC/AC	A - Arterial	32,470	85		189	
	DELBL100	O - AC/AC	A - Arterial	51,510	84		322	
	DELBL110	O - AC/AC	A - Arterial	49,810	93		185	
	DELBL120	O - AC/AC	A - Arterial	52,190	93		138	
	DELBL130	O - AC/AC	A - Arterial	60,010	86		62	
DELBL20W	DELBL080	O - AC/AC	A - Arterial	54,570	86	85	270	160
	DELBL090	O - AC/AC	A - Arterial	52,190	93		102	
	DELBL100	O - AC/AC	A - Arterial	49,810	89		128	
	DELBL110	A - AC	A - Arterial	51,510	77		149	
	DELBL121	A - AC	A - Arterial	56,440	86		188	
	DELBL140	A - AC	A - Arterial	61,200	79		123	
DELBL30	DELBL010	A - AC	A - Arterial	48,200	27	25	578	576
	DELBL020	A - AC	A - Arterial	112,000	23		702	

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
	DELBL030	A - AC	A - Arterial	46,464	29		272	
DELBL40	DELBL010	A - AC	A - Arterial	12,120	37	37	143	138
	DELBL020	A - AC	A - Arterial	3,936	37		123	
DELBL50	DELBL030	A - AC	A - Arterial	10,908	56	61	381	322
	DELBL040	A - AC	A - Arterial	9,036	61		213	
	DELBL050	A - AC	A - Arterial	4,236	74		403	
DELBL60	DELBL050	A - AC	A - Arterial	5,412	37	41	225	299
	DELBL060	A - AC	A - Arterial	7,536	44		353	
DELBL70	DELBL060	A - AC	A - Arterial	10,716	77	80	132	133
	DELBL070	A - AC	A - Arterial	2,064	93		141	
DELBL80	DELBL080	A - AC	A - Arterial	8,376	37	21	271	382
	DELBL090	A - AC	A - Arterial	9,372	21		446	
	DELBL100	A - AC	A - Arterial	13,404	11		406	
DELBL90	DELBL110	A - AC	A - Arterial	10,104	25	26	362	366
	DELBL120	A - AC	A - Arterial	7,728	23		266	
	DELBL130	A - AC	A - Arterial	4,824	34		536	
DENDR10	DENDR011	A - AC	R - Residential/Local	23,800	81	89	186	318
	DENDR031	A - AC	R - Residential/Local	23,800	88		321	
	DENDR051	O - AC/AC	R - Residential/Local	20,800	95		333	
	DENDR071	O - AC/AC	R - Residential/Local	21,200	95		446	
DENDR20	DENDR010	A - AC	R - Residential/Local	8,640	86	86	256	256
DENDR30	DENDR011	A - AC	R - Residential/Local	22,500	95	95	137	255
	DENDR031	A - AC	R - Residential/Local	18,900	95		396	
DENDR40	DENDR010	O - AC/AC	R - Residential/Local	35,850	95	95	370	370
DESST10	DESST010	A - AC	R - Residential/Local	15,360	84	84	389	389
DESST20	DESST010	A - AC	R - Residential/Local	29,025	40	36	216	284
	DESST020	A - AC	R - Residential/Local	14,410	29		420	
DESST30	DESST011	A - AC	R - Residential/Local	28,200	93	93	254	256

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
	DESST031	A - AC	R - Residential/Local	20,700	92		258	
DIMDR10	DIMDR010	A - AC	R - Residential/Local	15,000	43	43	329	329
DIMDR20	DIMDR010	A - AC	R - Residential/Local	39,200	56	66	100	227
	DIMDR020	A - AC	R - Residential/Local	12,200	90		350	
	DIMDR031	A - AC	R - Residential/Local	26,760	71		357	
DIMDR30	DIMDR010	A - AC	R - Residential/Local	28,160	94	83	381	253
	DIMDR020	A - AC	R - Residential/Local	6,300	75		88	
	DIMDR021	A - AC	R - Residential/Local	23,580	73		143	
DIMDR40	DIMDR010	A - AC	R - Residential/Local	13,000	91	85	335	326
	DIMDR021	A - AC	R - Residential/Local	23,000	81		321	
DOLST10	DOLST010	A - AC	C - Collector	15,355	94	83	245	219
	DOLST020	A - AC	C - Collector	24,400	94		232	
	DOLST030	A - AC	C - Collector	8,695	94		459	
	DOLST040	A - AC	C - Collector	12,025	93		160	
	DOLST050	A - AC	C - Collector	12,210	92		184	
	DOLST060	A - AC	C - Collector	7,400	95		155	
	DOLST070	A - AC	C - Collector	17,205	93		272	
	DOLST080	A - AC	C - Collector	37,000	88		168	
	DOLST090	A - AC	C - Collector	15,480	90		243	
	DOLST100	A - AC	C - Collector	19,980	67		235	
	DOLST111	A - AC	C - Collector	38,500	55		198	
DOLST20	DOLST011	A - AC	C - Collector	74,340	16	39	482	246
	DOLST031	A - AC	C - Collector	104,000	22		154	
	DOLST051	A - AC	C - Collector	53,680	52		229	
	DOLST070	A - AC	C - Collector	88,740	69		167	
DOLST30	DOLST030	A - AC	C - Collector	4,944	34	34	413	413
DOMST10E	DOMST010	A - AC	C - Collector	42,080	35	62	203	273
	DOMST020	A - AC	C - Collector	40,200	27		509	

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
	DOMST030	A - AC	C - Collector	21,960	30		343	
	DOMST040	A - AC	C - Collector	21,500	78		286	
	DOMST060	A - AC	C - Collector	24,480	77		226	
	DOMST070	A - AC	C - Collector	52,800	94		137	
	DOMST080	A - AC	C - Collector	58,320	88		170	
	DOMST091	A - AC	C - Collector	37,800	43		431	
DOMST20W	DOMST010	A - AC	A - Arterial	42,080	14	14	508	508
DOMST30	DOMST010	O - AC/AC	R - Residential/Local	78,720	95	68	248	214
	DOMST021	O - AC/AC	R - Residential/Local	42,840	95		123	
	DOMST040	A - AC	R - Residential/Local	37,740	18		223	
	DOMST050	A - AC	R - Residential/Local	35,420	26		240	
DOMST40	DOMST010	A - AC	R - Residential/Local	14,450	91	78	386	359
	DOMST030	A - AC	R - Residential/Local	7,950	93		337	
	DOMST040	A - AC	R - Residential/Local	9,720	79		319	
	DOMST050	A - AC	R - Residential/Local	24,480	66		367	
DOMST60	DOMST060	A - AC	R - Residential/Local	12,396	27	27	370	370
DOUST10	DOUST010	A - AC	R - Residential/Local	42,560	90	80	397	438
	DOUST020	A - AC	R - Residential/Local	22,100	62		518	
DOVPL10	DOVPL010	A - AC	R - Residential/Local	25,560	92	92	431	431
DUNAV10	DONAV030	A - AC	R - Residential/Local	17,100	89	88	300	456
	DUNAV010	A - AC	R - Residential/Local	40,460	83		476	
	DUNAV020	A - AC	R - Residential/Local	35,980	92		508	
EARAV10	EARAV010	A - AC	R - Residential/Local	7,050	89	89	479	479
EARAV20	EARAV010	O - AC/AC	R - Residential/Local	11,360	95	95	194	194
EARAV30	EARAV010	A - AC	R - Residential/Local	8,160	91	91	333	333

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
EASST10	EASST011	A - AC	R - Residential/Local	16,150	59	64	404	404
	EASST040	A - AC	R - Residential/Local	5,225	79		404	
EDDDR10	EDDDR010	A - AC	R - Residential/Local	14,400	31	34	481	342
	EDDDR020	A - AC	R - Residential/Local	14,400	37		202	
EDDDR20	EDDDR010	A - AC	R - Residential/Local	16,896	85	90	390	226
	EDDDR020	A - AC	R - Residential/Local	36,896	91		304	
	EDDDR031	A - AC	R - Residential/Local	47,840	92		108	
EDGST10	EDGST010	A - AC	R - Residential/Local	25,400	93	94	214	393
	EDGST020	O - AC/AC	R - Residential/Local	25,650	95		450	
	EDGST030	O - AC/AC	R - Residential/Local	22,680	95		529	
EDODR10	EDODR011	A - AC	R - Residential/Local	17,820	95	93	278	294
	EDODR031	A - AC	R - Residential/Local	26,820	92		304	
ELPST10	ELPST010	A - AC	R - Residential/Local	154,680	21	21	699	699
	ELPST020	A - AC	R - Residential/Local	36,960	22		699	
ELSDR10	ELSDR011	A - AC	R - Residential/Local	30,820	93	89	473	450
	ELSDR041	A - AC	R - Residential/Local	19,800	93		461	
	ELSDR060	A - AC	R - Residential/Local	19,400	92		466	
	ELSDR071	A - AC	R - Residential/Local	29,520	80		586	
	ELSDR101	A - AC	R - Residential/Local	29,160	91		271	
ELSDR20	ELSDR010	A - AC	R - Residential/Local	14,820	93	93	372	372
ELSDR30	ELSDR010	A - AC	R - Residential/Local	7,800	93	93	465	443
	ELSDR020	A - AC	R - Residential/Local	6,890	93		419	
ELSDR40	ELSDR011	A - AC	R - Residential/Local	17,600	81	78	385	302
	ELSDR031	A - AC	R - Residential/Local	18,900	69		187	
	ELSDR050	A - AC	R - Residential/Local	9,000	91		382	
EMBAV10	EMBAV011	A - AC	R - Residential/Local	27,000	82	87	198	262
	EMBAV031	A - AC	R - Residential/Local	18,720	91		340	

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
	EMBAV050	A - AC	R - Residential/Local	9,180	92		294	
ENOAV10	ENOAV010	A - AC	R - Residential/Local	5,740	34	34	582	582
ENOAV20	ENOAV010	O - AC/AC	R - Residential/Local	15,240	95	95	253	253
ENSDR10	ENSDR010	A - AC	R - Residential/Local	39,900	94	94	308	308
ENSDR20	ENSDR010	A - AC	R - Residential/Local	29,700	92	92	331	288
	ENSDR020	A - AC	R - Residential/Local	21,600	93		235	
	ENSDR030	A - AC	R - Residential/Local	10,790	88		276	
EUOAV10	EUOAV010	A - AC	R - Residential/Local	7,200	68	61	463	422
	EUOAV030	A - AC	R - Residential/Local	8,800	55		389	
EXACT10	EXACT010	A - AC	R - Residential/Local	5,100	69	69	587	587
FAIST10	FAIST010	A - AC	R - Residential/Local	14,560	85	85	250	250
FARDR10	FARDR010	A - AC	R - Residential/Local	27,000	91	91	236	241
	FARDR020	A - AC	R - Residential/Local	20,800	93		257	
	FARDR030	A - AC	R - Residential/Local	13,728	88		228	
FERST10	FERST011	A - AC	R - Residential/Local	20,880	66	74	196	239
	FERST030	A - AC	R - Residential/Local	8,820	93		342	
FERST20	FERST010	A - AC	R - Residential/Local	8,000	67	66	282	286
	FERST020	A - AC	R - Residential/Local	33,760	63		297	
	FERST030	A - AC	R - Residential/Local	8,160	80		246	
FERST30	FERNST020	A - AC	R - Residential/Local	8,160	93	90	169	181
	FERNST030	A - AC	R - Residential/Local	30,720	90		145	
	FERST010	A - AC	R - Residential/Local	32,160	89		218	
FIAST10	FIAST011	A - AC	R - Residential/Local	16,890	91	91	523	523
FIAST20	FIAST010	A - AC	R - Residential/Local	5,980	93	93	282	282
FIAST30	FIAST010	A - AC	R - Residential/Local	12,800	20	20	413	413
FIEAV10	FIEAV010	A - AC	R - Residential/Local	11,520	88	88	506	506
FIGST10N	FIGST010	A - AC	A - Arterial	47,160	77	46	250	232

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
	FIGST021	A - AC	A - Arterial	25,560	70		137	
	FIGST041	A - AC	A - Arterial	32,760	94		341	
	FIGST050	A - AC	A - Arterial	23,460	50		233	
	FIGST061	A - AC	A - Arterial	26,800	79		329	
	FIGST080	A - AC	A - Arterial	68,800	25		226	
	FIGST090	A - AC	A - Arterial	28,440	18		194	
	FIGST100	A - AC	A - Arterial	28,440	37		235	
	FIGST110	A - AC	A - Arterial	33,800	42		213	
	FIGST120	A - AC	A - Arterial	53,460	33		248	
	FIGST130	A - AC	A - Arterial	80,160	32		189	
FIGST20S	FIGST010	A - AC	A - Arterial	80,160	19	31	181	231
	FIGST020	A - AC	A - Arterial	53,460	22		159	
	FIGST030	A - AC	A - Arterial	32,600	27		179	
	FIGST040	A - AC	A - Arterial	32,400	29		255	
	FIGST050	A - AC	A - Arterial	29,340	17		307	
	FIGST060	A - AC	A - Arterial	68,800	17		280	
	FIGST072	A - AC	A - Arterial	60,160	43		337	
	FIGST101	A - AC	A - Arterial	53,600	65		179	
	FIGST131	A - AC	A - Arterial	55,680	42		227	
FIGST30N	FIGST010	A - AC	A - Arterial	35,200	27	58	119	198
	FIGST021	A - AC	A - Arterial	52,400	28		199	
	FIGST050	A - AC	A - Arterial	37,980	43		209	
	FIGST060	A - AC	A - Arterial	39,420	72		160	
	FIGST070	A - AC	A - Arterial	42,400	92		214	
	FIGST081	A - AC	A - Arterial	47,040	87		263	
FIGST40S	FIGST010	A - AC	A - Arterial	36,360	35	39	294	217
	FIGST020	A - AC	A - Arterial	38,160	43		137	
	FIGST030	A - AC	A - Arterial	39,420	41		132	

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
	FIGST040	A - AC	A - Arterial	36,540	39		193	
	FIGST051	A - AC	A - Arterial	51,200	37		198	
	FIGST080	A - AC	A - Arterial	32,800	41		383	
FIGST50N	FIGST010	A - AC	A - Arterial	89,000	31	28	358	325
	FIGST020	A - AC	A - Arterial	52,200	22		269	
FIGST60S	FIGST010	A - AC	A - Arterial	54,600	17	20	443	341
	FIGST021	A - AC	A - Arterial	95,150	22		283	
FIGST70	FIGST010	A - AC	A - Arterial	54,260	51	51	340	340
FIGST80S	FIGST010	A - AC	A - Arterial	42,000	39	52	194	159
	FIGST021	A - AC	A - Arterial	67,600	60		138	
FIGST90	FIGST090	A - AC	A - Arterial	2,808	74	74	327	327
FIGST90N	FIGST010	A - AC	A - Arterial	12,780	46	69	148	210
	FIGST020	A - AC	A - Arterial	23,600	79		163	
	FIGST030	A - AC	A - Arterial	29,800	84		148	
	FIGST040	A - AC	A - Arterial	38,700	58		307	
FIGSTFRNE	FIGFRNE030	A - AC	R - Residential/Local	20,488	86	86	320	320
FIGSTFRNW	FIGFRNW020	A - AC	R - Residential/Local	13,750	87	87	320	320
FOLAV10	FOLAV010	A - AC	R - Residential/Local	10,080	93	93	433	433
FOLAV20	FOLAV010	A - AC	R - Residential/Local	10,650	62	62	198	198
FORAV10	FORAV010	A - AC	R - Residential/Local	125,700	26	26	285	285
FOXAV10	FOXAV010	A - AC	R - Residential/Local	6,400	58	58	445	445
FOXAV20	FOXAV010	A - AC	R - Residential/Local	7,200	93	93	590	590
FRAST10	FRAST011	A - AC	R - Residential/Local	21,400	82	82	395	395
FRAST20	FRAST010	A - AC	R - Residential/Local	44,800	52	52	187	187
FREST10	FREST010	A - AC	R - Residential/Local	6,250	69	69	324	324
FRIAV10	FRIAV010	A - AC	R - Residential/Local	12,090	90	90	256	256
FRIAV20	FRIAV010	A - AC	R - Residential/Local	13,800	84	84	387	387
FRIAV30	FRIAV01	A - AC	R - Residential/Local	26,100	94	94	442	442

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
FRIAV40	FRIAV011	A - AC	R - Residential/Local	15,660	82	82	452	452
FRIAV50	FRIAV010	A - AC	R - Residential/Local	3,792	63	63	575	575
FRIAV60	FRIAV010	A - AC	R - Residential/Local	42,560	61	61	375	375
FRIAV70	FRIAV012	A - AC	R - Residential/Local	45,300	84	84	384	355
	FRIAV040	A - AC	R - Residential/Local	8,450	84		201	
FRIAV80	FRIAV011	O - AC/AC	R - Residential/Local	21,240	95	92	253	335
	FRIAV031	A - AC	R - Residential/Local	20,160	89		421	
GALAV10	GALAV010	A - AC	R - Residential/Local	28,800	38	73	194	239
	GALAV020	A - AC	R - Residential/Local	11,360	48		300	
	GALAV030	A - AC	R - Residential/Local	29,520	82		307	
	GALAV041	A - AC	R - Residential/Local	20,880	95		116	
	GALAV060	A - AC	R - Residential/Local	26,650	83		300	
	GALAV070	A - AC	R - Residential/Local	14,100	91		202	
	GALAV080	A - AC	R - Residential/Local	3,264	94		270	
GALST10	GALST010	A - AC	R - Residential/Local	5,520	93	93	240	240
GARAV20	GARAV010	A - AC	R - Residential/Local	10,560	91	91	243	243
GARAV30E	GARAV010	O - AC/AC	MiA - Minor Arterial (4)	75,000	65	86	535	310
	GARAV020	A - AC	MiA - Minor Arterial (4)	42,000	84		288	
	GARAV030	A - AC	MiA - Minor Arterial (4)	207,390	92		237	
	GARAV041	O - AC/AC	MiA - Minor Arterial (4)	61,140	93		295	
GARAV50	GARAV010	A - AC	R - Residential/Local	23,240	93	93	233	233
GENST10	GENST010	A - AC	R - Residential/Local	14,850	46	46	279	279
GINDR10	GINDR010	A - AC	R - Residential/Local	22,860	93	93	223	223
GLAST10	GLAST011	A - AC	R - Residential/Local	31,450	84	90	349	329
	GLAST031	A - AC	R - Residential/Local	61,775	94		247	
	GLAST050	A - AC	R - Residential/Local	8,400	91		598	
	GLAST060	A - AC	R - Residential/Local	40,950	88		381	
GLAST20	GLAST010	A - AC	R - Residential/Local	12,160	87	84	127	147

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
	GLAST020	A - AC	R - Residential/Local	34,880	65		145	
	GLAST030	A - AC	R - Residential/Local	8,100	60		102	
	GLAST040	A - AC	R - Residential/Local	34,200	93		117	
	GLAST050	A - AC	R - Residential/Local	24,120	95		168	
	GLAST060	A - AC	R - Residential/Local	20,000	95		184	
	GLAST070	A - AC	R - Residential/Local	12,960	89		186	
GLEST10	GLEST010	A - AC	R - Residential/Local	96,000	81	81	342	310
	GLEST020	A - AC	R - Residential/Local	42,000	85		253	
	GLEST030	A - AC	R - Residential/Local	42,000	75		302	
	GLEST040E	O - AC/AC	R - Residential/Local	30,000	84		297	
GOMCR10	GOMCR010	A - AC	R - Residential/Local	13,200	57	57	435	435
GRAAV10	GRAAV010	A - AC	R - Residential/Local	4,000	56	70	254	295
	GRAAV030	A - AC	C - Collector	39,200	27		178	
	GRAAV041	A - AC	C - Collector	21,800	75		361	
	GRAAV061	A - AC	C - Collector	30,600	89		243	
	GRAAV080	A - AC	C - Collector	29,725	93		343	
	GRAAV090	A - AC	C - Collector	9,570	92		197	
	GRAAV100	A - AC	C - Collector	18,720	61		609	
	GRAAV111`	A - AC	C - Collector	17,480	88		210	
GRAAV20	GRAAV011	A - AC	R - Residential/Local	56,690	86	84	337	376
	GRAAV030	A - AC	R - Residential/Local	9,120	73		622	
GRAAV30	GRAAV010	A - AC	R - Residential/Local	21,120	74	79	307	294
	GRAAV020	A - AC	R - Residential/Local	15,300	85		277	
GRAPL10	GRAPL010	A - AC	R - Residential/Local	8,960	63	63	431	431
GRIST10	GRIST010	A - AC	R - Residential/Local	31,320	67	74	441	398
	GRIST020	A - AC	R - Residential/Local	31,320	81		355	
GULAV10	GULAV010	A - AC	R - Residential/Local	4,920	51	51	528	528
GULAV20	GULAV011	A - AC	R - Residential/Local	18,600	62	62	341	341

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
GULAV30	GULAV010	A - AC	R - Residential/Local	10,710	94	94	320	320
GULAV40	GULAV010	A - AC	R - Residential/Local	23,920	91	91	461	461
GUNAV10	GUNAV011	A - AC	R - Residential/Local	21,920	92	92	608	608
GUNAV20	GUNAV011	A - AC	R - Residential/Local	29,720	88	90	340	254
	GUNAV030	A - AC	R - Residential/Local	22,780	94		140	
	GUNAV040	A - AC	R - Residential/Local	11,200	89		257	
HADST10	HADST011	A - AC	R - Residential/Local	15,900	92	92	329	329
HAIDR10	HAIDR010	A - AC	R - Residential/Local	12,090	68	68	372	372
HANAV	HANAV010	A - AC	R - Residential/Local	8,500	61	61	427	427
HANAV10	HANAV020	A - AC	R - Residential/Local	14,640	88	88	497	497
HANAV20	HANAV010	A - AC	R - Residential/Local	12,460	92	92	367	367
HARAV10	HARAV010	A - AC	R - Residential/Local	7,020	94	92	323	353
	HARAV021	A - AC	R - Residential/Local	16,800	90		341	
	HARAV041	A - AC	R - Residential/Local	17,100	90		499	
	HARAV061	A - AC	R - Residential/Local	16,800	90		256	
	HARAV08	A - AC	R - Residential/Local	25,200	94		334	
HARAV20	HARAV010	A - AC	R - Residential/Local	10,780	77	81	315	287
	HARAV020	A - AC	R - Residential/Local	3,228	84		213	
	HARAV030	A - AC	R - Residential/Local	3,372	91		266	
HARAV30	HARAV010	A - AC	R - Residential/Local	75,000	75	78	397	398
	HARAV020	A - AC	R - Residential/Local	75,000	80		399	
HARAV40	HARAV011	A - AC	R - Residential/Local	23,760	95	92	257	212
	HARAV041	A - AC	R - Residential/Local	30,240	89		176	
HARAV50	HARAV010	A - AC	R - Residential/Local	36,000	30	31	320	349
	HARAV020	A - AC	R - Residential/Local	10,530	35		447	
HARCT20	HARCT010	A - AC	R - Residential/Local	15,000	93	93	377	377
HARST10	HARST010	A - AC	R - Residential/Local	14,170	76	85	325	444
	HARST020	A - AC	R - Residential/Local	27,300	86		402	

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
	HARST030	A - AC	R - Residential/Local	26,910	89		548	
HASLN10	HASLN010	A - AC	R - Residential/Local	7,585	91	89	347	215
	HASLN020	A - AC	R - Residential/Local	29,200	95		200	
	HASLN030	A - AC	R - Residential/Local	11,470	74		164	
HAXCT10	HAXCT011	A - AC	R - Residential/Local	22,000	92	92	219	219
HELST10	HELST011	A - AC	R - Residential/Local	27,360	88	88	361	361
HELST20	HELST010	A - AC	R - Residential/Local	7,840	94	93	155	170
	HELST030	A - AC	R - Residential/Local	3,000	91		211	
HELST30	HELST010	A - AC	R - Residential/Local	35,460	81	83	302	220
	HELST020	A - AC	R - Residential/Local	11,340	80		149	
	HELST030	A - AC	R - Residential/Local	5,400	75		504	
	HELST040	A - AC	R - Residential/Local	9,720	93		296	
	HELST050	A - AC	R - Residential/Local	42,800	83		118	
HELST40	HELST010	A - AC	R - Residential/Local	34,380	92	93	320	210
	HELST020	A - AC	R - Residential/Local	22,600	94		129	
	HELST030	A - AC	R - Residential/Local	27,180	93		175	
	HELST041	A - AC	R - Residential/Local	15,600	94		146	
HILAV10	HILAV010	A - AC	R - Residential/Local	25,200	67	67	175	175
HILAV20	HILAV010	O - AC/AC	R - Residential/Local	19,200	95	95	312	312
HILAV30	HILAV010	A - AC	R - Residential/Local	13,650	81	81	372	372
HOLDR10	HOLDR011	O - AC/AC	R - Residential/Local	31,000	95	95	139	139
HOWAV10	HOWAV011	A - AC	R - Residential/Local	20,680	53	53	379	379
HUGDR10	HUGDR010	A - AC	R - Residential/Local	23,400	92	92	271	271
HUGDR20	HUGDR010	A - AC	R - Residential/Local	6,500	93	93	178	178
IDAST10	IDAST011	A - AC	R - Residential/Local	17,820	94	84	257	332
	IDAST030	A - AC	R - Residential/Local	5,760	53		565	
INTWY10	INTWY010	A - AC	R - Residential/Local	98,120	61	61	295	295
ISAST10	ISAST010	A - AC	R - Residential/Local	3,840	74	74	648	648

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
ISHAV10	ISHAV010	A - AC	R - Residential/Local	21,780	42	42	377	377
ISLAV10	ISLAV010	A - AC	R - Residential/Local	3,624	70	70	593	593
ISLAV20	ISLAV010	A - AC	R - Residential/Local	6,820	86	86	427	427
ISLAV30	ISLAV011	A - AC	R - Residential/Local	47,840	94	94	277	277
ISLAV40	ISLAV01	A - AC	R - Residential/Local	18,360	61	72	388	345
	ISLAV041	A - AC	R - Residential/Local	17,640	93		382	
	ISLAV060	A - AC	R - Residential/Local	17,820	76		347	
	ISLAV070	A - AC	R - Residential/Local	11,205	49		213	
ISLAV50	ISLAV010	A - AC	R - Residential/Local	4,070	61	61	372	372
JACST10	JACST010	A - AC	R - Residential/Local	18,980	63	59	277	469
	JACST020	A - AC	R - Residential/Local	28,080	54		500	
	JACST030	A - AC	R - Residential/Local	23,010	61		589	
JAMAV10	JAMAV010	A - AC	R - Residential/Local	6,800	85	80	290	452
	JAMAV030	A - AC	R - Residential/Local	36,640	79		520	
	JAMAV040	A - AC	R - Residential/Local	10,725	82		320	
JANST10E	JANST010	A - AC	R - Residential/Local	28,530	21	21	248	248
JAVST10	JAVST010	A - AC	R - Residential/Local	29,920	94	83	184	254
	JAVST020	A - AC	R - Residential/Local	15,520	61		471	
	JAVST031	A - AC	R - Residential/Local	20,520	75		270	
	JAVST050	A - AC	R - Residential/Local	16,960	93		162	
JAYST10	JAYST010	A - AC	R - Residential/Local	10,920	75	75	243	243
JAYST20	JAYST011	A - AC	R - Residential/Local	16,530	91	91	564	564
JAYST30	JAYST010	A - AC	R - Residential/Local	10,000	90	90	373	373
JAYST40	JAYST010	A - AC	R - Residential/Local	19,680	79	86	184	302
	JAYST020	A - AC	R - Residential/Local	5,600	91		578	
	JAYST031	A - AC	R - Residential/Local	27,960	90		329	
JEFST10	JEFST010	A - AC	R - Residential/Local	24,250	88	91	552	466
	JEFST020	A - AC	R - Residential/Local	38,520	92		430	

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
	JEFST030	A - AC	R - Residential/Local	19,680	92		430	
JODLN10	JODLN010	A - AC	R - Residential/Local	18,080	93	93	330	330
JOEST10	JOEST010	A - AC	R - Residential/Local	14,160	93	93	511	375
	JOEST020	A - AC	R - Residential/Local	11,400	93		206	
JOEST20	JOEST010	A - AC	R - Residential/Local	16,250	89	89	421	421
JOEST30	JOEST010	A - AC	R - Residential/Local	18,200	22	22	207	207
JOPAV10	JOPAV010	A - AC	R - Residential/Local	8,320	85	85	373	373
JUDIT10	JUDIT010	A - AC	R - Residential/Local	1,128	48	48	500	500
KAICR10	KAICR010	A - AC	R - Residential/Local	9,450	32	32	400	400
KAMST10	KAMST010	A - AC	R - Residential/Local	10,790	92	92	312	312
KEEAV20	KEEAV010	A - AC	R - Residential/Local	13,000	91	91	499	499
KEEST10	KEEST010	A - AC	R - Residential/Local	18,040	66	60	203	218
	KEEST020	A - AC	R - Residential/Local	20,460	70		282	
	KEEST030	A - AC	R - Residential/Local	26,400	48		179	
KEMAV10	KEMAV010	A - AC	R - Residential/Local	4,640	95	95	579	579
KEMAV20	KEMAV010	A - AC	R - Residential/Local	8,960	75	75	418	418
KEMAV30	KEMAV011	A - AC	R - Residential/Local	25,920	95	94	221	213
	KEMAV030	O - AC/AC	R - Residential/Local	11,180	92		195	
KENDR10	KENDR010	A - AC	R - Residential/Local	17,110	92	92	265	284
	KENDR020	A - AC	R - Residential/Local	9,100	89		331	
	KENDR030	A - AC	R - Residential/Local	6,160	94		266	
KINAV10	KINAV010	O - AC/AC	R - Residential/Local	12,220	95	95	329	329
KINAV20	KINAV010	A - AC	R - Residential/Local	13,920	53	53	331	331
KINAV30	KINAV010	A - AC	R - Residential/Local	14,720	34	34	300	300
KINAV40	KINAV010	O - AC/AC	R - Residential/Local	7,840	95	94	219	279
	KINAV021	O - AC/AC	R - Residential/Local	8,160	95		416	
	KINAV040	A - AC	R - Residential/Local	8,550	92		203	
KINAV50	KINAV010	O - AC/AC	R - Residential/Local	52,800	95	95	219	219

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
KINAV60	KINAV010	A - AC	R - Residential/Local	8,360	26	26	465	465
KINAV70	KINAV010	A - AC	R - Residential/Local	13,720	88	88	251	251
KINAV80	KINAV010	A - AC	R - Residential/Local	7,150	82	82	351	351
KINPL10	KINPL10	A - AC	R - Residential/Local	25,080	32	32	355	355
KRADR10	KRADR010	A - AC	R - Residential/Local	22,680	83	83	288	288
KRADR20	KRADR010	O - AC/AC	R - Residential/Local	23,100	95	95	165	165
KRADR30	KRADR011	O - AC/AC	R - Residential/Local	19,440	95	94	126	252
	KRADR031	A - AC	R - Residential/Local	29,520	93		335	
KRADR40	KRADR010	A - AC	R - Residential/Local	10,270	93	93	398	398
LAGAV10	LAGAV010	A - AC	R - Residential/Local	3,960	71	71	539	539
LAMAV10	LAMAV010	A - AC	R - Residential/Local	25,380	33	33	486	486
LAUST10	LAUST010	A - AC	R - Residential/Local	6,720	92	92	413	413
LEAAV10	LEAAV010	A - AC	R - Residential/Local	31,020	74	82	288	300
	LEAAV021	A - AC	R - Residential/Local	40,000	93		300	
	LEAAV026	A - AC	R - Residential/Local	6,120	47		361	
LEAAV30	LEAAV011	A - AC	R - Residential/Local	39,060	86	86	415	415
LEAAV40	LEAAV010	A - AC	R - Residential/Local	8,000	84	91	360	292
	LEAAV020	A - AC	R - Residential/Local	24,960	93		292	
	LEAAV030	A - AC	R - Residential/Local	15,624	91		258	
LEGAV10	LEGAV010	A - AC	R - Residential/Local	6,710	91	91	387	387
LEGAV20	LEGAV010	A - AC	R - Residential/Local	22,100	80	80	336	336
LIFST10	LIFST01	A - AC	R - Residential/Local	13,320	83	83	392	392
LINST10	LINST01	A - AC	R - Residential/Local	17,280	90	90	391	391
LINST20	LINST010	A - AC	R - Residential/Local	18,060	94	86	281	433
	LINST020	A - AC	R - Residential/Local	20,640	84		519	

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
	LINST030	A - AC	R - Residential/Local	12,285	79		535	
	LINST040	A - AC	R - Residential/Local	3,036	85		338	
LINST30	LINST020	A - AC	R - Residential/Local	19,980	61	63	475	518
	LINST030	A - AC	R - Residential/Local	15,660	70		606	
	LINST050	A - AC	R - Residential/Local	4,548	47		404	
LOMBL10	LOMBL010	A - AC	A - Arterial	80,648	48	44	393	279
	LOMBL020	A - AC	A - Arterial	60,880	32		221	
	LOMBL030	A - AC	A - Arterial	23,400	47		301	
	LOMBL041	A - AC	A - Arterial	41,600	49		161	
	LOMBL060	A - AC	A - Arterial	15,600	54		199	
LOMBL20	LOMBL070	A - AC	A - Arterial	25,800	52	52	885	885
LOMBL30	LOMBL080	A - AC	A - Arterial	14,184	40	40	157	157
LOSAV10	LOSAV011	A - AC	R - Residential/Local	19,440	93	93	365	365
LOSAV20	LOSAV010	A - AC	R - Residential/Local	7,040	86	86	272	272
LOSAV30	LOSAV010	A - AC	R - Residential/Local	22,100	85	85	269	269
LOYAV10	LOYAV010	A - AC	R - Residential/Local	29,600	87	81	168	276
	LOYAV020	A - AC	R - Residential/Local	18,560	71		447	
LUCST10	LUCST011	A - AC	R - Residential/Local	24,310	89	89	245	245
LUCST20	LUCST010	A - AC	C - Collector	78,400	32	32	420	420
LYNAV10	LYNAV011	A - AC	R - Residential/Local	33,120	94	94	408	408
LYSDR10	LYSDR010	A - AC	R - Residential/Local	13,800	72	72	337	337
LYSDR20	LYSDR010	A - AC	R - Residential/Local	9,300	90	92	408	297
	LYSDR020	A - AC	R - Residential/Local	31,680	93		264	
MACAV10	MACAV010	A - AC	R - Residential/Local	19,140	21	21	346	346
MACCT10	MACCT010	A - AC	R - Residential/Local	13,800	89	89	277	277
MADST10	MADST010	A - AC	R - Residential/Local	23,010	49	74	436	404
	MADST020	A - AC	R - Residential/Local	28,080	88		528	
	MADST030	A - AC	R - Residential/Local	18,590	85		176	

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
MAIST100S	MAIST010	O - AC/AC	A - Arterial	46,080	92	93	333	212
	MAIST020	O - AC/AC	A - Arterial	31,000	93		129	
	MAIST030	A - AC	A - Arterial	31,350	93		115	
MAIST10N	MAIST030	A - AC	A - Arterial	51,510	94	77	348	184
	MAIST040	A - AC	A - Arterial	54,360	93		165	
	MAIST050	A - AC	A - Arterial	41,610	83		147	
	MAIST061	A - AC	A - Arterial	54,340	91		91	
	MAIST081	A - AC	A - Arterial	25,920	92		91	
	MAIST111	A - AC	A - Arterial	26,640	93		201	
	MAIST121	A - AC	A - Arterial	46,250	44		184	
	MAIST151	A - AC	A - Arterial	43,320	31		211	
MAIST110N	MAIST010	A - AC	A - Arterial	48,060	86	88	205	162
	MAIST020	A - AC	A - Arterial	42,900	91		113	
MAIST120S	MAIST010	A - AC	A - Arterial	66,885	92	89	78	113
	MAIST020	A - AC	A - Arterial	31,140	83		189	
MAIST20S	MAIST010	A - AC	A - Arterial	46,580	74	76	87	155
	MAIST020	A - AC	A - Arterial	52,700	93		88	
	MAIST030	A - AC	A - Arterial	54,540	91		103	
	MAIST040	A - AC	A - Arterial	41,610	90		145	
	MAIST050	A - AC	A - Arterial	54,150	93		120	
	MAIST060	A - AC	A - Arterial	25,740	94		101	
	MAIST070	A - AC	A - Arterial	28,800	91		226	
	MAIST080	A - AC	A - Arterial	54,800	39		371	
	MAIST090	A - AC	A - Arterial	57,000	43		147	
MAIST30N	MAIST010	A - AC	A - Arterial	31,620	28	33	300	239
	MAIST025	A - AC	A - Arterial	16,200	29		182	
	MAIST035	A - AC	A - Arterial	23,550	20		161	
	MAIST060	A - AC	A - Arterial	17,400	37		119	

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
	MAIST070	A - AC	A - Arterial	21,300	21		170	
	MAIST080	A - AC	A - Arterial	16,200	30		182	
	MAIST090	A - AC	A - Arterial	38,400	38		420	
	MAIST100	A - AC	A - Arterial	31,040	53		186	
MAIST40S	MAIST010	A - AC	A - Arterial	28,000	49	34	220	235
	MAIST020	A - AC	A - Arterial	37,920	35		236	
	MAIST030	A - AC	A - Arterial	18,315	33		138	
	MAIST040	A - AC	A - Arterial	23,265	22		204	
	MAIST050	A - AC	A - Arterial	18,645	31		228	
	MAIST065	A - AC	A - Arterial	23,250	30		236	
	MAIST085	A - AC	A - Arterial	16,350	35		234	
	MAIST100	A - AC	A - Arterial	31,620	35		328	
MAIST50N	MAIST010	A - AC	A - Arterial	113,900	25	25	381	381
MAIST60S	MAIST010	A - AC	A - Arterial	115,260	28	28	277	277
MAIST70N	MAIST010	A - AC	A - Arterial	20,480	62	54	155	247
	MAIST020	A - AC	A - Arterial	26,325	57		214	
	MAIST030	A - AC	A - Arterial	35,295	62		177	
	MAIST040	A - AC	A - Arterial	60,600	59		203	
	MAIST050	A - AC	A - Arterial	24,605	57		304	
	MAIST060	A - AC	A - Arterial	33,115	64		256	
	MAIST070	A - AC	A - Arterial	84,400	41		319	
MAIST80S	MAIST010	A - AC	A - Arterial	25,600	86	52	324	211
	MAIST020	A - AC	A - Arterial	27,000	73		181	
	MAIST030	A - AC	A - Arterial	36,200	50		286	
	MAIST040	A - AC	A - Arterial	60,600	47		152	
	MAIST050	A - AC	A - Arterial	24,605	52		170	
	MAIST060	A - AC	A - Arterial	33,115	57		99	
	MAIST070	A - AC	A - Arterial	84,400	37		254	

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
MAIST90N	MAIST010	A - AC	A - Arterial	28,800	87	86	147	111
	MAIST020	A - AC	A - Arterial	30,800	93		109	
	MAIST030	A - AC	A - Arterial	53,600	82		93	
MALAV20S	MALAV010	A - AC	R - Residential/Local	10,500	74	74	335	335
MAPAV10	MAPAV010	A - AC	R - Residential/Local	32,200	54	54	402	402
MARAT10	MARAT010	A - AC	R - Residential/Local	11,472	87	87	427	427
MARAV10	MARAV010	A - AC	R - Residential/Local	6,760	84	84	264	264
MARAV100	MARAV010	A - AC	R - Residential/Local	11,000	67	81	152	173
	MARAV020	A - AC	R - Residential/Local	23,580	87		103	
	MARAV030	A - AC	R - Residential/Local	18,060	83		278	
MARAV110	MARAV010	A - AC	R - Residential/Local	57,200	93	93	179	179
MARAV120	MARAV010	A - AC	R - Residential/Local	5,535	63	63	458	458
MARAV20	MARAV010	A - AC	R - Residential/Local	15,750	51	51	342	342
MARAV30	MARAV010	A - AC	R - Residential/Local	3,740	91	91	459	459
MARAV40	MARAV010	A - AC	R - Residential/Local	15,200	52	60	500	453
	MARAV020	A - AC	R - Residential/Local	7,020	76		351	
MARAV50	MARAV010	A - AC	R - Residential/Local	46,350	93	93	238	238
MARAV60	MARAV010	O - AC/AC	R - Residential/Local	19,800	95	95	205	210
	MARAV060	A - AC	R - Residential/Local	4,032	93		244	
	MARAV070	A - AC	R - Residential/Local	1,620	94		185	
MARAV70	MARAV011	A - AC	R - Residential/Local	26,640	89	86	455	314
	MARAV041	A - AC	R - Residential/Local	27,720	86		153	
	MARAV070	A - AC	R - Residential/Local	9,280	80		390	
MARAV80	MARAV010	A - AC	R - Residential/Local	14,880	92	93	437	408
	MARAV020	A - AC	R - Residential/Local	31,360	93		394	
MARAV90	MARAV010	A - AC	R - Residential/Local	24,750	82	83	387	378
	MARAV020	A - AC	R - Residential/Local	8,480	86		350	
MARGST10	MARST011	A - AC	R - Residential/Local	21,280	94	53	279	369

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
	MARST040	A - AC	R - Residential/Local	27,950	22		438	
MARST10	MARST011	A - AC	R - Residential/Local	23,400	93	85	403	330
	MARST030	A - AC	R - Residential/Local	22,040	87		254	
	MARST041	O - AC/AC	C - Collector	23,400	94		291	
	MARST061	A - AC	C - Collector	22,000	74		123	
	MARST080	A - AC	R - Residential/Local	49,500	80		439	
MARST30	MARST010	O - AC/AC	R - Residential/Local	8,160	95	95	418	418
MARST40	MARST010	A - AC	R - Residential/Local	8,280	61	61	295	295
MCHAV10	MCHAV010	O - AC/AC	R - Residential/Local	18,560	95	95	270	177
	MCHAV021	A - AC	R - Residential/Local	19,080	93		132	
	MCHAV041	A - AC	R - Residential/Local	19,440	95		175	
	MCHAV061	O - AC/AC	R - Residential/Local	27,360	95		148	
MCKAV10	MCKAV011	A - AC	R - Residential/Local	30,060	70	70	564	564
MCKCR10	MCKCR010	A - AC	R - Residential/Local	6,900	85	85	450	450
MEAST10	MEAST011	A - AC	R - Residential/Local	28,116	93	89	417	403
	MEAST031	A - AC	R - Residential/Local	18,540	84		382	
MEHAV10	MEHAV011	A - AC	R - Residential/Local	16,240	86	86	243	226
	MEHAV031	A - AC	R - Residential/Local	19,260	86		211	
MEHAV20	MEHAV010	A - AC	R - Residential/Local	47,700	65	65	939	939
MEHAV30	MEHAV010	A - AC	R - Residential/Local	13,800	81	81	330	330
MERCT10	MERCT010	A - AC	R - Residential/Local	16,650	79	79	529	529
METAV10	METAV010	O - AC/AC	R - Residential/Local	3,960	95	91	564	501
	METAV020	A - AC	R - Residential/Local	7,425	89		467	
METAV20	METAV010	A - AC	R - Residential/Local	25,785	76	76	296	296
METAV30	METAV010	A - AC	R - Residential/Local	24,000	71	80	383	334
	METAV021	A - AC	R - Residential/Local	21,600	90		279	
MIDAV10	MIDAV010	A - AC	R - Residential/Local	23,840	74	74	187	187
MIDAV20	MIDAV010	A - AC	R - Residential/Local	8,160	74	74	479	479

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
MIDAV30	MIDAV010	A - AC	R - Residential/Local	11,960	93	93	384	384
MIDAV40	MIDAV010	A - AC	R - Residential/Local	6,500	85	85	378	378
MILAV10	MILAV010	A - AC	R - Residential/Local	11,760	76	76	272	292
	MILAV020	A - AC	R - Residential/Local	2,940	74		372	
MILAV20	MILAV010	A - AC	R - Residential/Local	17,100	77	77	220	220
MILAV30	MILAV010	A - AC	R - Residential/Local	9,450	79	79	394	394
MILAV40	MILAV010	A - AC	R - Residential/Local	16,200	72	78	224	210
	MILAV020	A - AC	R - Residential/Local	25,200	79		252	
	MILAV030	A - AC	R - Residential/Local	32,670	81		171	
MILST10	MILST011	A - AC	R - Residential/Local	15,150	88	78	158	158
	MILST030	A - AC	R - Residential/Local	12,090	65		159	
MILST20	MILST011	A - AC	R - Residential/Local	17,120	51	61	497	411
	MILST031	A - AC	R - Residential/Local	19,260	58		193	
	MILST051	A - AC	R - Residential/Local	19,800	55		463	
	MILST072	A - AC	R - Residential/Local	29,160	74		468	
MONAV10	MONAV010	A - AC	R - Residential/Local	23,760	38	38	222	222
MONAV20	MONAV011	A - AC	R - Residential/Local	21,780	86	74	319	345
	MONAV030	A - AC	C - Collector	33,660	56		432	
	MONAV040	A - AC	C - Collector	15,300	87		280	
	MONAV060	A - AC	C - Collector	15,840	35		481	
	MONAV070	A - AC	C - Collector	12,060	82		470	
	MONAV080	O - AC/AC	C - Collector	23,040	94		217	
	MONAV090	O - AC/AC	C - Collector	11,880	94		167	
MONAV30	MONAV010	A - AC	R - Residential/Local	3,360	93	93	498	467
	MONAV020	A - AC	R - Residential/Local	12,220	93		458	
MONAV40	MONAV011	A - AC	R - Residential/Local	18,900	84	84	502	412
	MONAV031	A - AC	R - Residential/Local	18,540	85		320	
MONAV50	MONAV010	A - AC	R - Residential/Local	16,500	69	69	308	308

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
MONAV60	MONAV011	A - AC	C - Collector	24,600	93	93	221	305
	MONAV041	A - AC	C - Collector	10,500	93		216	
	MONAV061	A - AC	C - Collector	26,880	93		417	
MONAV70	MONAV070	A - AC	C - Collector	4,836	29	29	317	317
MONAV80E	MONAV010	A - AC	R - Residential/Local	25,520	54	54	364	364
MONST10	MONST010	A - AC	R - Residential/Local	20,670	48	76	586	391
	MONST020	A - AC	R - Residential/Local	27,690	86		251	
	MONST030	A - AC	R - Residential/Local	28,080	86		385	
MOODR10	MOODR010	A - AC	R - Residential/Local	17,205	89	83	407	302
	MOODR020	A - AC	R - Residential/Local	11,200	74		141	
MORDR10	MORDR010	A - AC	R - Residential/Local	12,800	54	54	440	440
NAFAV10	NAFFA AVE	A - AC	R - Residential/Local	12,220	72	72	317	317
NAUCT10	NAUCT010	A - AC	R - Residential/Local	17,250	90	90	352	352
NEIAV10	NEIAV010	A - AC	R - Residential/Local	22,860	95	95	238	238
NEPAV10	NEPAV010	A - AC	R - Residential/Local	43,260	91	91	351	351
NEPAV20	NEPAV010	A - AC	R - Residential/Local	24,050	70	70	405	405
NEPAV30	NEPAV010	A - AC	R - Residential/Local	25,900	84	84	269	269
NEPAV40	NEPAV011	A - AC	R - Residential/Local	18,000	94	91	360	534
	NEPAV030	A - AC	R - Residential/Local	14,850	93		434	
	NEPAV040	A - AC	R - Residential/Local	33,165	89		674	
NEPAV50	NEPAV010	A - AC	R - Residential/Local	20,115	88	88	351	351
NEPAV60	NEPAV011	A - AC	R - Residential/Local	26,280	52	55	458	476
	NEPAV060	A - AC	R - Residential/Local	3,740	79		601	
NESAV10	NESAV010	A - AC	R - Residential/Local	25,350	87	87	269	269
NESAV20	NESAV010	A - AC	R - Residential/Local	33,840	93	94	154	226
	NESAV021	A - AC	R - Residential/Local	24,660	95		325	
NEWAV10	NEWAV010	A - AC	R - Residential/Local	25,950	92	83	320	301
	NEWAV020	A - AC	R - Residential/Local	13,200	65		264	

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
NICAV10	NICAV010	A - AC	R - Residential/Local	12,220	85	85	404	404
NICAV20	NICAV010	A - AC	R - Residential/Local	18,330	95	95	384	384
NICAV30	NICAV010	A - AC	R - Residential/Local	9,840	67	67	343	343
NICAV40	NICOLLE	A - AC	R - Residential/Local	12,600	67	67	345	345
NICAV50	NICAV021	A - AC	R - Residential/Local	17,080	92	92	238	238
NICAV60	NICAV010	A - AC	R - Residential/Local	22,820	87	87	656	656
NICAV70	NICAV010	A - AC	R - Residential/Local	8,250	29	29	269	269
NORAV10	NORAV011	A - AC	R - Residential/Local	15,000	90	90	424	424
NORAV20	NORAV010	A - AC	R - Residential/Local	4,960	79	79	417	417
NORAV30	NORAV010	A - AC	R - Residential/Local	9,900	80	80	380	380
NORAV40	NORAV010	A - AC	R - Residential/Local	36,000	92	92	191	193
	NORAV020	A - AC	R - Residential/Local	4,650	93		205	
OAKAV10	OAKAV010	A - AC	R - Residential/Local	4,350	88	88	538	538
OAKAV20	OAKAV011	A - AC	R - Residential/Local	20,100	47	47	462	462
ORCAV10	ORCAV010	O - AC/AC	R - Residential/Local	18,590	95	95	499	499
ORCAV20	ORCAV010	A - AC	R - Residential/Local	4,920	93	93	251	251
ORCHA10	ORCHA010	A - AC	R - Residential/Local	8,028	12	12	731	731
ORRAV10	ORRAV010	A - AC	R - Residential/Local	23,400	27	64	412	385
	ORRAV020	O - AC/AC	R - Residential/Local	24,120	95		252	
	ORRAV030	A - AC	R - Residential/Local	24,960	70		489	
PACST10	PACST010	A - AC	R - Residential/Local	6,860	90	87	292	406
	PACST020	A - AC	R - Residential/Local	20,640	86		399	
	PACST030	A - AC	R - Residential/Local	12,285	88		480	
PACST20	PACST010	A - AC	R - Residential/Local	9,230	67	60	683	718
	PACST020	A - AC	R - Residential/Local	19,240	65		765	
	PACST030	A - AC	R - Residential/Local	19,240	52		689	
PALCT10	PALCT010	A - AC	R - Residential/Local	18,720	62	62	363	363
PANAV10	PANAV011	O - AC/AC	R - Residential/Local	16,380	95	94	240	203

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
	PANAV031	O - AC/AC	R - Residential/Local	20,880	95		189	
	PANAV050	A - AC	R - Residential/Local	25,245	93		192	
	PANAV060	A - AC	R - Residential/Local	26,100	94		101	
	PANAV070	A - AC	R - Residential/Local	10,880	93		448	
PANAV20	PANAV010	A - AC	R - Residential/Local	31,320	93	93	418	389
	PANAV020	A - AC	R - Residential/Local	29,440	93		358	
PENDR10	PENDR010	A - AC	R - Residential/Local	20,960	74	74	428	428
PEPDR10	PEPDR011	A - AC	R - Residential/Local	12,400	67	67	512	512
PERDR10	PERDR010	A - AC	R - Residential/Local	6,400	70	70	341	341
PERDR20	PERDR010	A - AC	R - Residential/Local	4,000	74	74	462	462
PERST10	PERST010	A - AC	R - Residential/Local	16,200	80	81	423	244
	PERST021	A - AC	R - Residential/Local	29,600	81		146	
PERST20	PERST020	A - AC	R - Residential/Local	1,440	88	75	148	248
	PERST030	A - AC	R - Residential/Local	4,428	71		281	
PONAV10	PONAV011	A - AC	R - Residential/Local	18,000	93	93	267	267
PONAV20	PONAV011	A - AC	R - Residential/Local	13,400	75	75	350	350
PONAV30	PONAV010	A - AC	R - Residential/Local	7,680	92	92	210	210
PRIAV10	PRIAV010	A - AC	R - Residential/Local	24,480	65	62	170	196
	PRIAV020	A - AC	R - Residential/Local	7,840	53		276	
PRIAV20	PRIAV010	A - AC	R - Residential/Local	19,200	80	80	196	196
PRIAV30	PRIAV010	A - AC	R - Residential/Local	15,750	92	92	389	389
PROAV10	PROAV011	A - AC	R - Residential/Local	16,650	74	50	409	348
	PROAV030	A - AC	R - Residential/Local	7,280	25		550	
	PROAV041	A - AC	R - Residential/Local	17,250	86		405	
	PROAV061	A - AC	R - Residential/Local	16,800	28		212	
	PROAV080	A - AC	R - Residential/Local	7,280	28		201	
	PROAV091	A - AC	R - Residential/Local	16,500	33		343	
PROCT10	PROCT010	A - AC	R - Residential/Local	15,600	90	90	391	391

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
QUIST10	QUIST010	A - AC	R - Residential/Local	6,900	21	21	507	507
RADAV30	RADAV011	A - AC	R - Residential/Local	32,220	69	69	282	282
RADAV40	RADAV010	A - AC	R - Residential/Local	12,220	91	91	456	456
RADAV50	RADAV010	A - AC	R - Residential/Local	15,000	94	94	193	193
RADST10	RADST010	A - AC	R - Residential/Local	10,950	59	59	393	393
RADST20	RADST010	A - AC	R - Residential/Local	13,320	74	74	283	283
RADST30	RADST010	A - AC	R - Residential/Local	6,800	90	90	239	239
RAIAV10	RAIAV011	A - AC	R - Residential/Local	30,600	92	93	221	202
	RAIAV030	A - AC	R - Residential/Local	38,340	93		187	
RASAV10	RASAV010	A - AC	R - Residential/Local	9,240	89	89	276	276
RASAV20	RASAV010	A - AC	R - Residential/Local	9,960	78	78	253	253
RASAV30	RASAV010	A - AC	R - Residential/Local	5,280	48	48	545	545
RASAV40	RASAV010	A - AC	R - Residential/Local	18,980	93	93	139	139
RASAV50	RASAV010	A - AC	R - Residential/Local	7,260	93	93	313	313
RAVAV10	RAVAV010	A - AC	R - Residential/Local	27,020	63	63	376	376
RAVAV20	RAVAV010	A - AC	R - Residential/Local	43,260	94	94	434	434
RAVAV30	RAVAV010	A - AC	R - Residential/Local	3,410	91	91	672	672
RAVAV40	RAVAV011	A - AC	R - Residential/Local	31,680	94	94	343	343
RAVAV50	RAVAV010	A - AC	R - Residential/Local	22,350	83	83	341	341
RAVAV60	RAVAV010	A - AC	R - Residential/Local	24,915	94	94	343	391
	RAVAV020	A - AC	R - Residential/Local	21,760	94		445	
RAVAV70	RAVAV010	A - AC	R - Residential/Local	16,660	75	74	204	233
	RAVAV020	A - AC	R - Residential/Local	7,290	71		298	
REAST10	REAST011	A - AC	R - Residential/Local	17,280	93	93	282	282
REAST20	REAST011	A - AC	R - Residential/Local	14,850	78	82	387	385
	REAST030	A - AC	R - Residential/Local	20,640	84		416	
	REAST040	A - AC	R - Residential/Local	11,830	82		329	
REAST30	REAST010	A - AC	R - Residential/Local	9,585	92	82	664	557

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
	REAST020	A - AC	R - Residential/Local	17,685	93		610	
	REAST031	A - AC	R - Residential/Local	14,180	62		420	
RECREATION	RECREA010	A - AC	R - Residential/Local	33,880	72	72	221	221
REEAV10	REEAV010	A - AC	R - Residential/Local	35,860	18	18	520	520
REIAV10	REIAV010	O - AC/AC	R - Residential/Local	39,100	95	95	165	165
REIAV20	REIAV010	A - AC	R - Residential/Local	29,770	93	93	393	346
	REIAV020	A - AC	R - Residential/Local	12,220	93		232	
RENST10	RENST010	A - AC	R - Residential/Local	13,020	91	91	190	190
RENST20	RENST010	A - AC	R - Residential/Local	15,860	93	93	452	452
RENST30	RENST010	A - AC	R - Residential/Local	17,030	83	72	617	463
	RENST020	A - AC	R - Residential/Local	15,860	60		298	
RITST10	RITST010	A - AC	R - Residential/Local	3,900	80	80	688	688
ROADR10	ROADR010	A - AC	R - Residential/Local	11,220	88	88	182	182
ROBST10	ROBST010	A - AC	R - Residential/Local	4,185	77	77	763	763
ROBST20	ROBST010	A - AC	R - Residential/Local	4,480	69	69	721	721
RONAN10	RONAN010	A - AC	R - Residential/Local	1,116	44	44	693	693
RONAV10	RONAV010	A - AC	R - Residential/Local	10,200	30	30	398	398
RONAV20	RONAV010	A - AC	R - Residential/Local	5,330	29	29	546	546
RONAV30	RONAV011	A - AC	R - Residential/Local	20,340	92	93	132	164
	RONAV030	A - AC	R - Residential/Local	20,955	93		195	
RONAV40	RONAV010	A - AC	R - Residential/Local	8,140	84	84	474	474
ROSDR10	ROSDR010	A - AC	R - Residential/Local	7,200	81	81	330	330
ROSIT10	ROSIT010	A - AC	R - Residential/Local	1,440	72	72	660	660
SAGST10	SAGST012	A - AC	R - Residential/Local	27,360	88	88	164	164
SALAV10	SALAV011	O - AC/AC	R - Residential/Local	30,060	95	95	359	369
	SALAV012	A - AC	R - Residential/Local	2,700	94		176	
	SALAV041	O - AC/AC	R - Residential/Local	29,340	95		398	
SALDR10	SALDR010	A - AC	R - Residential/Local	8,680	91	91	405	405

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
SALMN10	SALMN010	A - AC	R - Residential/Local	2,064	91	91	676	676
SANAV20S	SANAV010	A - AC	A - Arterial	31,500	67	43	360	227
	SANAV020	A - AC	A - Arterial	36,720	47		189	
	SANAV030	A - AC	A - Arterial	39,000	44		120	
	SANAV041	A - AC	A - Arterial	34,600	31		191	
	SANAV061	A - AC	A - Arterial	43,200	14		373	
	SANAV101	A - AC	A - Arterial	43,560	25		218	
	SANAV140	A - AC	A - Arterial	18,360	93		196	
	SANAV150	A - AC	A - Arterial	48,450	55		167	
	SANAV160	A - AC	A - Arterial	3,120	25		308	
SANAV30	SANAV011	A - AC	R - Residential/Local	18,180	92	91	449	438
	SANAV031	A - AC	R - Residential/Local	20,700	92		379	
	SANAV050	A - AC	R - Residential/Local	5,700	86		618	
SANCT10	SANCT010	A - AC	R - Residential/Local	10,950	88	88	354	354
SANST10	SANST010	O - AC/AC	R - Residential/Local	60,720	95	68	131	159
	SANST020	A - AC	R - Residential/Local	22,440	94		198	
	SANST030	A - AC	R - Residential/Local	50,600	39		175	
	SANST040	A - AC	R - Residential/Local	16,280	18		161	
SANST20	SANST010	A - AC	MiA - Minor Arterial (4)	6,000	50	50	525	525
SCOAV10	SCOAV010	A - AC	R - Residential/Local	43,180	50	50	341	341
SCOAV20	SCOAV010	A - AC	R - Residential/Local	25,670	41	68	426	453
	SCOAV020	A - AC	R - Residential/Local	19,890	93		459	
	SCOAV030	A - AC	R - Residential/Local	8,190	93		521	
SCUCT20	SCUCT010	A - AC	R - Residential/Local	13,000	86	86	400	400
SEAAV10	SEAAV010	A - AC	R - Residential/Local	7,810	36	36	384	384
SELAV10	SELAV011	A - AC	R - Residential/Local	18,900	82	82	257	257
SELAV20	SELAV010	O - AC/AC	R - Residential/Local	19,600	95	95	296	296

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
SEPBL10E	SEPBL010	A - AC	A - Arterial	18,360	34	70	253	230
	SEPBL020	O - AC/AC	A - Arterial	90,610	85		287	
	SEPBL031	O - AC/AC	A - Arterial	59,200	88		318	
	SEPBL050	O - AC/AC	A - Arterial	22,000	93		85	
	SEPBL060	O - AC/AC	A - Arterial	82,440	93		119	
	SEPBL070	O - AC/AC	A - Arterial	28,000	94		160	
	SEPBL080	O - AC/AC	A - Arterial	27,600	86		142	
	SEPBL090	A - AC	A - Arterial	16,170	18		450	
	SEPBL100	A - AC	A - Arterial	22,935	52		323	
	SEPBL110	A - AC	A - Arterial	49,830	60		189	
	SEPBL120	A - AC	A - Arterial	25,740	71		276	
	SEPBL121	P - PCC	A - Arterial	9,900	83		110	
	SEPBL150	A - AC	A - Arterial	22,275	18		367	
	SEPBL160	A - AC	A - Arterial	46,200	42		235	
	SEPBL170	A - AC	A - Arterial	30,680	94		186	
	SEPBL171	P - PCC	A - Arterial	24,960	80		110	
	SEPBL180	A - AC	A - Arterial	33,800	27		299	
	SEPBL190	A - AC	A - Arterial	16,810	24		293	
SEPBL20W	SEPBL010	A - AC	A - Arterial	16,810	22	61	414	243
	SEPBL020	A - AC	A - Arterial	24,200	9		325	
	SEPBL030	A - AC	A - Arterial	5,980	55		250	
	SEPBL031	P - PCC	A - Arterial	28,600	72		110	
	SEPBL040	P - PCC	A - Arterial	23,760	92		110	
	SEPBL050	A - AC	A - Arterial	22,275	50		160	
	SEPBL060	A - AC	A - Arterial	70,950	34		271	
	SEPBL070	A - AC	A - Arterial	96,690	32		157	
	SEPBL080	A - AC	A - Arterial	23,430	22		448	
	SEPBL090	A - AC	A - Arterial	25,740	42		159	

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
	SEPBL100	A - AC	A - Arterial	22,935	24		211	
	SEPBL110	A - AC	A - Arterial	16,170	30		194	
	SEPBL121	A - AC	A - Arterial	55,600	93		522	
	SEPBL140	A - AC	A - Arterial	26,200	93		139	
	SEPBL150	A - AC	A - Arterial	59,200	92		101	
	SEPBL160	A - AC	A - Arterial	8,000	94		86	
	SEPBL170	A - AC	A - Arterial	34,480	93		55	
	SEPBL180	A - AC	A - Arterial	91,290	91		364	
	SEPBL190	A - AC	A - Arterial	15,980	48		348	
SHAST10	SHAST010	A - AC	R - Residential/Local	19,360	93	93	263	263
SHAST20	SHAST010	O - AC/AC	R - Residential/Local	19,350	95	95	453	453
SHEAV10	SHEAV010	A - AC	R - Residential/Local	9,600	29	34	572	559
	SHEAV020	A - AC	R - Residential/Local	5,920	42		539	
SHEAV20	SHEAV010	A - AC	R - Residential/Local	41,550	38	38	332	332
SHEAV30	SHEAV011	A - AC	R - Residential/Local	36,090	70	70	463	463
SHECR10	SHECR010	A - AC	R - Residential/Local	6,820	89	89	588	588
SHEDR20	SHEDR011	A - AC	R - Residential/Local	32,960	94	94	183	183
SILPL10	SILPL010	A - AC	R - Residential/Local	11,550	49	49	356	356
SPIST10	SPIST010	A - AC	R - Residential/Local	19,520	43	43	771	771
SUDCT10S	SUDCT011	A - AC	R - Residential/Local	12,625	82	82	308	308
SULCR10	SULCR010	A - AC	R - Residential/Local	9,350	77	77	593	593
SUSDR10	SUSDR011	A - AC	R - Residential/Local	21,400	65	65	381	381
SUSRD10	SUSRD010	A - AC	R - Residential/Local	13,200	32	32	727	727
SWOST10	SWOST011	A - AC	R - Residential/Local	23,250	77	77	298	298
TAJAV10	TAJAV010	A - AC	R - Residential/Local	17,640	94	87	154	236
	TAJAV020	A - AC	R - Residential/Local	31,500	93		160	
	TAJAV030	A - AC	R - Residential/Local	10,080	93		415	
	TAJAV040	A - AC	R - Residential/Local	9,000	43		462	

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
TAJAV20	TAJAV010	A - AC	R - Residential/Local	9,540	70	39	522	334
	TAJAV020	A - AC	R - Residential/Local	36,000	33		311	
	TAJAV030	A - AC	R - Residential/Local	12,000	33		252	
TAMAV10	TAMAV011	A - AC	R - Residential/Local	28,690	91	91	257	257
TANAV10	TANVA010	A - AC	R - Residential/Local	7,040	54	54	529	529
TANCT10	TANCT010	A - AC	R - Residential/Local	10,950	82	82	435	435
TARAV10	TARAV010	A - AC	R - Residential/Local	11,500	91	92	351	365
	TARAV020	A - AC	R - Residential/Local	6,210	93		391	
THODR10	THODR010	A - AC	R - Residential/Local	19,800	70	70	214	214
TILAV10	TILAV010	A - AC	R - Residential/Local	35,200	86	86	249	249
TILAV20	TILAV010	A - AC	R - Residential/Local	6,930	83	93	299	133
	TILAV020	A - AC	R - Residential/Local	43,890	94		107	
TILAV30	TILAV010	A - AC	R - Residential/Local	10,980	93	93	214	214
TILAV40	TILAV010	O - AC/AC	R - Residential/Local	38,350	95	95	434	434
TILAV50	TILAV010	A - AC	R - Residential/Local	10,660	82	82	355	355
TORBL10	TORBL010	A - AC	R - Residential/Local	42,300	40	45	485	332
	TORBL020	A - AC	R - Residential/Local	56,400	43		215	
	TORBL031	A - AC	R - Residential/Local	19,080	46		426	
	TORBL055	A - AC	R - Residential/Local	11,160	75		186	
TOWAV10	TOWAV010	A - AC	R - Residential/Local	29,700	63	86	418	365
	TOWAV020	O - AC/AC	R - Residential/Local	31,845	95		391	
	TOWAV031	O - AC/AC	R - Residential/Local	17,460	95		466	
	TOWAV050	O - AC/AC	R - Residential/Local	28,620	95		221	
TOWCT10	TOWCT010	A - AC	R - Residential/Local	6,075	47	47	415	415
TROLN10	TROLN011	A - AC	R - Residential/Local	22,050	56	56	434	434
TURST10	TURST010	O - AC/AC	R - Residential/Local	6,480	85	82	315	197
	TURST021	O - AC/AC	C - Collector	31,860	92		151	
	TURST051	O - AC/AC	C - Collector	30,450	93		227	

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
	TURST081	O - AC/AC	C - Collector	31,500	93		202	
	TURST111	O - AC/AC	C - Collector	14,940	93		157	
	TURST131	O - AC/AC	C - Collector	25,110	92		135	
	TURST160	O - AC/AC	C - Collector	20,512	32		232	
	TURST171	O - AC/AC	C - Collector	25,020	37		269	
	TURST250	A - AC	R - Residential/Local	8,800	93		245	
	TURST282	A - AC	R - Residential/Local	17,600	93		200	
	TURST300	A - AC	R - Residential/Local	30,240	92		162	
	TURST320	O - AC/AC	R - Residential/Local	9,720	95		139	
	TURST330	A - AC	R - Residential/Local	11,340	92		226	
TURST20	TURST030	A - AC	R - Residential/Local	8,800	94	80	155	198
	TURST071	A - AC	R - Residential/Local	17,440	92		186	
	TURST101	A - AC	R - Residential/Local	10,900	57		212	
	TURST121	A - AC	R - Residential/Local	21,600	81		175	
	TURST140	A - AC	R - Residential/Local	6,600	63		341	
TYLST10	TYLST010	A - AC	R - Residential/Local	11,440	33	55	371	431
	TYLST020	A - AC	R - Residential/Local	31,050	81		473	
	TYLST030	A - AC	R - Residential/Local	29,380	36		410	
TYLST20	TYLST010	A - AC	R - Residential/Local	12,220	50	50	361	361
UNIDR10E	UNIDR010	A - AC	MiA - Minor Arterial (4)	28,350	22	22	290	226
	UNIDR021	A - AC	MiA - Minor Arterial (4)	57,150	22		175	
	UNIDR050	A - AC	MiA - Minor Arterial (4)	15,450	19		256	
	UNIDR060	A - AC	MiA - Minor Arterial (4)	36,300	24		202	
	UNIDR070	A - AC	MiA - Minor Arterial (4)	26,850	37		183	
	UNIDR080	A - AC	MiA - Minor Arterial (4)	29,160	15		250	
	UNIDR090	A - AC	MiA - Minor Arterial (4)	38,160	20		191	
	UNIDR100	A - AC	MiA - Minor Arterial (4)	34,200	19		323	
UNIDR20W	UNIDR010	A - AC	MiA - Minor Arterial (4)	42,750	33	29	292	213

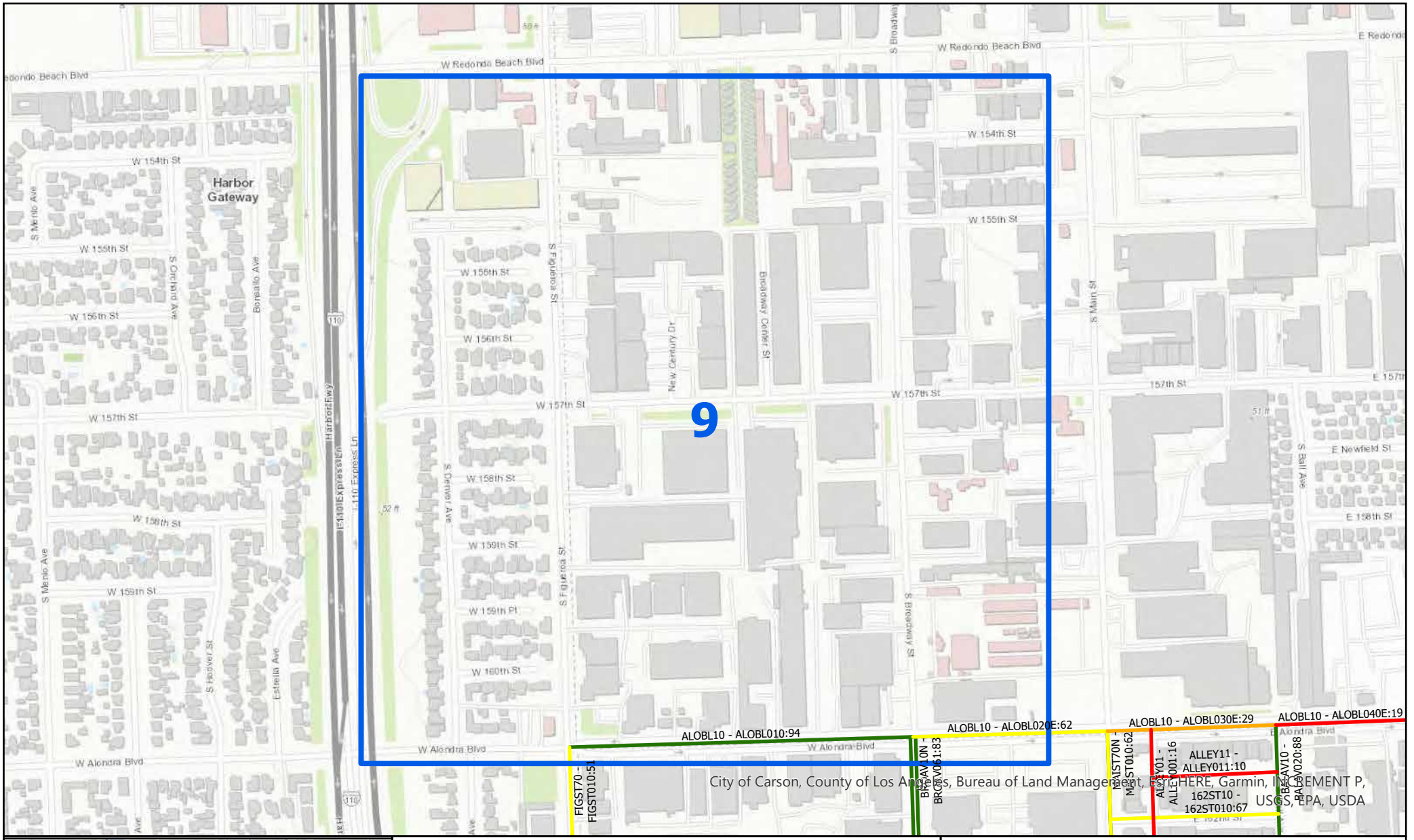
BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
	UNIDR020	A - AC	MiA - Minor Arterial (4)	11,400	49		182	
	UNIDR030	A - AC	MiA - Minor Arterial (4)	36,450	51		141	
	UNIDR040	A - AC	MiA - Minor Arterial (4)	26,850	25		224	
	UNIDR050	A - AC	MiA - Minor Arterial (4)	36,300	30		138	
	UNIDR060	A - AC	MiA - Minor Arterial (4)	15,450	24		143	
	UNIDR070	A - AC	MiA - Minor Arterial (4)	24,900	16		212	
	UNIDR080	A - AC	MiA - Minor Arterial (4)	15,000	13		195	
	UNIDR091	A - AC	MiA - Minor Arterial (4)	45,600	21		287	
UTIWY10	UTIWY010	A - AC	R - Residential/Local	59,360	29	29	361	361
	VANST010	A - AC	R - Residential/Local	16,510	87		473	
	VANST020	A - AC	R - Residential/Local	27,690	36		431	
VANST10	VANST030	A - AC	R - Residential/Local	25,090	43	55	110	333
	VANST041	A - AC	R - Residential/Local	28,000	58		329	
	VANST070	A - AC	R - Residential/Local	5,056	91		471	
	VERST011	A - AC	R - Residential/Local	34,800	43		188	
	VERST030	A - AC	R - Residential/Local	20,800	94		336	
VERST10	VERST040	A - AC	R - Residential/Local	24,115	85	67	184	213
	VERST050	A - AC	R - Residential/Local	23,850	66		149	
	VERST060	A - AC	R - Residential/Local	36,045	64		228	
	VICST010	O - AC/AC	A - Arterial	37,455	69		369	
	VICST020	O - AC/AC	A - Arterial	37,455	72		382	
	VICST030	O - AC/AC	A - Arterial	28,842	80		333	
	VICST041	O - AC/AC	A - Arterial	75,570	85		199	
VICST10E	VICST070	A - AC	A - Arterial	60,600	71	48	353	282
	VICST080	A - AC	A - Arterial	45,400	32		127	
	VICST090	A - AC	A - Arterial	95,540	39		185	
	VICST100	A - AC	A - Arterial	172,200	32		374	
	VICST110	A - AC	A - Arterial	11,550	33		166	

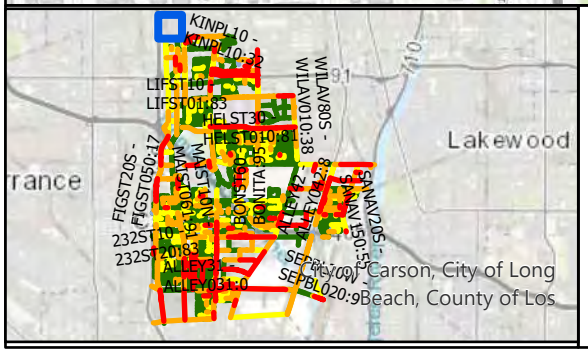
BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
	VICST120	A - AC	A - Arterial	70,770	20		220	
VICST20W	VICST010	A - AC	A - Arterial	95,540	53	72	283	250
	VICST020	A - AC	A - Arterial	45,400	33		216	
	VICST030	A - AC	A - Arterial	58,600	83		231	
	VICST040	A - AC	A - Arterial	12,870	94		303	
	VICST050	A - AC	A - Arterial	40,095	88		174	
	VICST060	A - AC	A - Arterial	23,100	93		174	
	VICST071	A - AC	A - Arterial	18,315	94		152	
	VICST080	A - AC	A - Arterial	37,620	87		264	
	VICST090	A - AC	A - Arterial	34,485	90		390	
VISAV10	VISAV010	A - AC	R - Residential/Local	17,500	92	92	234	234
WADAV10	WADAV011	A - AC	R - Residential/Local	38,000	77	77	391	391
WADAV20	WADAV010	A - AC	R - Residential/Local	33,300	56	56	264	264
WADAV30	WADAV010	A - AC	R - Residential/Local	30,720	93	93	201	221
	WADAV020	A - AC	R - Residential/Local	14,880	93		262	
WALST10W	WALST020	C - AC/PCC	MiA - Minor Arterial (4)	59,200	94	94	110	110
WALST20E	WALST020	O - AC/AC	MiA - Minor Arterial (4)	41,400	94	94	334	334
WALST30E	WALST010	A - AC	R - Residential/Local	7,200	81	87	401	225
	WALST020	A - AC	R - Residential/Local	33,925	93		198	
	WALST030	A - AC	R - Residential/Local	10,350	73		192	
WALST40W	WALST010	A - AC	MiA - Minor Arterial (4)	60,900	39	20	149	206
	WALST020	A - AC	MiA - Minor Arterial (4)	115,200	16		143	
	WALST030	A - AC	MiA - Minor Arterial (4)	68,700	12		202	
	WALST040	A - AC	MiA - Minor Arterial (4)	58,500	20		394	
WALST50	WALST010	A - AC	R - Residential/Local	8,802	85	85	403	403
WALST60	WALST010	A - AC	R - Residential/Local	7,155	50	50	362	362
WALST70	WALST010	A - AC	R - Residential/Local	26,055	92	92	358	358
WALST80	WALST010	A - AC	R - Residential/Local	26,730	95	92	216	351

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
	WALST021	A - AC	R - Residential/Local	20,340	89		528	
WASST10	WASST010	A - AC	R - Residential/Local	30,160	29	36	395	361
	WASST020	A - AC	R - Residential/Local	27,300	33		295	
	WASST030	A - AC	R - Residential/Local	12,780	61		421	
WATRD10	WATRD010	A - AC	C - Collector	75,600	41	55	592	482
	WATRD020	O - AC/AC	C - Collector	69,440	94		292	
	WATRD030	A - AC	C - Collector	75,600	35		376	
	WATRD040	A - AC	C - Collector	76,720	52		649	
WATST10	WATST011	A - AC	R - Residential/Local	22,680	92	90	153	209
	WATST030	A - AC	R - Residential/Local	8,320	85		361	
WATST20	WATST010	A - AC	R - Residential/Local	9,120	57	65	206	198
	WATST020	A - AC	R - Residential/Local	9,440	56		126	
	WATST030	A - AC	R - Residential/Local	8,800	82		267	
WATST30	WATST010	A - AC	R - Residential/Local	40,960	71	71	293	293
WEIAV10	WEIAV010	A - AC	R - Residential/Local	16,640	68	70	539	420
	WEIAV020	A - AC	R - Residential/Local	17,655	75		343	
	WEIAV030	A - AC	R - Residential/Local	5,940	60		314	
WEIAV40	WEIAV010	A - AC	R - Residential/Local	23,400	86	86	280	280
WELAV10	WELAV010	A - AC	R - Residential/Local	17,600	44	44	368	368
WESTW10	WESTW010	A - AC	R - Residential/Local	5,364	73	73	747	747
WILAV100S	WILAV011	A - AC	A - Arterial	93,200	46	56	265	219
	WILAV041	A - AC	A - Arterial	99,400	58		193	
	WILAV070	A - AC	A - Arterial	35,400	78		170	
WILAV10S	WILAV010	A - AC	A - Arterial	98,260	84	81	356	226
	WILAV020	A - AC	A - Arterial	58,800	85		179	
	WILAV030	A - AC	A - Arterial	55,860	90		119	
	WILAV060	A - AC	A - Arterial	49,400	60		146	
WILAV20N	WILAV021	A - AC	A - Arterial	30,008	18	18	369	369

BranchID	SectionID	Surface	Rank	Area (Sq. ft)	Section PCI	Branch PCI	Section IRI (In/In)	Branch IRI (In/In)
WILAV30N	WILAV030	A - AC	A - Arterial	56,950	17	23	271	291
	WILAV040	A - AC	A - Arterial	48,450	18		280	
	WILAV050	A - AC	A - Arterial	69,530	32		315	
WILAV40S	WILAV041	A - AC	A - Arterial	65,280	32	32	239	239
WILAV50N	WILAV010	A - AC	A - Arterial	28,110	44	32	503	331
	WILAV020	A - AC	A - Arterial	17,480	27		246	
	WILAV030	A - AC	A - Arterial	20,559	21		169	
WILAV60S	WILAV011	A - AC	A - Arterial	44,670	37	37	419	419
WILAV80S	WILAV010	A - AC	A - Arterial	105,630	38	46	333	319
	WILAV020	A - AC	A - Arterial	79,400	57		300	
WINDR10	WINDR10	A - AC	R - Residential/Local	9,000	89	89	237	237

APPENDIX B Maps



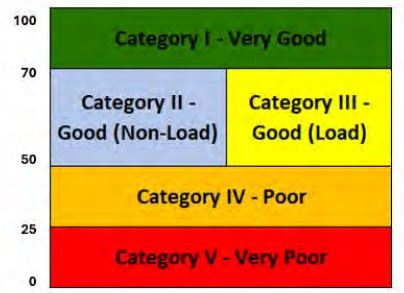


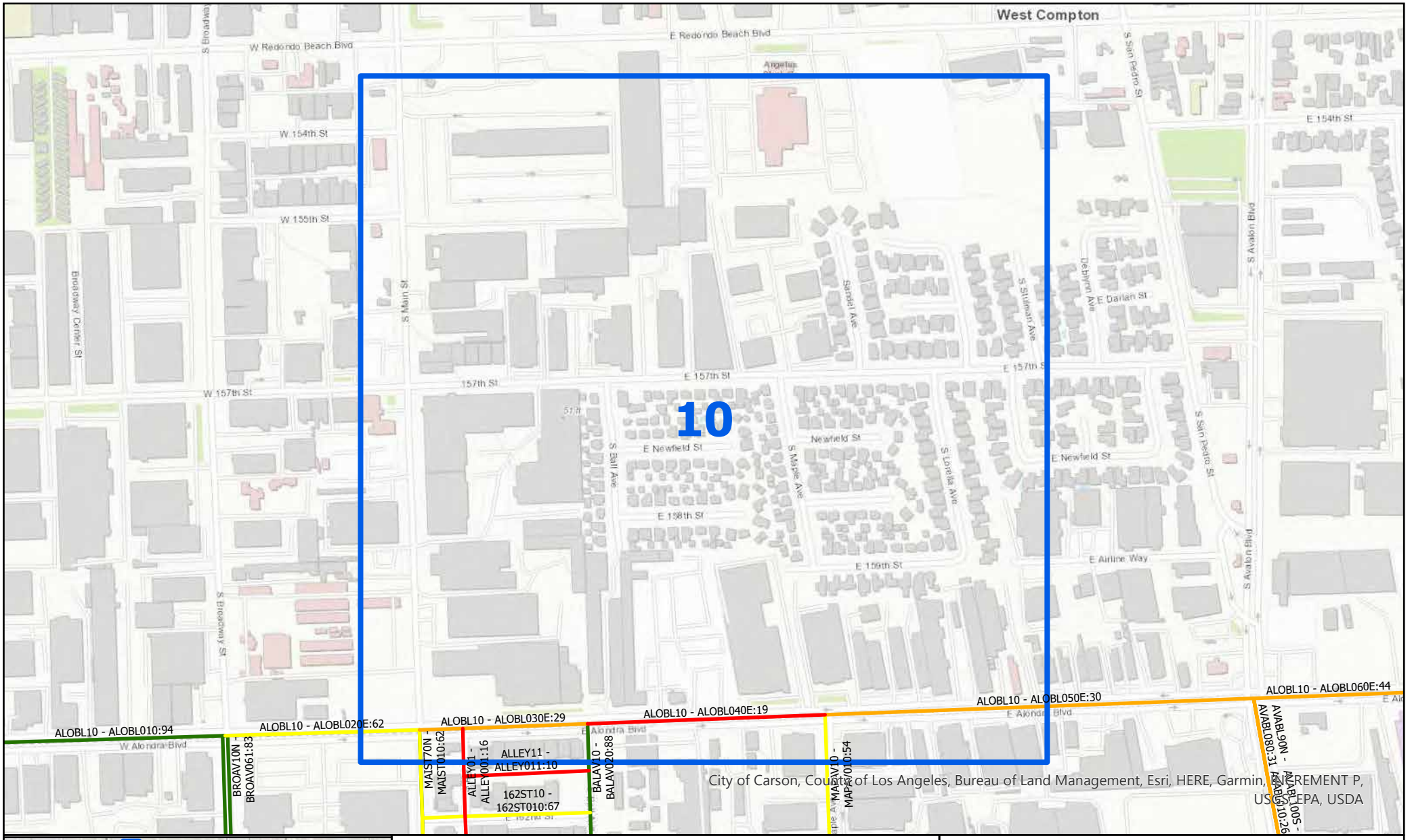
CITY OF CARSON
The Jewel of the South Bay

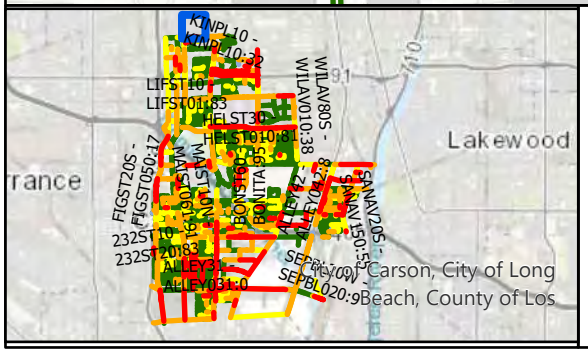
NEW MEXICO ARA

N

0 0.04 0.09 0.17 0.26 0.34 Miles







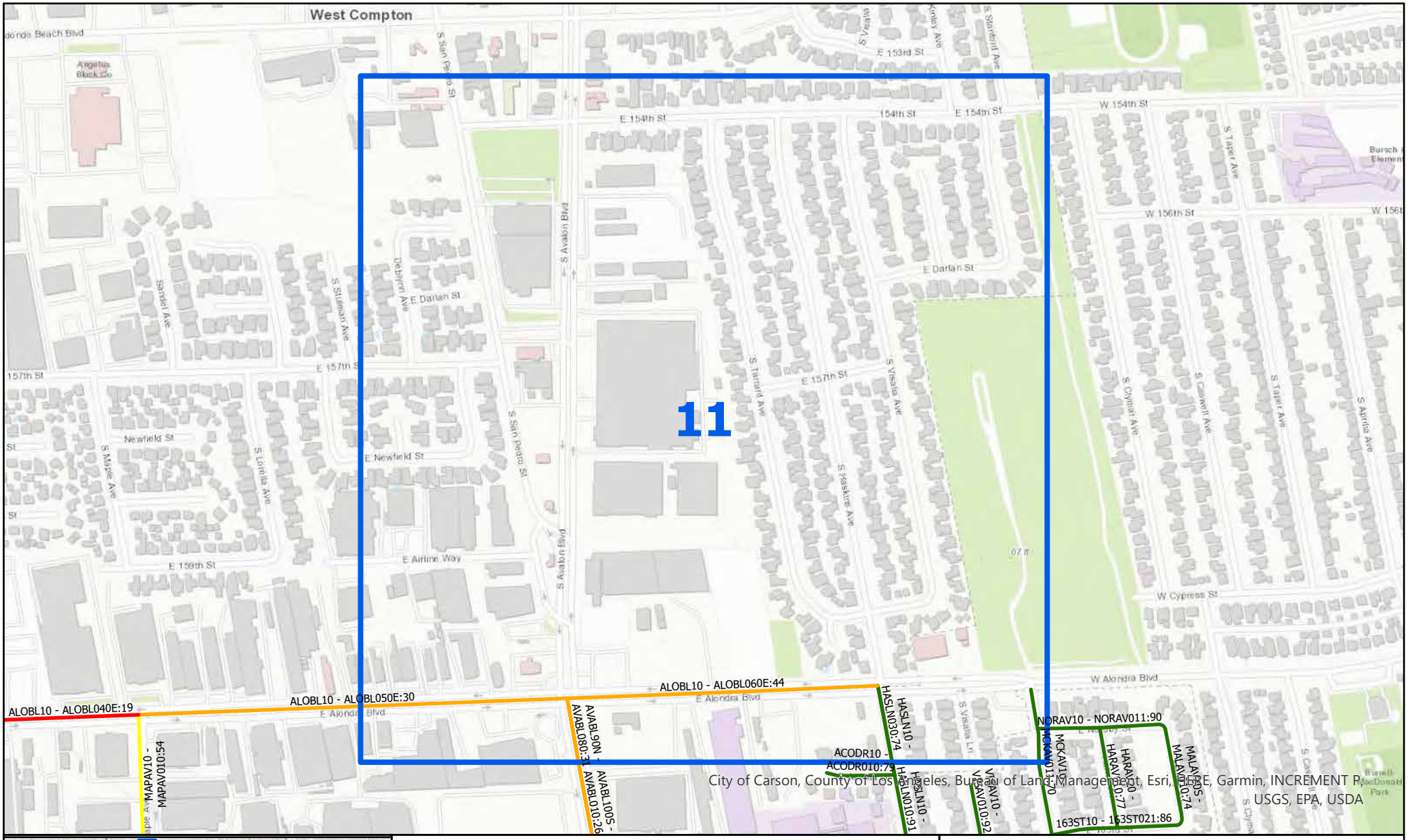
CITY OF CARSON
The Jewel of the South Bay

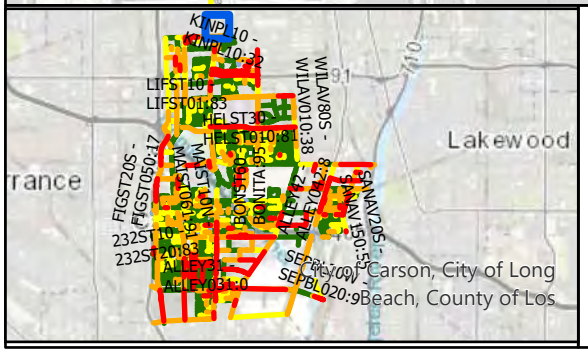
NEW MEXICO ARA

N

0 0.04 0.09 0.17 0.26 0.34 Miles

100	Category I - Very Good
70	Category II - Good (Non-Load) / Category III - Good (Load)
50	Category IV - Poor
25	Category V - Very Poor
0	





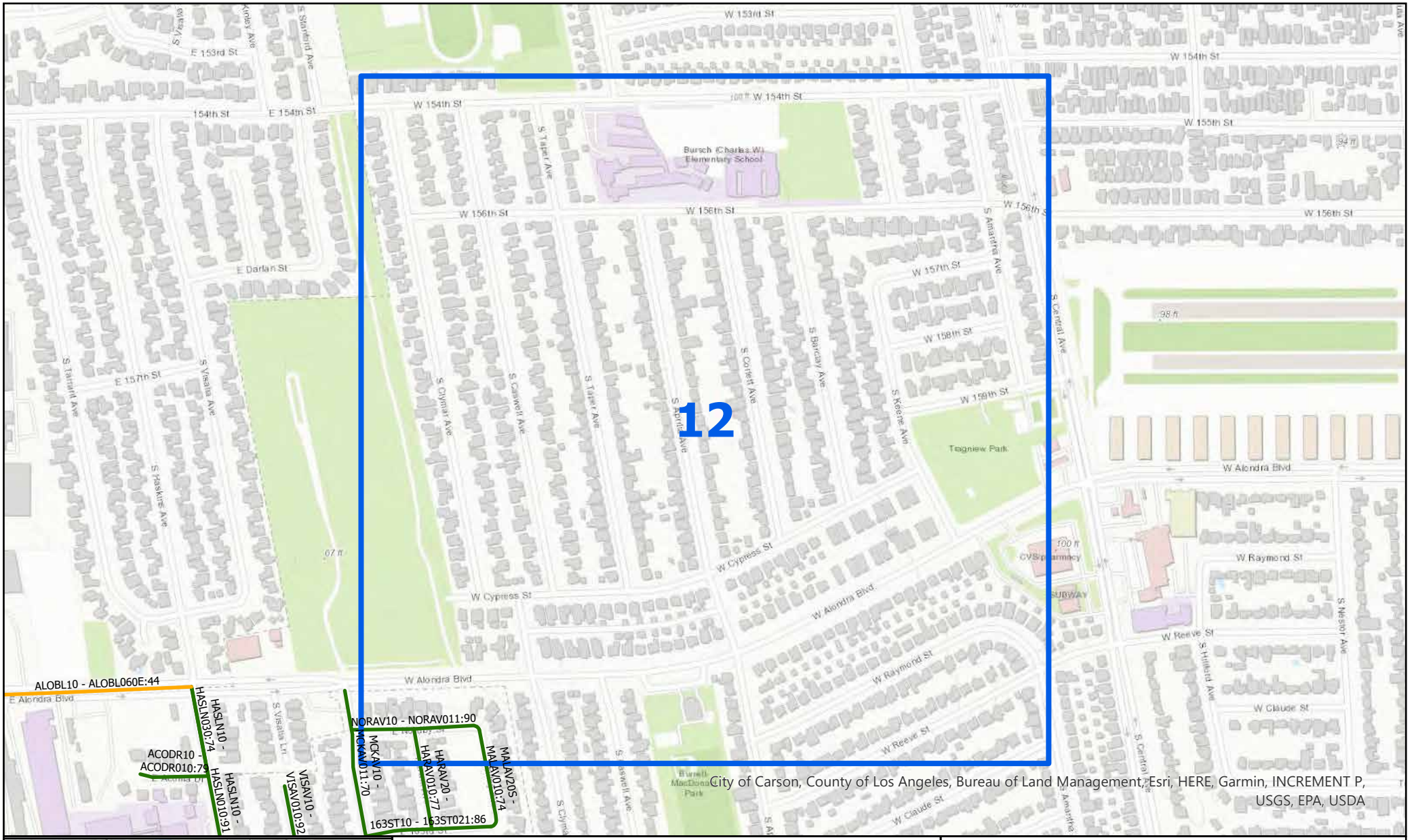
CITY OF CARSON
The Jewel of the South Bay

NEW MEXICO ARA

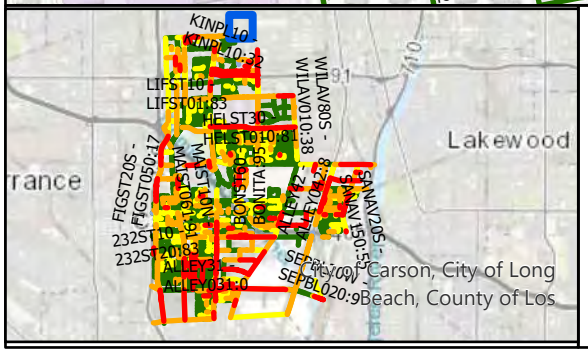
N

0 0.04 0.09 0.17 0.26 0.34 Miles

100	Category I - Very Good
70	Category II - Good (Non-Load) / Category III - Good (Load)
50	Category IV - Poor
25	Category V - Very Poor
0	



City of Carson, County of Los Angeles, Bureau of Land Management, Esri, HERE, Garmin, INCREMENT P, USGS, EPA, USDA



Carson, City of Long Beach, County of Los

CITY OF CARSON
The Jewel of the South Bay

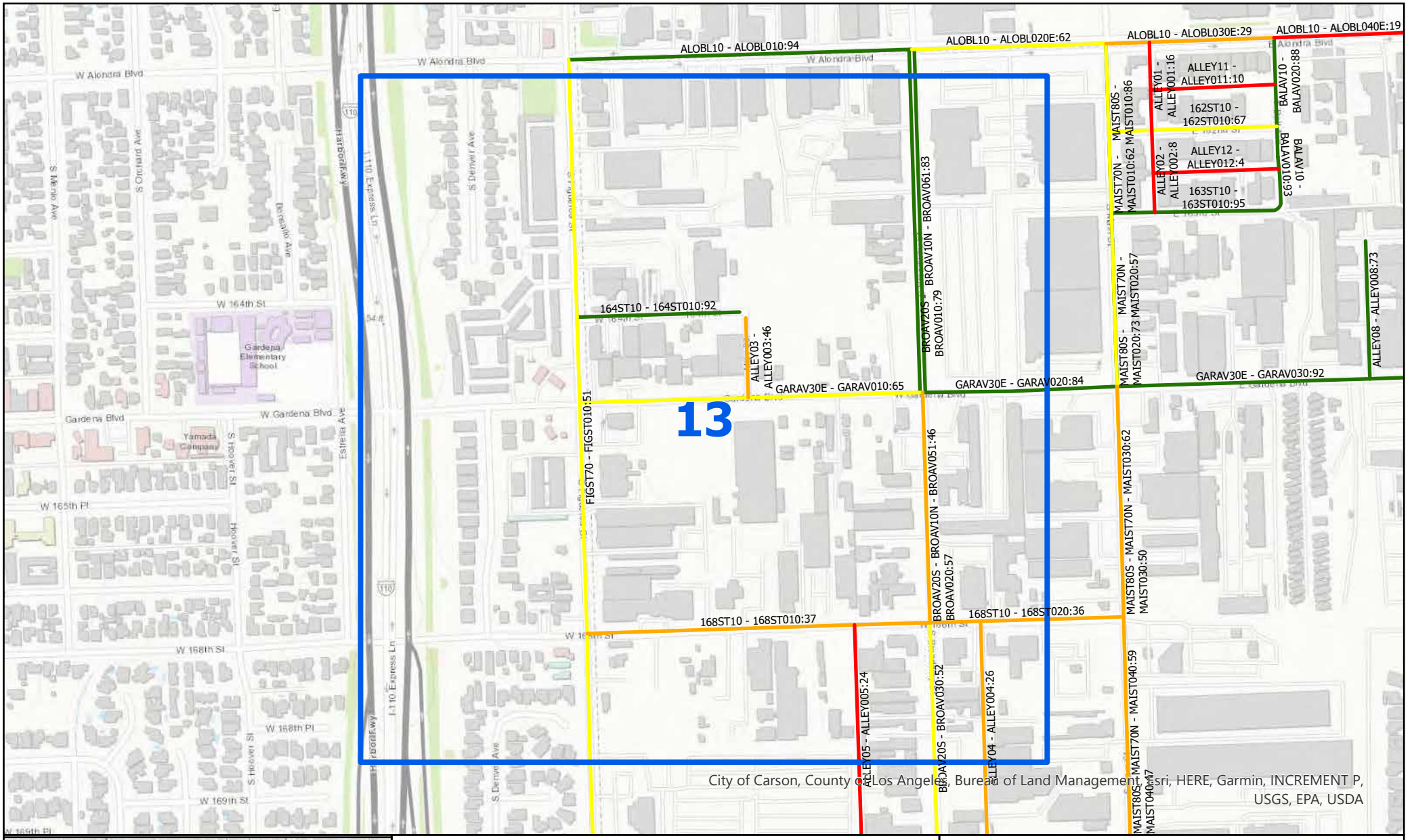
NEW MEXICO ARA

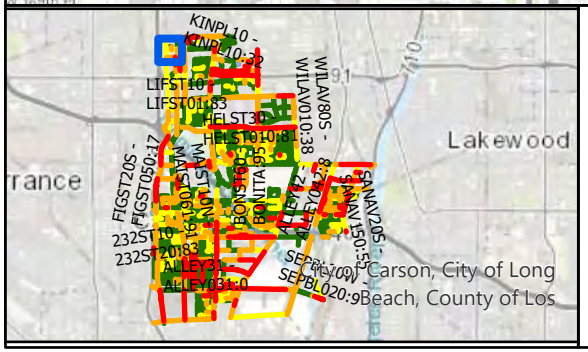
N

0 0.04 0.09 0.17 0.26 0.34 Miles

100
70
50
25
0

Category I - Very Good
Category II - Good (Non-Load)
Category III - Good (Load)
Category IV - Poor
Category V - Very Poor





CITY OF CARSON
The Jewel of the South Bay

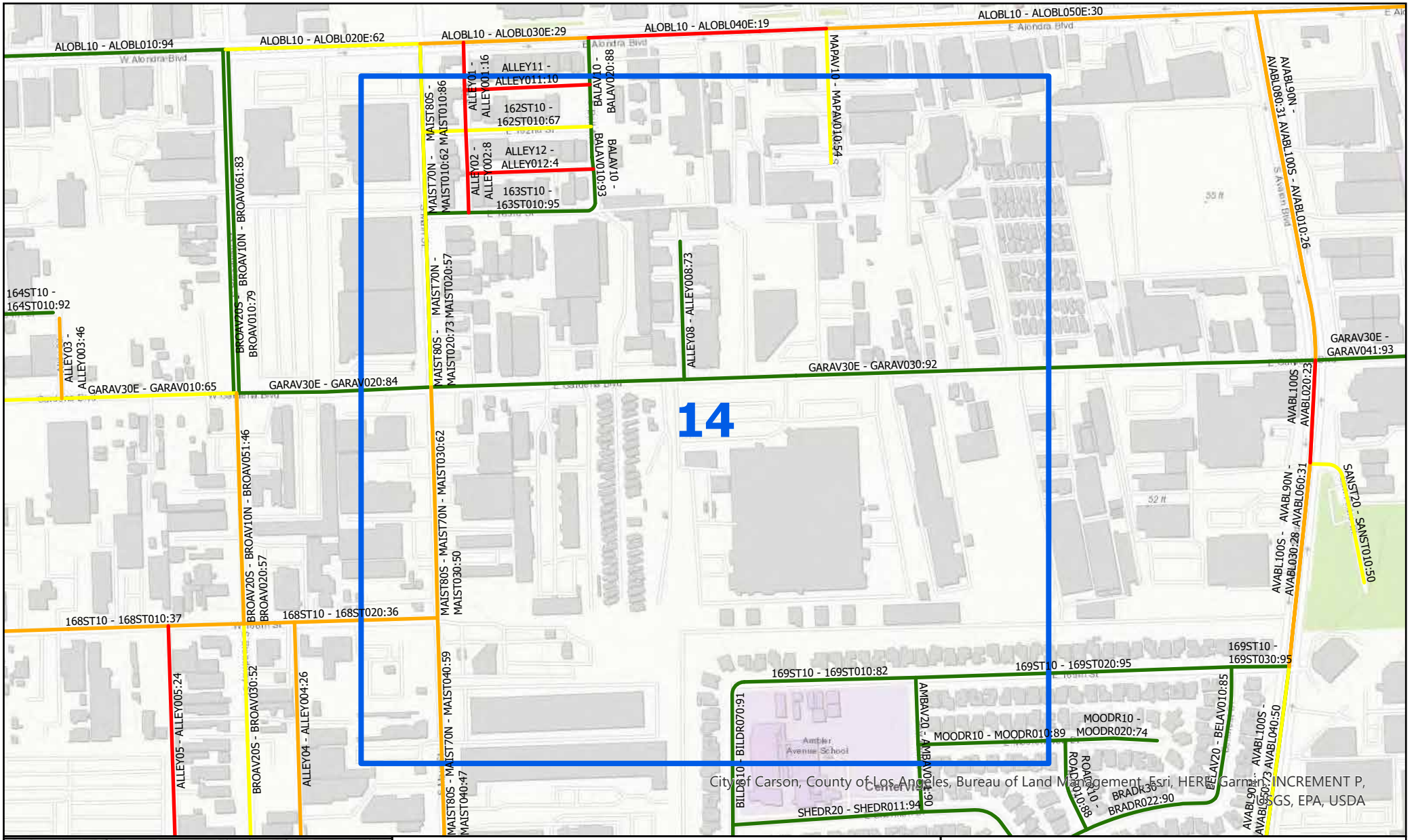
NEW MEXICO ARA

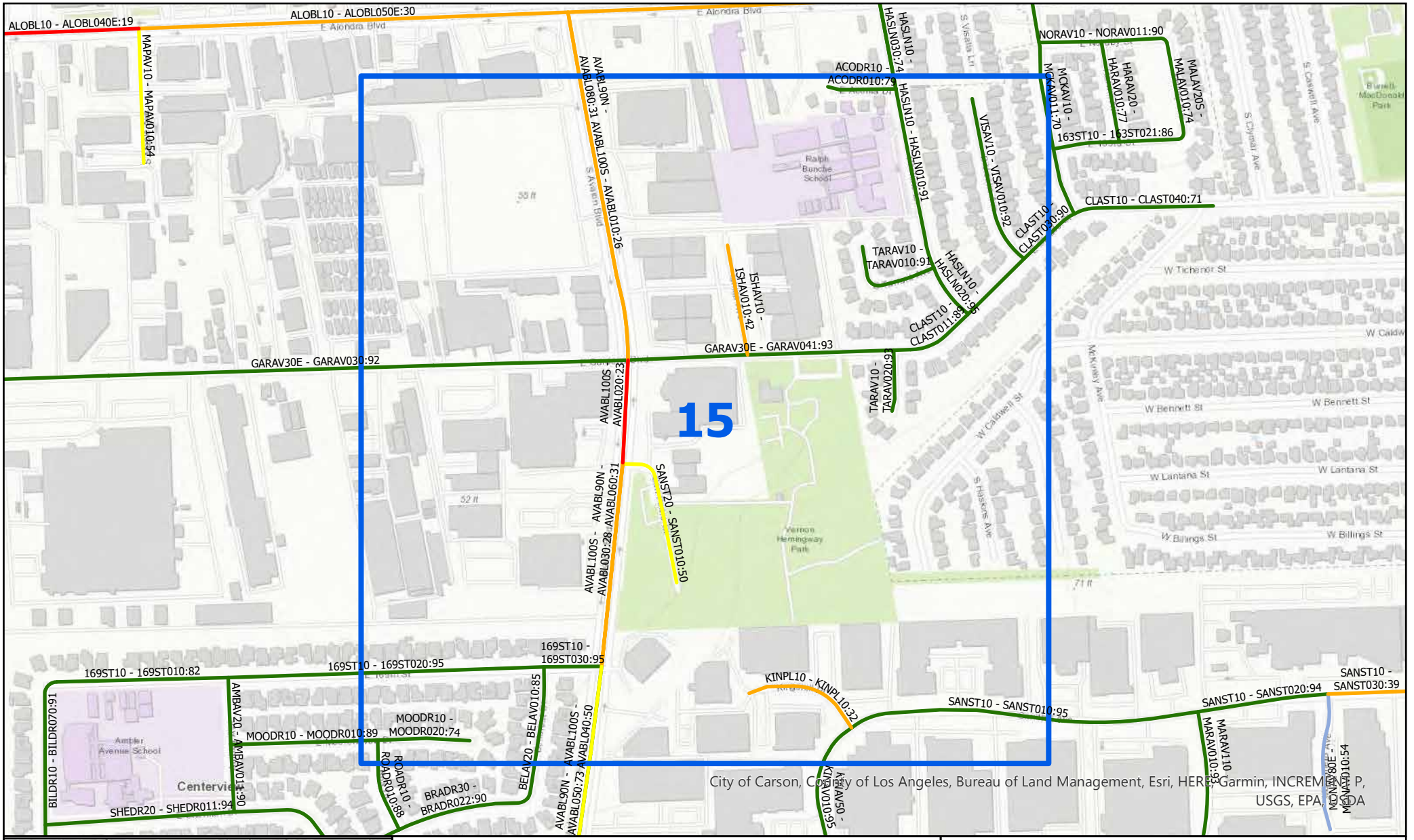
0 0.04 0.09 0.17 0.26 0.34 Miles

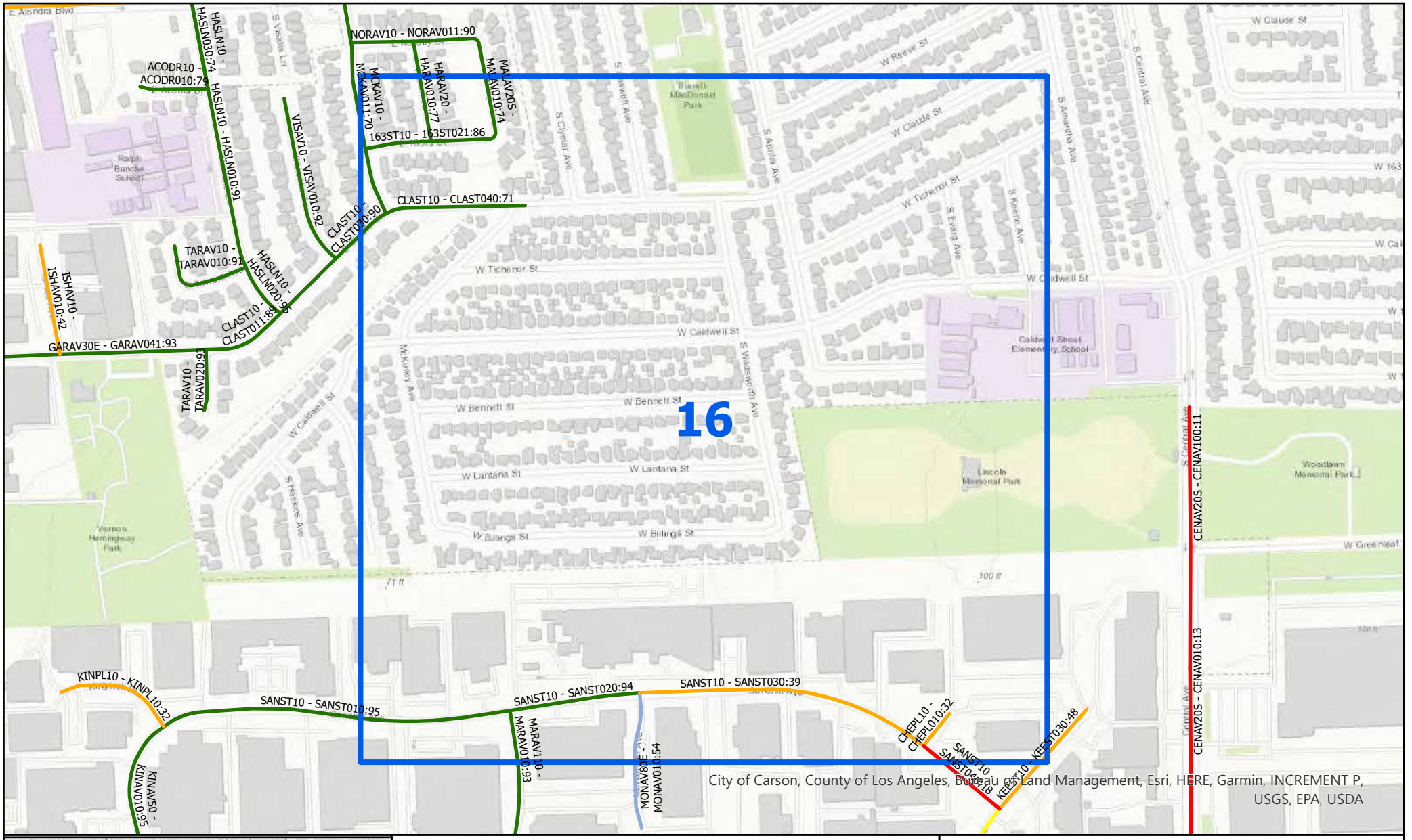
N

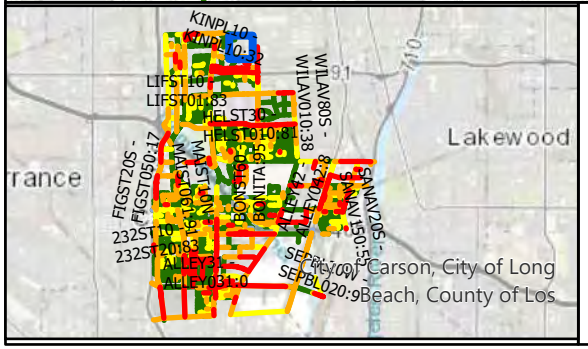
Category I - Very Good	
Category II - Good (Non-Load)	Category III - Good (Load)
Category IV - Poor	
Category V - Very Poor	

100 70 50 25 0


ALOBL10 - ALOBL010:94
ALOBL10 - ALOBL020E:62
ALOBL10 - ALOBL030E:29
ALOBL10 - ALOBL040E:19
ALOBL10 - ALOBL050E:30
ALLEY11 - ALLEY011:10
162ST10 - 162ST010:67
ALLEY12 - ALLEY012:4
163ST10 - 163ST010:95
MAIST70N - MAIST010:62
MAIST80S - MAIST010:86
ALLEY01 - ALLEY001:16
ALLEY02 - ALLEY002:8
BALAV10 - BALAV020:88
BALAV10 - BALAV010:93
MAPAV10 - MAPAV010:54
AVABL90N - AVABL080:31
AVABL100S - AVABL010:26
164ST10 - 164ST010:92
ALLEY03 - ALLEY003:46
BROAV20S - BROAV10N - BROAV061:83
BROAV20S - BROAV010:79
GARAV30E - GARAV010:65
GARAV30E - GARAV020:84
MAIST80S - MAIST70N - MAIST020:73
MAIST70N - MAIST020:57
ALLEY08 - ALLEY008:73
GARAV30E - GARAV030:92
GARAV30E - GARAV041:93
AVABL100S - AVABL020:23
14
AVABL100S - AVABL030:28
AVABL90N - AVABL060:31
SANST20 - SANST010:50
168ST10 - 168ST010:37
168ST10 - 168ST020:36
BROAV20S - BROAV10N - BROAV051:46
BROAV20S - BROAV020:57
MAIST80S - MAIST70N - MAIST030:62
MAIST80S - MAIST030:50
ALLEY05 - ALLEY005:24
BROAV20S - BROAV030:52
ALLEY04 - ALLEY004:26
MAIST80S - MAIST70N - MAIST040:59
MAIST040:47
169ST10 - 169ST010:82
169ST10 - 169ST020:95
169ST10 - 169ST030:95
BILDR10 - BILDR070:91
AMBAV20 - AMBAV030:90
MOODR10 - MOODR010:89
MOODR10 - MOODR020:74
ROADR10 - ROADR010:88
BRADR30 - BRADR022:90
BELAV20 - BELAV010:85
AVABL100S - AVABL040:50
AVABL90N - AVABL050:73
SHEDR20 - SHEDR011:94
Ambler Avenue School
Centervisit
City of Carson, County of Los Angeles, Bureau of Land Management, Esri, HERE, Garmin, INCREMENT P, USGS, EPA, USDA
KINPL10 - KINPL010:22
LIFST10 - LIFST010:83
HELST30 - HELST010:8
WILAV10S - WILAV010:38
FIGST20S - FIGST050:17
232ST10 - 232ST010:83
ALLEY31 - ALLEY031:10
BONST10 - BONST010:95
SEPBL20S - SEPBL020:9
SANAV20S - SANAV010:55
Lakewood
rance
Carson, City of Long Beach, County of Los
CITY OF CARSON
The Jewel of the South Bay
NEW MEXICO ARA
N
0 0.04 0.09 0.17 0.26 0.34
Miles
100
70
50
25
0
Category I - Very Good
Category II - Good (Non-Load)
Category III - Good (Load)
Category IV - Poor
Category V - Very Poor


15
ALOBL10 - ALOBL040E:19
ALOBL10 - ALOBL050E:30
E Alondra Blvd
MAPAV10 - MAPAV010:54
AVABL90N - AVABL080:31
AVABL100S - AVABL010:26
HASLN10 - HASLN030:74
ACODR10 - ACODR010:79
HASLN10 - HASLN010:91
NORAV10 - NORAV011:90
MCKAV10 - MCKAV011:70
HARAV20 - HARAV010:77
MALAV205 - MALAV010:74
163ST10 - 163ST021:86
VISAV10 - VISAV010:92
CLAST10 - CLAST030:90
CLAST040:71
TARAV10 - TARAV010:91
HASLN10 - HASLN020:91
ISHAV10 - ISHAV010:42
CLAST10 - CLAST011:81
GARAV30E - GARAV041:93
GARAV30E - GARAV030:92
AVABL100S - AVABL020:23
TARAV10 - TARAV020:93
AVABL90N - AVABL060:31
AVABL100S - AVABL030:28
SANST20 - SANST010:50
169ST10 - 169ST030:95
169ST10 - 169ST020:95
169ST10 - 169ST010:82
BILDR10 - BILDR070:91
AMBAV20 - AMBAV011:90
MOODR10 - MOODR010:89
MOODR10 - MOODR020:74
ROADR10 - ROADR010:88
BRADR30 - BRADR022:90
BELAV20 - BELAV010:85
AVABL90N - AVABL050:73
AVABL100S - AVABL040:50
SHEDR20 - SHEDR011:94
KINPL10 - KINPL10:32
SANST10 - SANST020:94
SANST10 - SANST030:39
SANST10 - SANST010:95
MARAV110 - MARAV010:91
KINAV50 - KINAV010:95
MONAV10 - MONAV010:54
Antler Avenue School
Centervie
Ralph Bunche School
Vernon Hemingway Park
Barnett MacDonald Park
W Tichenor St
W Caldwell St
W Bennett St
W Lantana St
W Billings St
S Caswell Ave
S Haskins Ave
McKinley Ave
S Avalon Blvd
S Crystal Ave
S Visalia Ln
55 ft
52 ft
71 ft
City of Carson, County of Los Angeles, Bureau of Land Management, Esri, HERE, Garmin, INCREMENT P, USGS, EPA, NPS
KINPL10 - KINPL10:32
WILAV80S - WILAV010:38
LIFST10 - LIFST010:83
HELST30 - HELST010:87
FIGST20S - FIGST050:17
232ST10 - 232ST020:83
ALLEY31 - ALLEY031:10
BONST10 - BONST010:95
SANAV20S - SANAV150:55
SEPBL20 - SEPBL020:95
Lakewood
rance
Carson, City of Long Beach, County of Los
CITY OF CARSON
The Jewel of the South Bay
NEW MEXICO ARA
0 0.04 0.09 0.17 0.26 0.34
Miles
N
100
70
50
25
0
Category I - Very Good
Category II - Good (Non-Load)
Category III - Good (Load)
Category IV - Poor
Category V - Very Poor





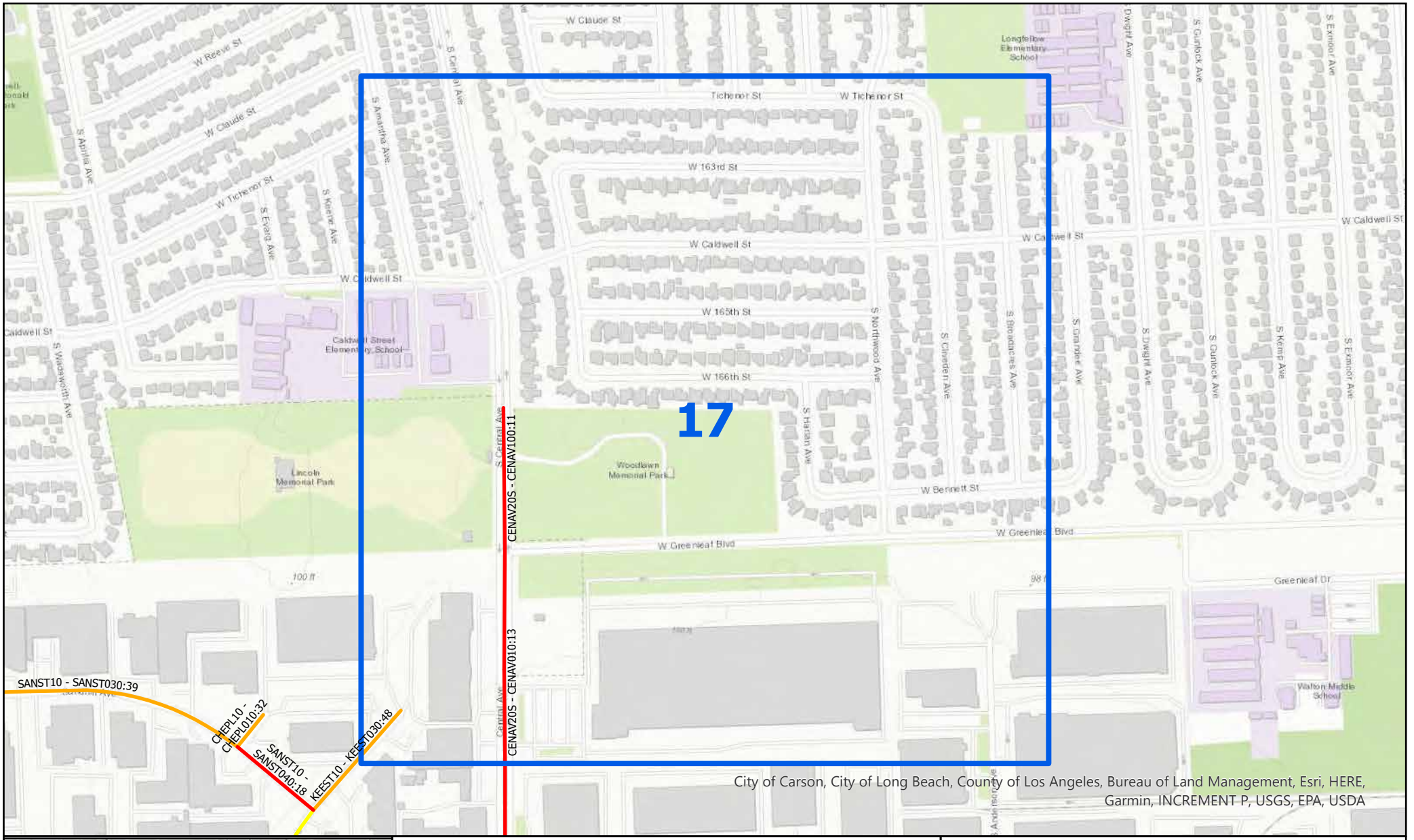
CITY OF CARSON
The Jewel of the South Bay

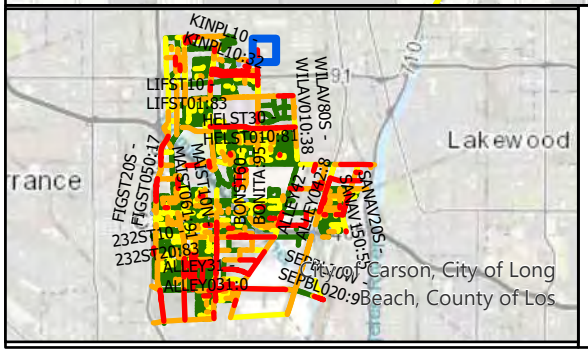
NEW MEXICO ARA

N

0 0.04 0.09 0.17 0.26 0.34 Miles

100	Category I - Very Good
70	Category II - Good (Non-Load) / Category III - Good (Load)
50	Category IV - Poor
25	Category V - Very Poor
0	





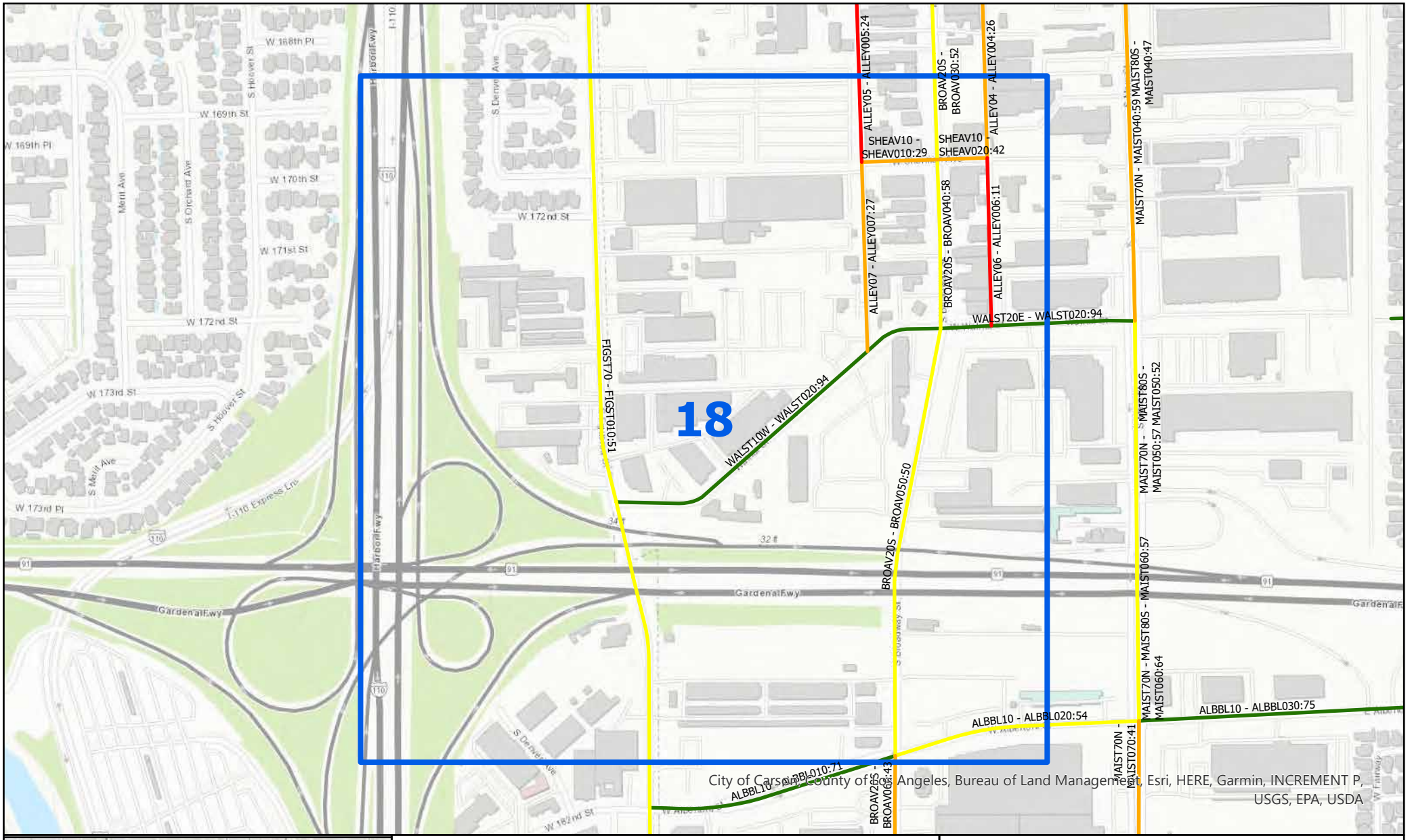
CITY OF CARSON
The Jewel of the South Bay

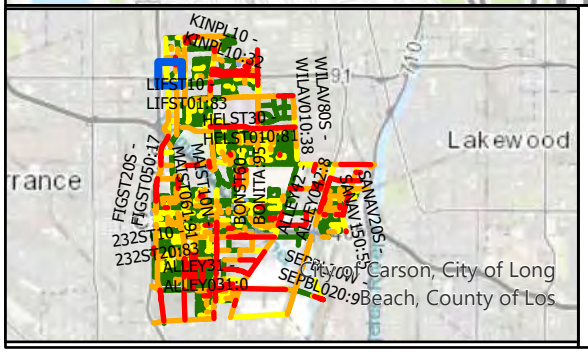
NEW MEXICO ARA

N

0 0.04 0.09 0.17 0.26 0.34 Miles

100	Category I - Very Good
70	Category II - Good (Non-Load) / Category III - Good (Load)
50	Category IV - Poor
25	Category V - Very Poor
0	





CITY OF CARSON
The Jewel of the South Bay

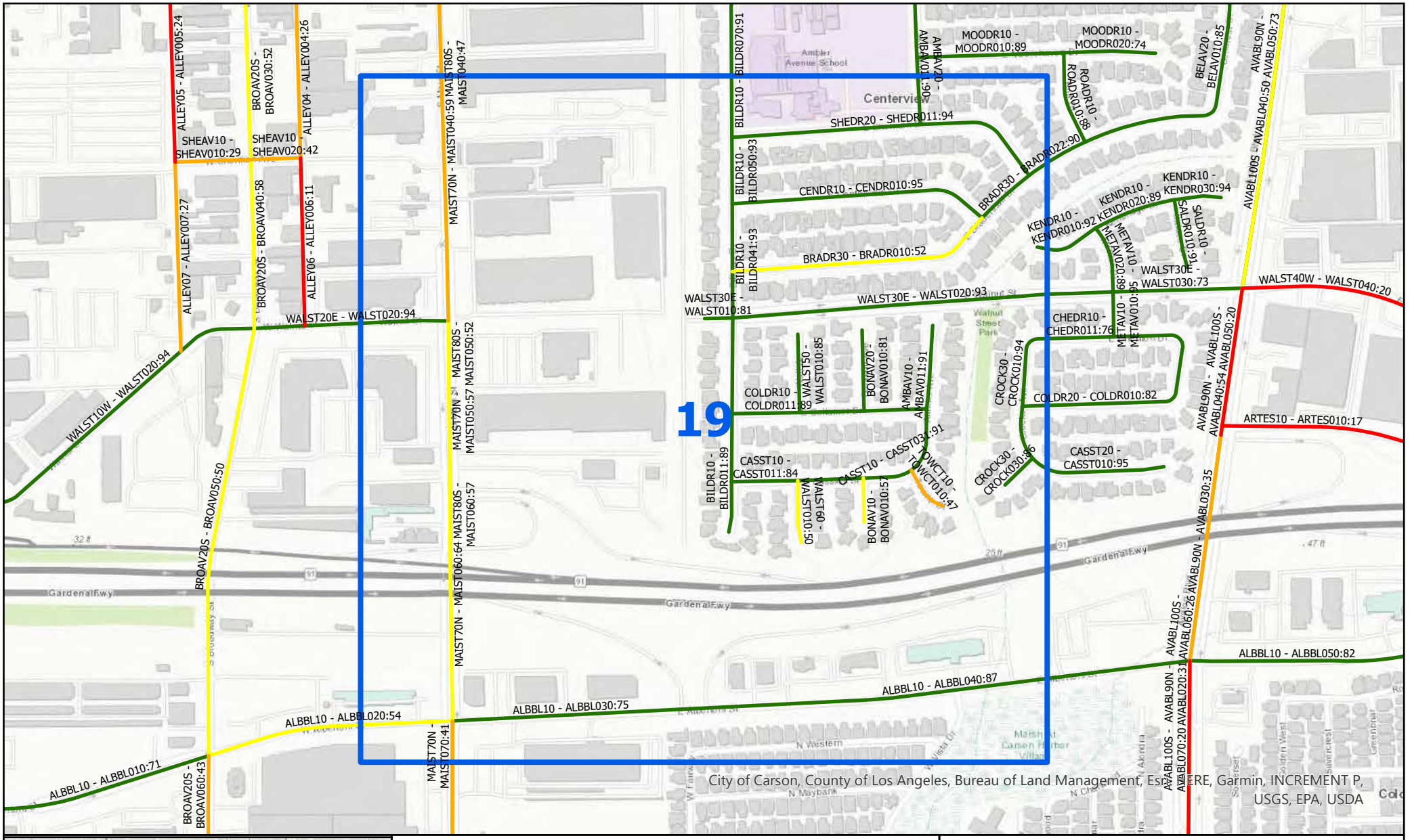
NEW MEXICO ARA

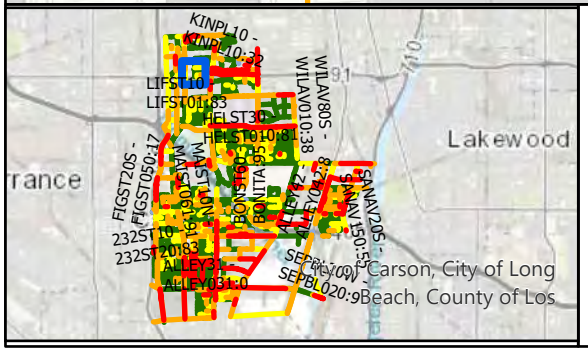
N

0 0.04 0.09 0.17 0.26 0.34 Miles

100
70
50
25
0

- Category I - Very Good
- Category II - Good (Non-Load)
- Category III - Good (Load)
- Category IV - Poor
- Category V - Very Poor





CITY OF CARSON
The Jewel of the South Bay

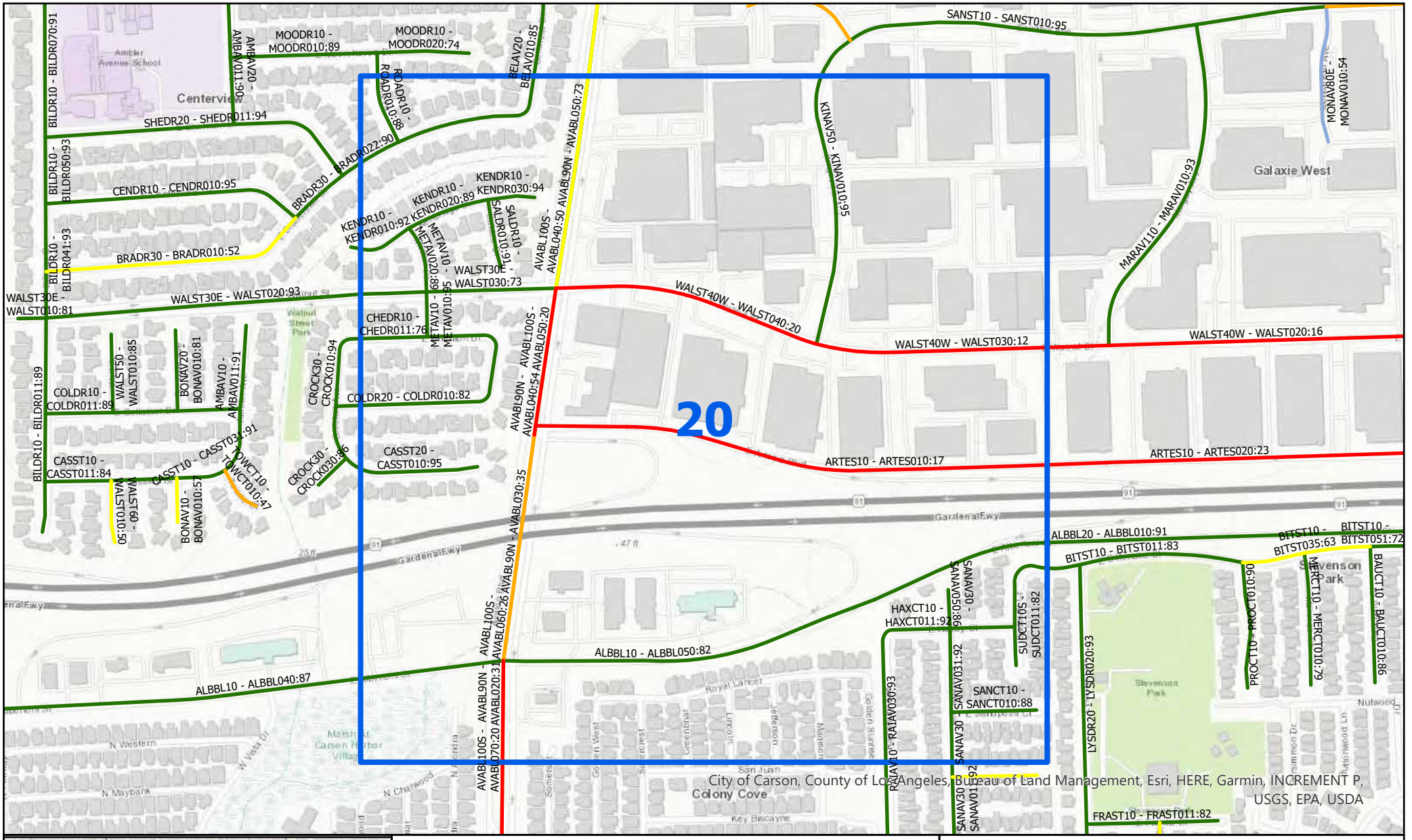
NEW MEXICO ARA

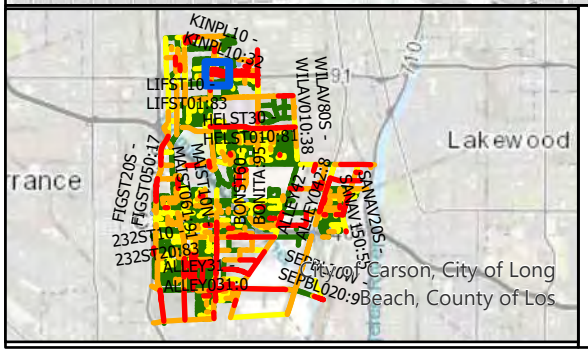
N

0 0.04 0.09 0.17 0.26 0.34 Miles

Category I - Very Good	
Category II - Good (Non-Load)	Category III - Good (Load)
Category IV - Poor	
Category V - Very Poor	

100 70 50 25 0





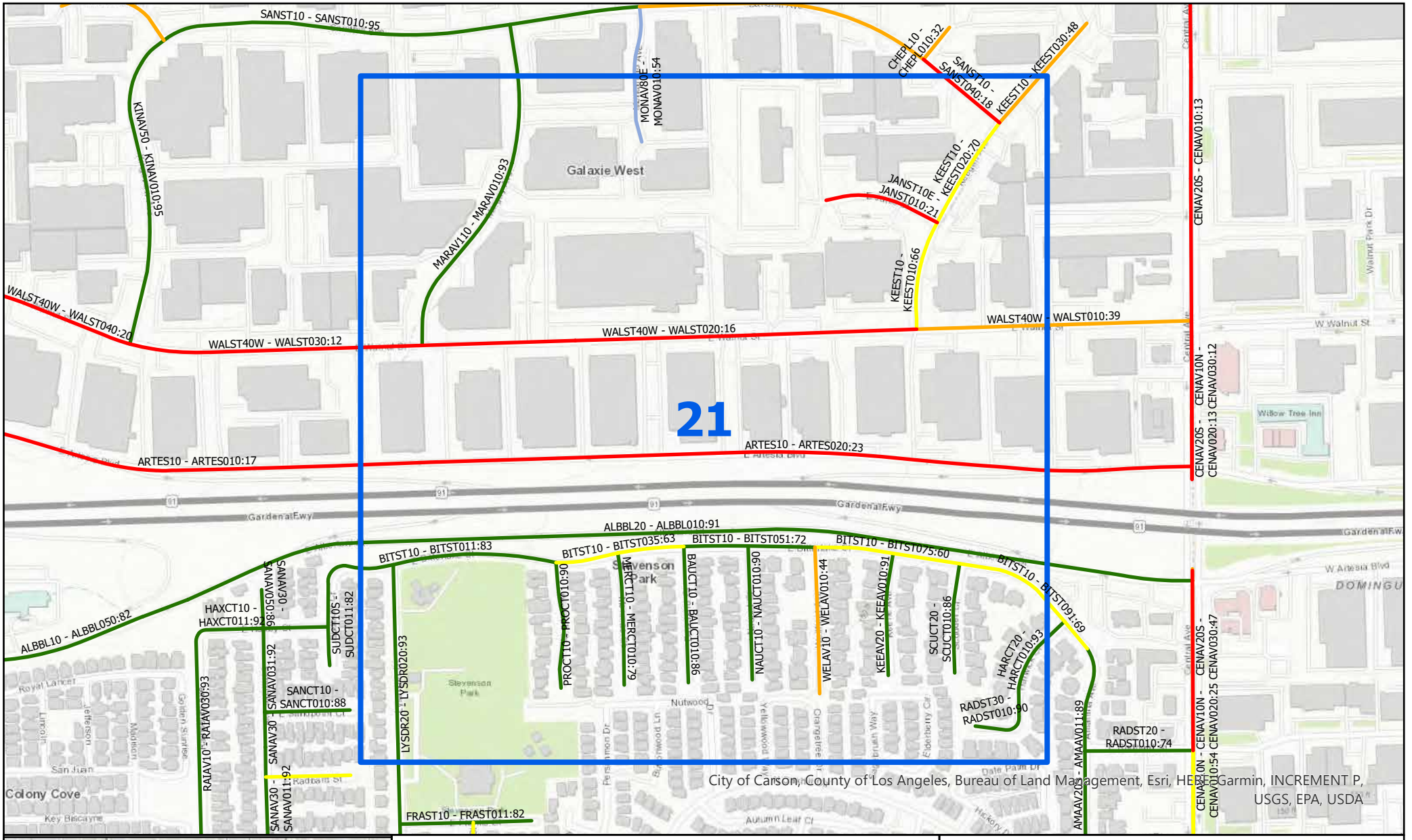
CITY OF CARSON
The Jewel of the South Bay

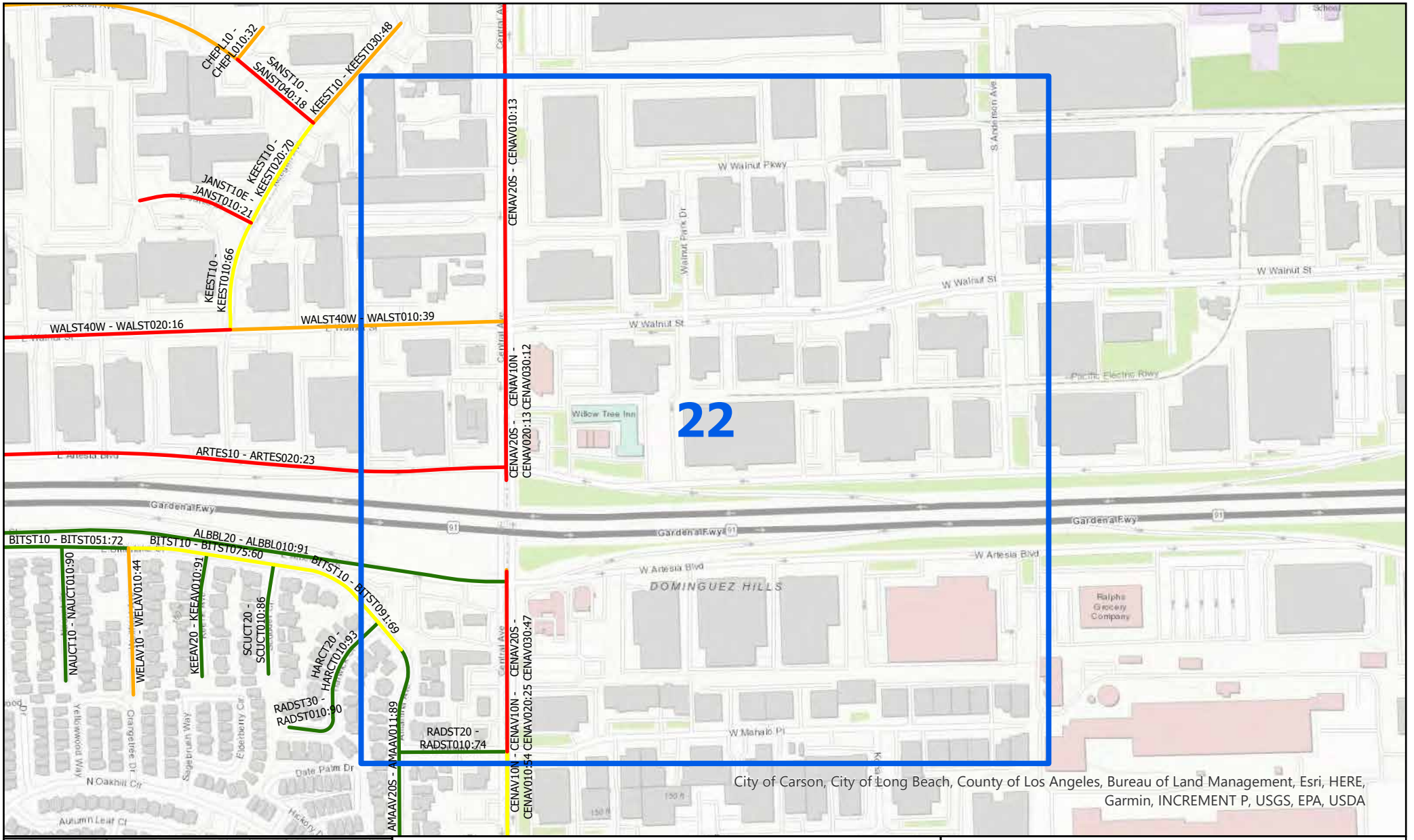
NEW MEXICO ARA

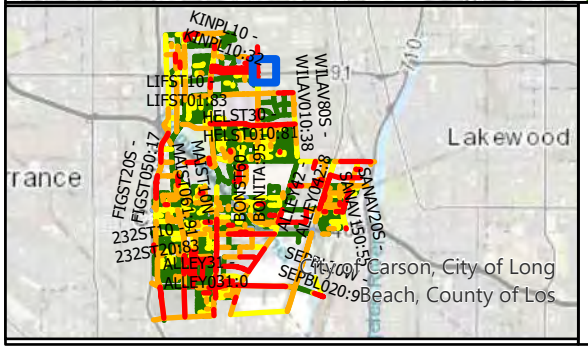
N

0 0.04 0.09 0.17 0.26 0.34 Miles

100	Category I - Very Good
70	Category II - Good (Non-Load) / Category III - Good (Load)
50	Category IV - Poor
25	Category V - Very Poor
0	


21
SANST10 - SANST010:95
KINAV50 - KINAV010:95
MONAV80E - MONAV010:54
CHEPL10 - CHEPL010:32
SANST10 - SANST040:18
KEEST10 - KEEST030:48
KEEST10 - KEEST020:70
JANST10E - JANST010:21
KEEST10 - KEEST010:66
MARAV110 - MARAV010:93
Galaxie West
WALST40W - WALST040:20
WALST40W - WALST030:12
WALST40W - WALST020:16
WALST40W - WALST010:39
CENAV20S - CENAV010:13
CENAV20S - CENAV10N - CENAV020:13 CENAV030:12
ARTES10 - ARTES010:17
ARTES10 - ARTES020:23
Gardena Fwy
ALBBL20 - ALBBL010:91
BITST10 - BITST011:83
BITST10 - BITST035:63
BITST10 - BITST051:72
BITST10 - BITST075:60
BITST10 - BITST091:69
Stevenson Park
ALBBL10 - ALBBL050:82
HAXCT10 - HAXCT011:92
SANAV30 - SANAV050:98
SUDCT10S - SUDCT011:82
PROCT10 - PROCT010:90
MERCT10 - MERCT010:76
BAUCT10 - BAUCT010:86
NAUCT10 - NAUCT010:90
WELAV10 - WELAV010:44
KEEAV20 - KEEAV010:91
SCUCT20 - SCUCT010:86
HARCT20 - HARCT010:93
RADST30 - RADST010:90
RADST20 - RADST010:74
AMAAV20 - AMAAV011:89
CENAV20S - CENAV10N - CENAV020:25 CENAV030:47
CENAV20S - CENAV10N - CENAV010:54 CENAV020:25 CENAV030:47
SANCT10 - SANCT010:88
SANAV30 - SANAV031:92
SANAV30 - SANAV011:92
RAIAV10 - RAIAV030:93
LYSDR20 - LYSDR020:93
FRAST10 - FRAST011:82
Colony Cove
San Juan
Nutwood
Autumn Leaf Ct
W Walnut St
W Artesia Blvd
Willow Tree Inn
Walnut Park Dr
Royal Lancer
Key Biscayne
Radburn St
Date Palm Dr
Elderberry Cir
Yellowwood Dr
Persimmon Dr
Brian Way
Central Ave
Lincoln
Jefferson
Madison
Golden Sunrise
Lakewood
rance
KINPL10 - KINPL010:32
LIFST10 - LIFST010:83
HELST30 - HELST010:8
WILAV080S - WILAV010:38
FIGST20S - FIGST050:17
232ST10 - 232ST020:83
ALLEY30 - ALLEY031:10
BONST10 - BONST010:95
SANAV20S - SANAV150:15
SEPBL10W - SEPBL020:9
City of Carson, County of Los Angeles, Bureau of Land Management, Esri, HERE, Garmin, INCREMENT P, USGS, EPA, USDA
City of Carson, City of Long Beach, County of Los
CITY OF CARSON
The Jewel of the South Bay
NEW MEXICO ARA
N
0 0.04 0.09 0.17 0.26 0.34
Miles
100
70
50
25
0
Category I - Very Good
Category II - Good (Non-Load)
Category III - Good (Load)
Category IV - Poor
Category V - Very Poor





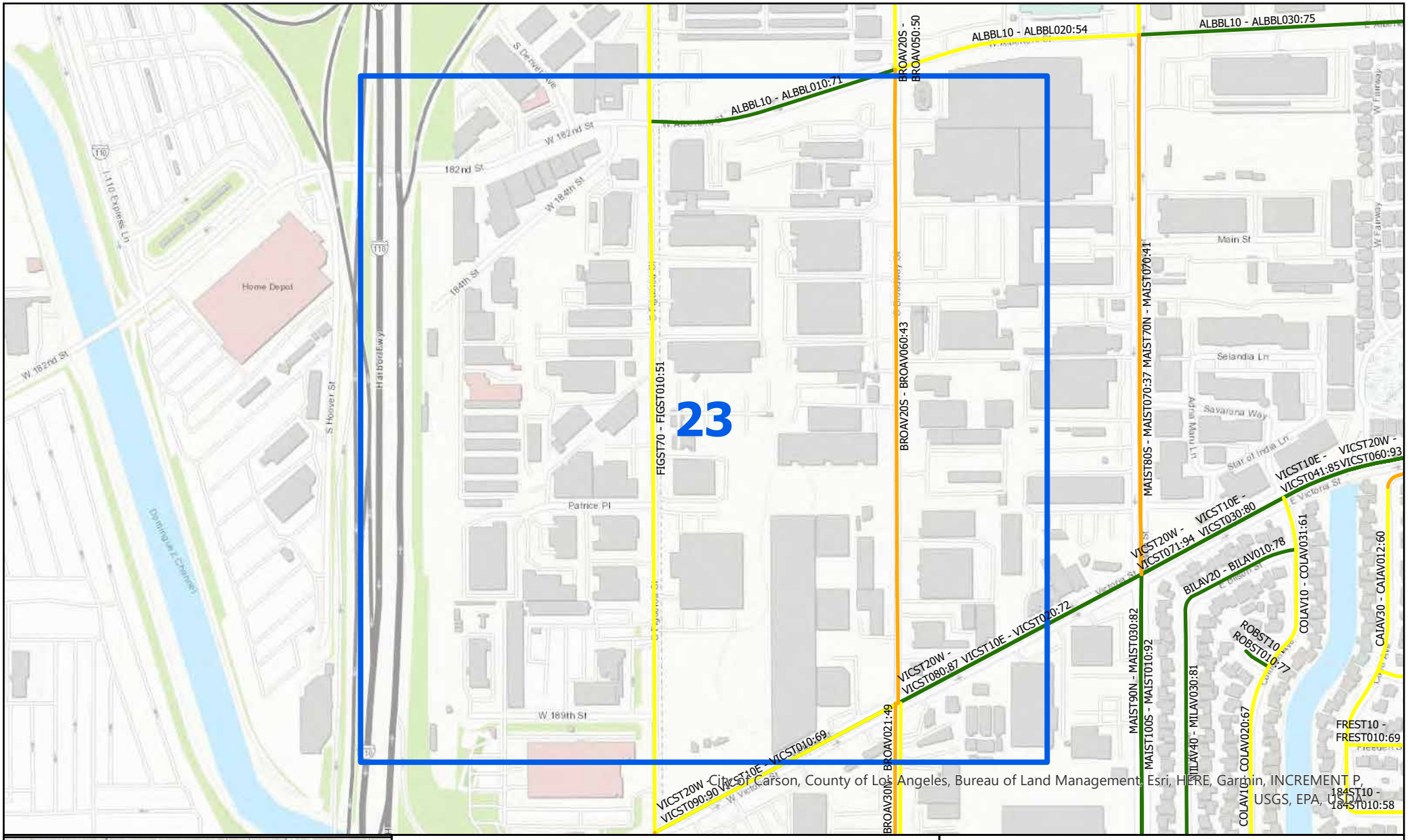
CITY OF CARSON
The Jewel of the South Bay

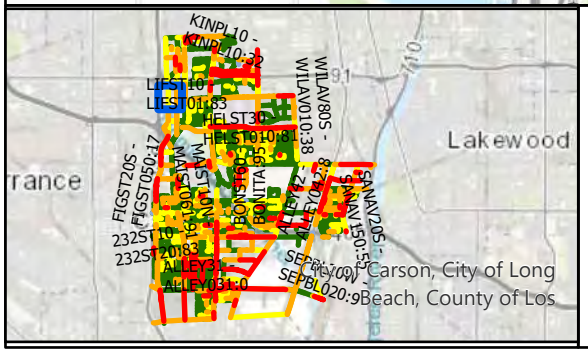
NEW MEXICO ARA

N

0 0.04 0.09 0.17 0.26 0.34 Miles

100	Category I - Very Good
70	Category II - Good (Non-Load) / Category III - Good (Load)
50	Category IV - Poor
25	Category V - Very Poor
0	





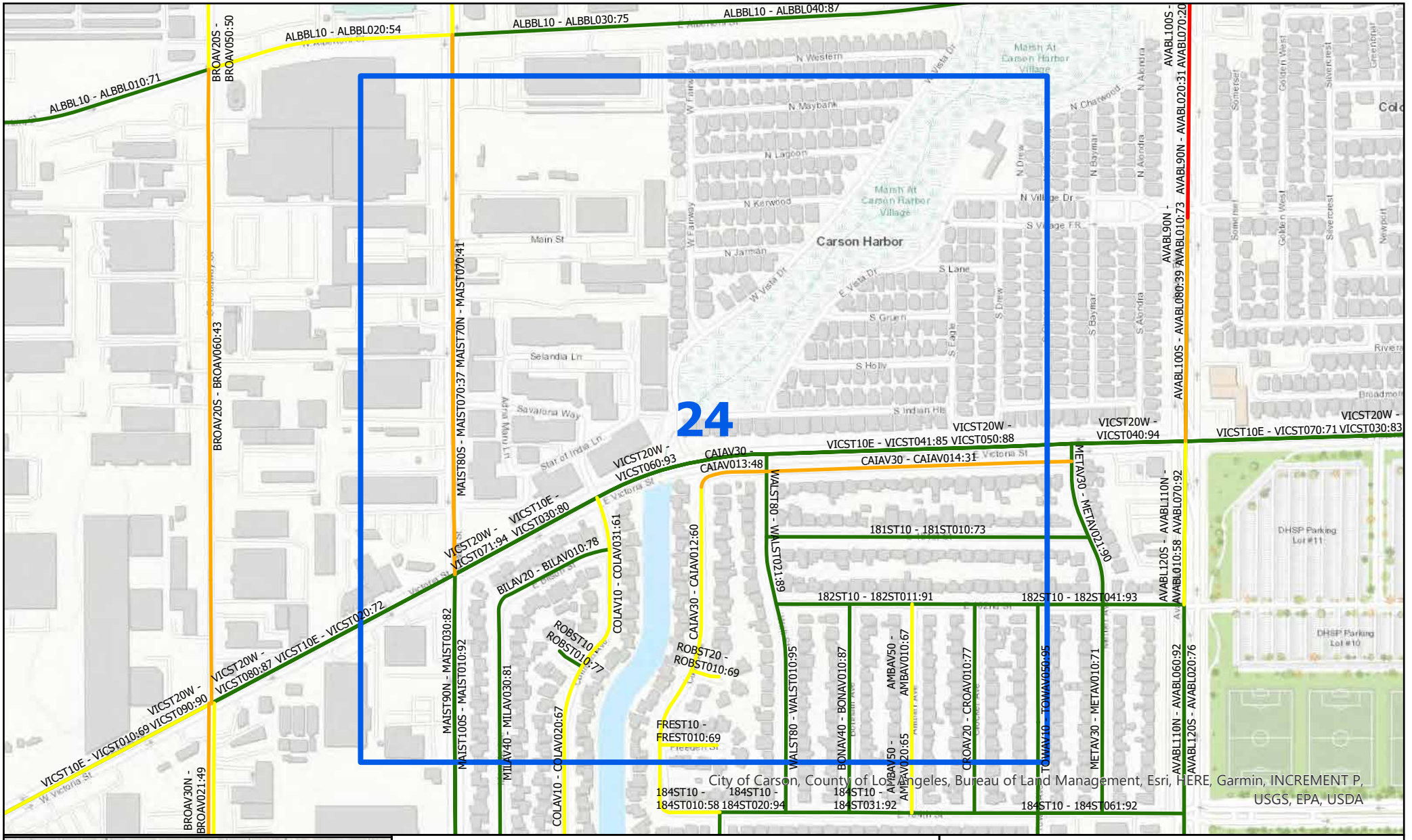
CITY OF CARSON
The Jewel of the South Bay

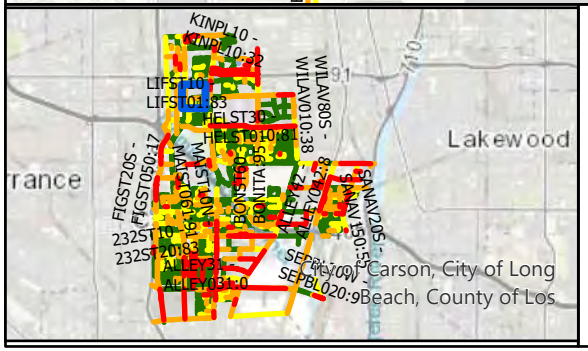
NEW MEXICO ARA

N

0 0.04 0.09 0.17 0.26 0.34 Miles

100	Category I - Very Good
70	Category II - Good (Non-Load) / Category III - Good (Load)
50	Category IV - Poor
25	Category V - Very Poor
0	





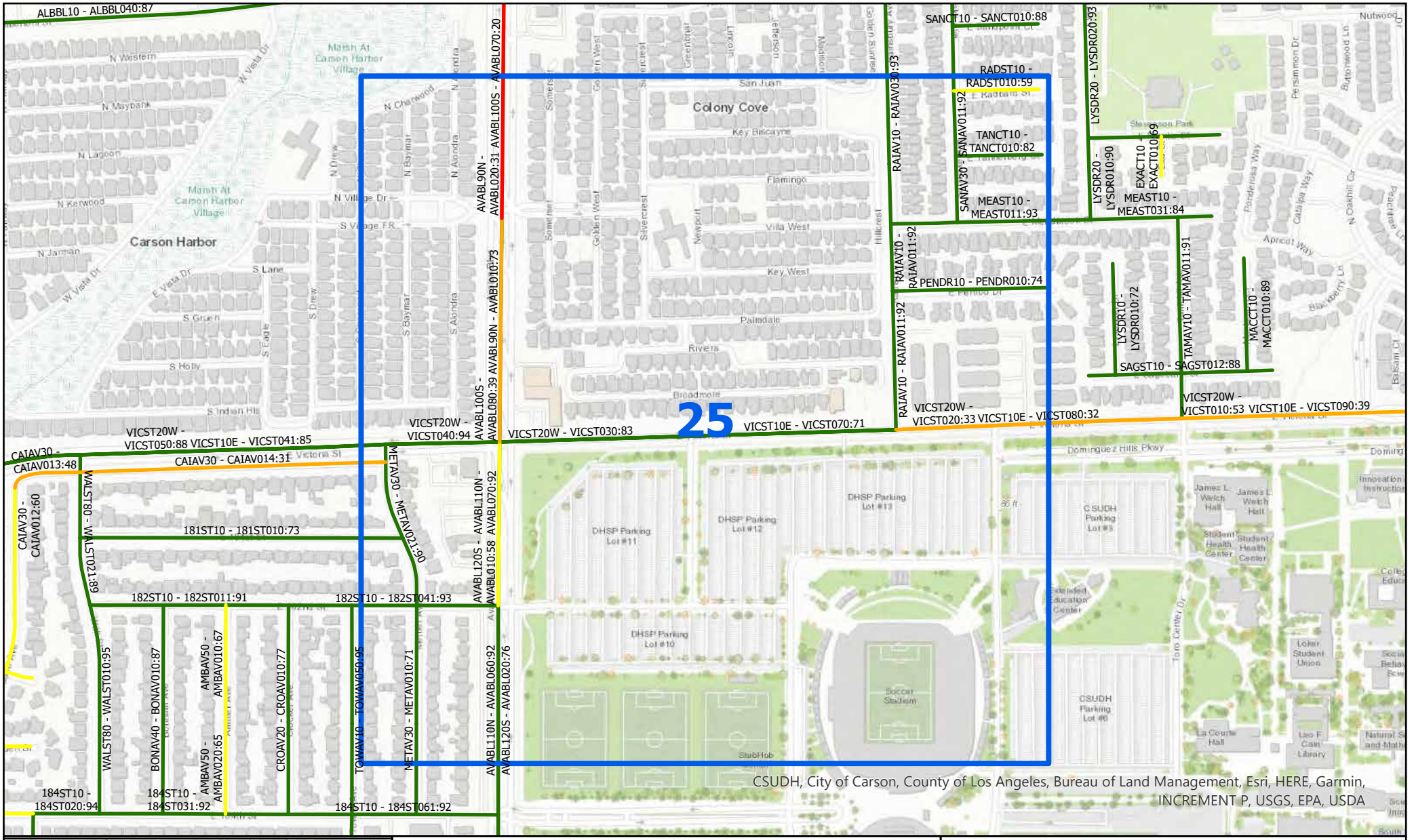
CITY OF CARSON
The Jewel of the South Bay

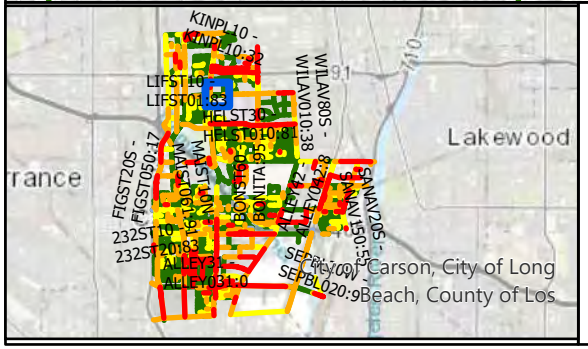
NEW MEXICO ARA

N

0 0.04 0.09 0.17 0.26 0.34 Miles

100	Category I - Very Good
70	Category II - Good (Non-Load) / Category III - Good (Load)
50	Category IV - Poor
25	Category V - Very Poor
0	





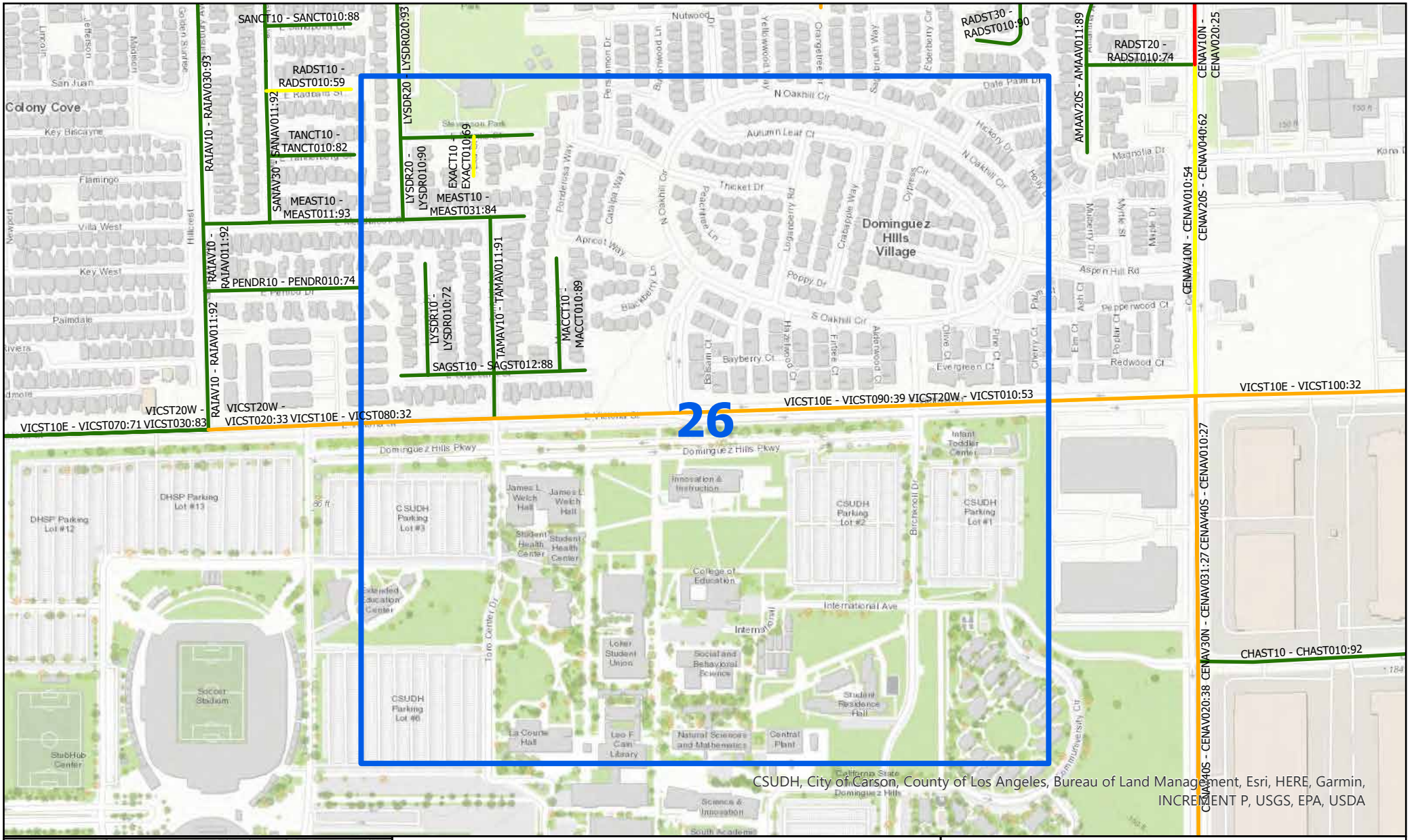
CITY OF CARSON
The Jewel of the South Bay

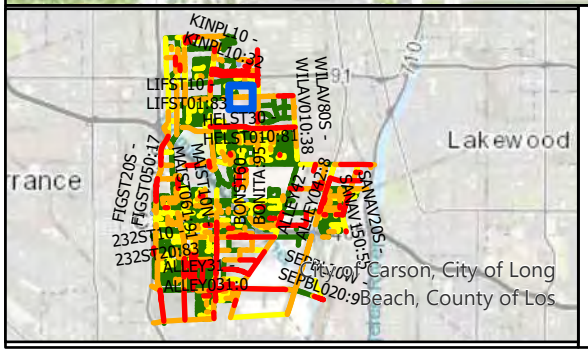
NEW MEXICO ARA

0 0.04 0.09 0.17 0.26 0.34 Miles

N

100	Category I - Very Good
70	Category II - Good (Non-Load) / Category III - Good (Load)
50	Category IV - Poor
25	Category V - Very Poor
0	





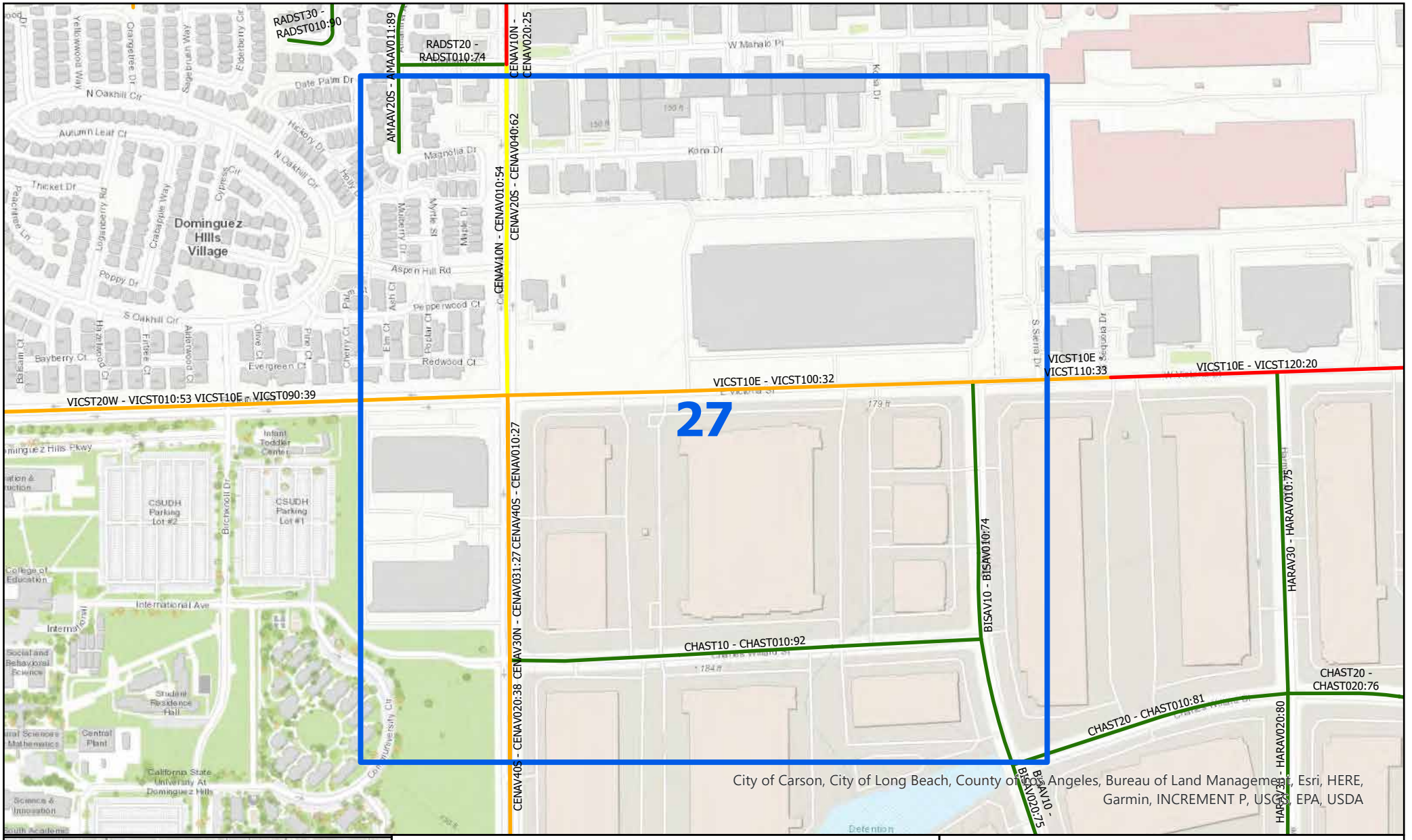
CITY OF CARSON
The Jewel of the South Bay

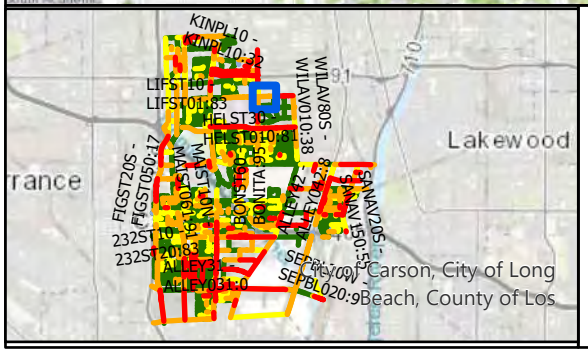
NEW MEXICO ARA

N

0 0.04 0.09 0.17 0.26 0.34 Miles

100	Category I - Very Good
70	Category II - Good (Non-Load) / Category III - Good (Load)
50	Category IV - Poor
25	Category V - Very Poor
0	





CITY OF CARSON
The Jewel of the South Bay

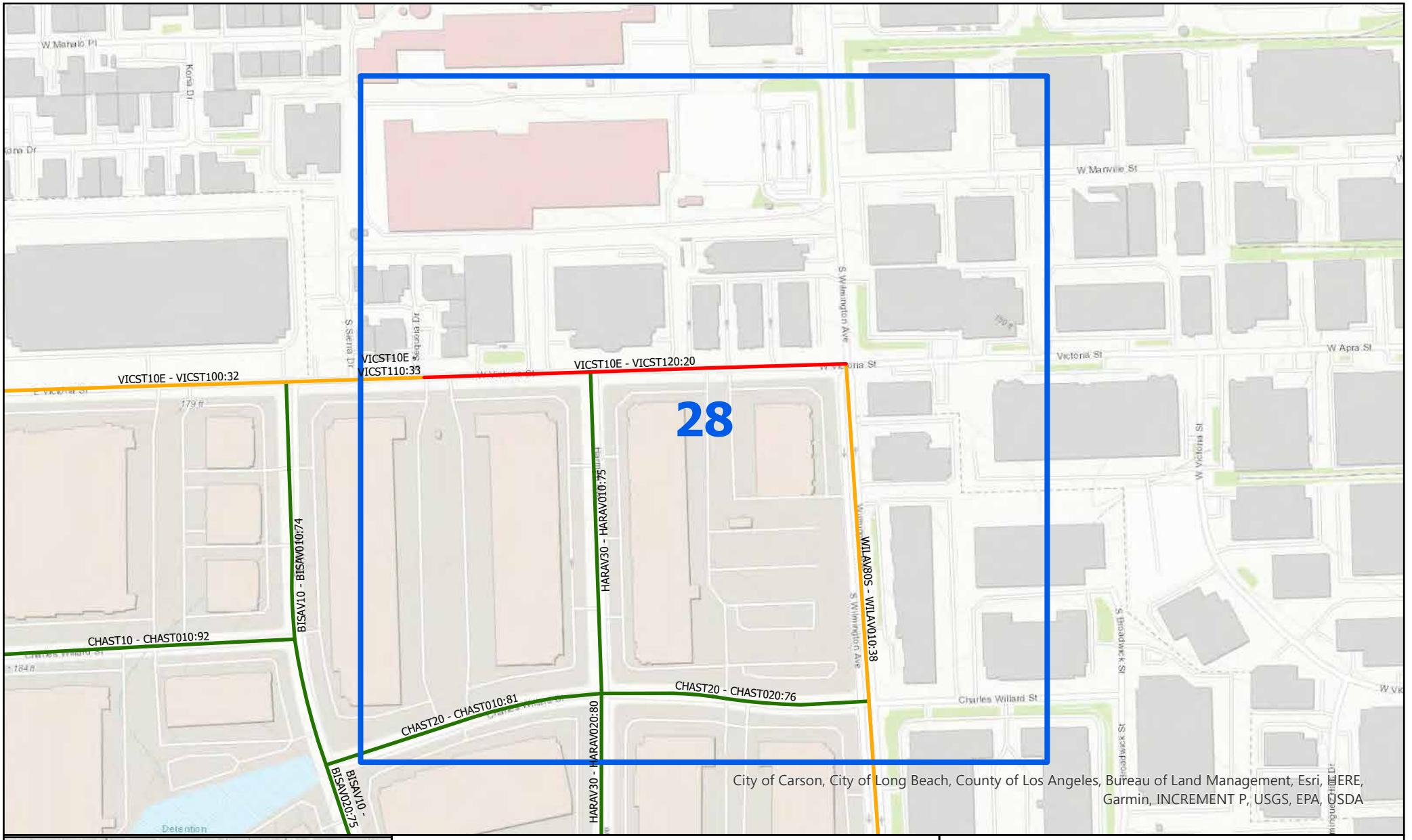
NEW MEXICO ARA

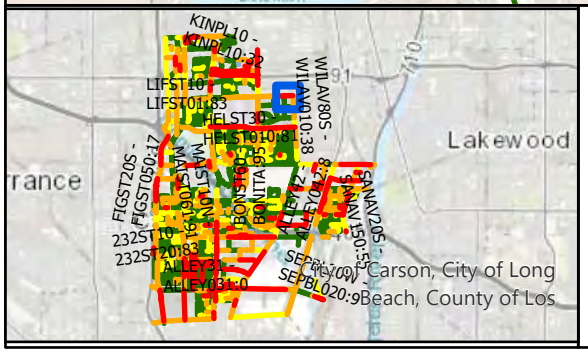
N

0 0.04 0.09 0.17 0.26 0.34 Miles

100
70
50
25
0

Category I - Very Good
Category II - Good (Non-Load)
Category III - Good (Load)
Category IV - Poor
Category V - Very Poor





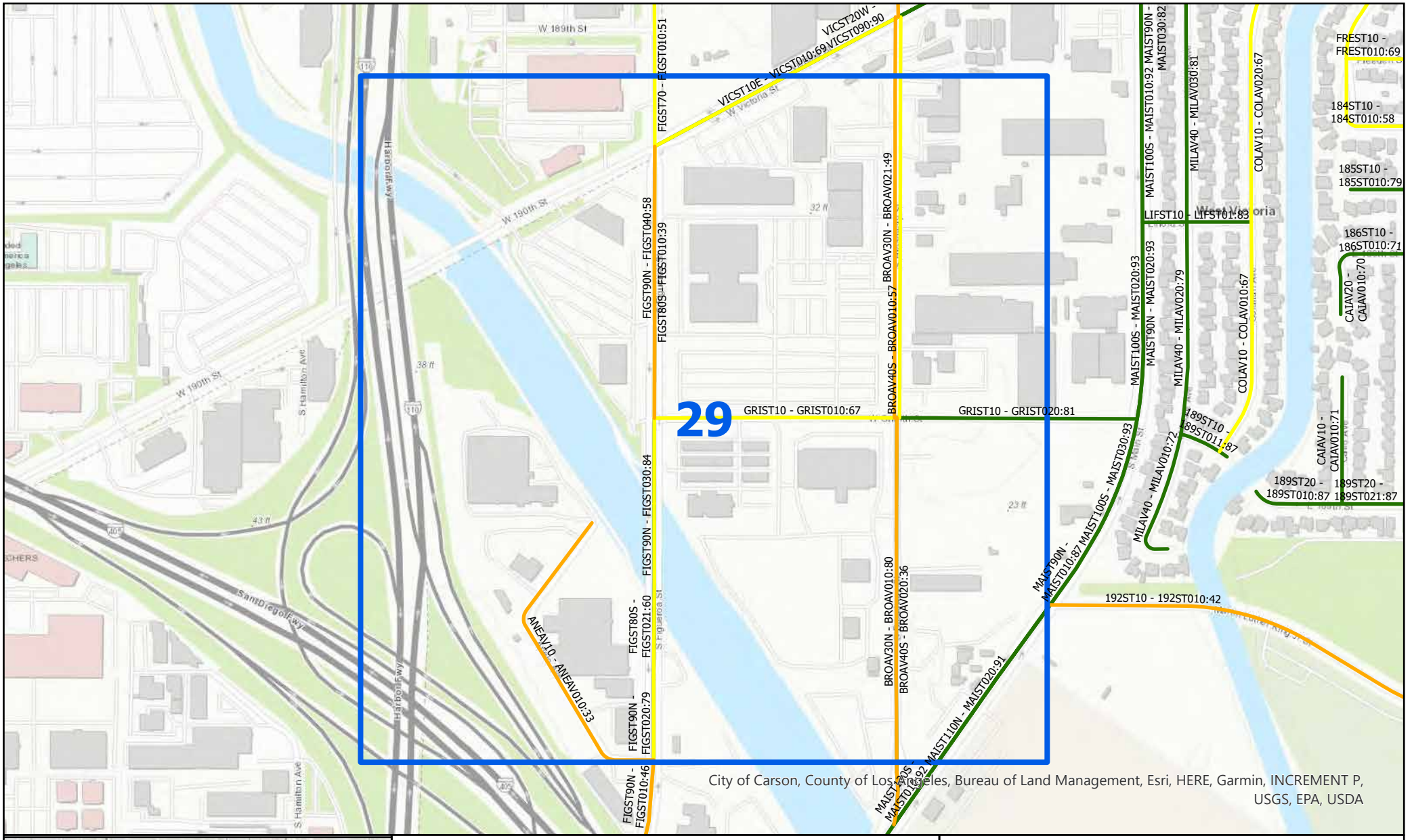
CITY OF CARSON
The Jewel of the South Bay

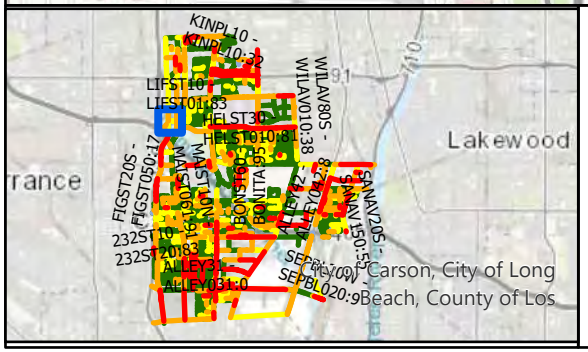
NEW MEXICO ARA

N

0 0.04 0.09 0.17 0.26 0.34 Miles

100	Category I - Very Good
70	Category II - Good (Non-Load) / Category III - Good (Load)
50	Category IV - Poor
25	Category V - Very Poor
0	





CITY OF CARSON
The Jewel of the South Bay

NEW MEXICO ARA

N

0 0.04 0.09 0.17 0.26 0.34 Miles

100
70
50
25
0

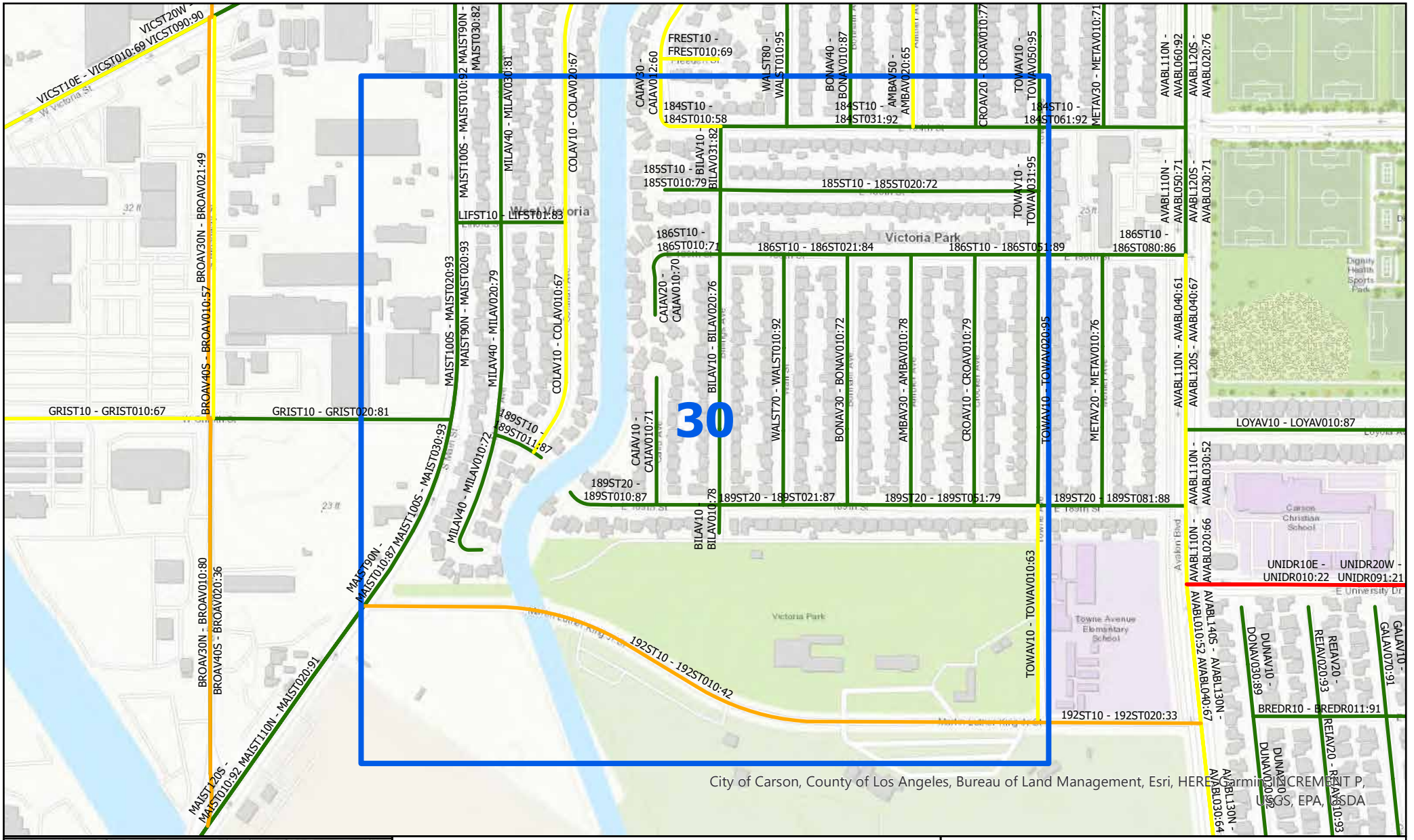
Category I - Very Good

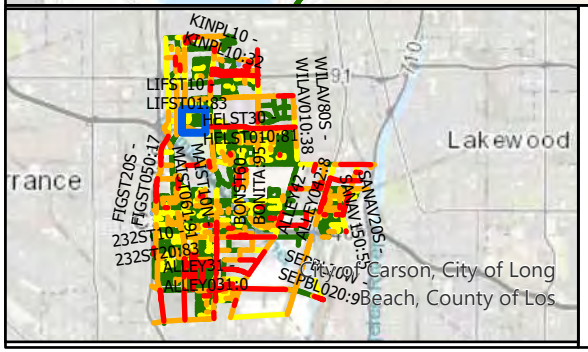
Category II - Good (Non-Load)

Category III - Good (Load)

Category IV - Poor

Category V - Very Poor





CITY OF CARSON
The Jewel of the South Bay

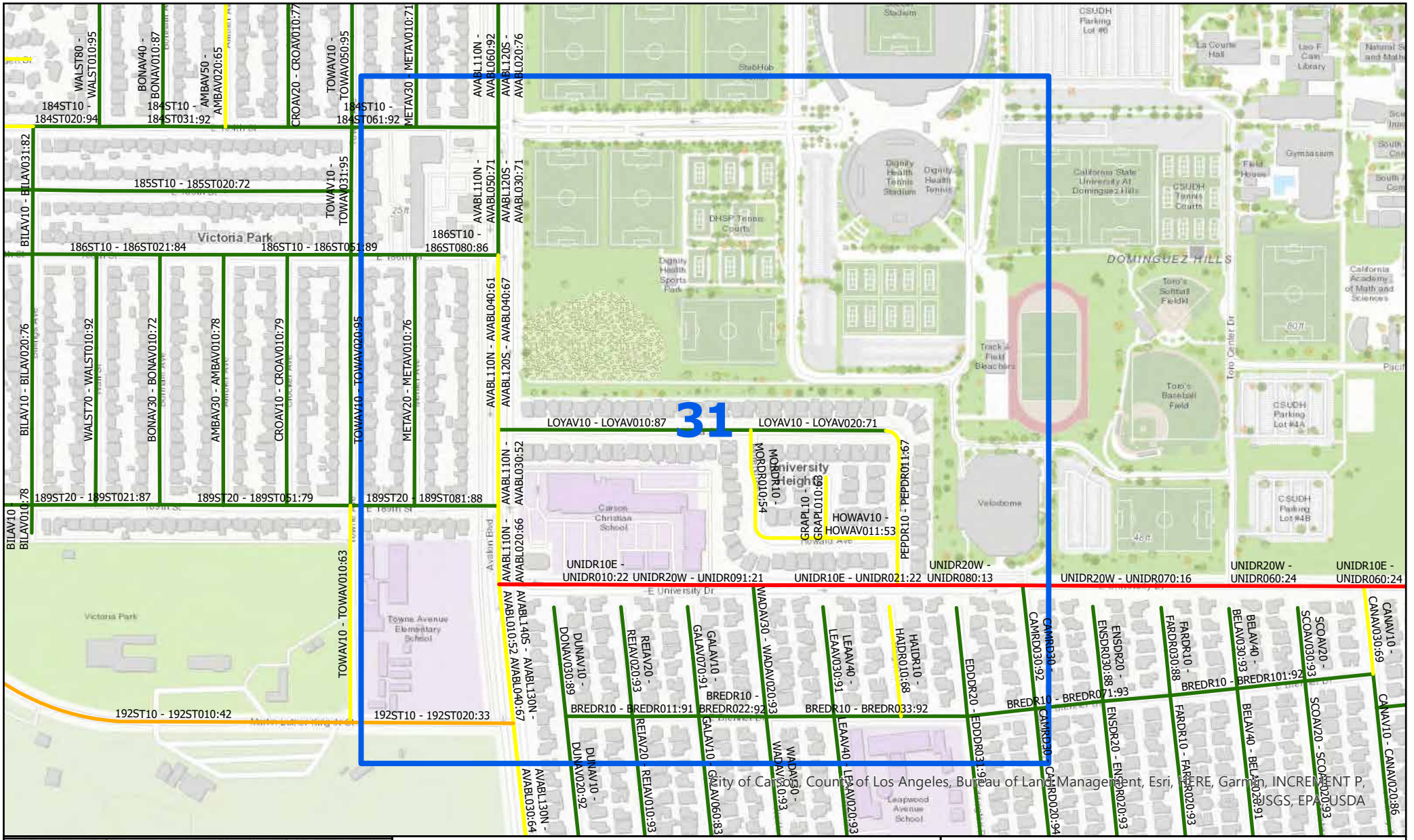
NEW MEXICO ARA

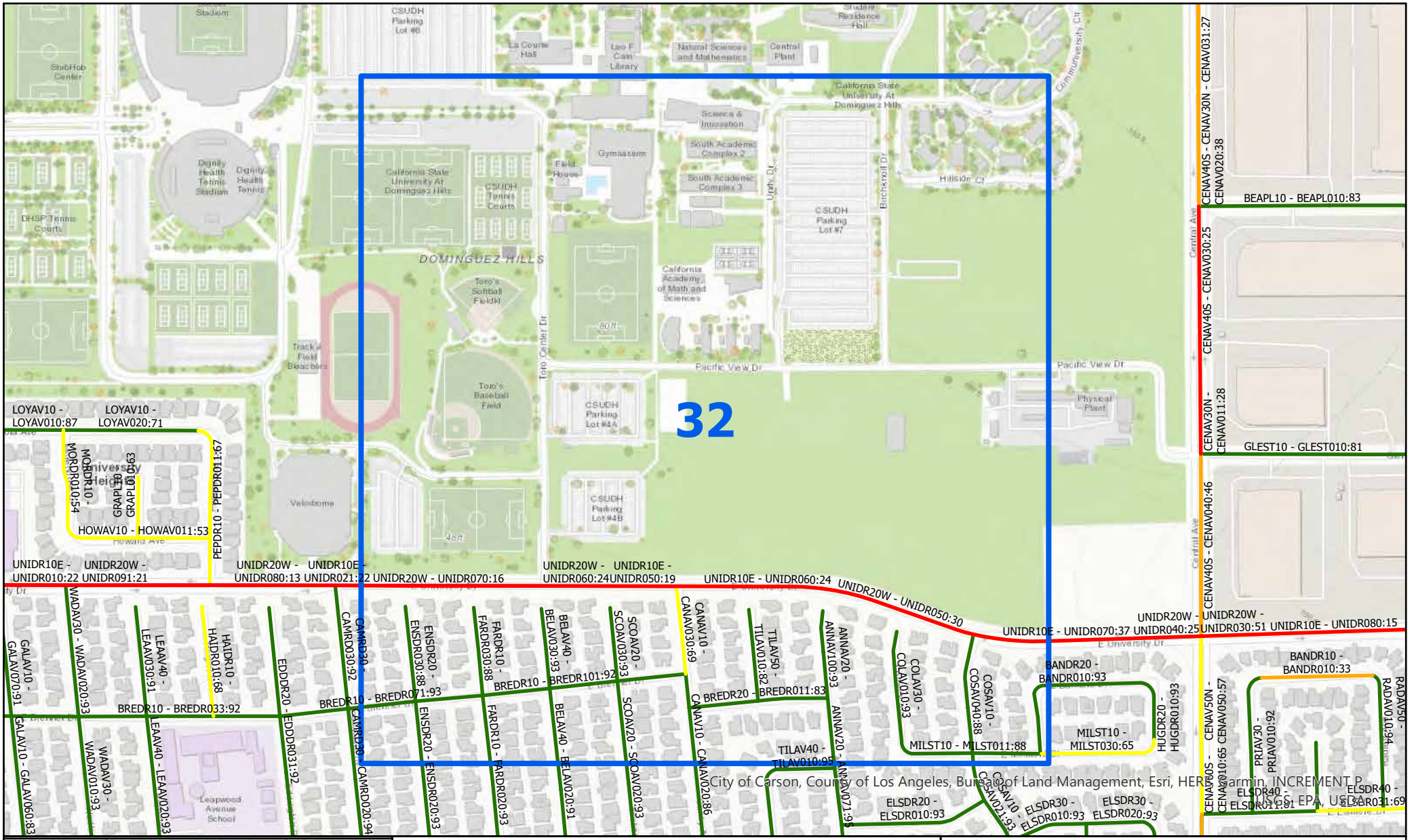
0 0.04 0.09 0.17 0.26 0.34 Miles

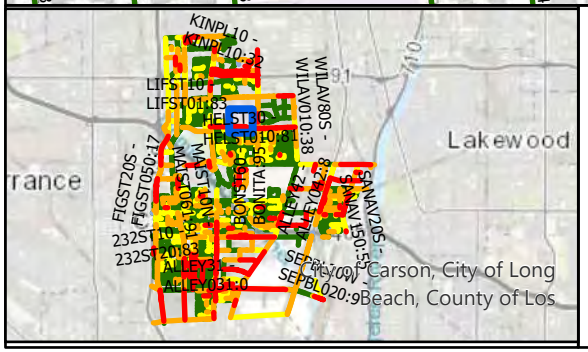
N

Category I - Very Good	
Category II - Good (Non-Load)	Category III - Good (Load)
Category IV - Poor	
Category V - Very Poor	

100 70 50 25 0


31
LOYAV10 - LOYAV010:87
LOYAV10 - LOYAV020:71
UNIDR10E - UNIDR010:22
UNIDR20W - UNIDR091:21
UNIDR10E - UNIDR021:22
UNIDR20W - UNIDR080:13
UNIDR20W - UNIDR070:16
UNIDR20W - UNIDR060:24
UNIDR10E - UNIDR060:24
HOWAV10 - HOWAV011:53
PEPDR10 - PEPDR011:67
MORDR10 - MORDR010:54
GRAPL10 - GRAPL010:69
BREDR10 - BREDR011:91
BREDR10 - BREDR022:92
BREDR10 - BREDR033:92
BREDR10 - BREDR071:93
BREDR10 - BREDR101:92
EDDDR20 - EDDDR031:93
HAIDR10 - HAIDR010:68
LEAAV40 - LEAAV030:91
GALAV10 - GALAV070:91
REIAV20 - REIAV020:93
DUNAV10 - DONAV030:89
WADAV30 - WADAV020:93
CAMRD30 - CAMRD030:92
ENSDR20 - ENSDR030:88
FARDR10 - FARDR030:88
BELAV40 - BELAV030:93
SCOAV20 - SCOAV030:93
CANAV10 - CANAV030:69
AVABL140S - AVABL130N - AVABL010:52 AVABL040:67
AVABL110N - AVABL030:52
AVABL110N - AVABL020:66
AVABL110N - AVABL040:61
AVABL120S - AVABL040:67
AVABL110N - AVABL050:71
AVABL120S - AVABL030:71
AVABL110N - AVABL060:92
AVABL120S - AVABL020:76
TOWAV10 - TOWAV010:63
TOWAV10 - TOWAV020:95
TOWAV10 - TOWAV031:95
TOWAV10 - TOWAV050:95
BILAV10 - BILAV010:78
BILAV10 - BILAV020:76
BILAV10 - BILAV031:82
WALST70 - WALST010:92
WALST80 - WALST010:95
BONAV30 - BONAV010:72
BONAV40 - BONAV010:87
AMBAV30 - AMBAV010:78
AMBAV50 - AMBAV020:65
CROAV10 - CROAV010:79
CROAV20 - CROAV010:77
METAV20 - METAV010:76
METAV30 - METAV010:71
184ST10 - 184ST020:94
184ST10 - 184ST031:92
184ST10 - 184ST061:92
185ST10 - 185ST020:72
186ST10 - 186ST021:84
186ST10 - 186ST051:89
186ST10 - 186ST080:86
189ST20 - 189ST021:87
189ST20 - 189ST051:79
189ST20 - 189ST081:88
192ST10 - 192ST010:42
192ST10 - 192ST020:33
Victoria Park
Towne Avenue Elementary School
Carson Christian School
University Heights
DOMINGUEZ HILLS
California State University At Dominguez Hills
Dignity Health Tennis Stadium
Dignity Health Tennis
DHSP Tennis Courts
Dignity Health Sports Park
CSUDH Tennis Courts
CSUDH Parking Lot #6
CSUDH Parking Lot #4A
CSUDH Parking Lot #4B
Toro's Softball Field
Toro's Baseball Field
Track & Field Bleachers
Velodrome
Gymnasium
Field House
La Counte Hall
Leo F. Cain Library
California Academy of Math and Sciences
Leapwood Avenue School
StubHub
E University Dr
Avalon Blvd
Victoria Park
Lakewood
rance
KINPL10 - KINPL10:22
LIFST10 - LIFST010:83
FIGST20S - FIGST050:17
232ST10 - 232ST020:83
ALLEY31 - ALLEY031:10
SEPBL020:9
Carson, City of Long Beach, County of Los
City of Carson, County of Los Angeles, Bureau of Land Management, Esri, HERE, Garmin, INCREMENT P, USGS, EPA, USDA
CITY OF CARSON
The Jewel of the South Bay
NEW MEXICO ARA
N
0 0.04 0.09 0.17 0.26 0.34
Miles
100
70
50
25
0
Category I - Very Good
Category II - Good (Non-Load)
Category III - Good (Load)
Category IV - Poor
Category V - Very Poor





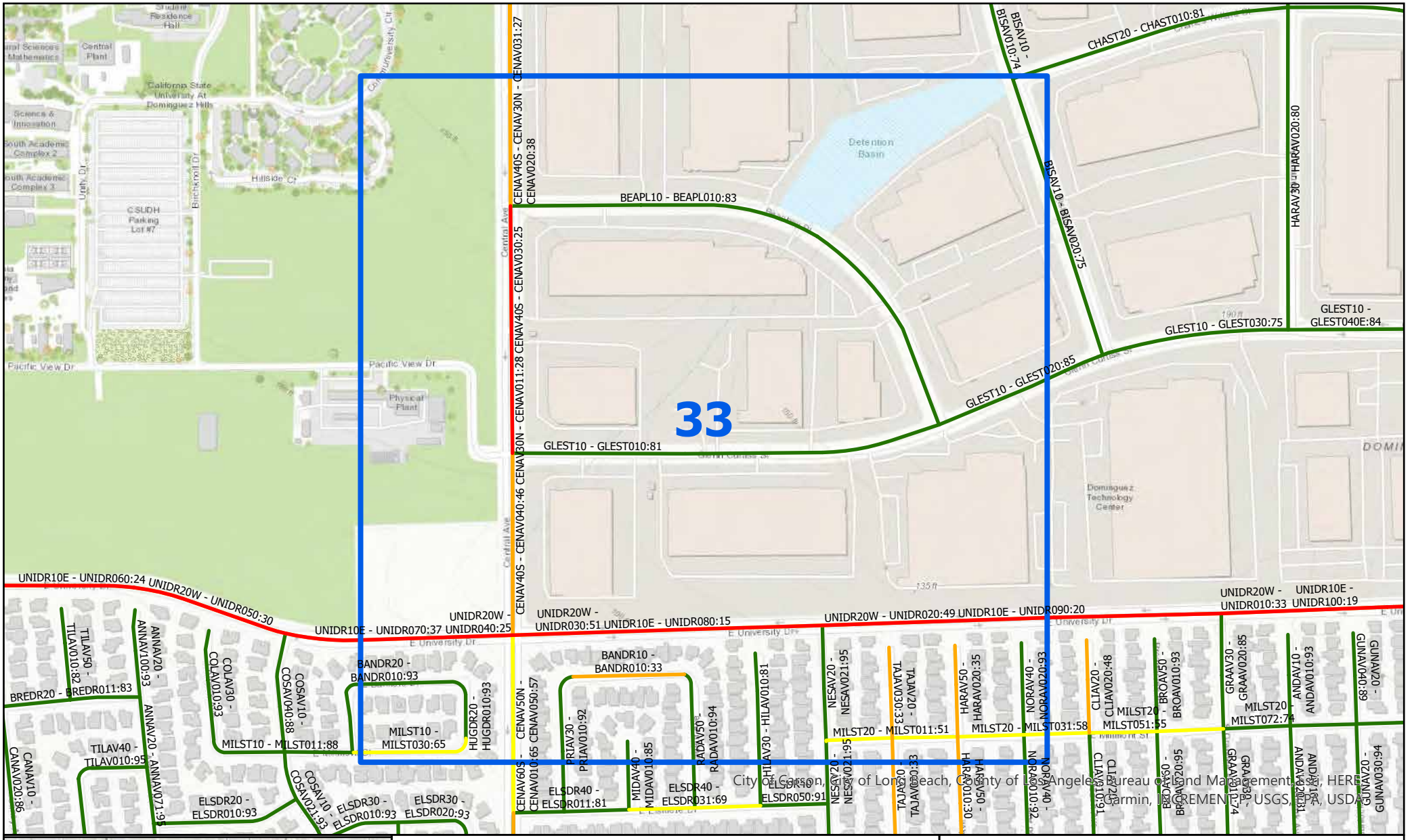
CITY OF CARSON
The Jewel of the South Bay

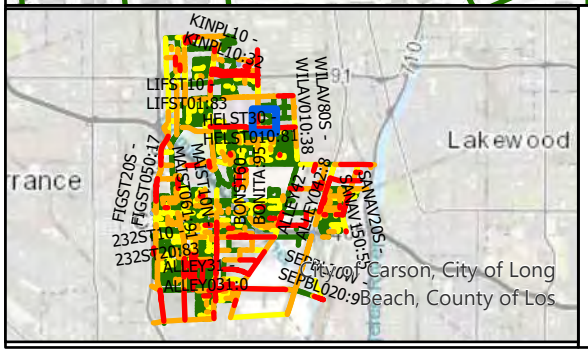
NEW MEXICO ARA

N

0 0.04 0.09 0.17 0.26 0.34 Miles

100	Category I - Very Good
70	Category II - Good (Non-Load) / Category III - Good (Load)
50	Category IV - Poor
25	Category V - Very Poor
0	





CITY OF CARSON
The Jewel of the South Bay

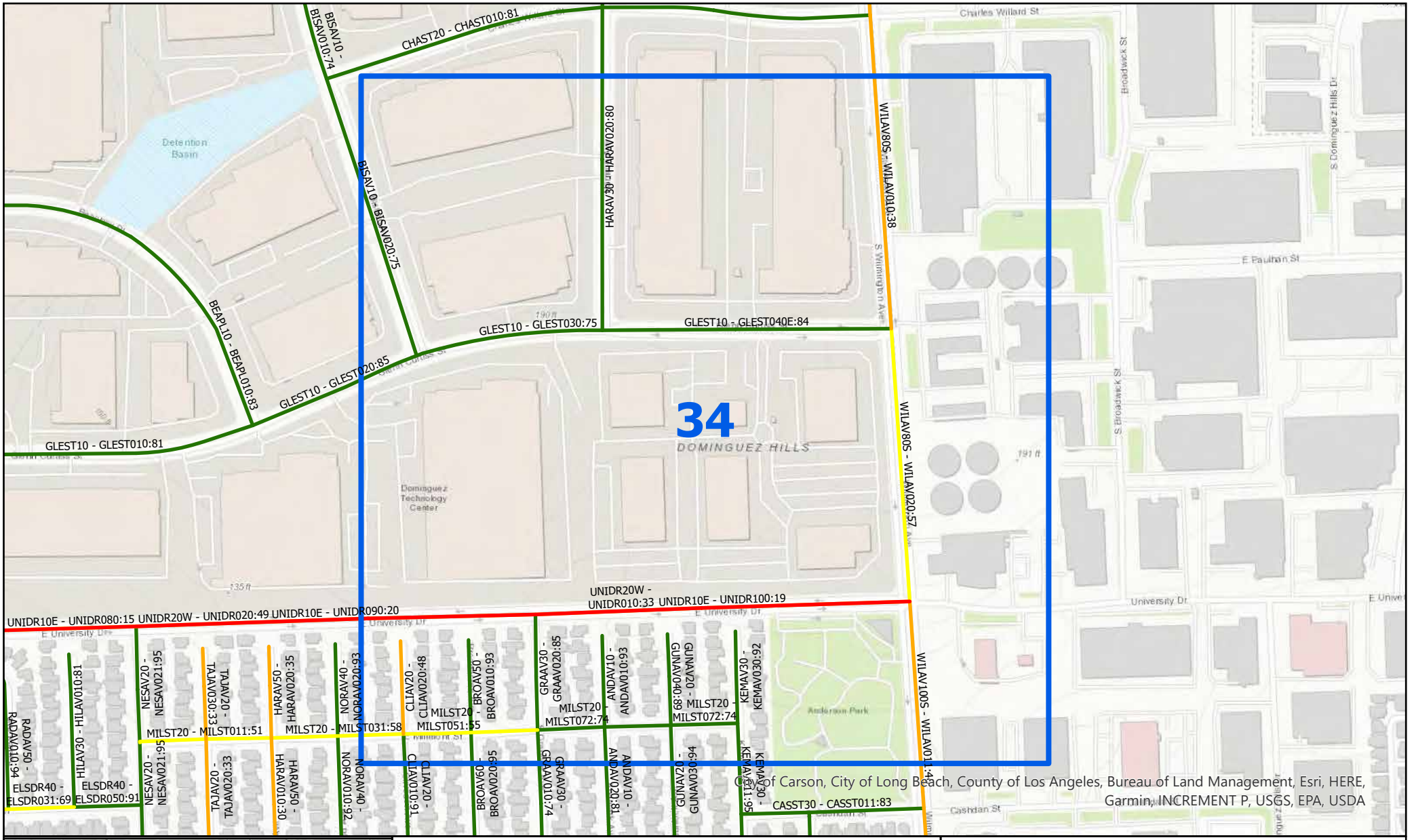
NEW MEXICO ARA

N

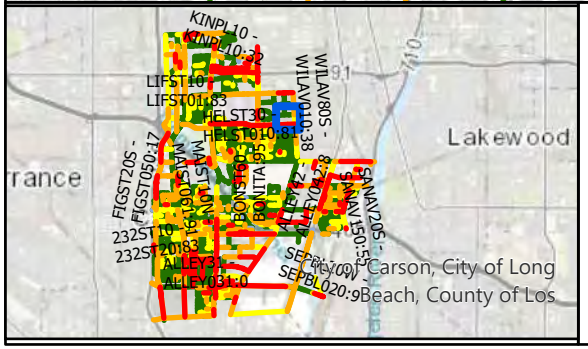
0 0.04 0.09 0.17 0.26 0.34 Miles

100	Category I - Very Good
70	Category II - Good (Non-Load) / Category III - Good (Load)
50	Category IV - Poor
25	Category V - Very Poor
0	

City of Carson, City of Long Beach, County of Los Angeles, Bureau of Land Management, GEBCO, HERE, Garmin, INCREMENT P, USGS, USDA



City of Carson, City of Long Beach, County of Los Angeles, Bureau of Land Management, Esri, HERE, Garmin, INCREMENT P, USGS, EPA, USDA



City of Carson, City of Long Beach, County of Los

CITY OF CARSON
The Jewel of the South Bay

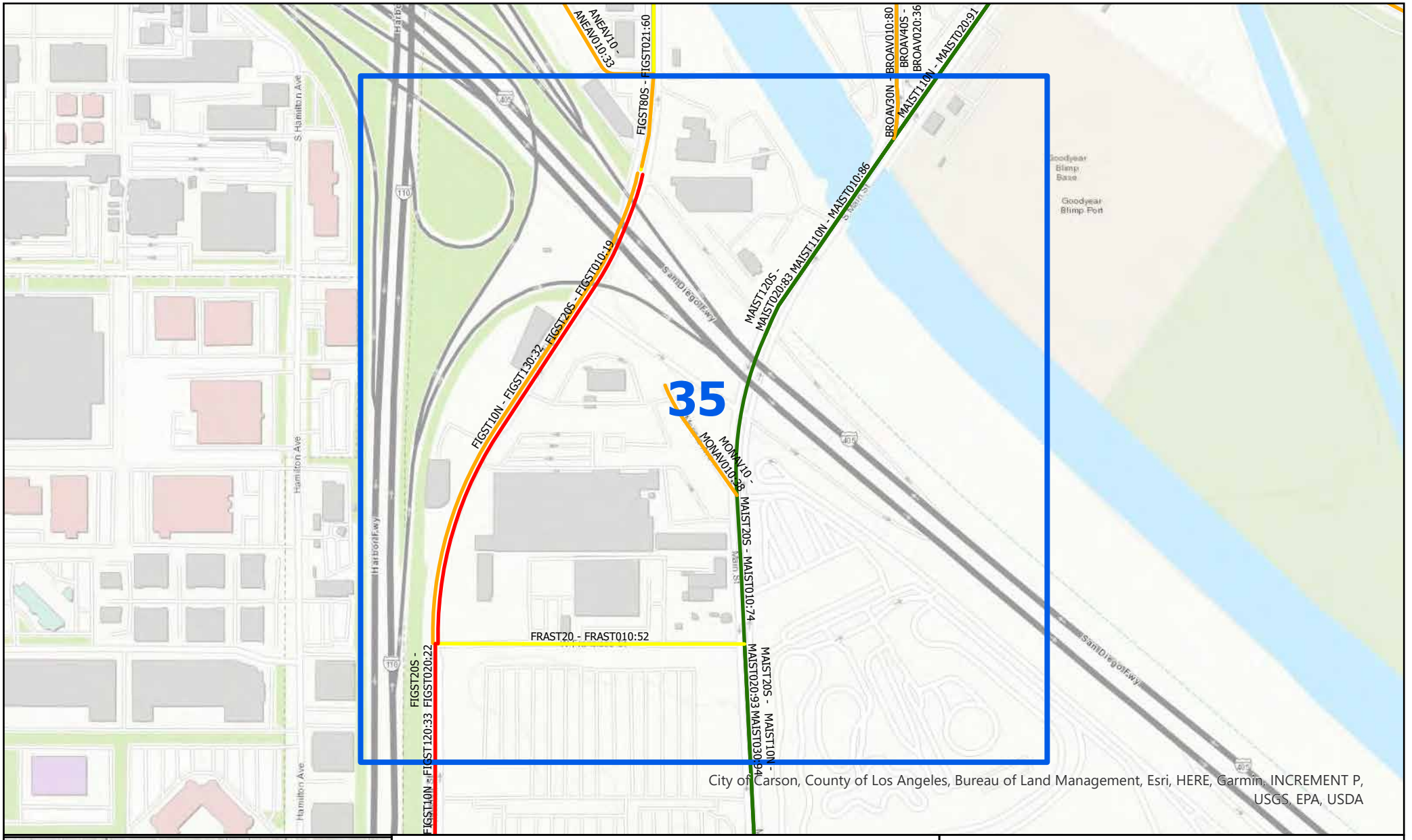
NEW MEXICO ARA

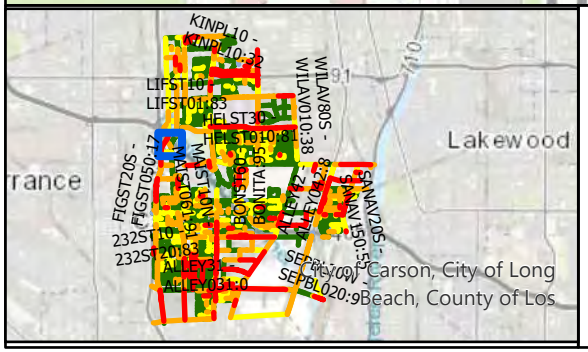
N

0 0.04 0.09 0.17 0.26 0.34 Miles

Category I - Very Good	
Category II - Good (Non-Load)	Category III - Good (Load)
Category IV - Poor	
Category V - Very Poor	

100 70 50 25 0





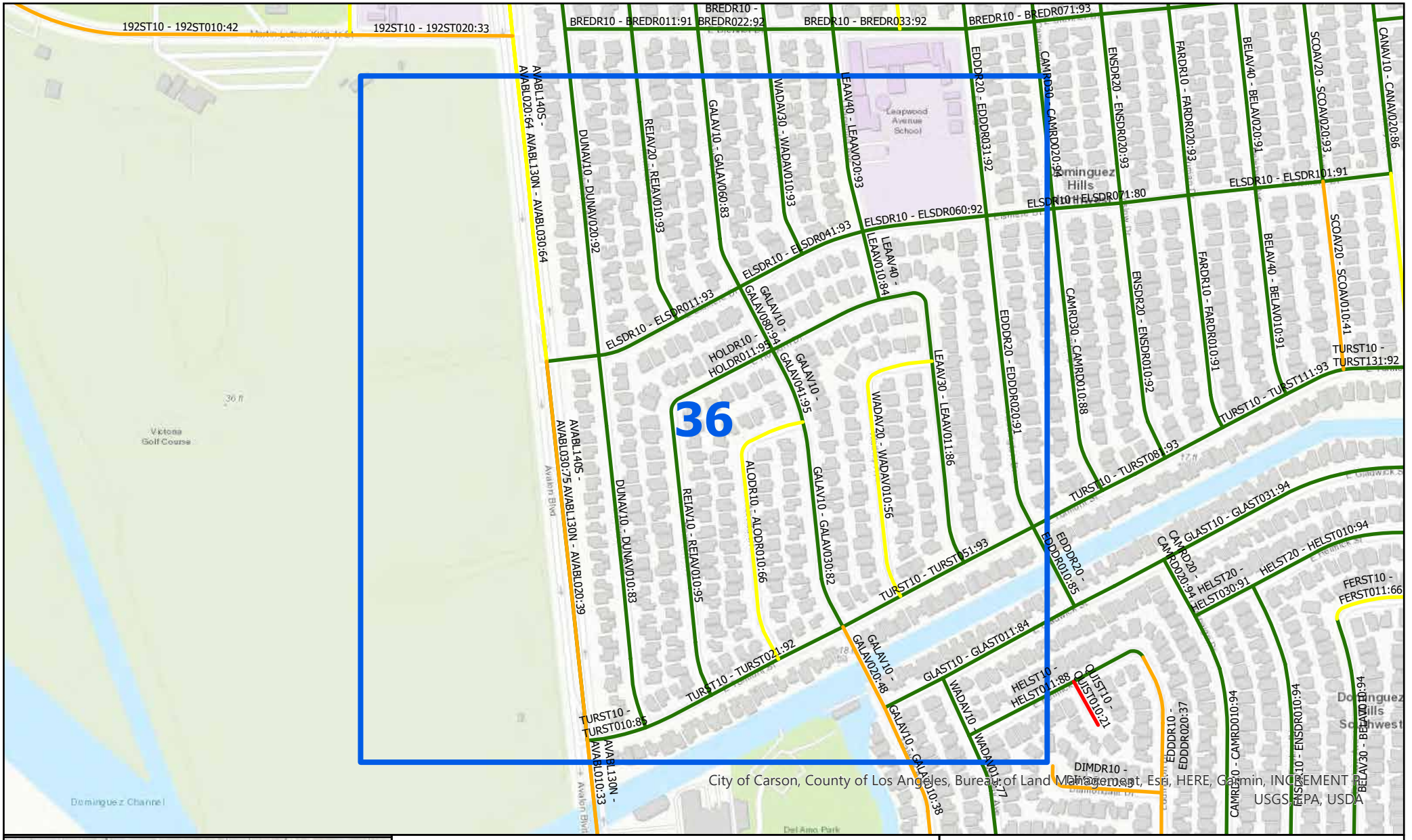
CITY OF CARSON
The Jewel of the South Bay

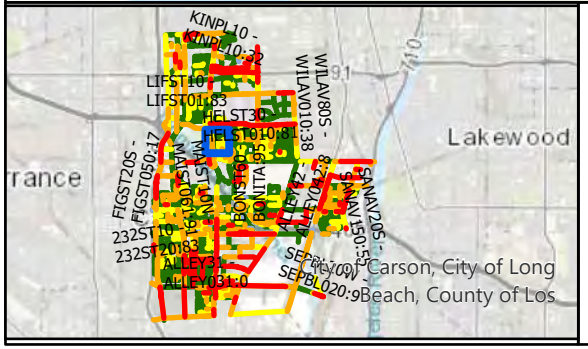
NEW MEXICO ARA

0 0.04 0.09 0.17 0.26 0.34 Miles

N

100	Category I - Very Good
70	Category II - Good (Non-Load) / Category III - Good (Load)
50	Category IV - Poor
25	Category V - Very Poor
0	





CITY OF CARSON
The Jewel of the South Bay

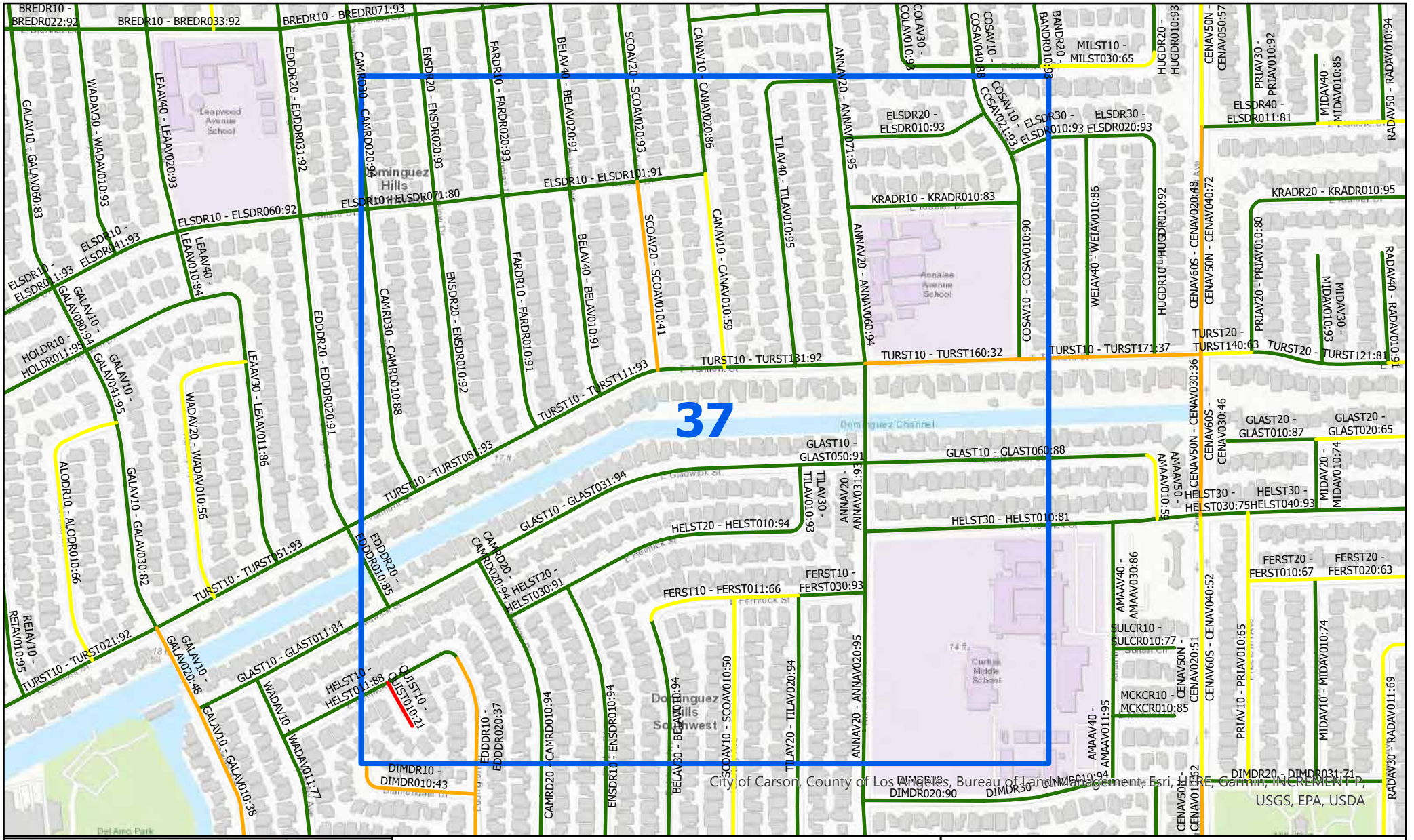
NEW MEXICO ARA

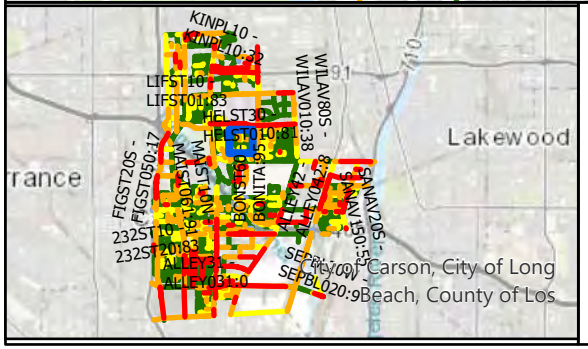
0 0.04 0.09 0.17 0.26 0.34 Miles

N

Category I - Very Good	
Category II - Good (Non-Load)	Category III - Good (Load)
Category IV - Poor	
Category V - Very Poor	

100 70 50 25 0



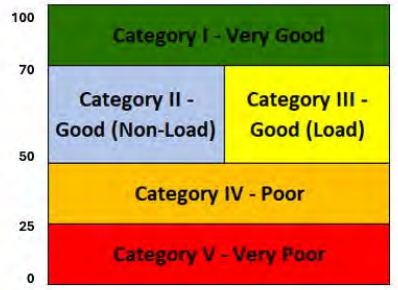


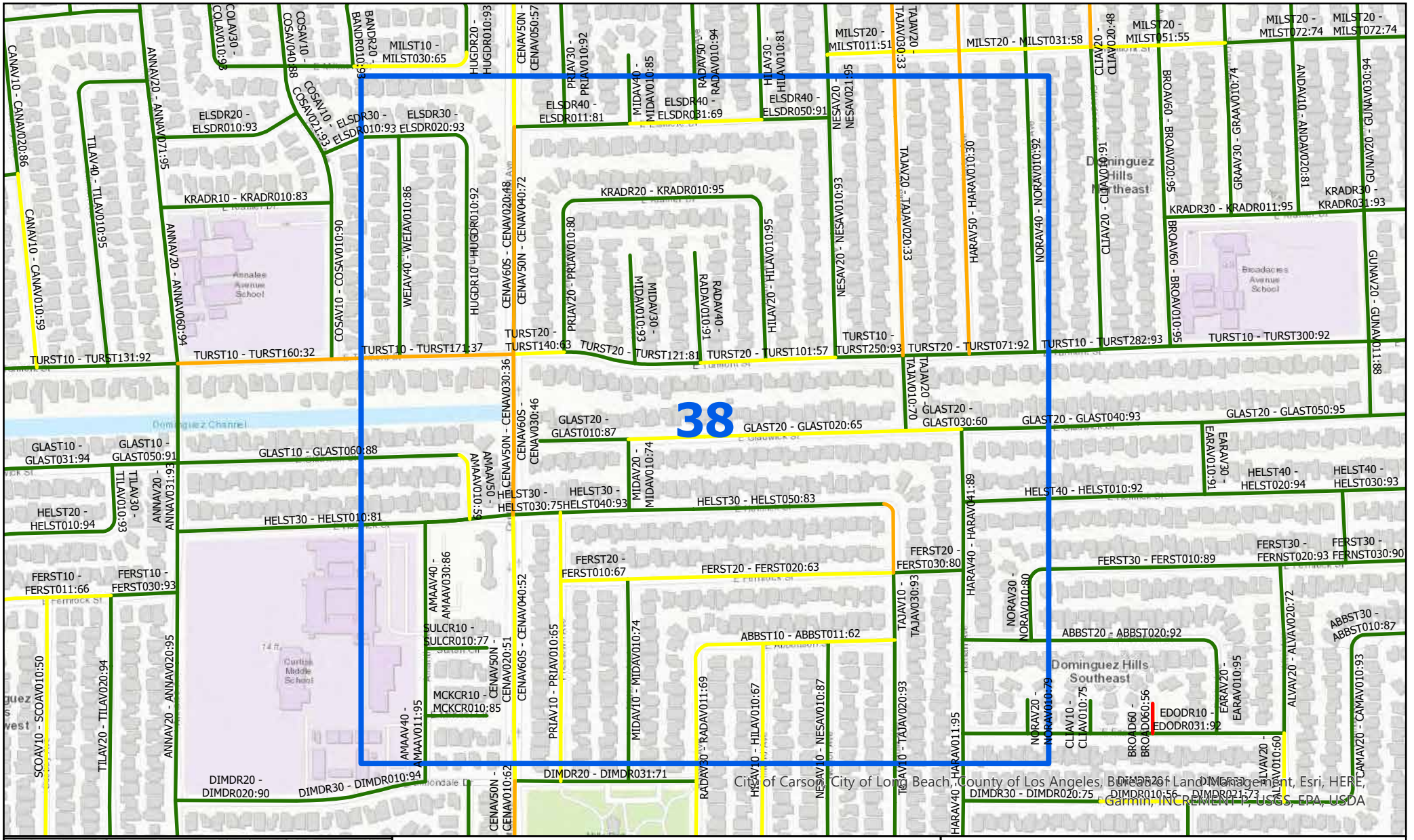
CITY OF CARSON
The Jewel of the South Bay

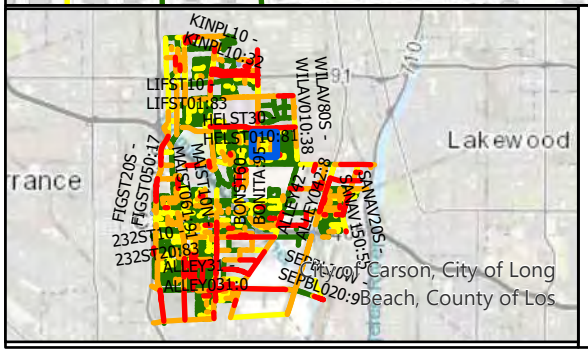
NEW MEXICO ARA

N

0 0.04 0.09 0.17 0.26 0.34 Miles







CITY OF CARSON
The Jewel of the South Bay

NEW MEXICO ARA

N

0 0.04 0.09 0.17 0.26 0.34 Miles

100
70
50
25
0

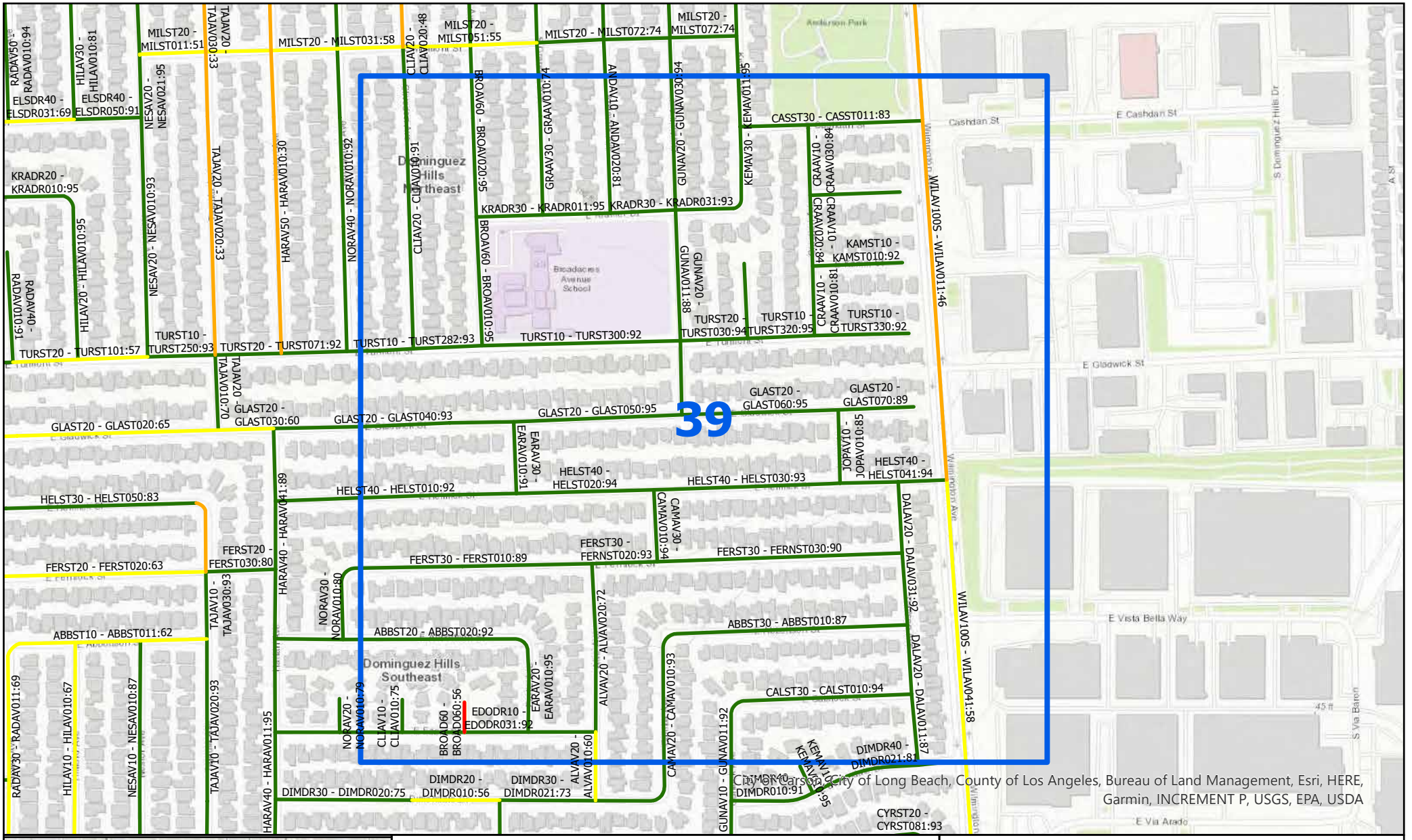
Category I - Very Good

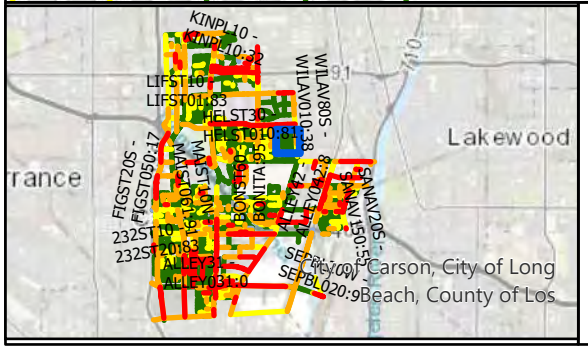
Category II - Good (Non-Load)

Category III - Good (Load)

Category IV - Poor

Category V - Very Poor





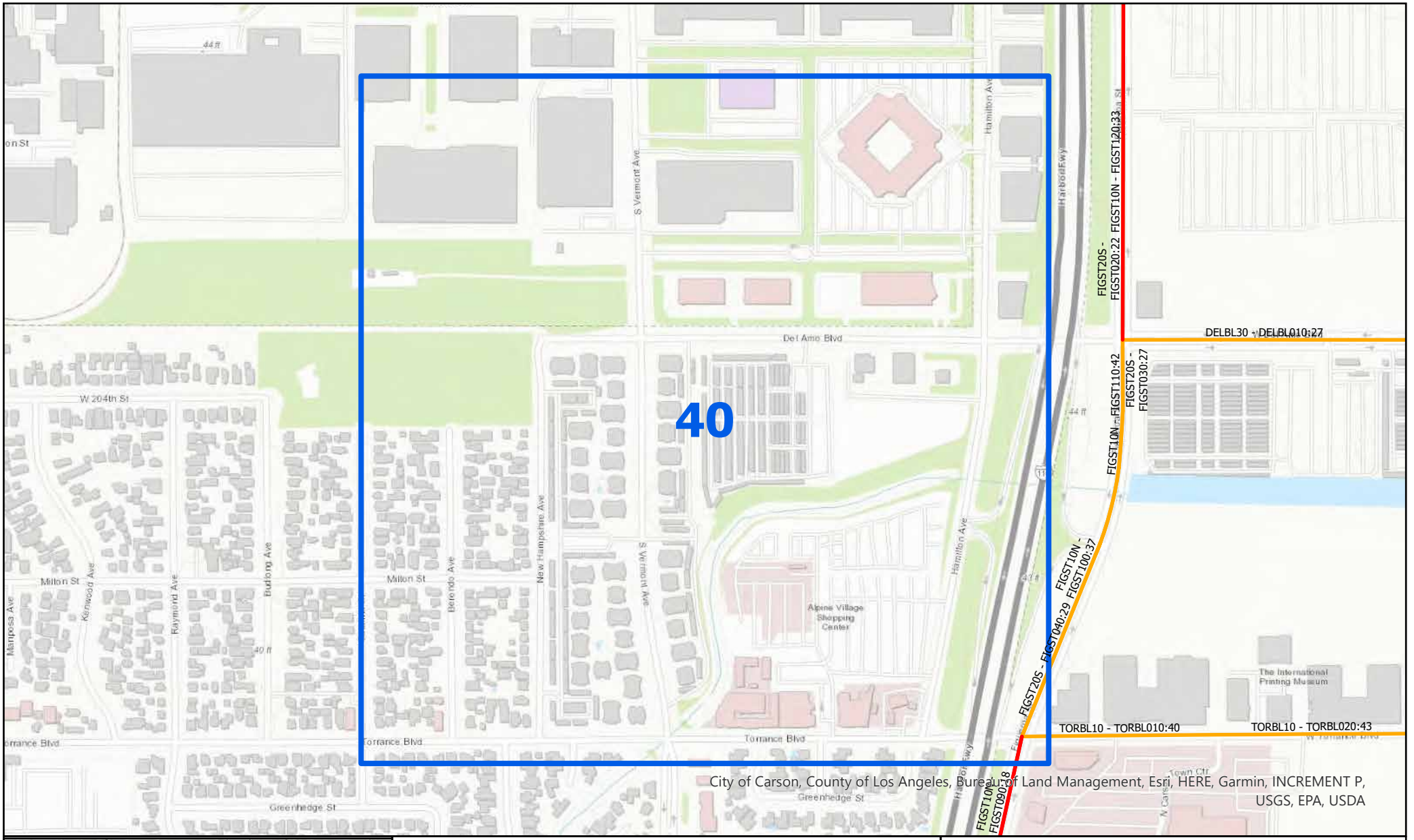
CITY OF CARSON
The Jewel of the South Bay

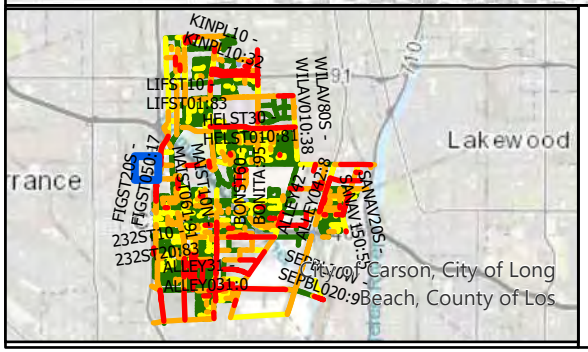
NEW MEXICO ARA

N

0 0.04 0.09 0.17 0.26 0.34 Miles

100	Category I - Very Good
70	Category II - Good (Non-Load) / Category III - Good (Load)
50	Category IV - Poor
25	Category V - Very Poor
0	





CITY OF CARSON
The Jewel of the South Bay

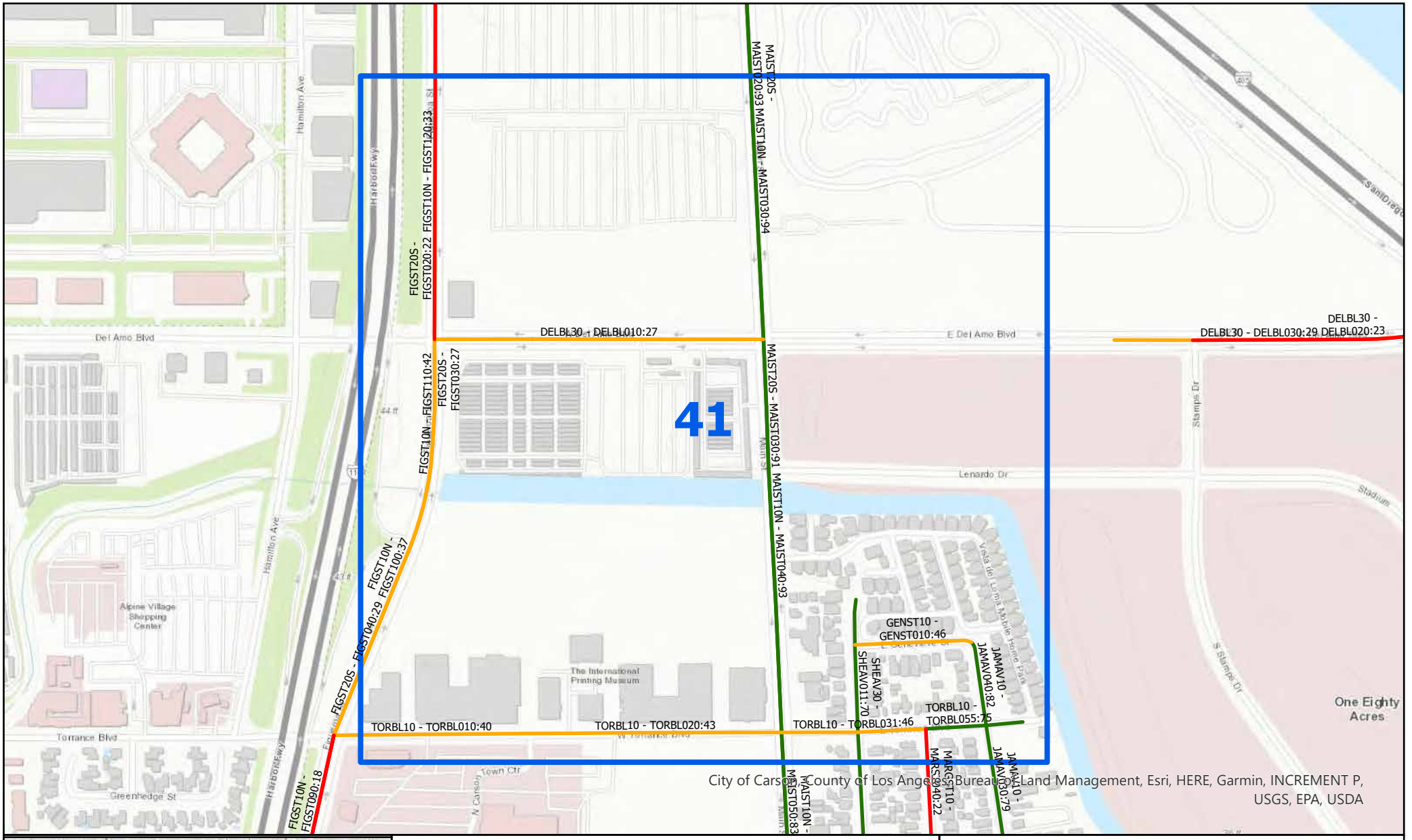
NEW MEXICO ARA

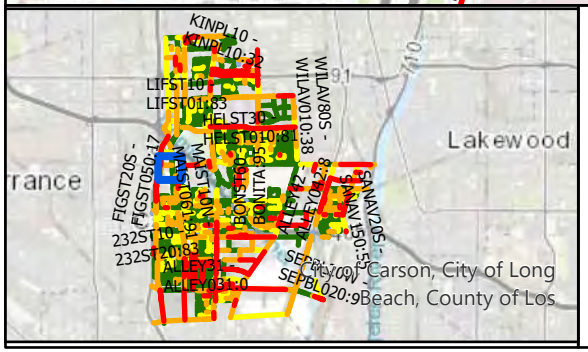
N

0 0.04 0.09 0.17 0.26 0.34 Miles

100
70
50
25
0

Category I - Very Good
Category II - Good (Non-Load) / Category III - Good (Load)
Category IV - Poor
Category V - Very Poor





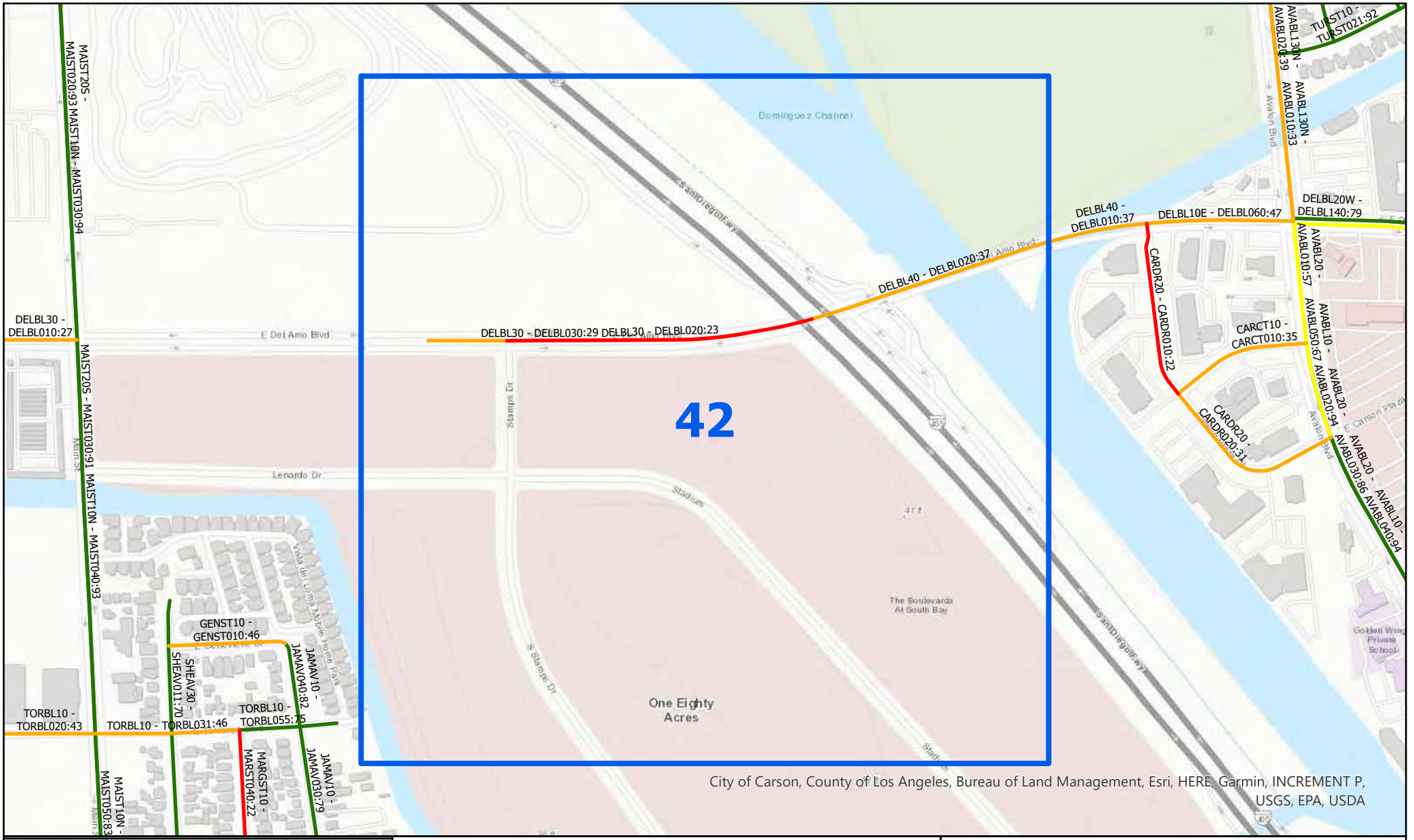
CITY OF CARSON
The Jewel of the South Bay

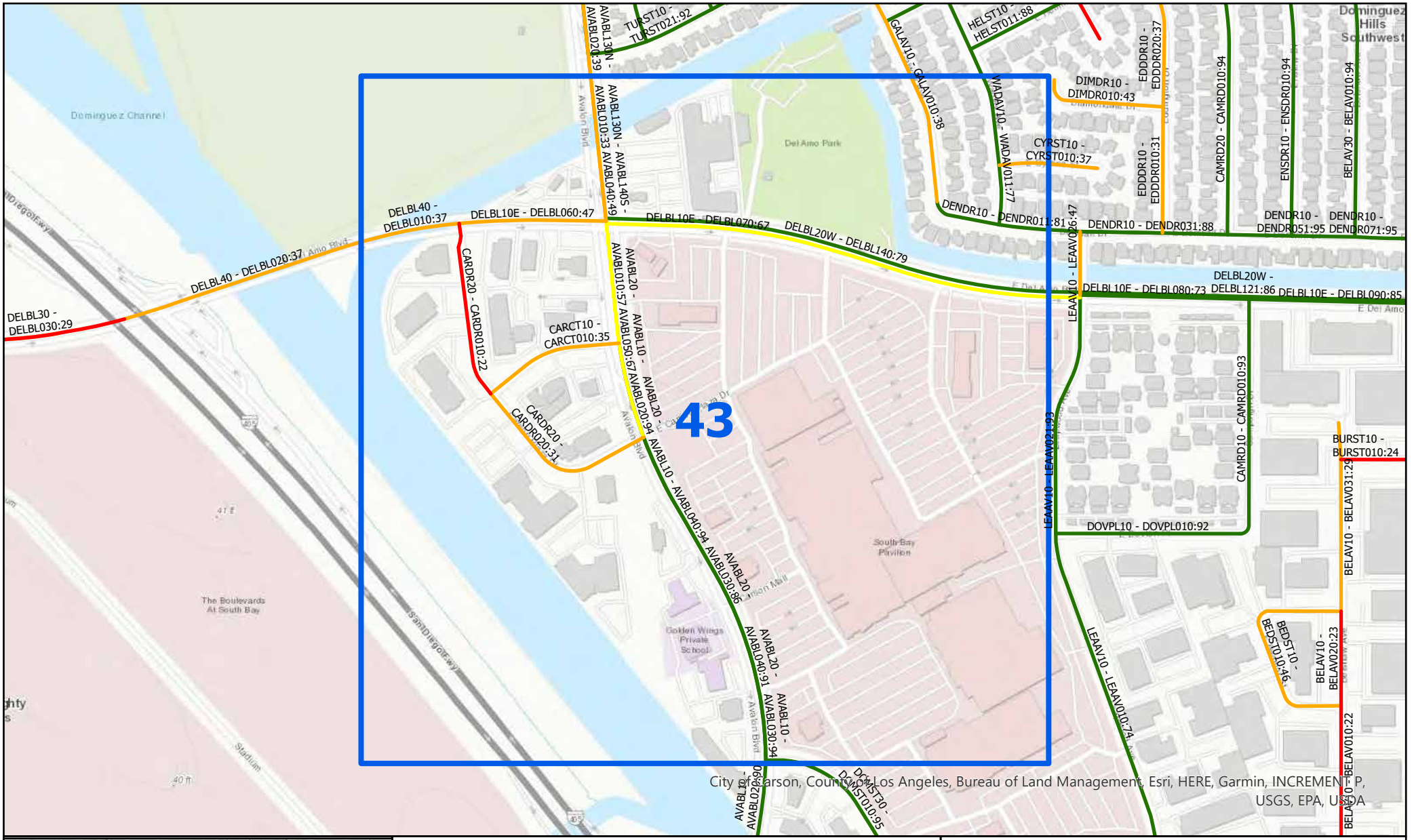
NEW MEXICO ARA

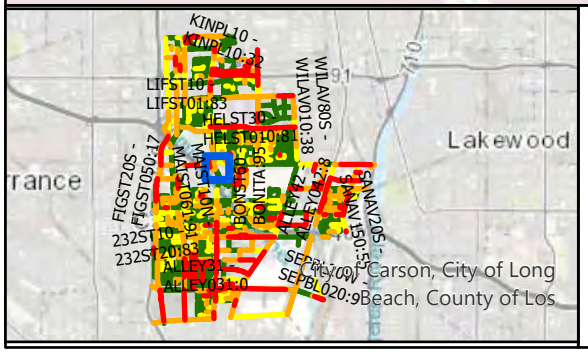
N

0 0.04 0.09 0.17 0.26 0.34 Miles

100	Category I - Very Good
70	Category II - Good (Non-Load) / Category III - Good (Load)
50	Category IV - Poor
25	Category V - Very Poor
0	


42
DELBL30 - DELBL010:27
DELBL30 - DELBL030:29 DELBL30 - DELBL020:23
DELBL40 - DELBL020:37
DELBL40 - DELBL010:37
DELBL10E - DELBL060:47
DELBL20W - DELBL140:79
MAIST20S - MAIST020:93 MAIST10N - MAIST030:94
MAIST20S - MAIST030:91 MAIST10N - MAIST040:93
MAIST10N - MAIST050:83
TORBL10 - TORBL020:43
TORBL10 - TORBL031:46
TORBL10 - TORBL055:75
GENST10 - GENST010:46
SHEAV30 - SHEAV011:70
JAMAV10 - JAMAV040:82
JAMAV10 - JAMAV030:79
MARGST10 - MARST040:22
CARDR20 - CARDR010:22
CARDR20 - CARDR020:31
CARCT10 - CARCT010:35
AVABL20 - AVABL010:57
AVABL10 - AVABL050:67
AVABL20 - AVABL020:94
AVABL20 - AVABL030:86
AVABL10 - AVABL040:94
AVABL130N - AVABL010:33
AVABL130N - AVABL021:39
TURST10 - TURST021:92
E Del Amo Blvd
Lenardo Dr
Stamps Dr
S Stamps Dr
Stadium
Dominguez Channel
San Diego Fwy
Avalon Blvd
E Carson Plaza
The Boulevards At South Bay
One Eighty Acres
Golden Wing Private School
City of Carson, County of Los Angeles, Bureau of Land Management, Esri, HERE, Garmin, INCREMENT P, USGS, EPA, USDA
KINPL10 - KINPL010:22
LIFST10 - LIFST010:83
HELST30 - HELST010:81
WILAV80S - WILAV010:38
SANAV20S - SANAV150:55
FIGST20S - FIGST050:17
232ST10 - 232ST020:83
ALLEY31 - ALLEY031:10
SEPBL20W - SEPBL020:9
Lakewood
rance
91
605
City of Carson, City of Long Beach, County of Los
CITY OF CARSON
The Jewel of the South Bay
NEW MEXICO ARA
0 0.04 0.09 0.17 0.26 0.34
Miles
N
100
70
50
25
0
Category I - Very Good
Category II - Good (Non-Load)
Category III - Good (Load)
Category IV - Poor
Category V - Very Poor





CITY OF CARSON
The Jewel of the South Bay

NEW MEXICO ARA

N

0 0.04 0.09 0.17 0.26 0.34 Miles

100
70
50
25
0

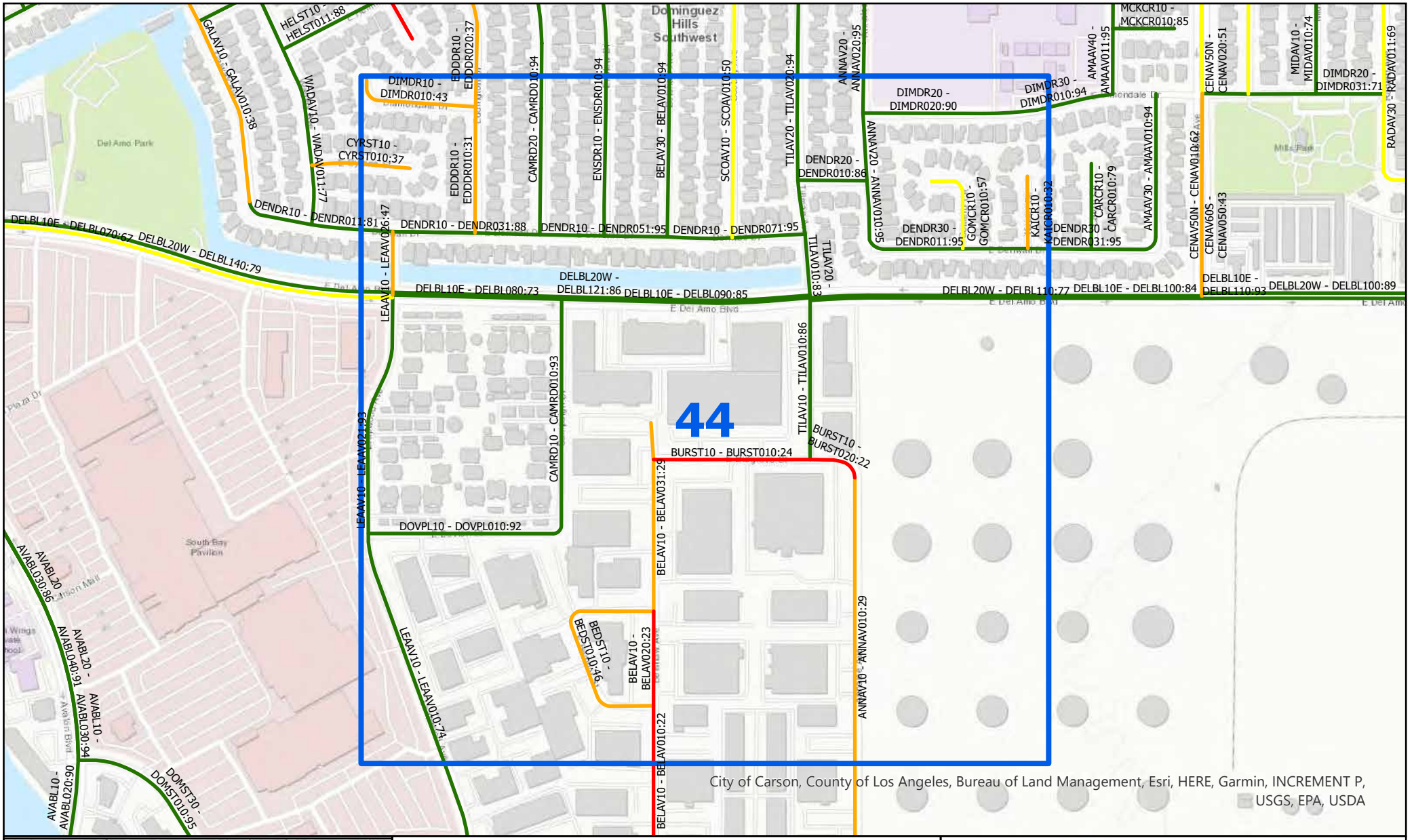
Category I - Very Good

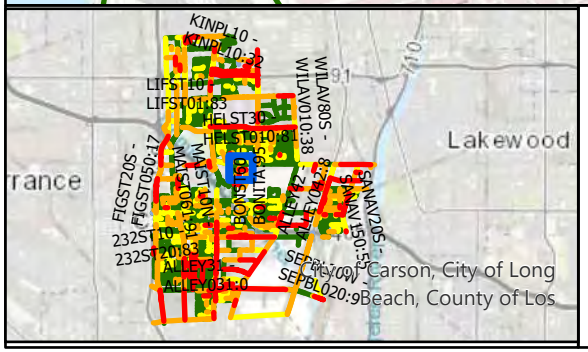
Category II - Good (Non-Load)

Category III - Good (Load)

Category IV - Poor

Category V - Very Poor





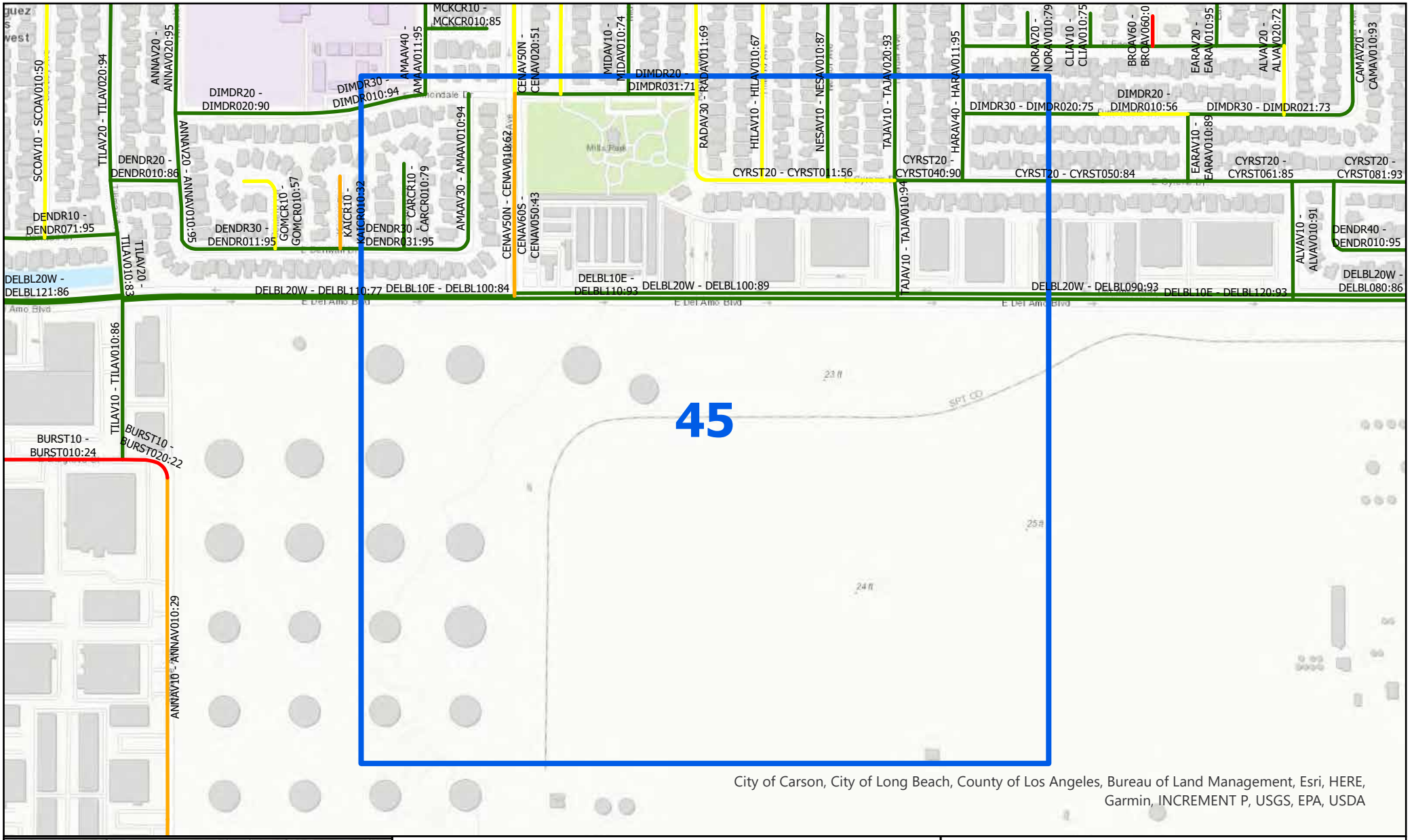
CITY OF CARSON
The Jewel of the South Bay

NEW MEXICO ARA

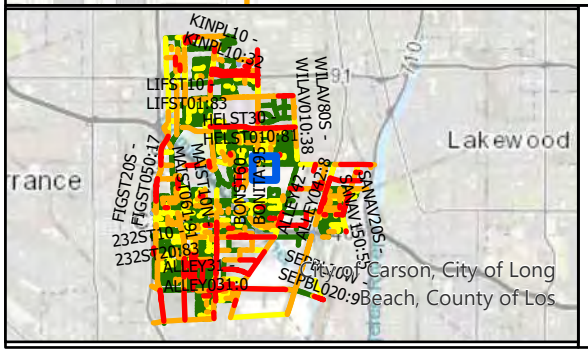
N

0 0.04 0.09 0.17 0.26 0.34 Miles

100	Category I - Very Good
70	Category II - Good (Non-Load) / Category III - Good (Load)
50	Category IV - Poor
25	Category V - Very Poor
0	



City of Carson, City of Long Beach, County of Los Angeles, Bureau of Land Management, Esri, HERE, Garmin, INCREMENT P, USGS, EPA, USDA



Carson, City of Long Beach, County of Los

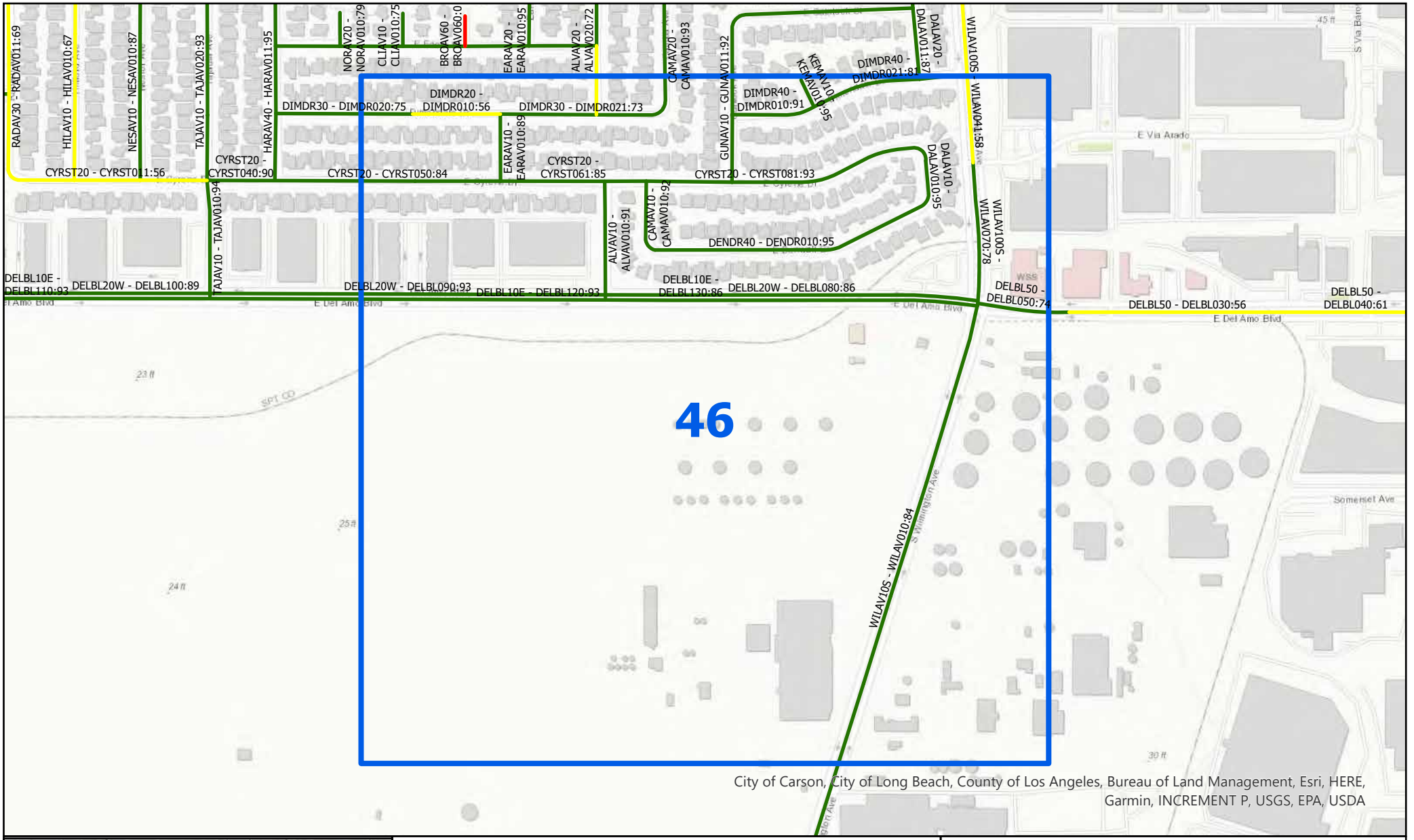
CITY OF CARSON
The Jewel of the South Bay

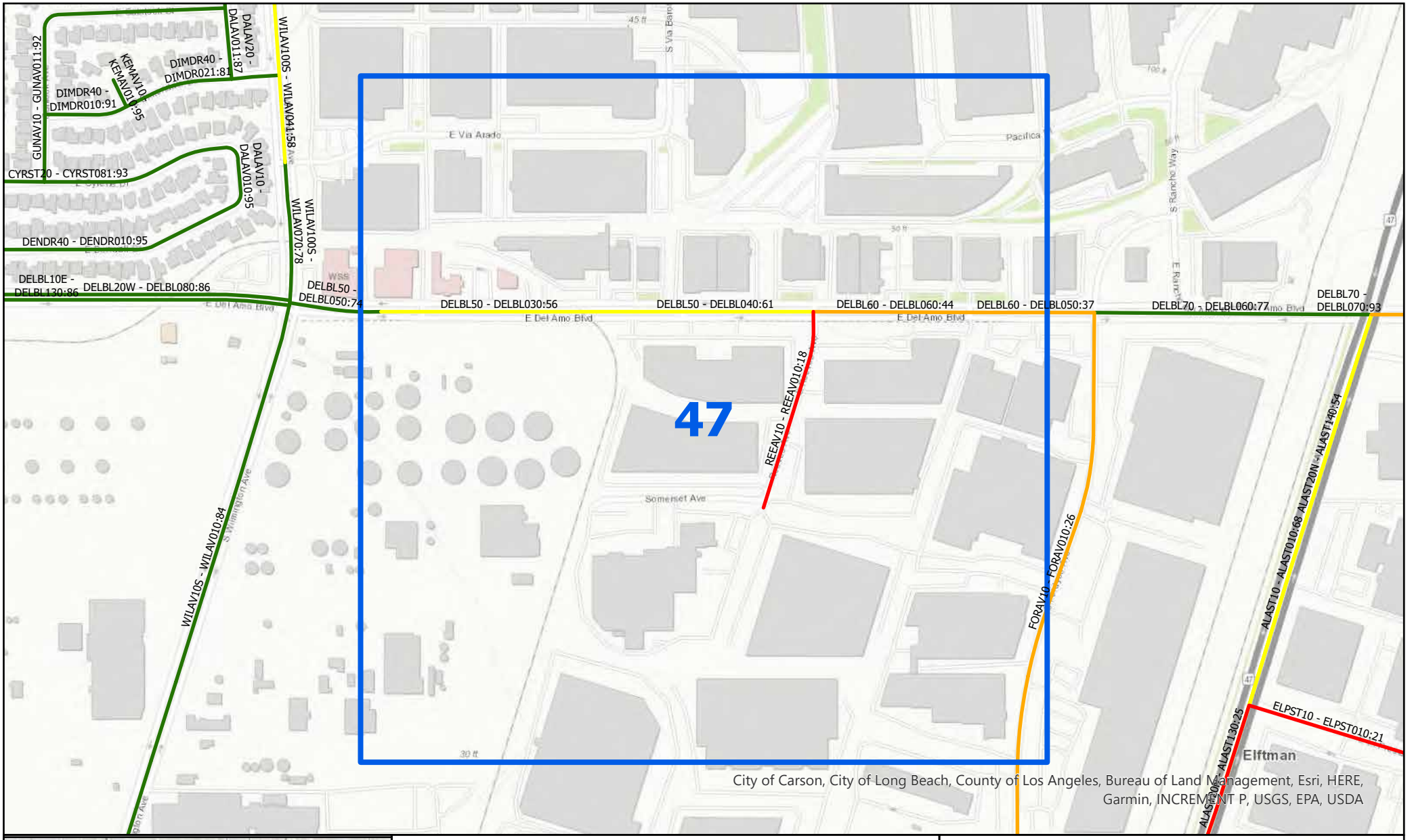
NEW MEXICO ARA

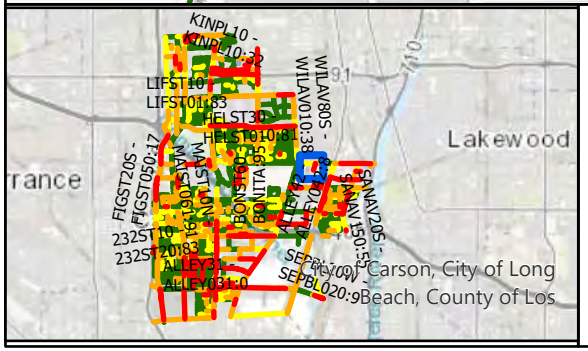
N

0 0.04 0.09 0.17 0.26 0.34 Miles

100	Category I - Very Good
70	Category II - Good (Non-Load) / Category III - Good (Load)
50	Category IV - Poor
25	Category V - Very Poor
0	


RADAV30 - RADAV011:69
HILAV10 - HILAV010:67
NESAV10 - NESAV010:87
TAJAV10 - TAJAV020:93
HARAV40 - HARAV011:95
NORAV20 - NORAV010:79
CLIAV10 - CLIAV010:75
BROAV60 - BROAV060:0
EARAV20 - EARAV010:95
ALVAV20 - ALVAV020:72
CAMAV20 - CAMAV010:93
GUNAV10 - GUNAV011:92
DALAV20 - DALAV011:87
WILAV100S - WILAV041:58
DIMDR30 - DIMDR020:75
DIMDR20 - DIMDR010:56
DIMDR30 - DIMDR021:73
DIMDR40 - DIMDR010:91
KEMAV10 - KEMAV010:95
DIMDR40 - DIMDR021:81
CYRST20 - CYRST011:56
CYRST20 - CYRST040:90
CYRST20 - CYRST050:84
EARAV10 - EARAV010:89
CYRST20 - CYRST061:85
CYRST20 - CYRST081:93
DALAV10 - DALAV010:95
TAJAV10 - TAJAV010:94
ALVAV10 - ALVAV010:91
CAMAV10 - CAMAV010:92
DENDR40 - DENDR010:95
WILAV100S - WILAV070:78
DELBL10E - DELBL110:93
DELBL20W - DELBL100:89
DELBL20W - DELBL090:93
DELBL10E - DELBL120:93
DELBL10E - DELBL130:86
DELBL20W - DELBL080:86
DELBL50 - DELBL050:74
DELBL50 - DELBL030:56
DELBL50 - DELBL040:61
E Via Arado
E Del Amo Blvd
Somerset Ave
S Wilmington Ave
WILAV10S - WILAV010:84
46
City of Carson, City of Long Beach, County of Los Angeles, Bureau of Land Management, Esri, HERE, Garmin, INCREMENT P, USGS, EPA, USDA
Lakewood
City of Carson, City of Long Beach, County of Los
CITY OF CARSON
The Jewel of the South Bay
NEW MEXICO ARA
N
0 0.04 0.09 0.17 0.26 0.34
Miles
100
70
50
25
0
Category I - Very Good
Category II - Good (Non-Load)
Category III - Good (Load)
Category IV - Poor
Category V - Very Poor





CITY OF CARSON
The Jewel of the South Bay

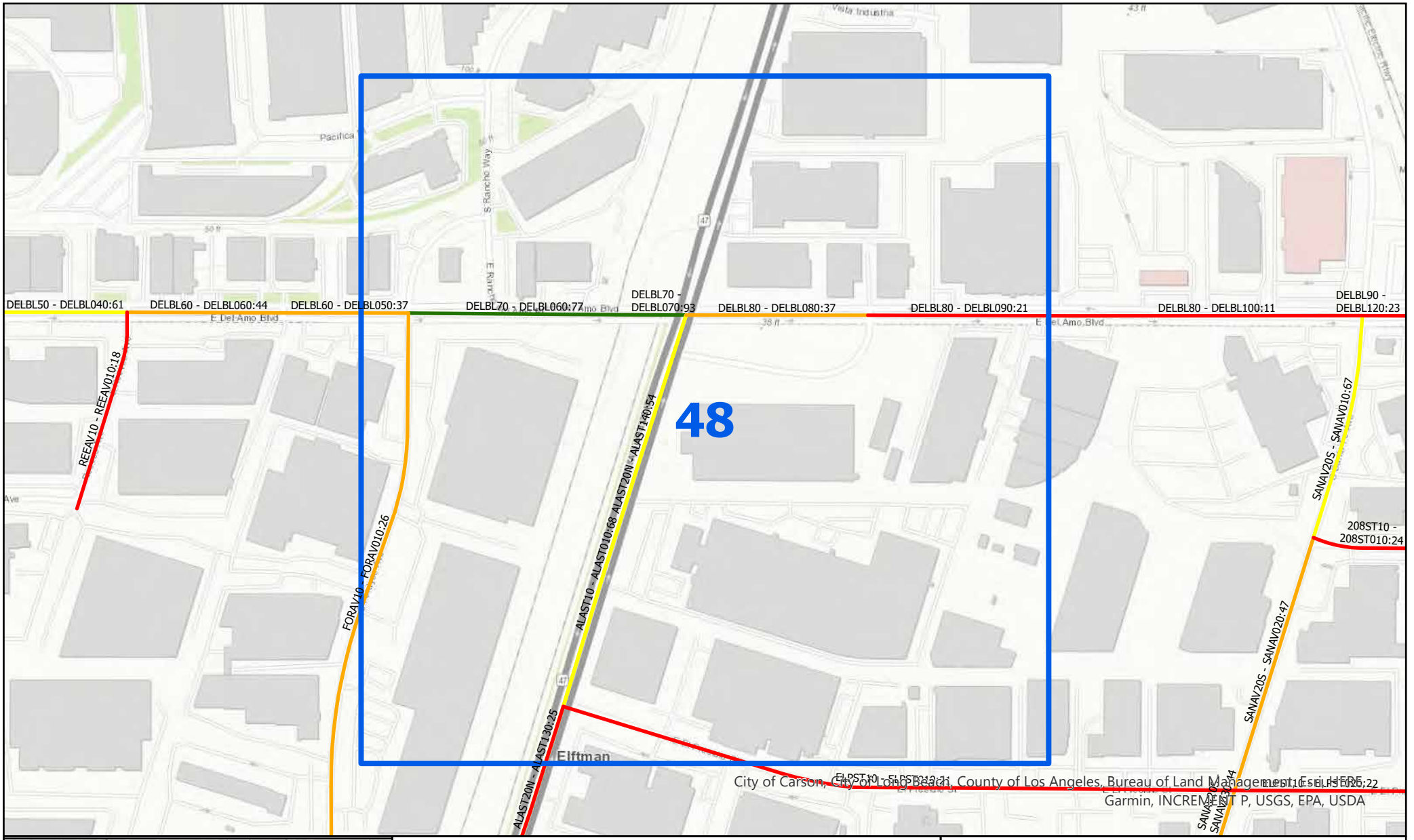
NEW MEXICO ARA

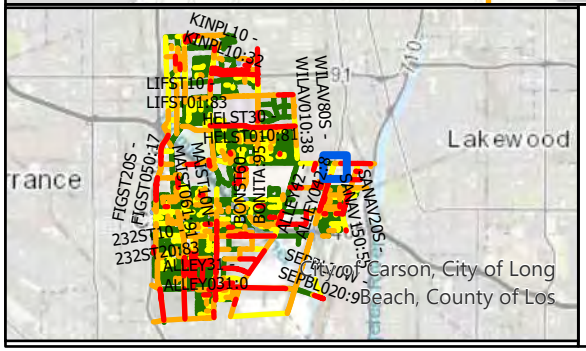
N

0 0.04 0.09 0.17 0.26 0.34 Miles

100
70
50
25
0

Category I - Very Good
Category II - Good (Non-Load)
Category III - Good (Load)
Category IV - Poor
Category V - Very Poor





CITY OF CARSON
The Jewel of the South Bay

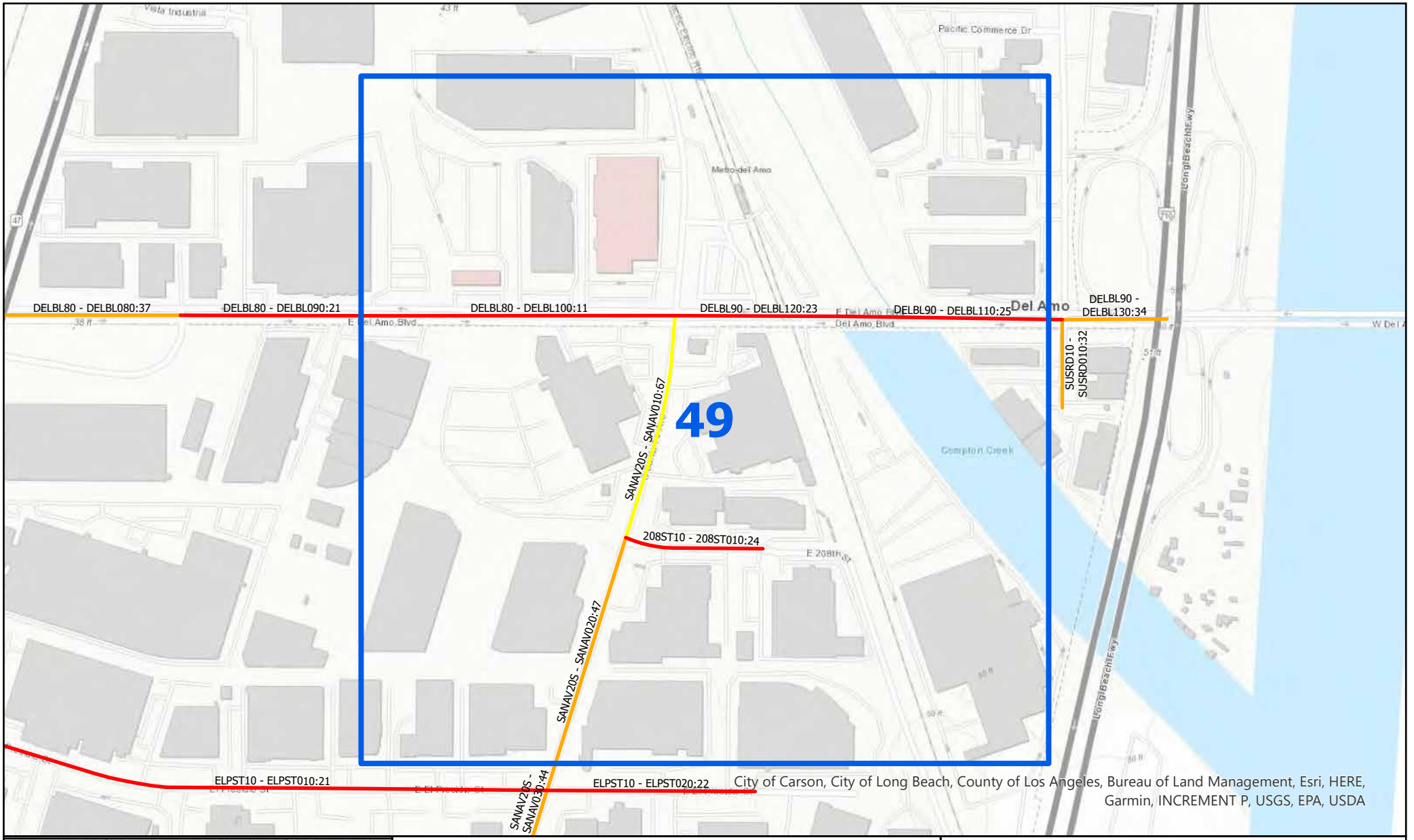
NEW MEXICO ARA

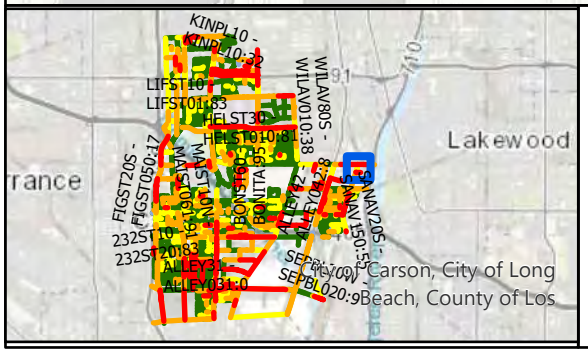
N

0 0.04 0.09 0.17 0.26 0.34
Miles

100
70
50
25
0

Category I - Very Good
Category II - Good (Non-Load)
Category III - Good (Load)
Category IV - Poor
Category V - Very Poor





CITY OF CARSON
The Jewel of the South Bay

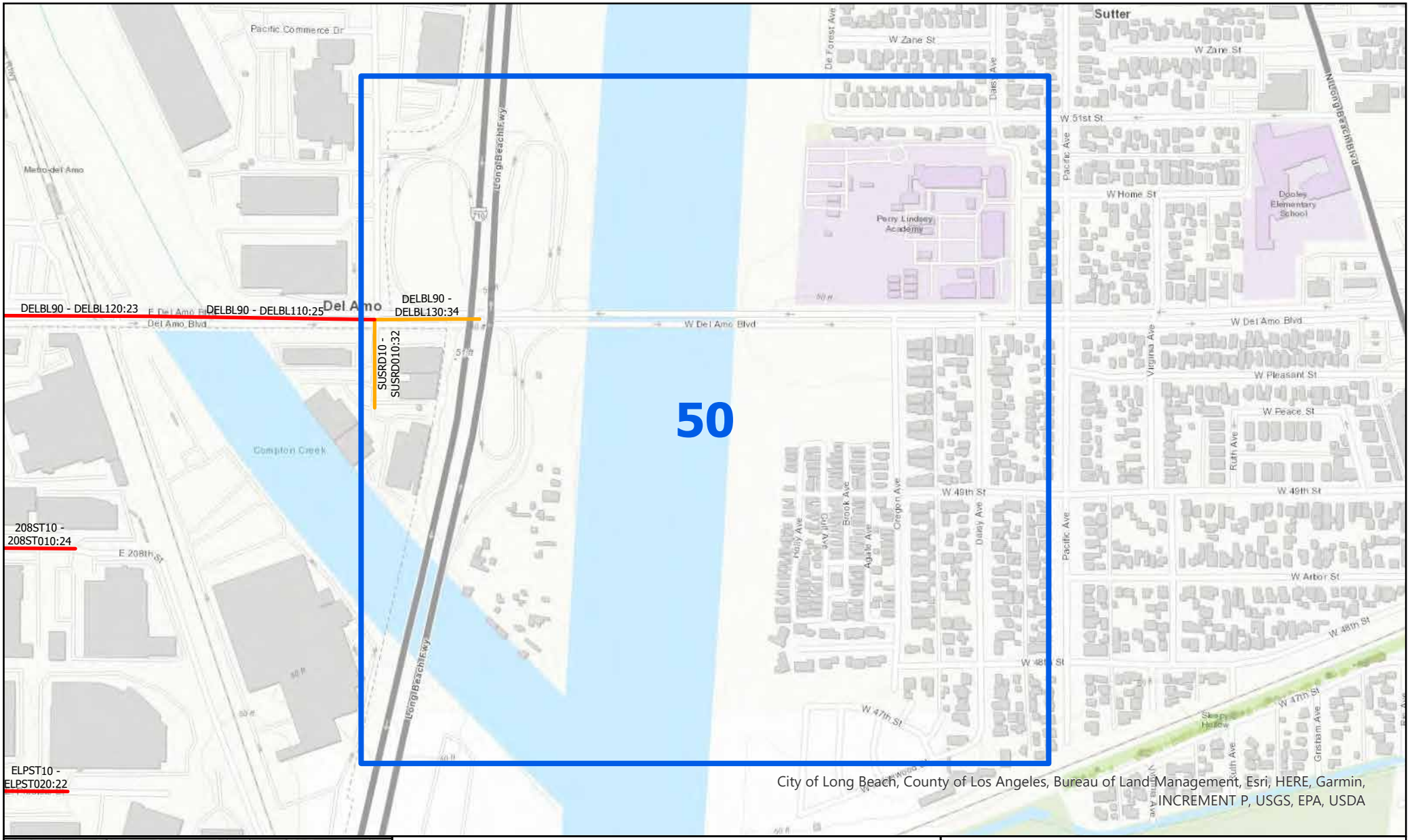
NEW MEXICO ARA

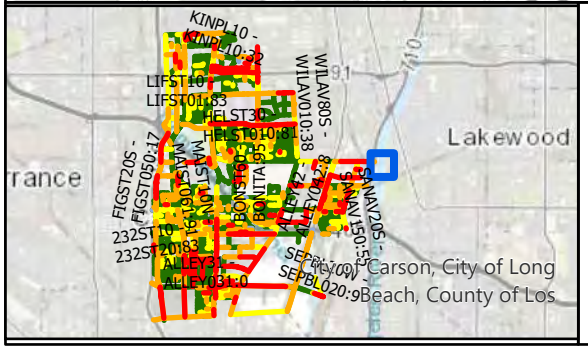
N

0 0.04 0.09 0.17 0.26 0.34 Miles

100
70
50
25
0

Category I - Very Good
Category II - Good (Non-Load)
Category III - Good (Load)
Category IV - Poor
Category V - Very Poor





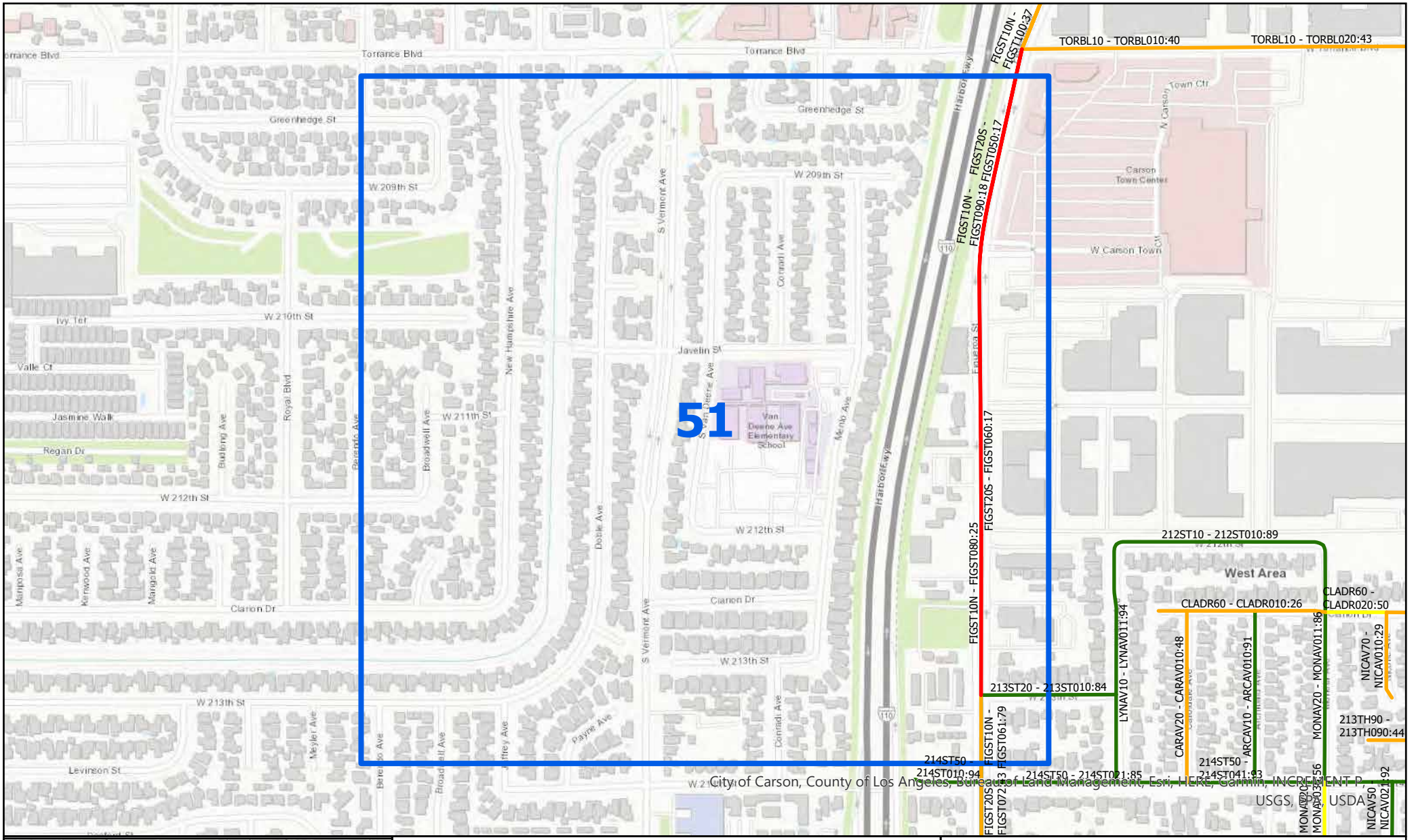
CITY OF CARSON
The Jewel of the South Bay

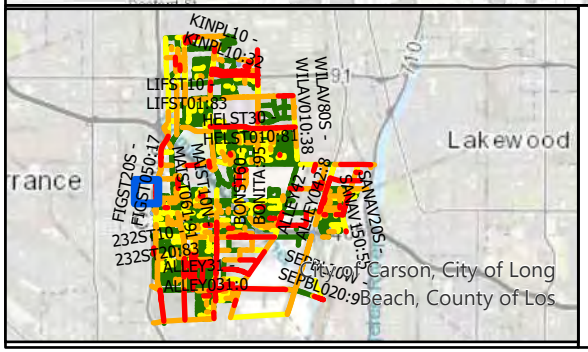
NEW MEXICO ARA

N

0 0.04 0.09 0.17 0.26 0.34 Miles

100	Category I - Very Good
70	Category II - Good (Non-Load) / Category III - Good (Load)
50	Category IV - Poor
25	Category V - Very Poor
0	





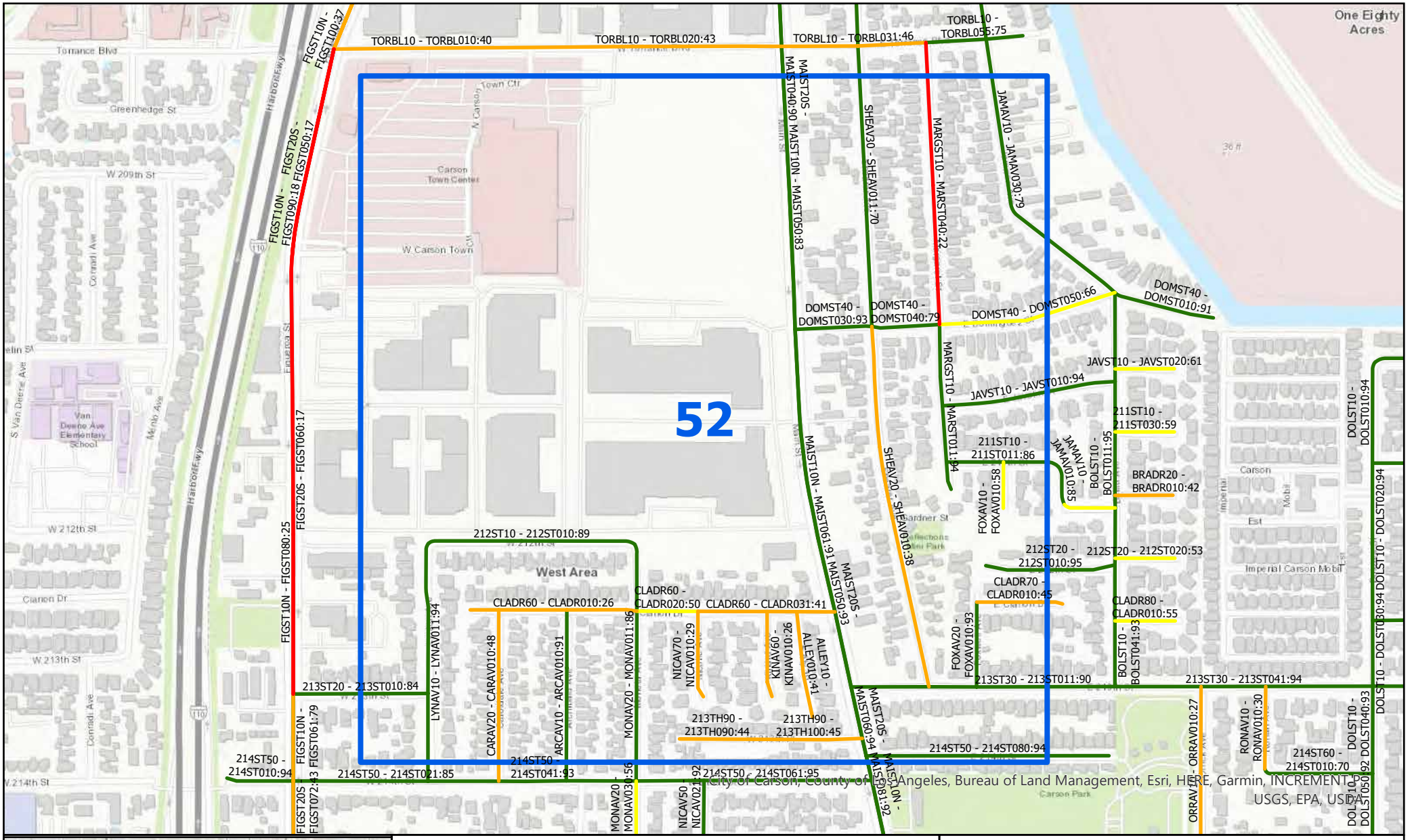
CITY OF CARSON
The Jewel of the South Bay

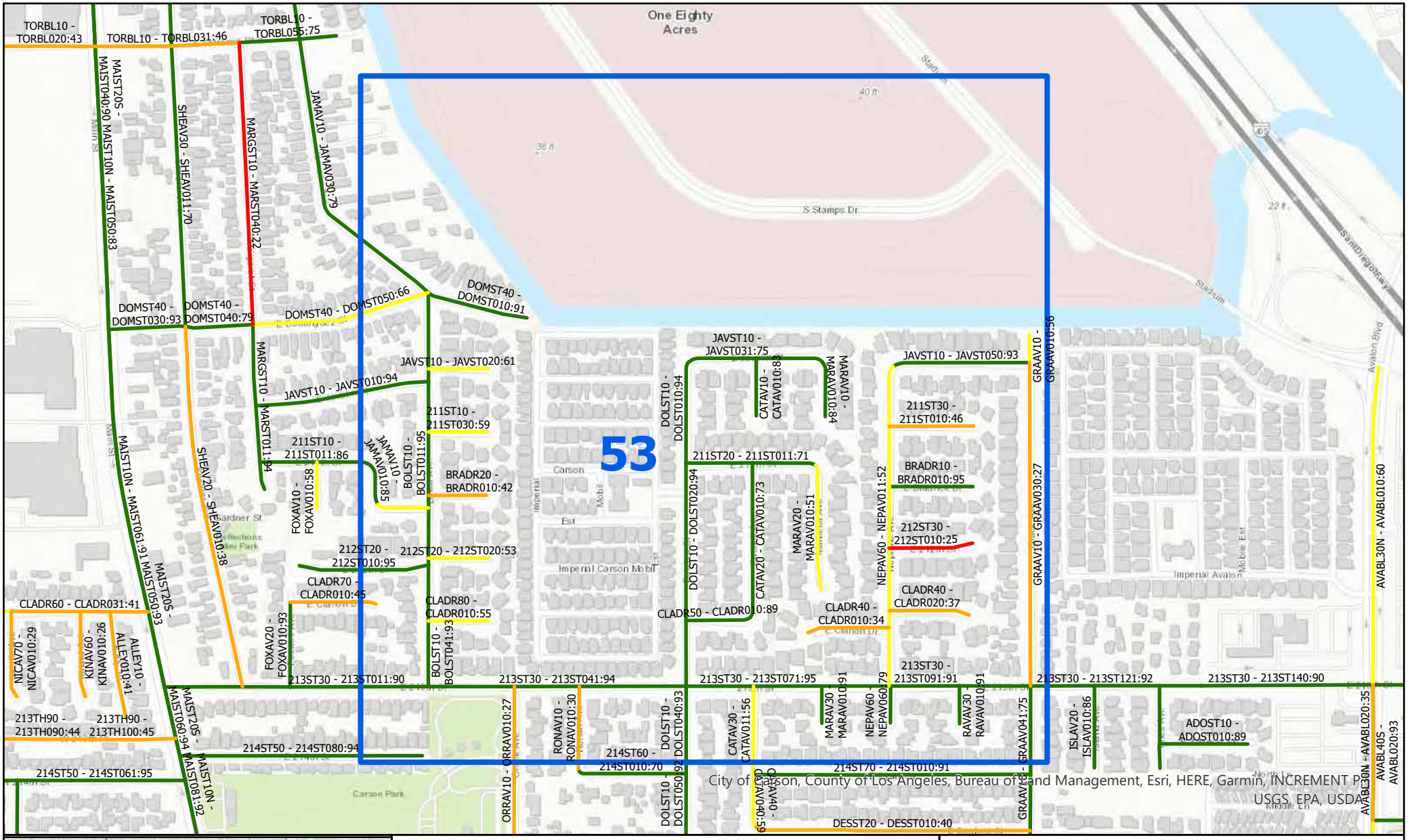
NEW MEXICO ARA

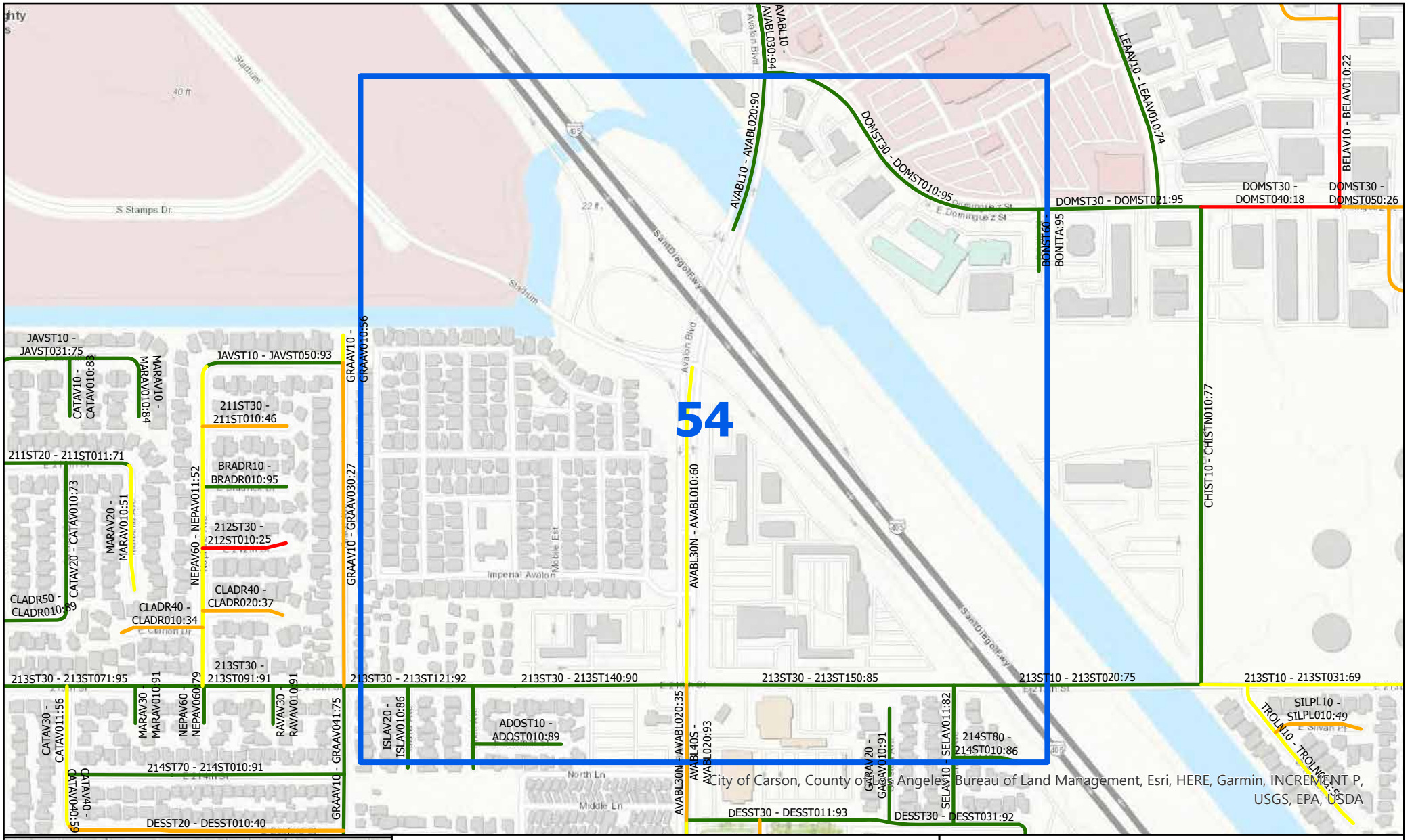
N

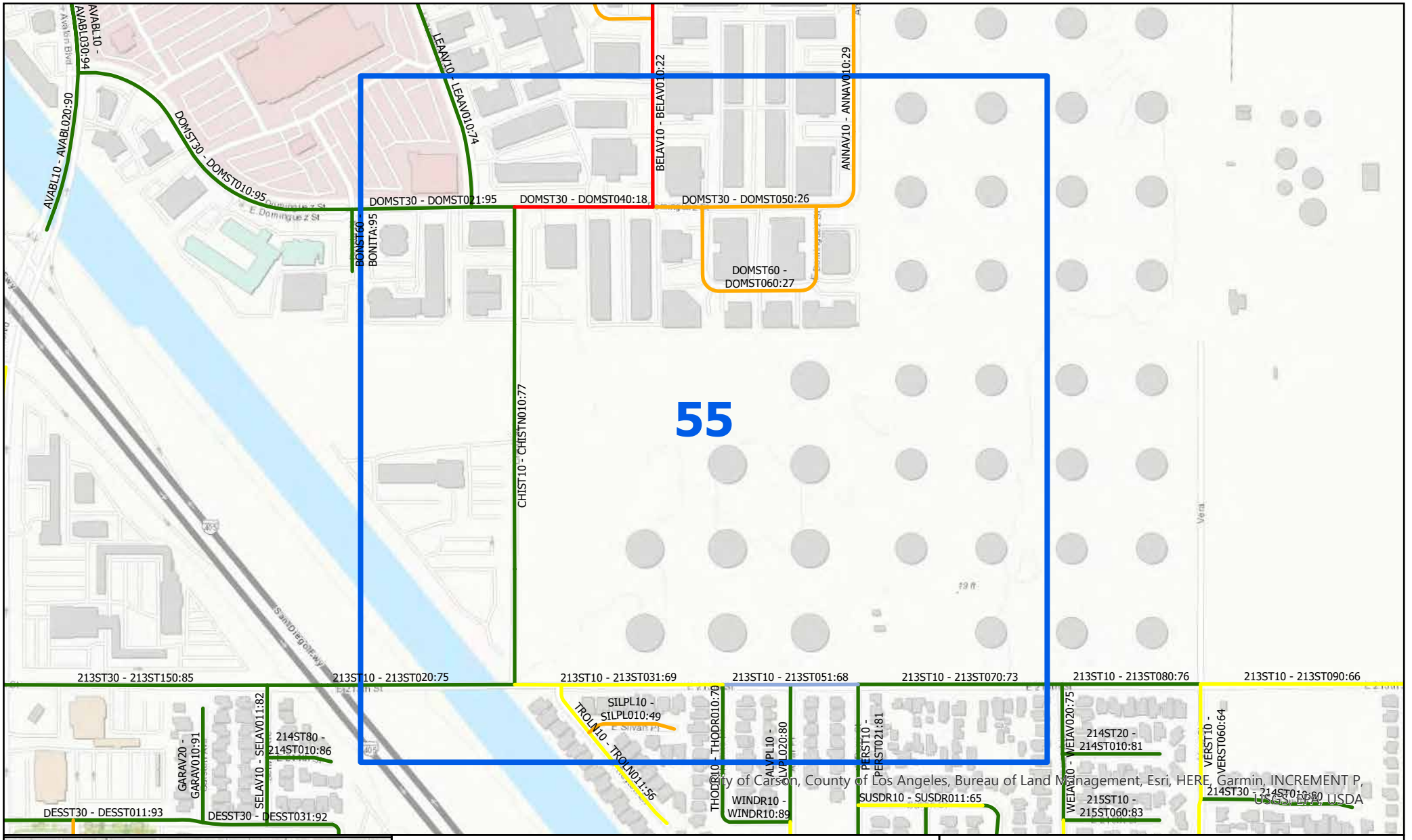
0 0.04 0.09 0.17 0.26 0.34 Miles

100	Category I - Very Good
70	Category II - Good (Non-Load) / Category III - Good (Load)
50	Category IV - Poor
25	Category V - Very Poor
0	

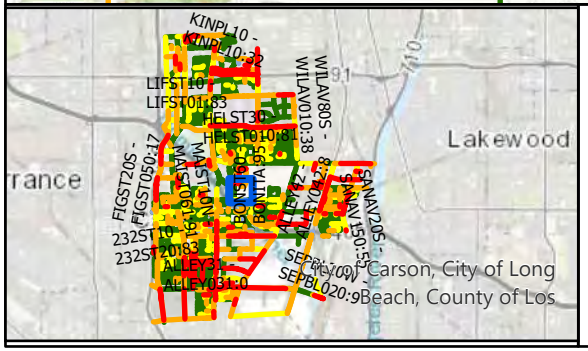

52
West Area
One Eighty Acres
TORBL10 - TORBL010:40
TORBL10 - TORBL020:43
TORBL10 - TORBL031:46
TORBL10 - TORBL055:75
FIGST10N - FIGST100:37
FIGST10N - FIGST090:18
FIGST20S - FIGST050:17
FIGST10N - FIGST080:25
FIGST20S - FIGST060:17
MAIST20S - MAIST040:90
MAIST10N - MAIST050:83
SHEAV30 - SHEAV011:70
MARGST10 - MARST040:22
JAMAV10 - JAMAV030:79
DOMST40 - DOMST030:93
DOMST40 - DOMST040:79
DOMST40 - DOMST050:66
DOMST40 - DOMST010:91
MARGST10 - MARST011:94
JAVST10 - JAVST020:61
JAVST10 - JAVST010:94
211ST10 - 211ST030:59
211ST10 - 211ST011:86
JAMAV10 - JAMAV010:85
BOLST10 - BOLST011:95
BRADR20 - BRADR010:42
DOLST10 - DOLST010:94
DOLST10 - DOLST020:94
DOLST10 - DOLST080:94
MAIST10N - MAIST061:91
MAIST20S - MAIST050:93
SHEAV20 - SHEAV010:38
FOXAV10 - FOXAV010:58
212ST10 - 212ST010:89
212ST20 - 212ST010:95
212ST20 - 212ST020:53
CLADR70 - CLADR010:45
CLADR80 - CLADR010:55
CLADR60 - CLADR020:50
CLADR60 - CLADR010:26
CLADR60 - CLADR031:41
FOXAV20 - FOXAV010:93
BOLST10 - BOLST041:93
213ST20 - 213ST010:84
213ST30 - 213ST011:90
213ST30 - 213ST041:94
LYNAV10 - LYNAV011:94
CARAV20 - CARAV010:48
ARCAV10 - ARCAV010:91
MONAV20 - MONAV011:86
NICAV70 - NICAV010:29
KINAV60 - KINAV010:26
ALLEY10 - ALLEY010:41
213TH90 - 213TH090:44
213TH90 - 213TH100:45
MAIST20S - MAIST060:94
MAIST10N - MAIST081:92
214ST50 - 214ST080:94
214ST50 - 214ST010:94
214ST50 - 214ST021:85
214ST50 - 214ST041:93
214ST50 - 214ST061:95
FIGST20S - FIGST072:43
FIGST10N - FIGST061:79
MONAV20 - MONAV031:56
NICAV50 - NICAV021:92
ORRAV10 - ORRAV010:27
RONAV10 - RONAV010:30
DOLST10 - DOLST040:93
DOLST10 - DOLST050:92
214ST60 - 214ST010:70
Torrance Blvd
Greenhedge St
W 209th St
W Carson Town Ctr
Carson Town Center
Van Deene Ave Elementary School
W 212th St
Clarion Dr
W 213th St
W 214th St
Harbor Fwy
Carson
Imperial Carson Mobil Est
Carson Park
36 ft
Gardner St
Lakewood
Carson, City of Long Beach, County of Los Angeles, Bureau of Land Management, Esri, HERE, Garmin, INCREMENT P, USGS, EPA, USDA
0 0.04 0.09 0.17 0.26 0.34
Miles
CITY OF CARSON
The Jewel of the South Bay
NEW MEXICO ARA
N
Category I - Very Good
Category II - Good (Non-Load)
Category III - Good (Load)
Category IV - Poor
Category V - Very Poor
100
70
50
25
0


53
One Eighty Acres
S Stamps Dr
Carson Park
Imperial Carson Mobil Est
Imperial Avalon Mobil Est
TORBL10 - TORBL020:43
TORBL10 - TORBL031:46
TORBL10 - TORBL055:75
MAIST20S - MAIST040:90
MAIST10N - MAIST050:83
SHEAV30 - SHEAV011:70
MARGST10 - MARST040:22
JAMAV10 - JAMAV030:79
DOMST40 - DOMST030:93
DOMST40 - DOMST040:79
DOMST40 - DOMST050:66
DOMST40 - DOMST010:91
MARGST10 - MARST011:94
JAVST10 - JAVST020:61
JAVST10 - JAVST010:94
211ST10 - 211ST030:59
211ST10 - 211ST011:86
JAMAV10 - JAMAV010:85
BOLST10 - BOLST011:95
BRADR20 - BRADR010:42
FOXAV10 - FOXAV010:58
SHEAV20 - SHEAV010:38
MAIST10N - MAIST061:91
MAIST20S - MAIST050:93
212ST20 - 212ST010:95
212ST20 - 212ST020:53
CLADR70 - CLADR010:45
CLADR80 - CLADR010:55
CLADR60 - CLADR031:41
FOXAV20 - FOXAV010:93
BOLST10 - BOLST041:93
213ST30 - 213ST011:90
213ST30 - 213ST041:94
NICAV70 - NICAV010:29
KINAV60 - KINAV010:26
ALLEY10 - ALLEY010:41
213TH90 - 213TH090:44
213TH90 - 213TH100:45
MAIST20S - MAIST060:94
MAIST10N - MAIST081:92
214ST50 - 214ST080:94
214ST50 - 214ST061:95
ORRAV10 - ORRAV010:27
RONAV10 - RONAV010:30
214ST60 - 214ST010:70
DOLST10 - DOLST040:93
DOLST10 - DOLST050:92
JAVST10 - JAVST031:75
CATAV10 - CATAV010:83
MARAV10 - MARAV010:84
DOLST10 - DOLST010:94
211ST20 - 211ST011:71
DOLST10 - DOLST020:94
CATAV20 - CATAV010:73
MARAV20 - MARAV010:51
CLADR50 - CLADR010:89
CLADR40 - CLADR010:34
213ST30 - 213ST071:95
CATAV30 - CATAV011:56
MARAV30 - MARAV010:91
NEPAV60 - NEPAV060:79
214ST70 - 214ST010:91
CATAV40 - CATAV040:59
DESST20 - DESST010:40
JAVST10 - JAVST050:93
211ST30 - 211ST010:46
BRADR10 - BRADR010:95
212ST30 - 212ST010:25
NEPAV60 - NEPAV011:52
CLADR40 - CLADR020:37
213ST30 - 213ST091:91
RAVAV30 - RAVAV010:91
GRAAV10 - GRAAV010:86
GRAAV10 - GRAAV030:27
GRAAV30 - GRAAV041:75
213ST30 - 213ST121:92
213ST30 - 213ST140:90
ISLAV20 - ISLAV010:86
ADOST10 - ADOST010:89
AVABL30N - AVABL010:60
AVABL30N - AVABL020:35
AVABL40S - AVABL020:93
City of Carson, County of Los Angeles, Bureau of Land Management, Esri, HERE, Garmin, INCREMENT P, USGS, EPA, USDA
KINPL10 - KINPL10:22
LIFST10 - LIFST010:83
HELST30 - HELST010:81
WILAV80S - WILAV010:38
SANAV20S - SANAV150:55
FIGST20S - FIGST050:17
SEPBL20S - SEPBL020:9
Lakewood
Carson, City of Long Beach, County of Los
CITY OF CARSON
The Jewel of the South Bay
NEW MEXICO ARA
N
0 0.04 0.09 0.17 0.26 0.34
Miles
100
70
50
25
0
Category I - Very Good
Category II - Good (Non-Load)
Category III - Good (Load)
Category IV - Poor
Category V - Very Poor


54
JAVST10 - JAVST031:75
JAVST10 - JAVST050:93
CATAV10 - CATAV010:83
MARAV10 - MARAV010:84
211ST30 - 211ST010:46
211ST20 - 211ST011:71
BRADR10 - BRADR010:95
MARAV20 - MARAV010:51
CATAV20 - CATAV010:73
NEPAV60 - NEPAV011:52
212ST30 - 212ST010:25
CLADR50 - CLADR010:39
CLADR40 - CLADR020:37
CLADR40 - CLADR010:34
GRAAV10 - GRAAV010:56
GRAAV10 - GRAAV030:27
213ST30 - 213ST091:91
213ST30 - 213ST071:95
213ST30 - 213ST121:92
213ST30 - 213ST140:90
213ST30 - 213ST150:85
213ST10 - 213ST020:75
213ST10 - 213ST031:69
AVABL30N - AVABL010:60
AVABL10 - AVABL030:94
AVABL10 - AVABL020:90
DOMST30 - DOMST010:95
DOMST30 - DOMST021:95
LEAAV10 - LEAAV010:74
BELAV10 - BELAV010:22
DOMST30 - DOMST040:18
DOMST30 - DOMST050:26
BONST60 - BONITA:95
CHIST10 - CHISTN010:77
MARAV30 - MARAV010:91
NEPAV60 - NEPAV060:79
RAVAV30 - RAVAV010:91
CATAV30 - CATAV011:56
ISLAV20 - ISLAV010:86
ADOST10 - ADOST010:89
214ST70 - 214ST010:91
GRAAV10 - GRAAV041:75
CATAV40 - CATAV040:59
DESST20 - DESST010:40
AVABL40S - AVABL020:35
AVABL30N - AVABL020:93
GARAV20 - GARAV010:91
SELAV10 - SELAV011:82
214ST80 - 214ST010:86
DESST30 - DESST011:93
DESST30 - DESST031:92
SILPL10 - SILPL010:49
TROLN10 - TROLN010:55
S Stamps Dr
Stadium
Avalon Blvd
E Domingue z St
Santa Catalina Island
Imperial Avalon
Mobile Est
E Clinton Dr
North Ln
Middle Ln
E Sinan Pl
E 213th St
City of Carson, County of Los Angeles, Bureau of Land Management, Esri, HERE, Garmin, INCREMENT P, USGS, EPA, USDA
KINPL10 - KINPL010:22
LIFST10 - LIFST010:83
HELST30 - HELST010:81
WILAV080:33 - WILAV010:83
FIGST20S - FIGST050:17
BONST60 - BONITA:95
SANAV20S - SANAV150:55
SEPBL020:90
ALLEY31 - ALLEY031:10
Lakewood
rance
Carson, City of Long Beach, County of Los
CITY OF CARSON
The Jewel of the South Bay
NEW MEXICO ARA
0 0.04 0.09 0.17 0.26 0.34
Miles
N
100
70
50
25
0
Category I - Very Good
Category II - Good (Non-Load)
Category III - Good (Load)
Category IV - Poor
Category V - Very Poor



City of Carson, County of Los Angeles, Bureau of Land Management, Esri, HERE, Garmin, INCREMENT P, USGS, EPA, USDA

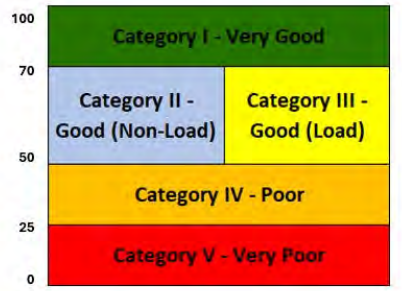


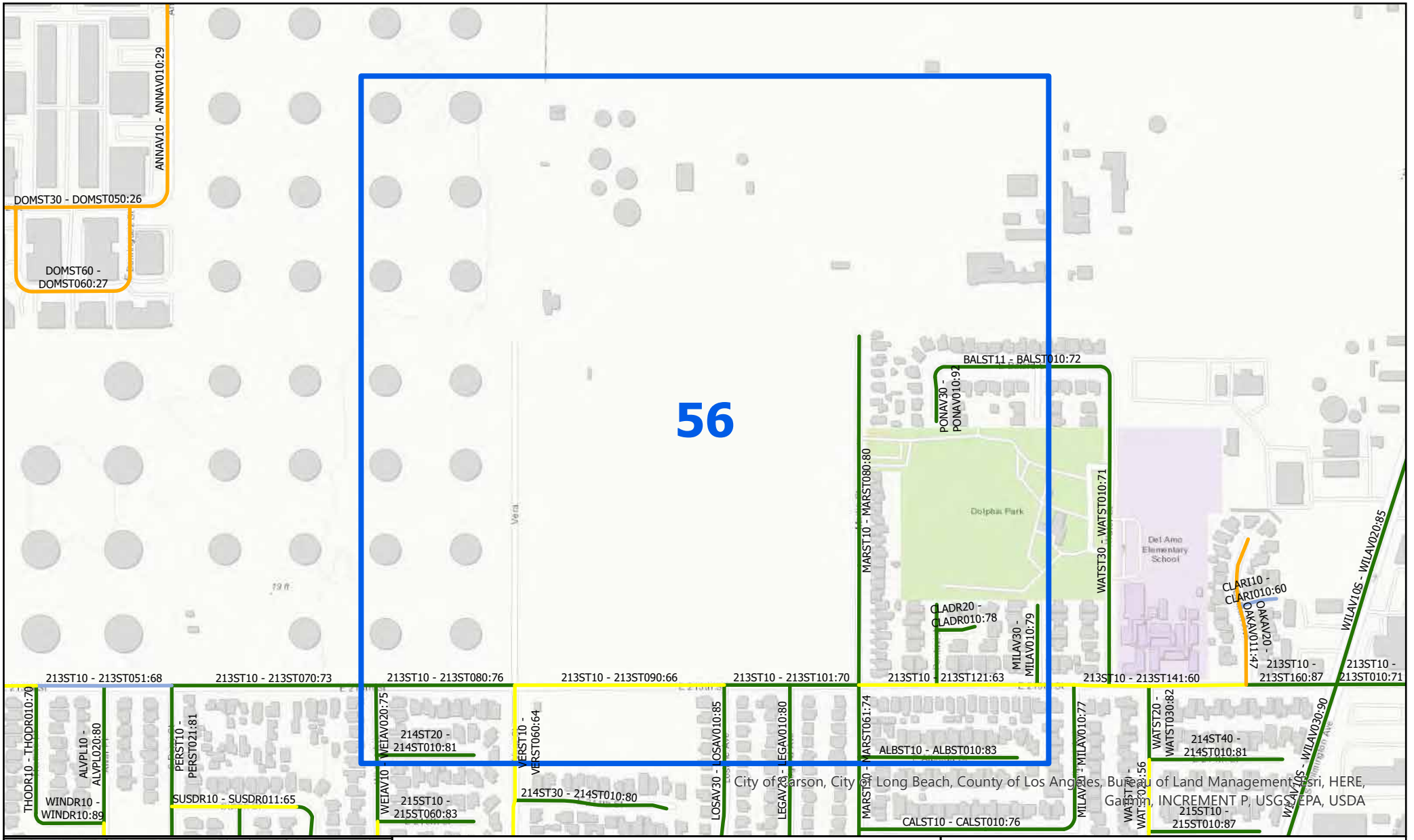
CITY OF CARSON
The Jewel of the South Bay

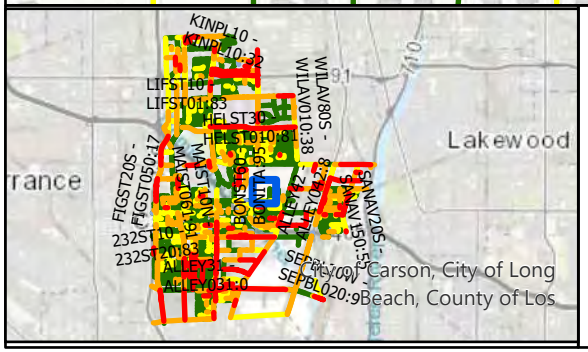
NEW MEXICO ARA

N

0 0.04 0.09 0.17 0.26 0.34 Miles







CITY OF CARSON
The Jewel of the South Bay

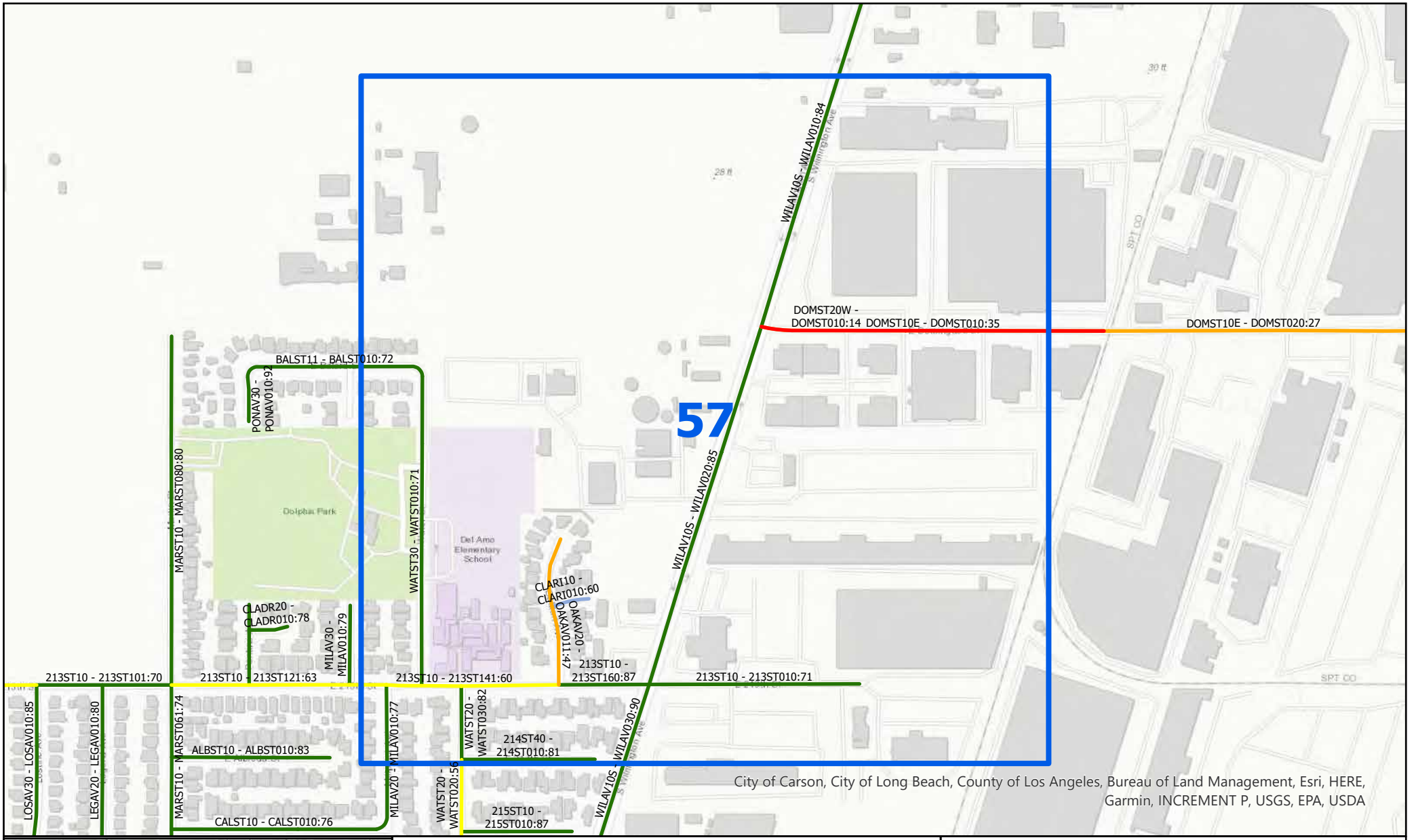
NEW MEXICO ARA

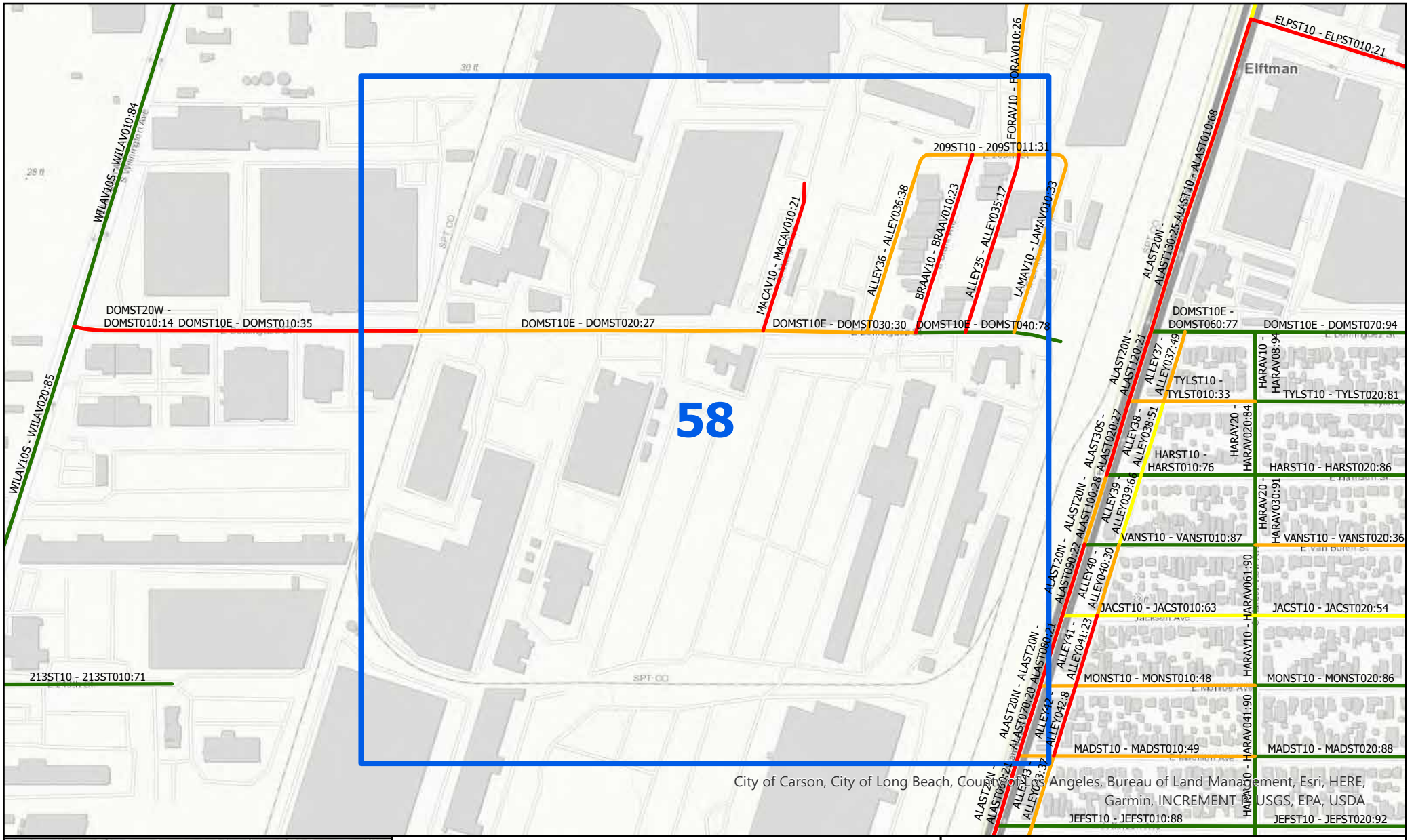
N

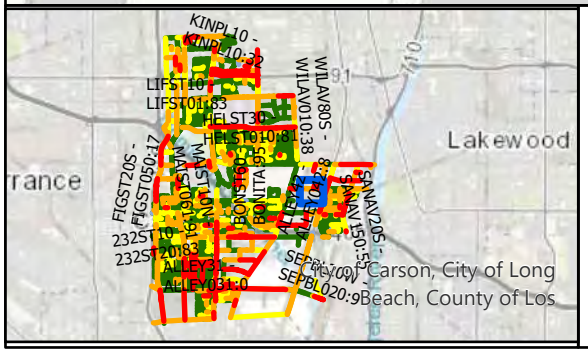
0 0.04 0.09 0.17 0.26 0.34 Miles

100
70
50
25
0

Category I - Very Good
Category II - Good (Non-Load)
Category III - Good (Load)
Category IV - Poor
Category V - Very Poor


57
WILAV10S - WILAV010:84
DOMST20W - DOMST010:14
DOMST10E - DOMST010:35
DOMST10E - DOMST020:27
BALST11 - BALST010:72
PONAV30 - PONAV010:92
MARST10 - MARST080:80
WATST30 - WATST010:71
WILAV10S - WILAV020:85
CLARI10 - CLARI010:60
OAKAV20 - OAKAV011:47
CLADR20 - CLADR010:78
MILAV30 - MILAV010:79
213ST10 - 213ST101:70
213ST10 - 213ST121:63
213ST10 - 213ST141:60
213ST10 - 213ST160:87
213ST10 - 213ST010:71
LOSAV30 - LOSAV010:85
LEGAV20 - LEGAV010:80
MARST10 - MARST061:74
ALBST10 - ALBST010:83
MILAV20 - MILAV010:77
WATST20 - WATST030:82
214ST40 - 214ST010:81
WILAV10S - WILAV030:90
WATST20 - WATST020:56
215ST10 - 215ST010:87
CALST10 - CALST010:76
Dolphin Park
Del Amo Elementary School
SPT CO
30 ft
28 ft
Lakewood
rance
KINPL10 - KINPL010:22
LIFST10 - LIFST010:83
HELST30 - HELST010:81
WILAV80S - WILAV010:38
FIGST20S - FIGST050:17
232ST10 - 232ST010:83
ALLEY31 - ALLEY031:10
BONST10 - BONST010:95
SEPBL020:90
SANAV20S - SANAV150:55
City of Carson, City of Long Beach, County of Los Angeles, Bureau of Land Management, Esri, HERE, Garmin, INCREMENT P, USGS, EPA, USDA
CITY OF CARSON
The Jewel of the South Bay
NEW MEXICO ARA
N
0 0.04 0.09 0.17 0.26 0.34
Miles
100
70
50
25
0
Category I - Very Good
Category II - Good (Non-Load)
Category III - Good (Load)
Category IV - Poor
Category V - Very Poor





CITY OF CARSON
The Jewel of the South Bay

NEW MEXICO ARA

N

0 0.04 0.09 0.17 0.26 0.34 Miles

100
70
50
25
0

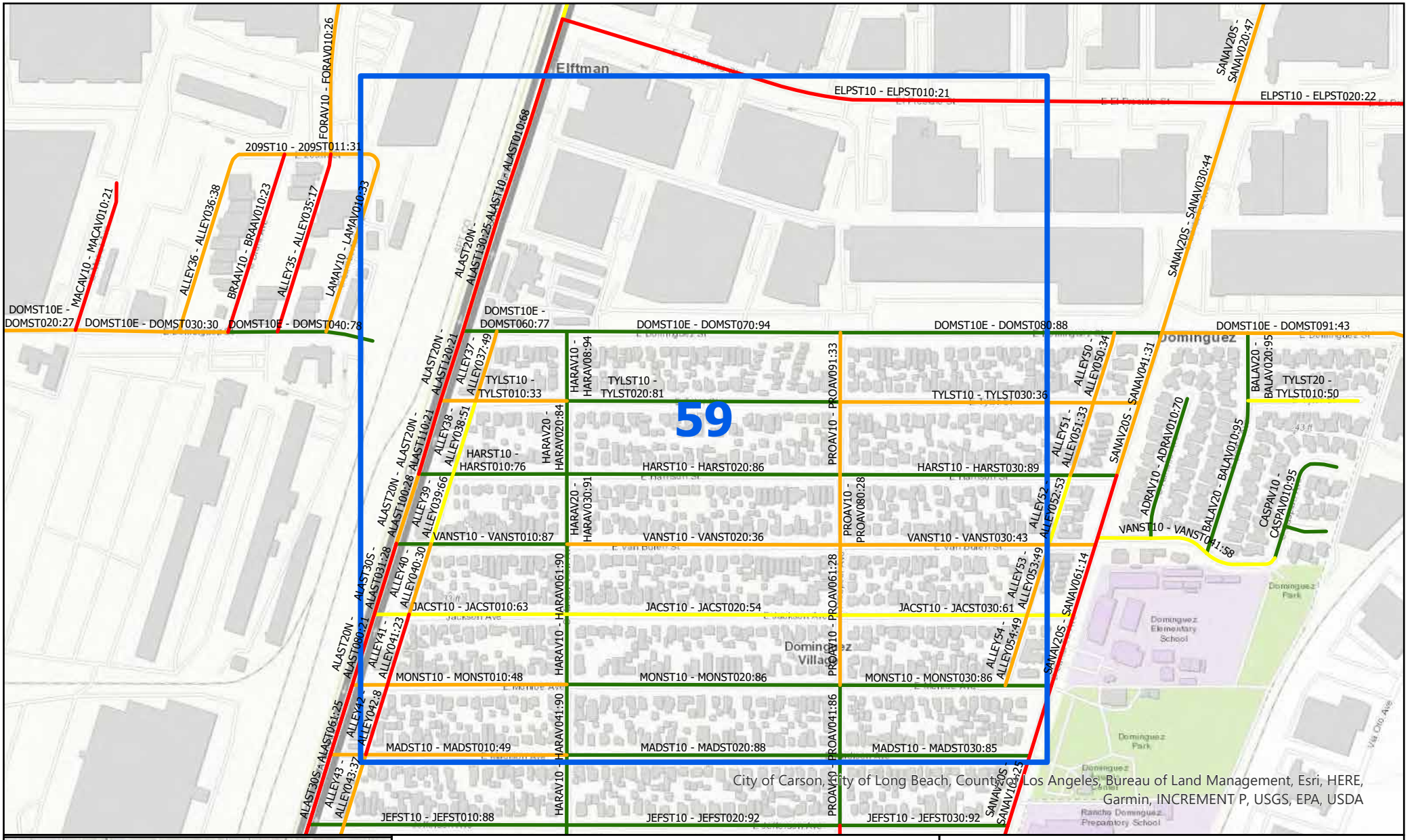
Category I - Very Good

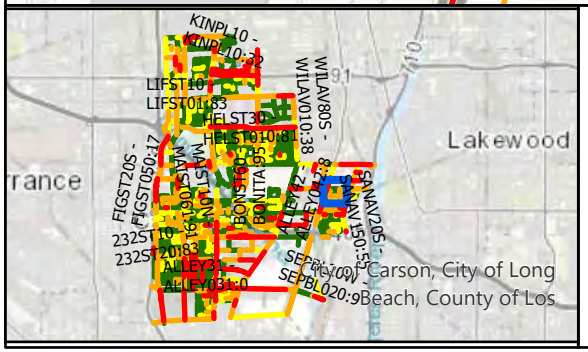
Category II - Good (Non-Load)

Category III - Good (Load)

Category IV - Poor

Category V - Very Poor





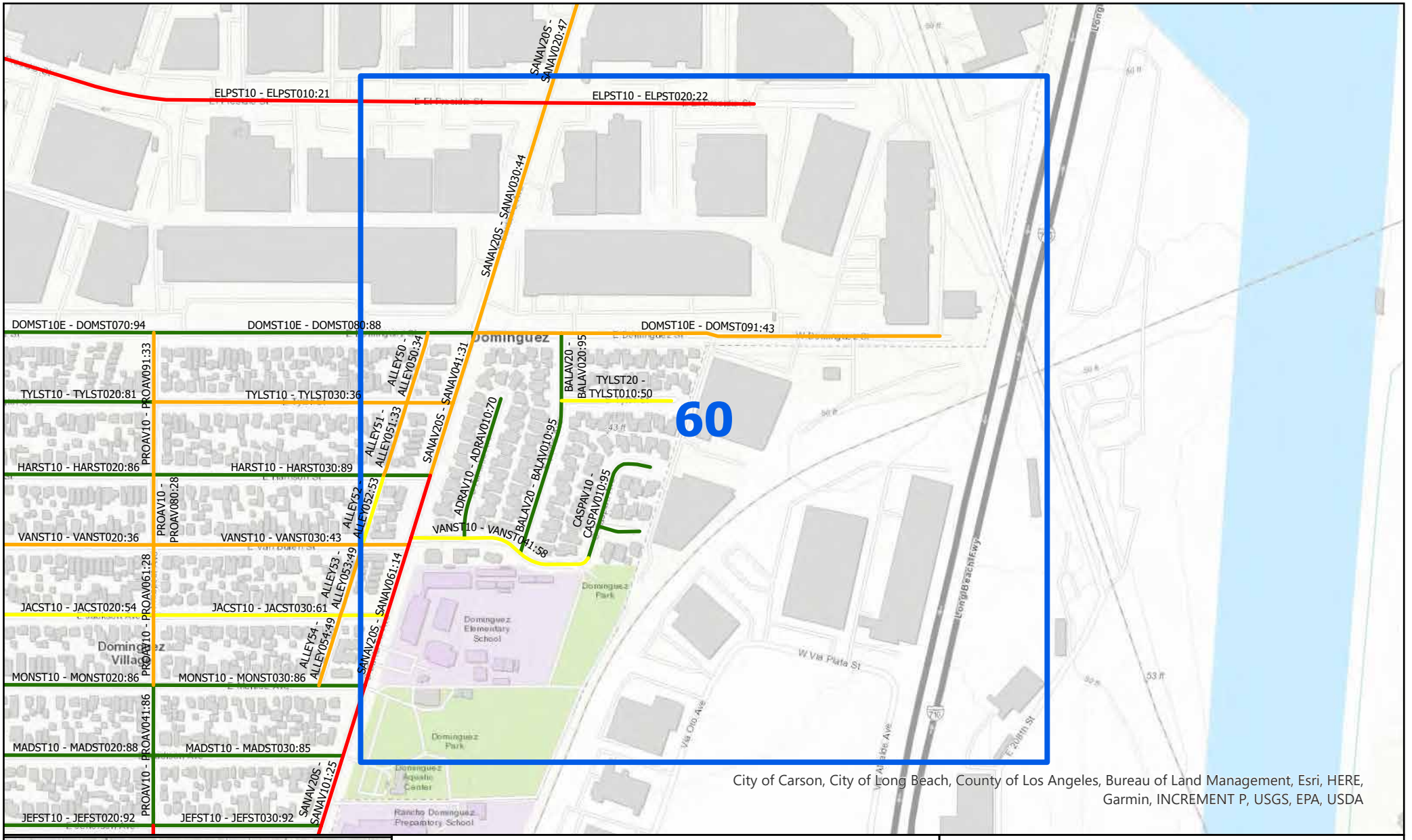
CITY OF CARSON
The Jewel of the South Bay

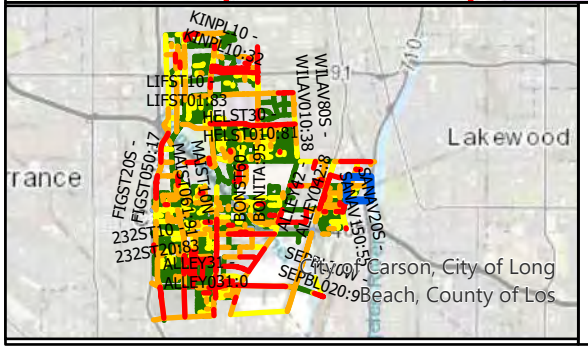
NEW MEXICO ARA

N

0 0.04 0.09 0.17 0.26 0.34 Miles

100	Category I - Very Good
70	Category II - Good (Non-Load) / Category III - Good (Load)
50	Category IV - Poor
25	Category V - Very Poor
0	





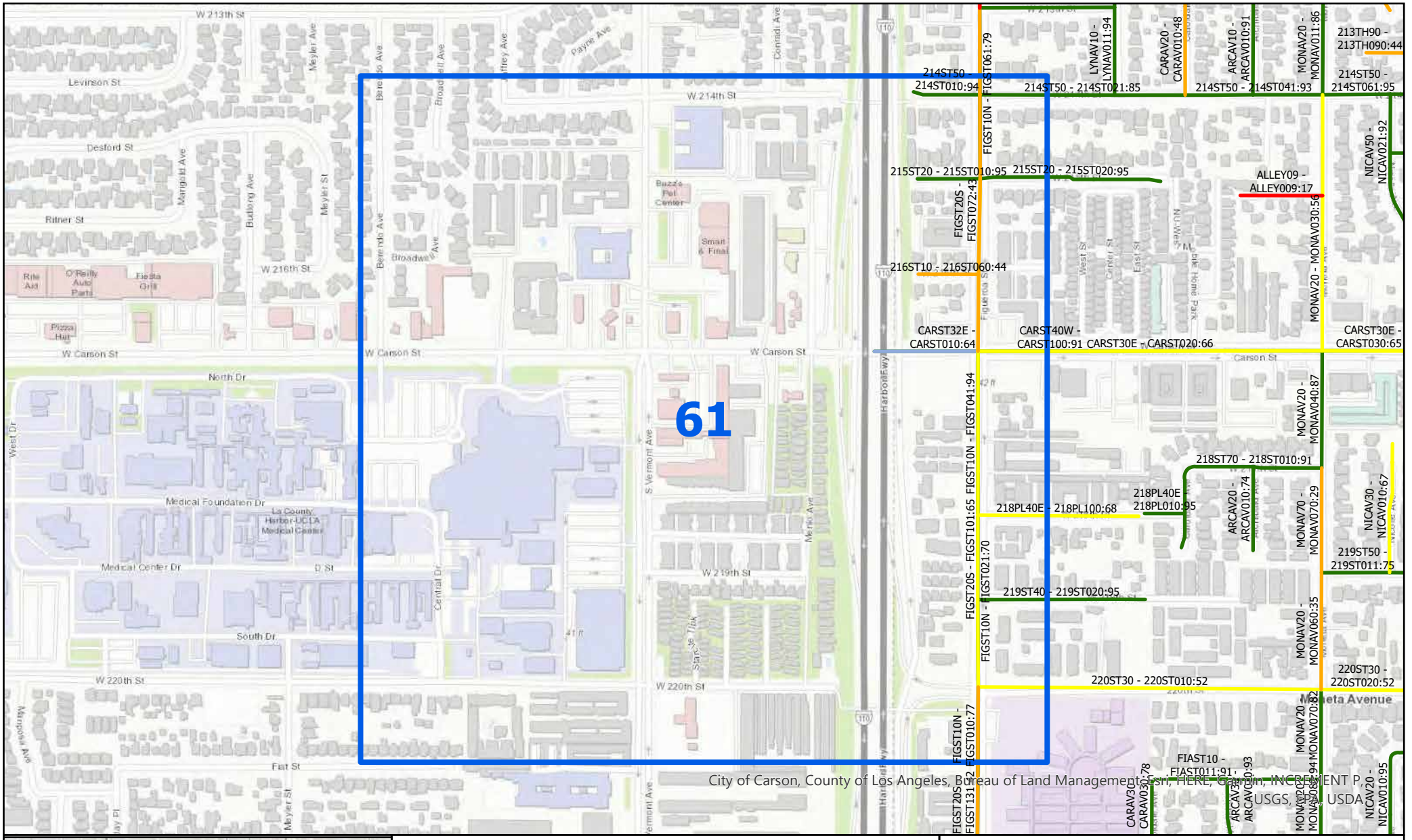
CITY OF CARSON
The Jewel of the South Bay

NEW MEXICO ARA

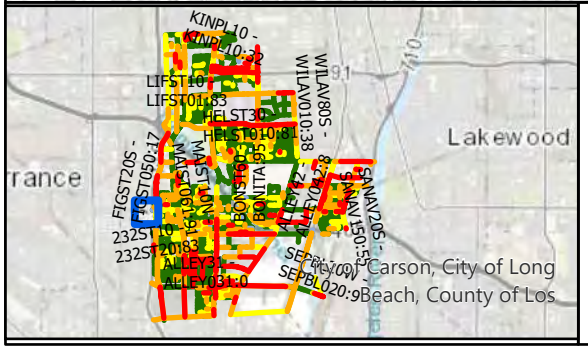
N

0 0.04 0.09 0.17 0.26 0.34 Miles

100	Category I - Very Good
70	Category II - Good (Non-Load) / Category III - Good (Load)
50	Category IV - Poor
25	Category V - Very Poor
0	



City of Carson, County of Los Angeles, Bureau of Land Management, Esri, HERE, Garmin, INCREMENT P, USGS, USDA



Carson, City of Long Beach, County of Los

CITY OF CARSON
The Jewel of the South Bay

NEW MEXICO ARA

N

0 0.04 0.09 0.17 0.26 0.34 Miles

100
70
50
25
0

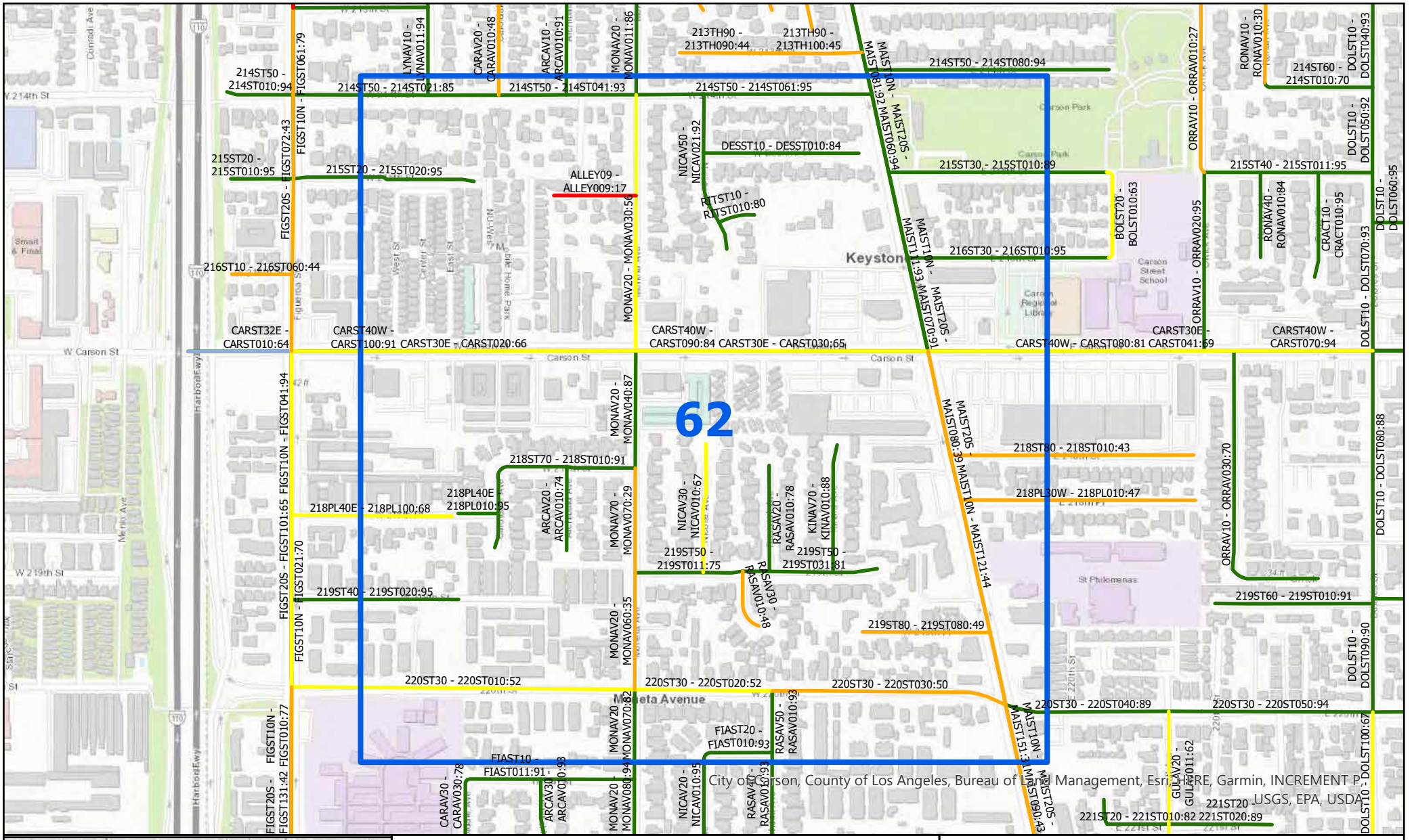
Category I - Very Good

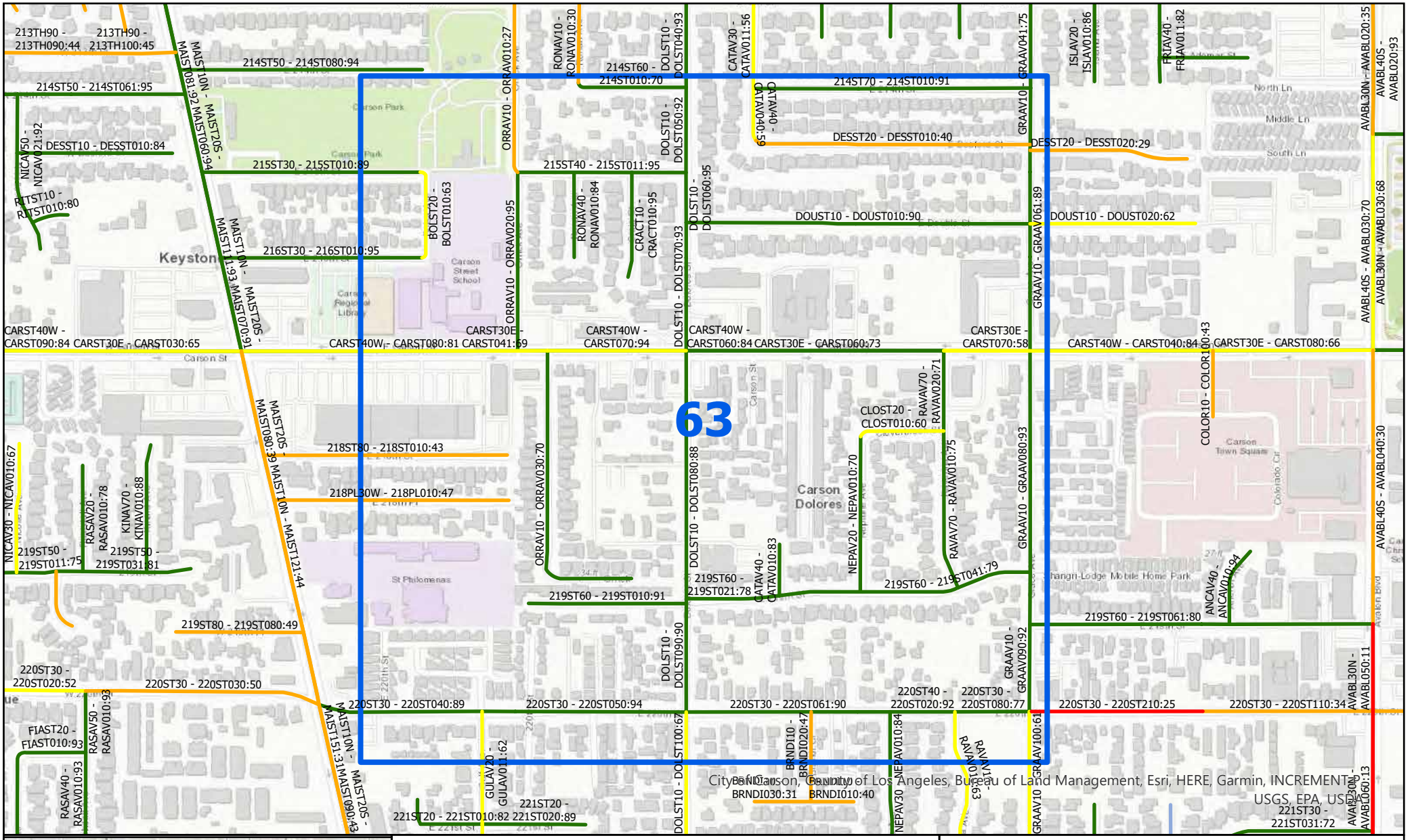
Category II - Good (Non-Load)

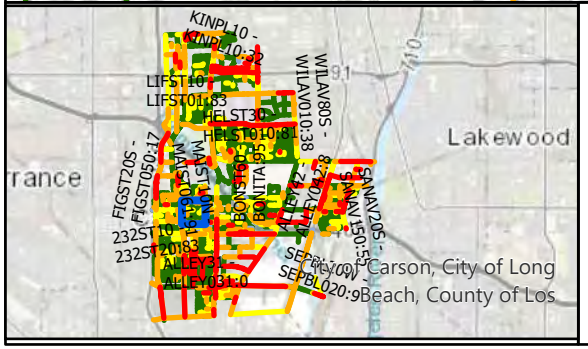
Category III - Good (Load)

Category IV - Poor

Category V - Very Poor


62
214ST50 - 214ST010:94
214ST50 - 214ST021:85
214ST50 - 214ST041:93
214ST50 - 214ST061:95
213TH90 - 213TH090:44
213TH90 - 213TH100:45
214ST50 - 214ST080:94
214ST60 - 214ST010:70
215ST20 - 215ST010:95
215ST20 - 215ST020:95
215ST30 - 215ST010:89
215ST40 - 215ST011:95
216ST10 - 216ST060:44
216ST30 - 216ST010:95
CARST32E - CARST010:64
CARST40W - CARST100:91
CARST30E - CARST020:66
CARST40W - CARST090:84
CARST30E - CARST030:65
CARST40W - CARST080:81
CARST30E - CARST041:69
CARST40W - CARST070:94
218ST70 - 218ST010:91
218ST80 - 218ST010:43
218PL40E - 218PL100:68
218PL40E - 218PL010:95
218PL30W - 218PL010:47
219ST40 - 219ST020:95
219ST50 - 219ST011:75
219ST50 - 219ST031:81
219ST60 - 219ST010:91
219ST80 - 219ST080:49
220ST30 - 220ST010:52
220ST30 - 220ST020:52
220ST30 - 220ST030:50
220ST30 - 220ST040:89
220ST30 - 220ST050:94
221ST20 - 221ST010:82
221ST20 - 221ST020:89
ALLEY09 - ALLEY009:17
DESST10 - DESST010:84
RTTST10 - RTTST010:80
Keystone
Carson Park
Carson Street School
Carson Regional Library
St Philomenas
Mercedes Avenue
W Carson St
Carson St
W 219th St
W 214th St
Harbor Fwy
Conrad Ave
Smart & Final
Mobile Home Park
City of Carson, County of Los Angeles, Bureau of Land Management, Esri, HERE, Garmin, INCREMENT P, USGS, EPA, USDA
Lakewood
rance
Carson, City of Long Beach, County of Los
0 0.04 0.09 0.17 0.26 0.34
Miles
CITY OF CARSON
The Jewel of the South Bay
NEW MEXICO ARA
N
100
70
50
25
0
Category I - Very Good
Category II - Good (Non-Load)
Category III - Good (Load)
Category IV - Poor
Category V - Very Poor



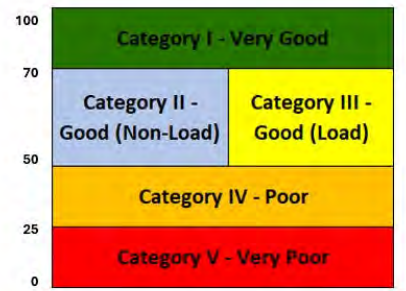


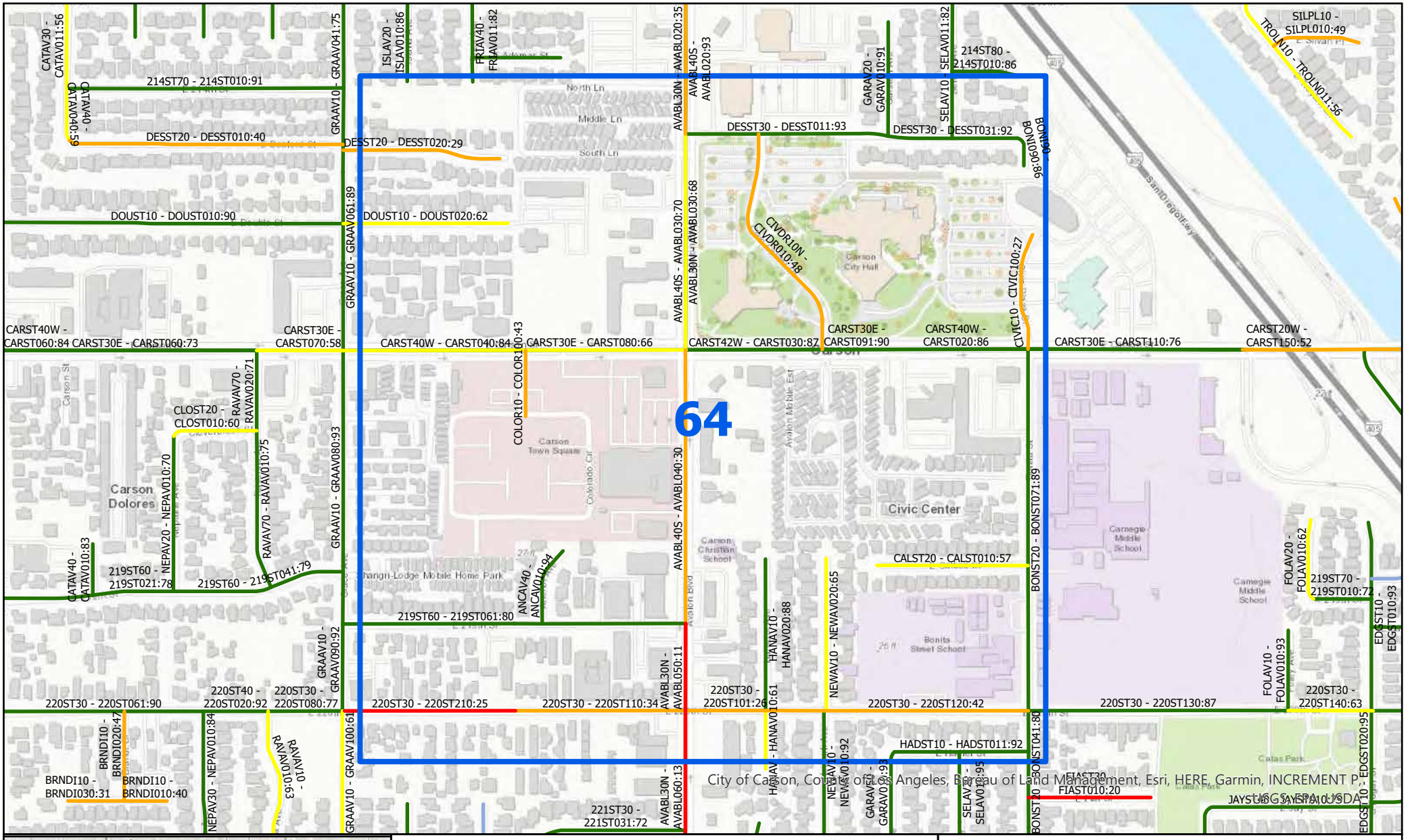
CITY OF CARSON
The Jewel of the South Bay

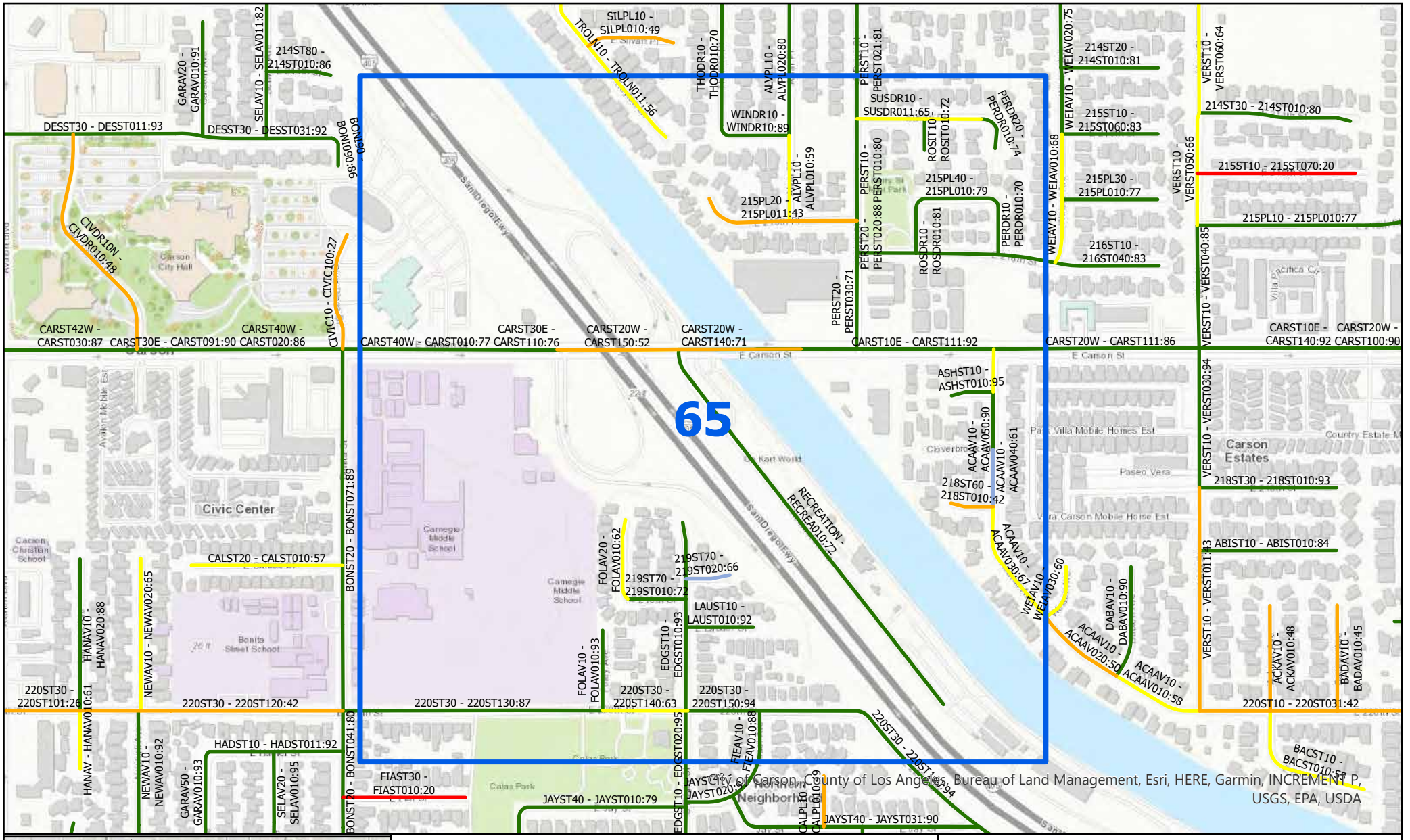
NEW MEXICO ARA

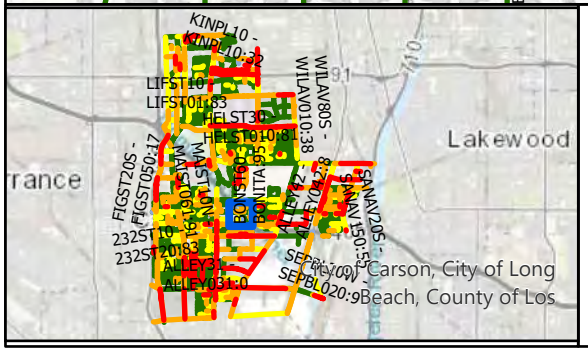
N

0 0.04 0.09 0.17 0.26 0.34 Miles




64
CATAV30 - CATAV011:56
214ST70 - 214ST010:91
DESST20 - DESST010:40
DESST20 - DESST020:29
ISLAV20 - ISLAV010:86
FRIAV40 - FRIAV011:82
AVABL30N - AVABL020:35
AVABL40S - AVABL020:93
214ST80 - 214ST010:86
GARAV20 - GARAV010:91
SELAV10 - SELAV011:82
DESST30 - DESST011:93
DESST30 - DESST031:92
BONI090 - BONI090:86
SILPL10 - SILPL010:49
TROLN10 - TROLN011:56
DOUST10 - DOUST010:90
DOUST10 - DOUST020:62
GRAAV10 - GRAAV061:89
AVABL40S - AVABL030:70
AVABL30N - AVABL030:68
CIVDR10N - CIVDR010:48
CIVIC10 - CIVIC100:27
CARST40W - CARST060:84
CARST30E - CARST060:73
CARST30E - CARST070:58
CARST40W - CARST040:84
CARST30E - CARST080:66
CARST42W - CARST030:87
CARST30E - CARST091:90
CARST40W - CARST020:86
CARST30E - CARST110:76
CARST20W - CARST150:52
COLOR10 - COLOR100:43
CLOST20 - CLOST010:60
RAVAV70 - RAVAV020:71
NEPAV20 - NEPAV010:70
RAVAV70 - RAVAV010:75
GRAAV10 - GRAAV080:93
CATAV40 - CATAV010:83
219ST60 - 219ST021:78
219ST60 - 219ST041:79
ANCAV40 - ANCAV010:94
AVABL40S - AVABL040:30
CALST20 - CALST010:57
BONST20 - BONST071:89
FOLAV20 - FOLAV010:62
219ST70 - 219ST010:72
EDGST10 - EDGST010:93
219ST60 - 219ST061:80
GRAAV10 - GRAAV090:92
220ST30 - 220ST061:90
220ST40 - 220ST020:92
220ST30 - 220ST080:77
220ST30 - 220ST210:25
220ST30 - 220ST110:34
AVABL30N - AVABL050:11
HANAV10 - HANAV020:88
220ST30 - 220ST101:26
HANAV10 - HANAV010:61
NEWAV10 - NEWAV020:65
220ST30 - 220ST120:42
220ST30 - 220ST130:87
FOLAV10 - FOLAV010:93
220ST30 - 220ST140:63
BRNDI10 - BRNDI020:47
BRNDI10 - BRNDI030:31
BRNDI10 - BRNDI010:40
NEPAV30 - NEPAV010:84
RAVAV10 - RAVAV010:63
GRAAV10 - GRAAV100:61
HADST10 - HADST011:92
NEWAV10 - NEWAV010:92
GARAV20 - GARAV020:93
SELAV10 - SELAV010:95
BONST10 - BONST041:80
FIAST30 - FIAST010:20
EDGST10 - EDGST020:95
AVABL30N - AVABL060:13
221ST30 - 221ST031:72
JAYST30 - JAYST010:35
Carson Dolores
Civic Center
Carson Town Square
Carson City Hall
Carson Christian School
Bonita Street School
Carnegie Middle School
Avalon Mobile Est
Shangri-Lodge Mobile Home Park
Catas Park
North Ln
Middle Ln
South Ln
Sanitregor Fwy
City of Carson, County of Los Angeles, Bureau of Land Management, Esri, HERE, Garmin, INCREMENT P, USGS, EPA, USDA
KINPL10 - KINPL010:22
LIFST10 - LIFST010:83
HELST30 - HELST010:81
WILAV80S - WILAV010:38
FIGST20S - FIGST050:17
232ST10 - 232ST020:83
ALLEY31 - ALLEY031:10
BONST10 - BONST041:95
BONITA95 - BONITA95:95
SEPBL00W - SEPBL020:95
SANAV20S - SANAV010:55
Lakewood
rance
Carson, City of Long Beach, County of Los
CITY OF CARSON
The Jewel of the South Bay
NEW MEXICO ARA
N
0 0.04 0.09 0.17 0.26 0.34
Miles
100
70
50
25
0
Category I - Very Good
Category II - Good (Non-Load)
Category III - Good (Load)
Category IV - Poor
Category V - Very Poor





CITY OF CARSON
The Jewel of the South Bay

NEW MEXICO ARA

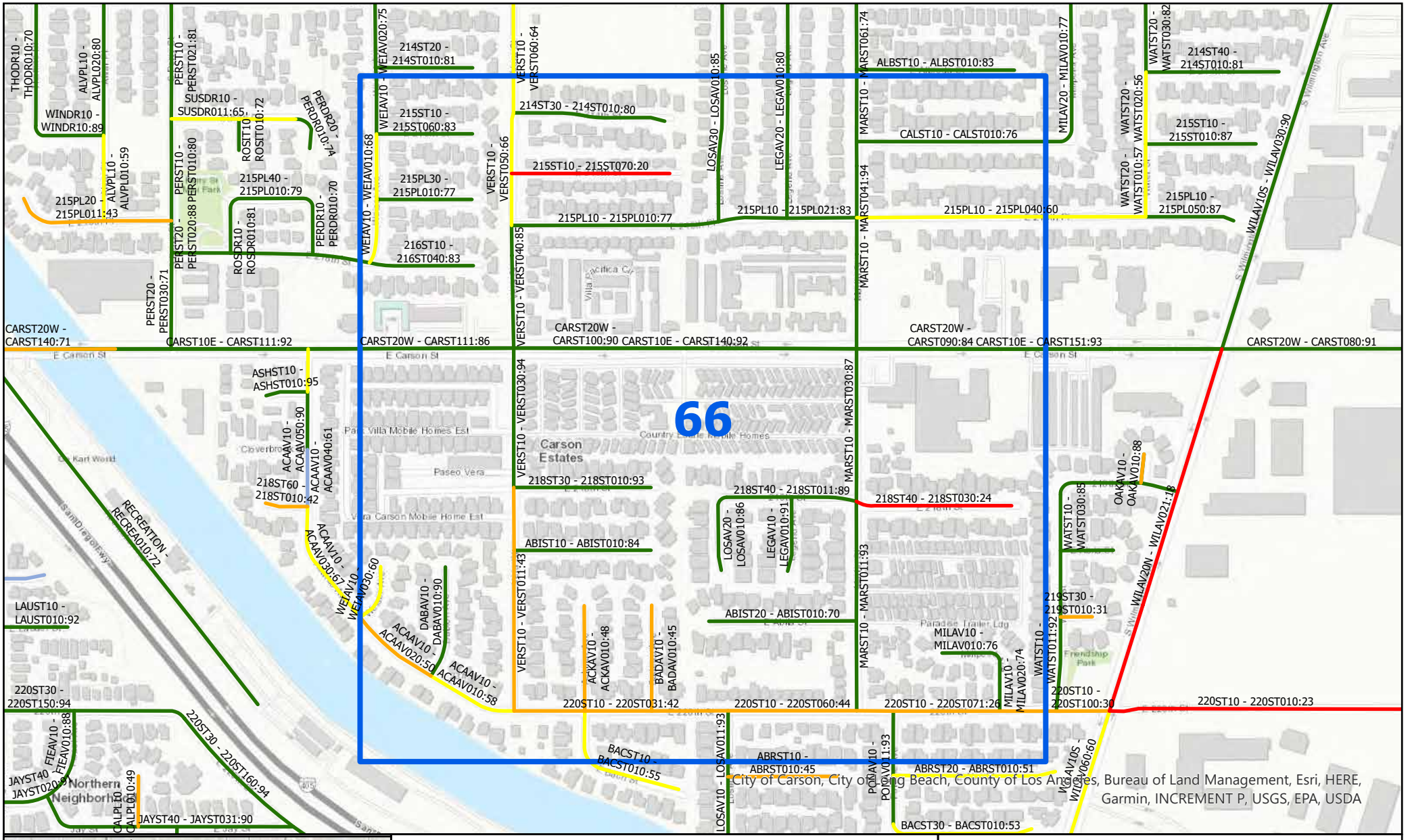
N

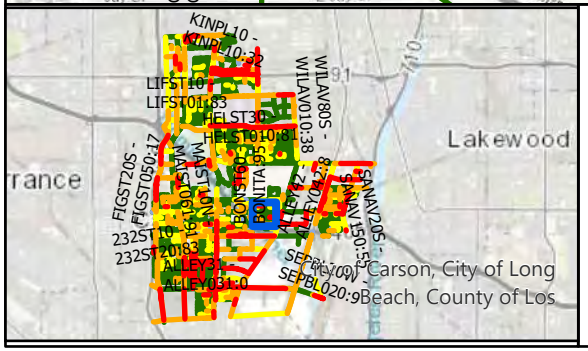
0 0.04 0.09 0.17 0.26 0.34 Miles

Category I - Very Good	
Category II - Good (Non-Load)	Category III - Good (Load)
Category IV - Poor	
Category V - Very Poor	

100 70 50 25 0

City of Carson, County of Los Angeles, Bureau of Land Management, Esri, HERE, Garmin, INCREMENT P, USGS, EPA, USDA





CITY OF CARSON
The Jewel of the South Bay

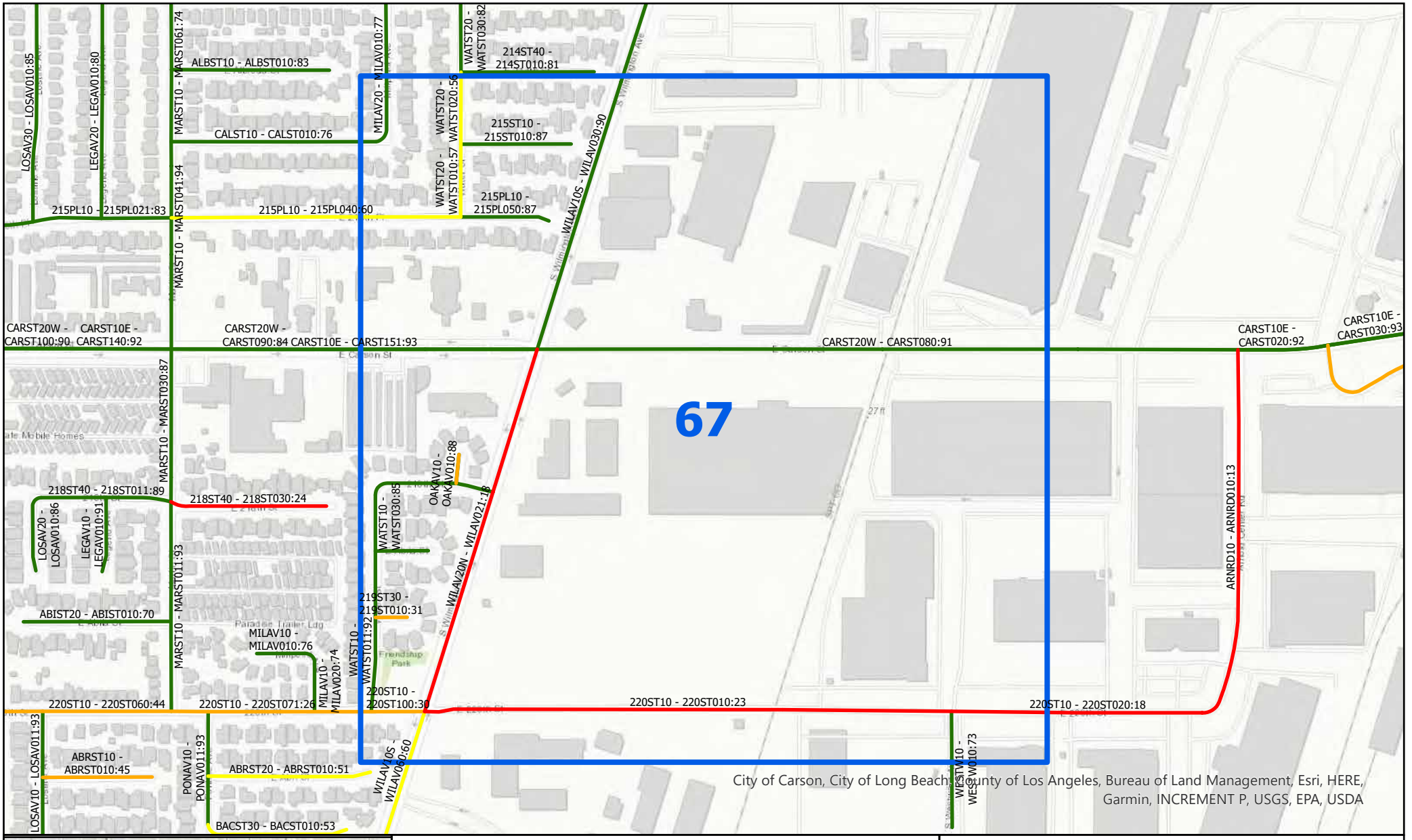
NEW MEXICO ARA

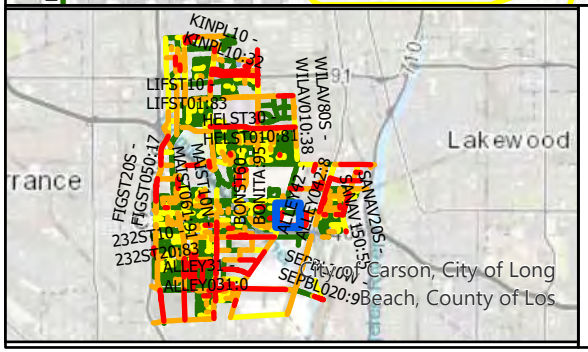
N

0 0.04 0.09 0.17 0.26 0.34 Miles

100
70
50
25
0

Category I - Very Good
Category II - Good (Non-Load)
Category III - Good (Load)
Category IV - Poor
Category V - Very Poor





CITY OF CARSON
The Jewel of the South Bay

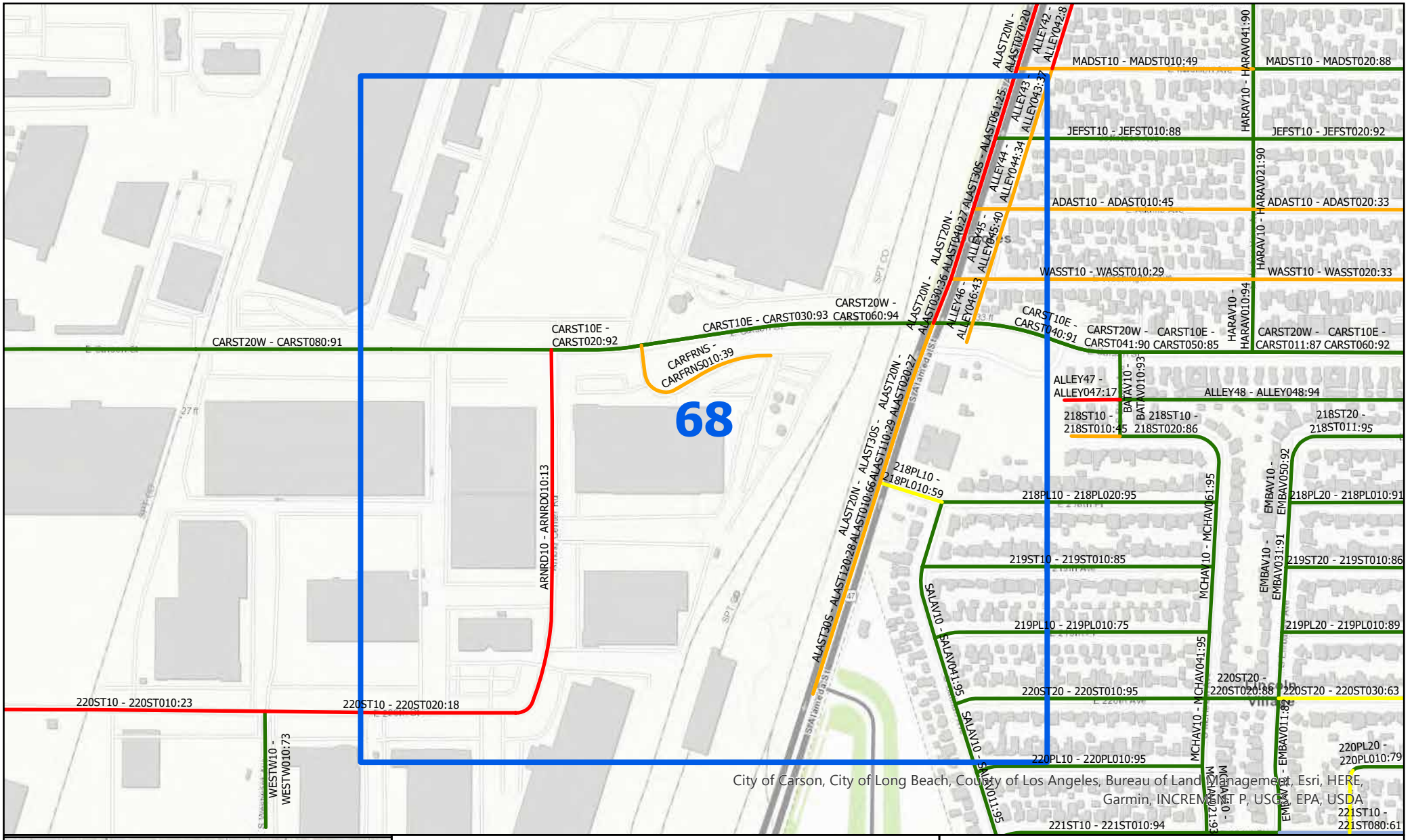
NEW MEXICO ARA

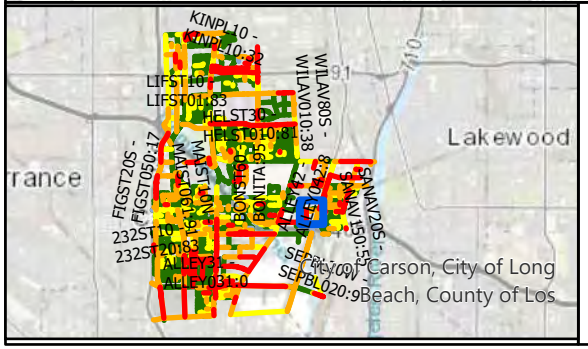
N

0 0.04 0.09 0.17 0.26 0.34 Miles

100
70
50
25
0

Category I - Very Good
Category II - Good (Non-Load)
Category III - Good (Load)
Category IV - Poor
Category V - Very Poor



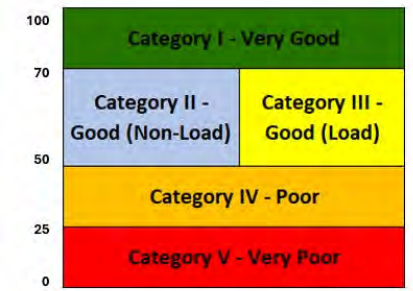


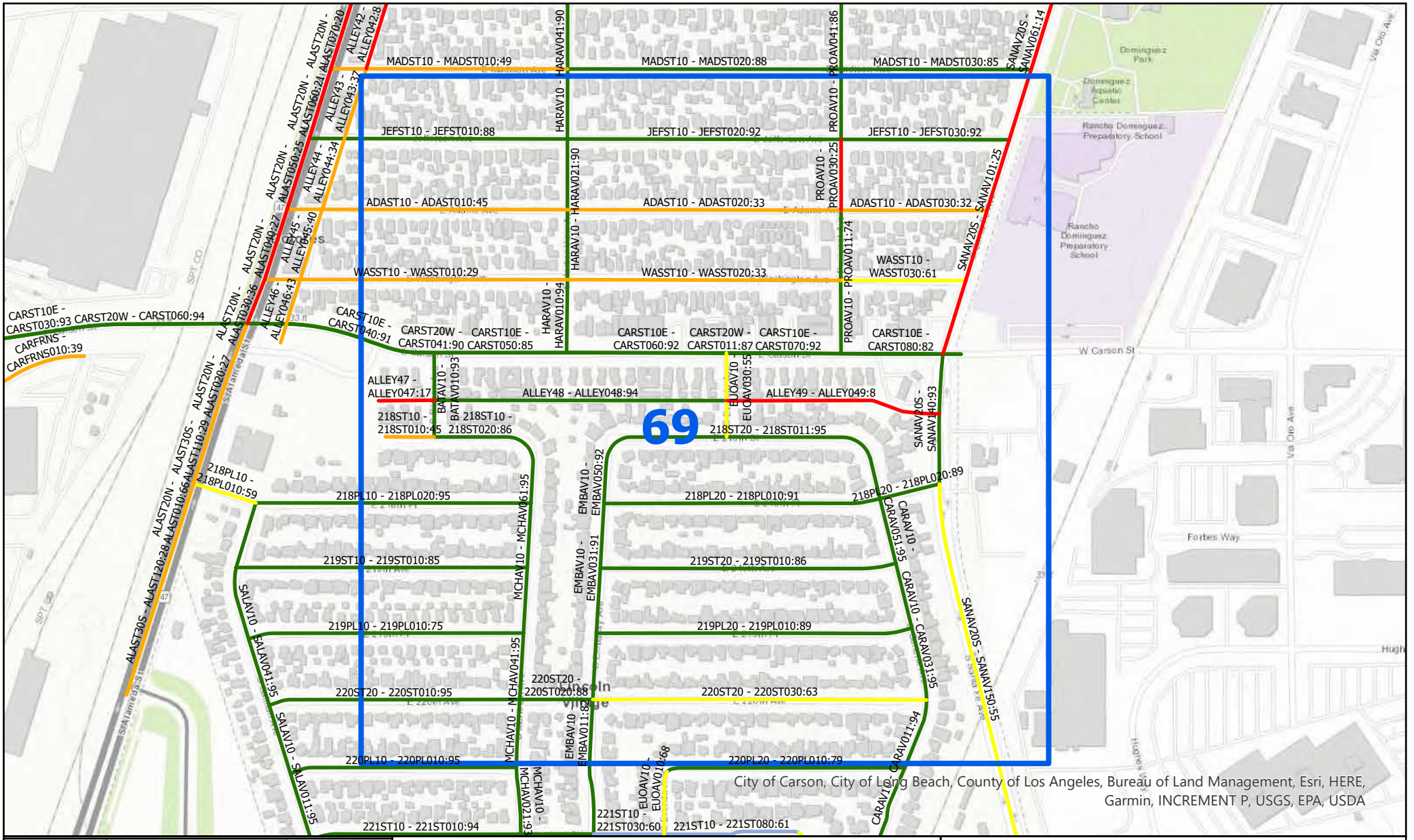
CITY OF CARSON
The Jewel of the South Bay

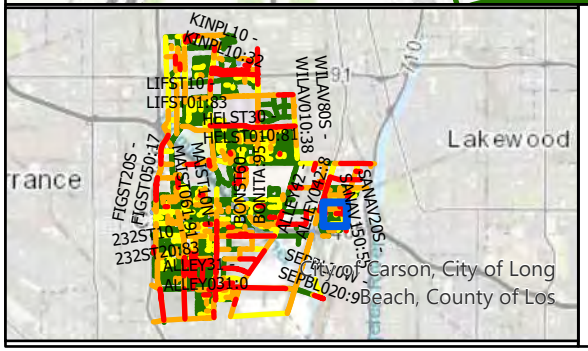
NEW MEXICO ARA

N

0 0.04 0.09 0.17 0.26 0.34 Miles







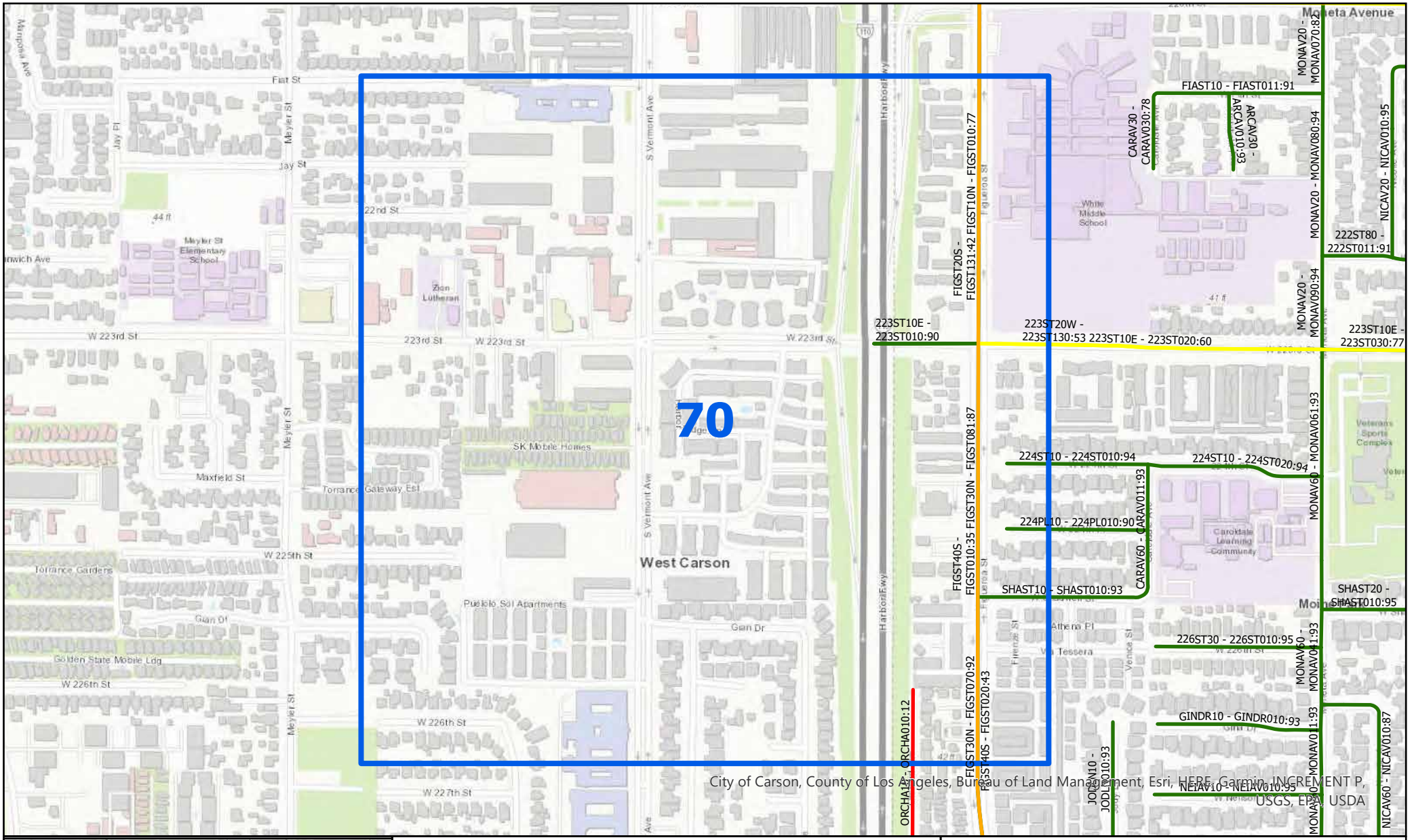
CITY OF CARSON
The Jewel of the South Bay

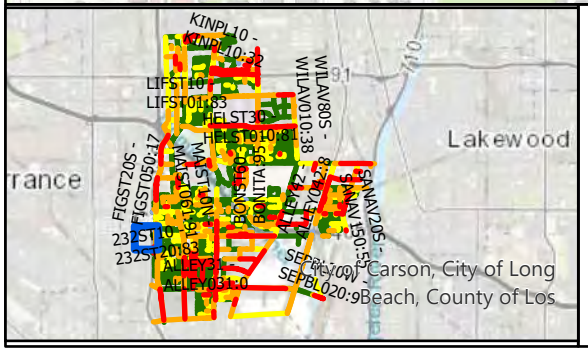
NEW MEXICO ARA

N

0 0.04 0.09 0.17 0.26 0.34 Miles

100	Category I - Very Good
70	Category II - Good (Non-Load) / Category III - Good (Load)
50	Category IV - Poor
25	Category V - Very Poor
0	





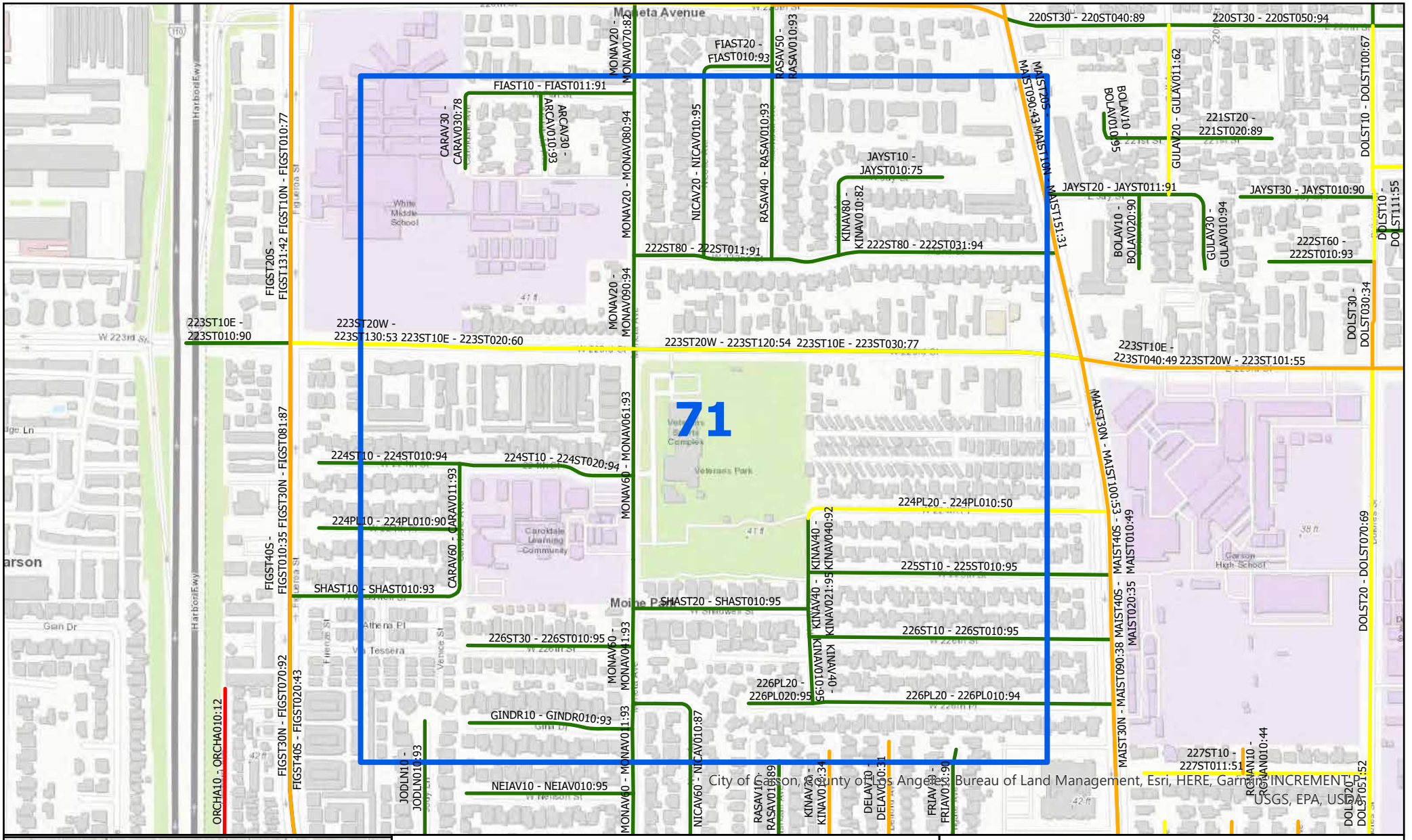
CITY OF CARSON
The Jewel of the South Bay

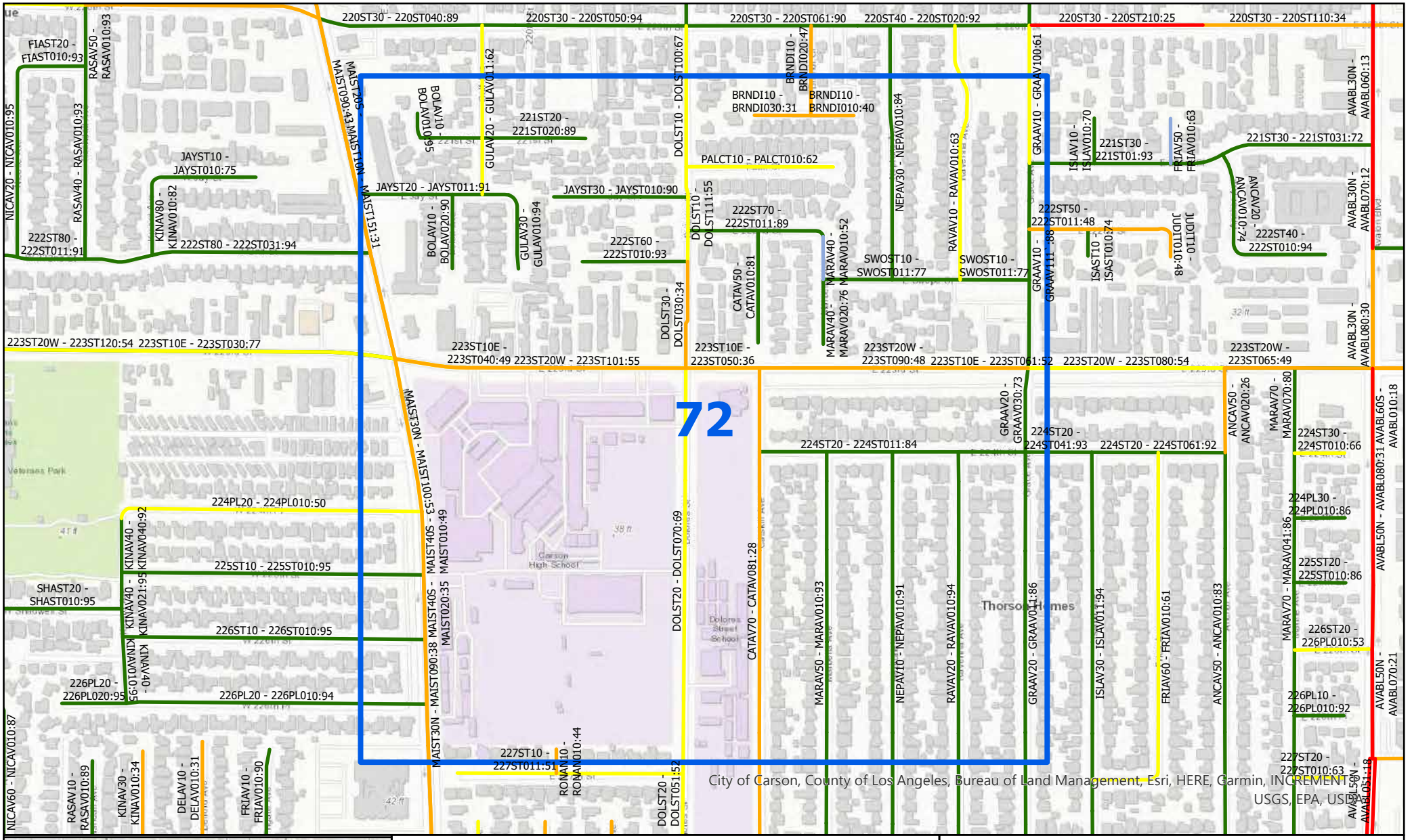
NEW MEXICO ARA

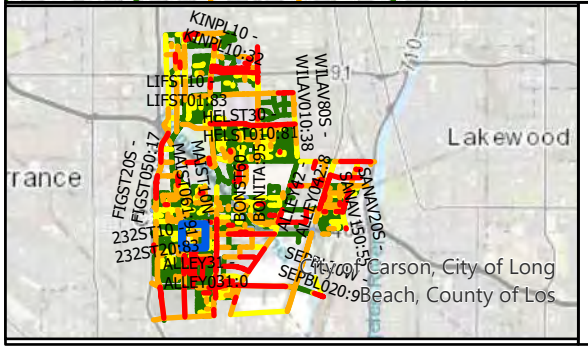
N

0 0.04 0.09 0.17 0.26 0.34 Miles

100	Category I - Very Good
70	Category II - Good (Non-Load) / Category III - Good (Load)
50	Category IV - Poor
25	Category V - Very Poor
0	


71
Moneta Avenue
FIAST10 - FIAST011:91
FIAST20 - FIAST010:93
MONAV20 - MONAV070:82
RASAV50 - RASAV010:93
CARAV30 - CARAV030:78
ARCAV30 - ARCAV010:93
MONAV20 - MONAV080:94
NICAV20 - NICAV010:95
RASAV40 - RASAV010:93
JAYST10 - JAYST010:75
KINAV80 - KINAV010:82
222ST80 - 222ST011:91
222ST80 - 222ST031:94
MONAV20 - MONAV090:94
223ST10E - 223ST010:90
223ST20W - 223ST130:53 223ST10E - 223ST020:60
223ST20W - 223ST120:54 223ST10E - 223ST030:77
220ST30 - 220ST040:89
220ST30 - 220ST050:94
MAIST20S - MAIST090:43 MAIST10N - MAIST151:31
BOLAV10 - BOLAV010:95
GULAV20 - GULAV011:62
221ST20 - 221ST020:89
JAYST20 - JAYST011:91
JAYST30 - JAYST010:90
BOLAV10 - BOLAV020:90
GULAV30 - GULAV010:94
222ST60 - 222ST010:93
DOLST10 - DOLST100:67
DOLST10 - DOLST111:55
DOLST30 - DOLST030:34
223ST10E - 223ST040:49 223ST20W - 223ST101:55
FIGST20S - FIGST131:42 FIGST10N - FIGST010:77
FIGST40S - FIGST010:35 FIGST30N - FIGST081:87
FIGST30N - FIGST070:92
FIGST40S - FIGST020:43
ORCHA10 - ORCHA010:12
224ST10 - 224ST010:94
224ST10 - 224ST020:94
MONAV60 - MONAV061:93
224PL10 - 224PL010:90
CARAV60 - CARAV011:93
SHAST10 - SHAST010:93
SHAST20 - SHAST010:95
224PL20 - 224PL010:50
KINAV40 - KINAV040:92
KINAV40 - KINAV021:95
225ST10 - 225ST010:95
MAIST30N - MAIST151:00:53
MAIST40S - MAIST010:49
MAIST40S - MAIST020:35
MAIST30N - MAIST090:38
DOLST20 - DOLST070:69
226ST30 - 226ST010:95
MONAV60 - MONAV011:93
226ST10 - 226ST010:95
KINAV40 - KINAV010:95
226PL20 - 226PL020:95
226PL20 - 226PL010:94
GINDR10 - GINDR010:93
JODLN10 - JODLN010:93
NEIAV10 - NEIAV010:95
MONAV60 - MONAV011:93
NICAV60 - NICAV010:87
RASAV10 - RASAV010:89
KINAV20 - KINAV012:34
DELAV10 - DELAV030:31
FRIAV10 - FRIAV010:90
227ST10 - 227ST011:51
ROSMAN10 - ROSMAN010:44
DOLST20 - DOLST051:52
Veterans Park
Carondale Learning Community
Carson High School
White Middle School
Athena Pl
Via Tessera
Gian Dr
W 223rd St
W 226th St
W Sherwin St
W Nelson St
Harbor Fwy
Figueroa St
Vermont Ave
Vermont Ave
Avalon Blvd
Wilmington Ave
Alameda St
Santa Fe Ave
Main St
Broadway
Long Beach Blvd
Lakewood
Carson, City of Long Beach, County of Los Angeles, Bureau of Land Management, Esri, HERE, Garmin, INCREMENT P, USGS, EPA, USDA
CITY OF CARSON
The Jewel of the South Bay
NEW MEXICO ARA
N
0 0.04 0.09 0.17 0.26 0.34
Miles
Category I - Very Good
Category II - Good (Non-Load)
Category III - Good (Load)
Category IV - Poor
Category V - Very Poor
100
70
50
25
0





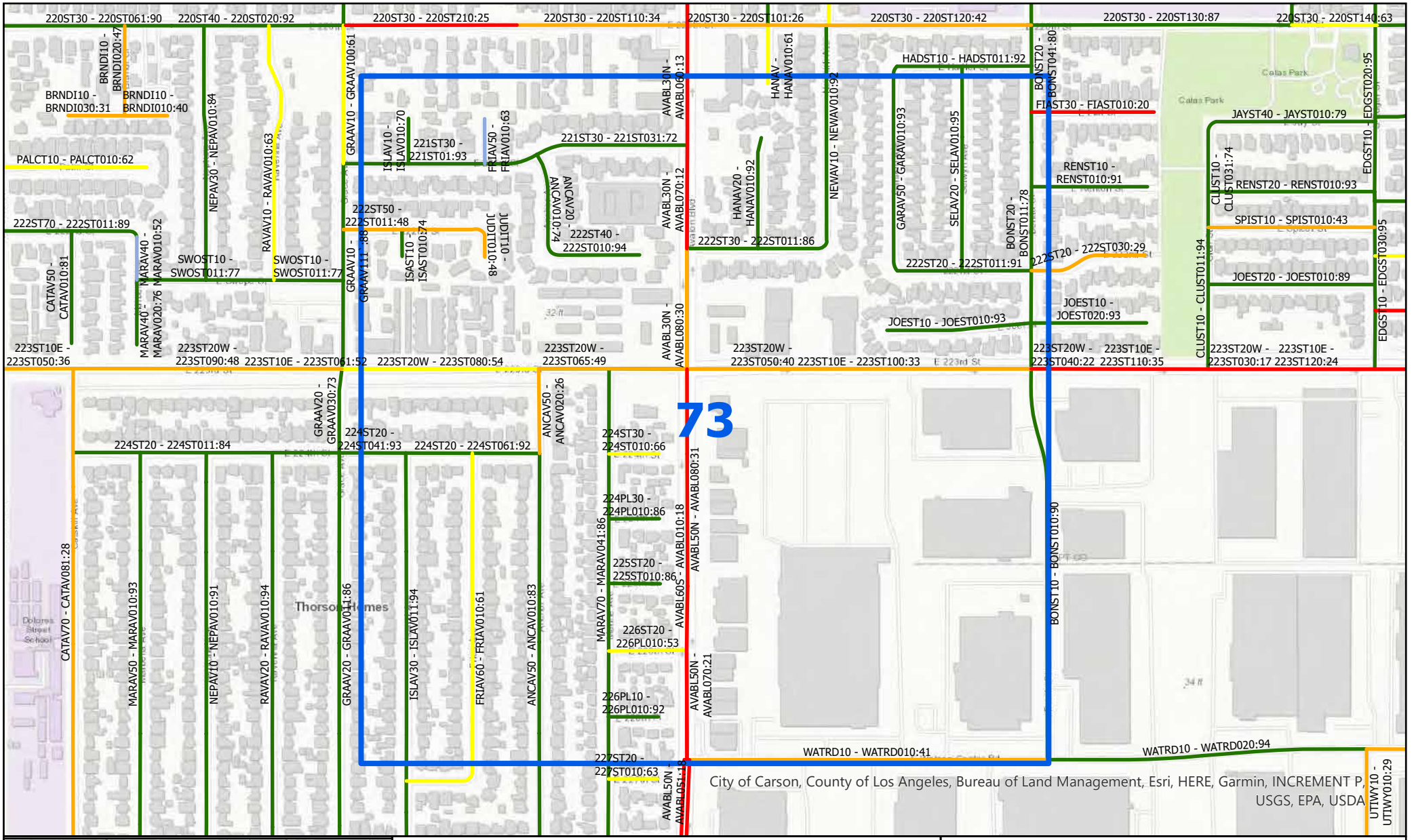
CITY OF CARSON
The Jewel of the South Bay

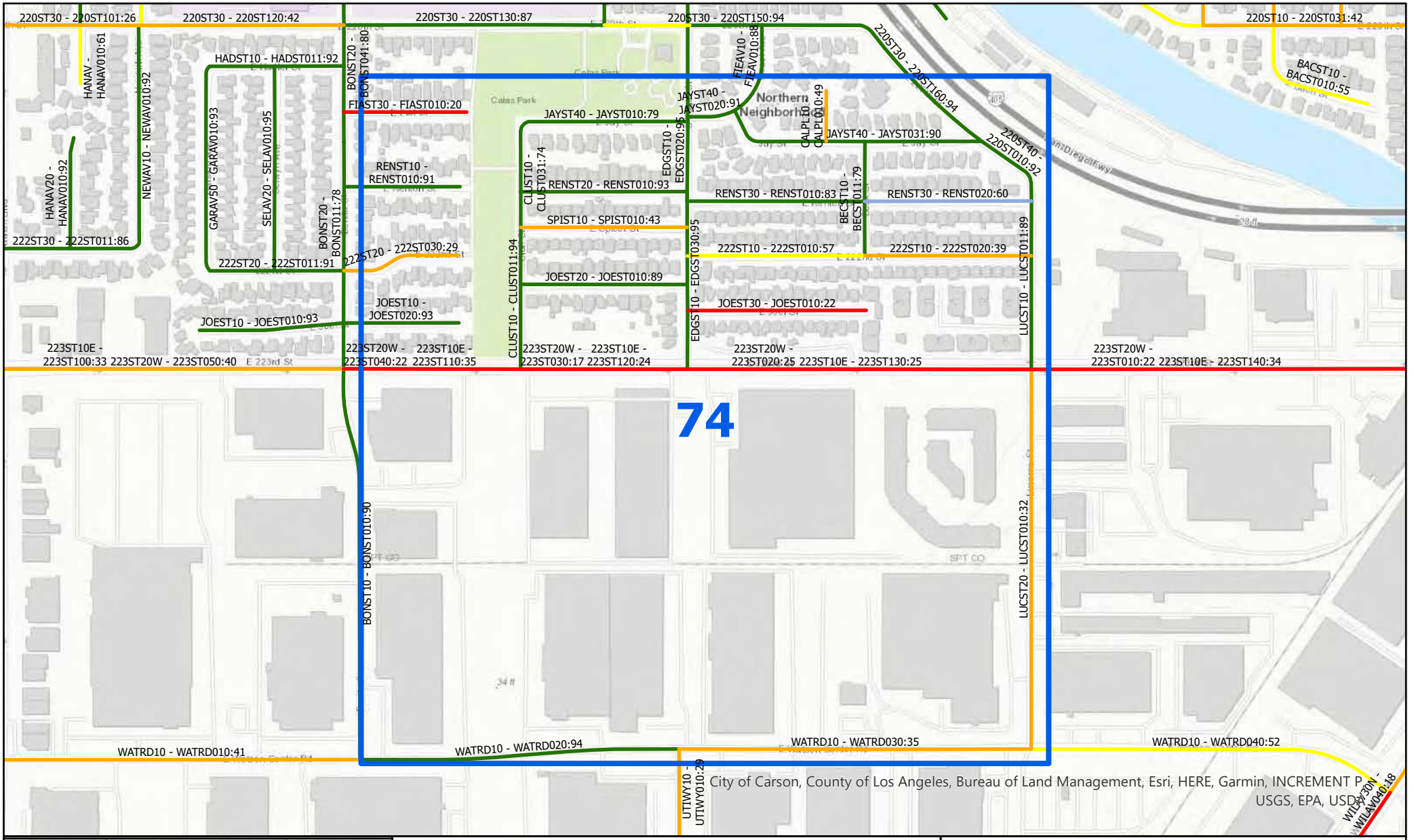
NEW MEXICO ARA

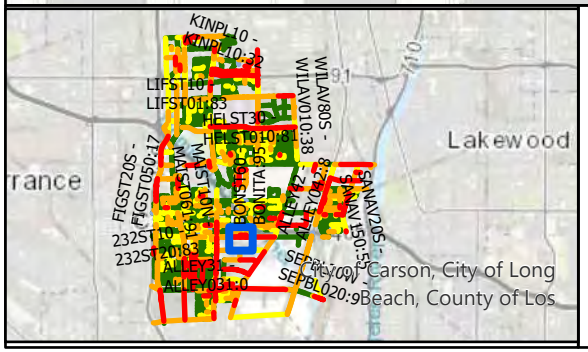
N

0 0.04 0.09 0.17 0.26 0.34 Miles

100	Category I - Very Good
70	Category II - Good (Non-Load) / Category III - Good (Load)
50	Category IV - Poor
25	Category V - Very Poor
0	


220ST30 - 220ST061:90
220ST40 - 220ST020:92
220ST30 - 220ST210:25
220ST30 - 220ST110:34
220ST30 - 220ST101:26
220ST30 - 220ST120:42
220ST30 - 220ST130:87
220ST30 - 220ST140:63
BRNDI10 - BRNDI020:47
BRNDI10 - BRNDI030:31
BRNDI10 - BRNDI010:40
NEPAV30 - NEPAV010:84
RAVAV10 - RAVAV010:63
GRAAV10 - GRAAV100:61
ISLAV10 - ISLAV010:70
221ST30 - 221ST01:93
FRIAV50 - FRIAV010:63
221ST30 - 221ST031:72
AVABL30N - AVABL060:13
HANAV - HANAV010:61
HADST10 - HADST011:92
BONST20 - BONST041:80
FIAST30 - FIAST010:20
Calas Park
JAYST40 - JAYST010:79
EDGST10 - EDGST020:95
PALCT10 - PALCT010:62
222ST50 - 222ST011:48
ANCAV20 - ANCAV010:74
222ST40 - 222ST010:94
AVABL30N - AVABL070:12
HANAV20 - HANAV010:92
NEWAV10 - NEWAV010:92
GARAV50 - GARAV010:93
SELAV20 - SELAV010:95
RENST10 - RENST010:91
RENST20 - RENST010:93
CLUST10 - CLUST031:74
SPIST10 - SPIST010:43
222ST70 - 222ST011:89
SWOST10 - SWOST011:77
SWOST10 - SWOST011:77
GRAAV10 - GRAAV111:38
ISAST10 - ISAST010:74
JUDIT010 - JUDIT010:48
222ST30 - 222ST011:86
BONST20 - BONST011:78
222ST20 - 222ST030:29
222ST20 - 222ST011:91
JOEST20 - JOEST010:89
JOEST10 - JOEST020:93
JOEST10 - JOEST010:93
CATAV50 - CATAV010:81
MARAV40 - MARAV010:52
MARAV40 - MARAV020:76
CLUST10 - CLUST011:94
EDGST10 - EDGST030:95
223ST10E - 223ST050:36
223ST20W - 223ST090:48
223ST10E - 223ST061:52
223ST20W - 223ST080:54
223ST20W - 223ST065:49
AVABL30N - AVABL080:30
223ST20W - 223ST050:40
223ST10E - 223ST100:33
223ST20W - 223ST040:22
223ST10E - 223ST110:35
223ST20W - 223ST030:17
223ST10E - 223ST120:24
73
GRAAV20 - GRAAV030:73
224ST20 - 224ST041:93
224ST20 - 224ST061:92
224ST20 - 224ST011:84
ANCAV50 - ANCAV020:26
224ST30 - 224ST010:66
224PL30 - 224PL010:86
225ST20 - 225ST010:86
226ST20 - 226PL010:53
226PL10 - 226PL010:92
227ST20 - 227ST010:63
AVABL50N - AVABL080:31
AVABL50N - AVABL010:18
AVABL60S - AVABL50N
AVABL50N - AVABL070:21
AVABL50N - AVABL051:18
MARAV70 - MARAV041:86
BONST10 - BONST010:90
CATAV70 - CATAV081:28
MARAV50 - MARAV010:93
NEPAV10 - NEPAV010:91
RAVAV20 - RAVAV010:94
GRAAV20 - GRAAV011:86
ISLAV30 - ISLAV011:94
FRIAV60 - FRIAV010:61
ANCAV50 - ANCAV010:83
Thorson Homes
Dolores Street School
WATRD10 - WATRD010:41
WATRD10 - WATRD020:94
UTIWY10 - UTIWY010:29
City of Carson, County of Los Angeles, Bureau of Land Management, Esri, HERE, Garmin, INCREMENT P, USGS, EPA, USDA
KINPL10 - KINPL10:22
LIFST10 - LIFST010:83
HELST30 - HELST010:8
WILAV80S - WILAV010:38
FIGST20S - FIGST050:17
232ST10 - 232ST20:83
ALLEY31 - ALLEY31:10
SEPBL020:9
SANAV20S - SANAV150:5
Lakewood
rance
Carson, City of Long Beach, County of Los
CITY OF CARSON
The Jewel of the South Bay
NEW MEXICO ARA
N
0 0.04 0.09 0.17 0.26 0.34
Miles
100
70
50
25
0
Category I - Very Good
Category II - Good (Non-Load)
Category III - Good (Load)
Category IV - Poor
Category V - Very Poor





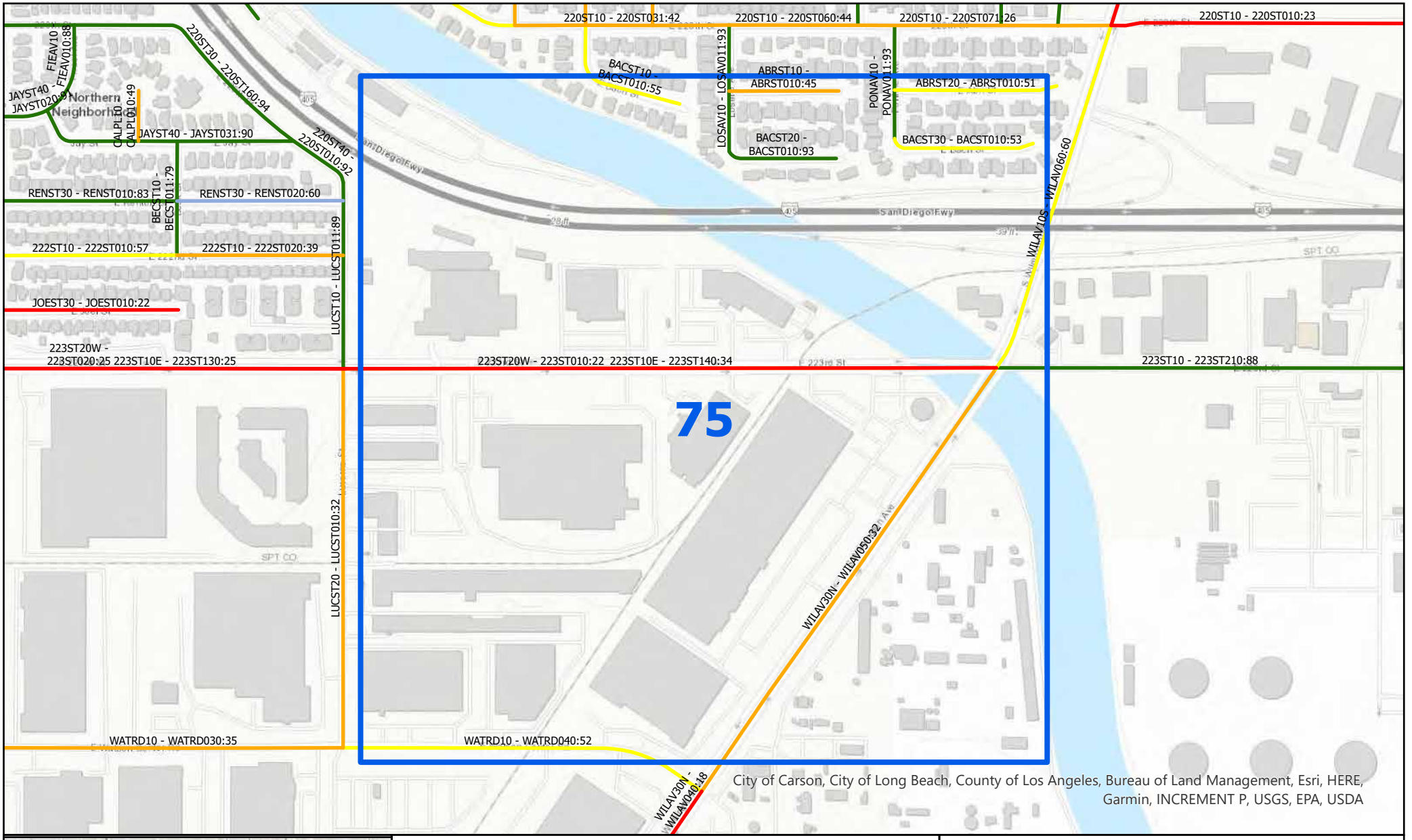
CITY OF CARSON
The Jewel of the South Bay

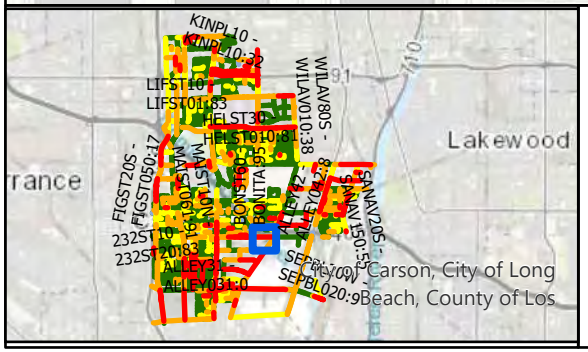
NEW MEXICO ARA

N

0 0.04 0.09 0.17 0.26 0.34 Miles

100	Category I - Very Good
70	Category II - Good (Non-Load) / Category III - Good (Load)
50	Category IV - Poor
25	Category V - Very Poor
0	





CITY OF CARSON
The Jewel of the South Bay

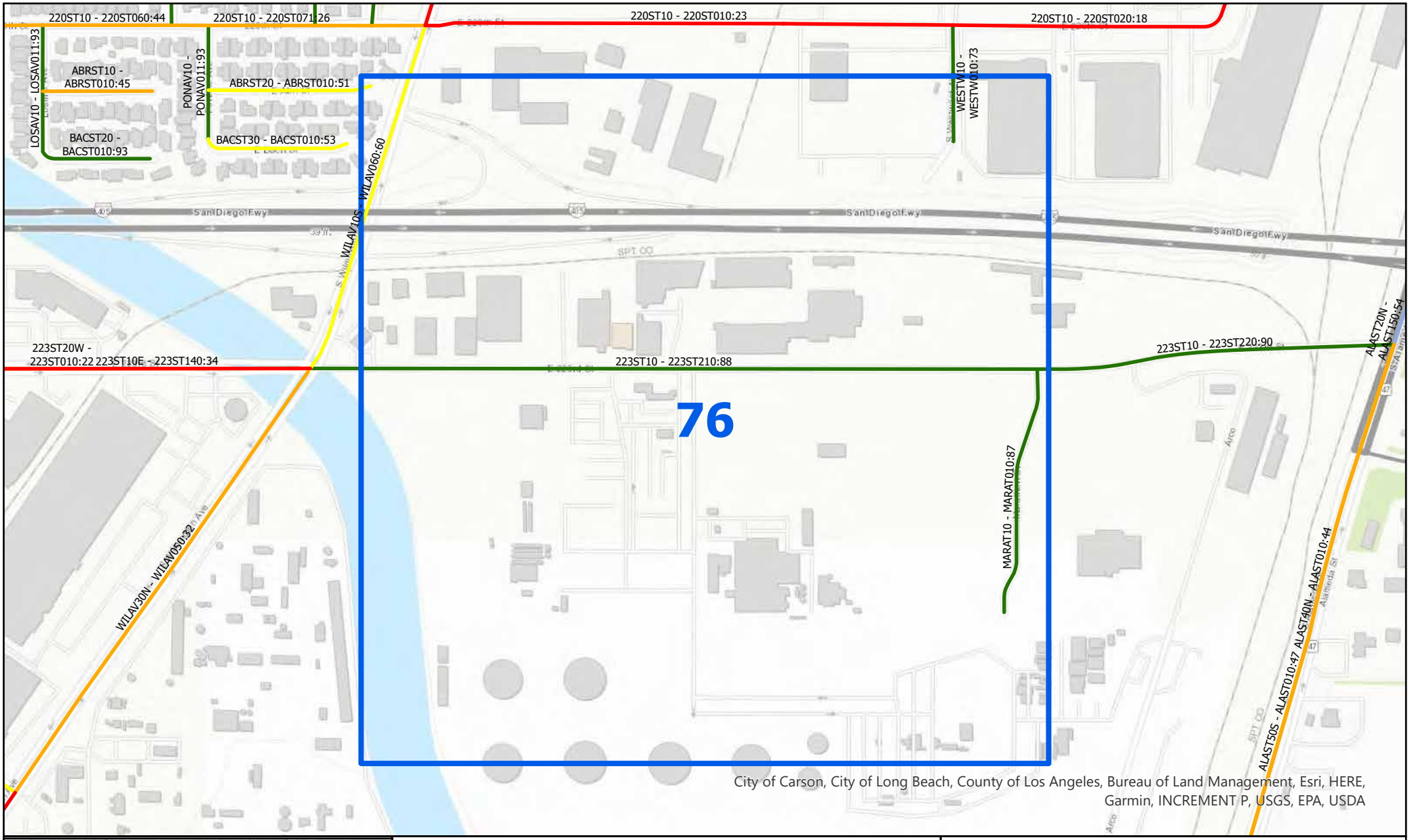
NEW MEXICO ARA

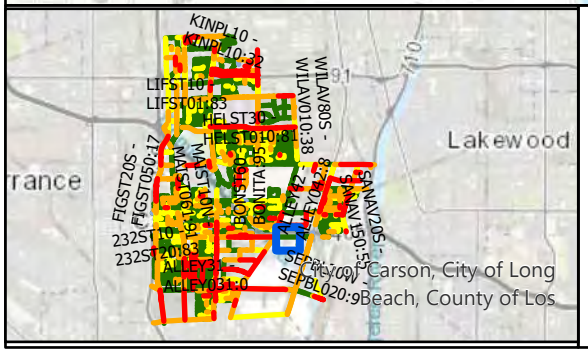
N

0 0.04 0.09 0.17 0.26 0.34 Miles

100
70
50
25
0

Category I - Very Good
Category II - Good (Non-Load)
Category III - Good (Load)
Category IV - Poor
Category V - Very Poor





CITY OF CARSON
The Jewel of the South Bay

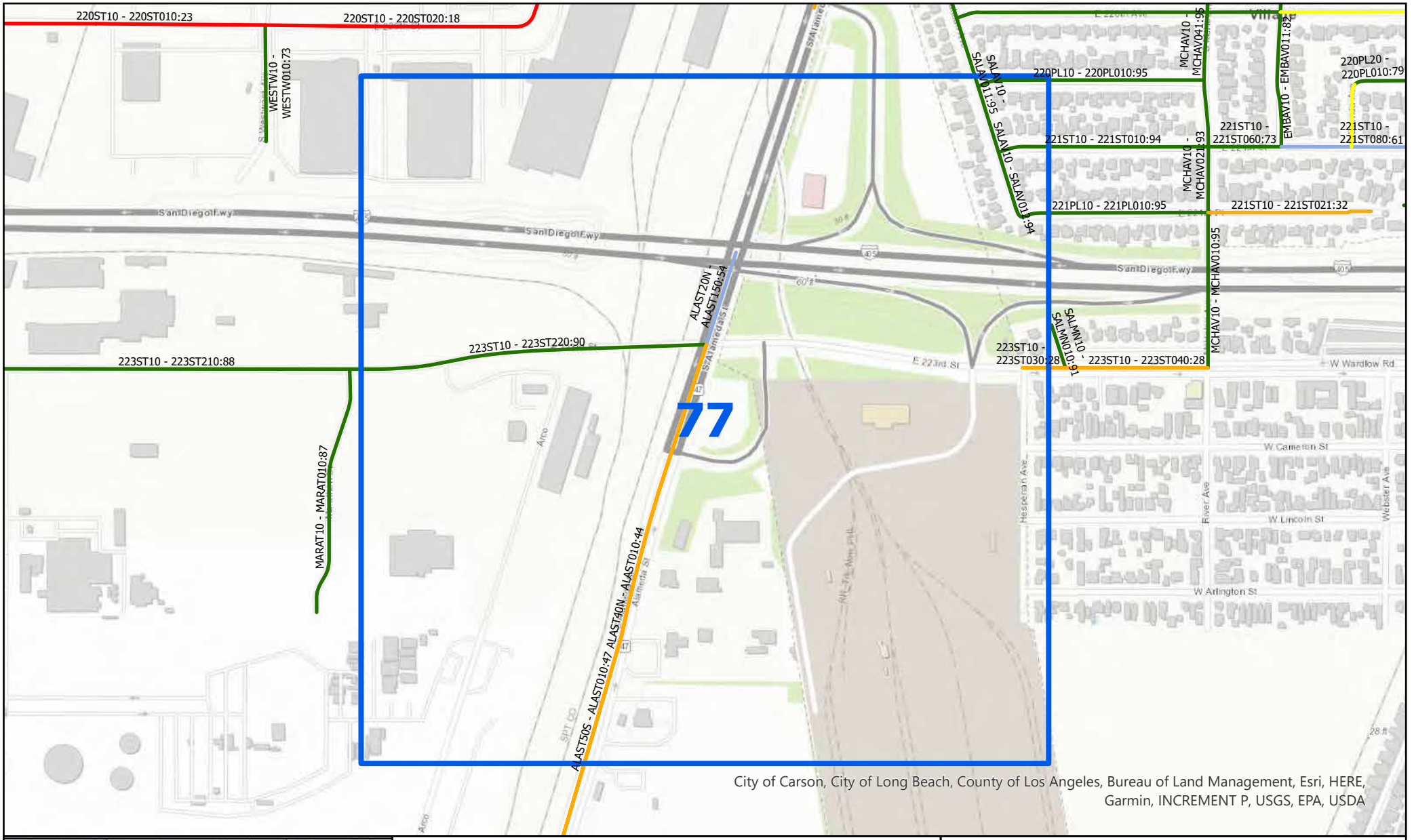
NEW MEXICO ARA

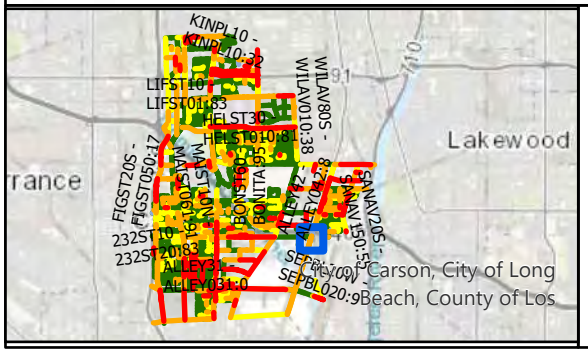
N

0 0.04 0.09 0.17 0.26 0.34 Miles

100
70
50
25
0

Category I - Very Good
Category II - Good (Non-Load)
Category III - Good (Load)
Category IV - Poor
Category V - Very Poor





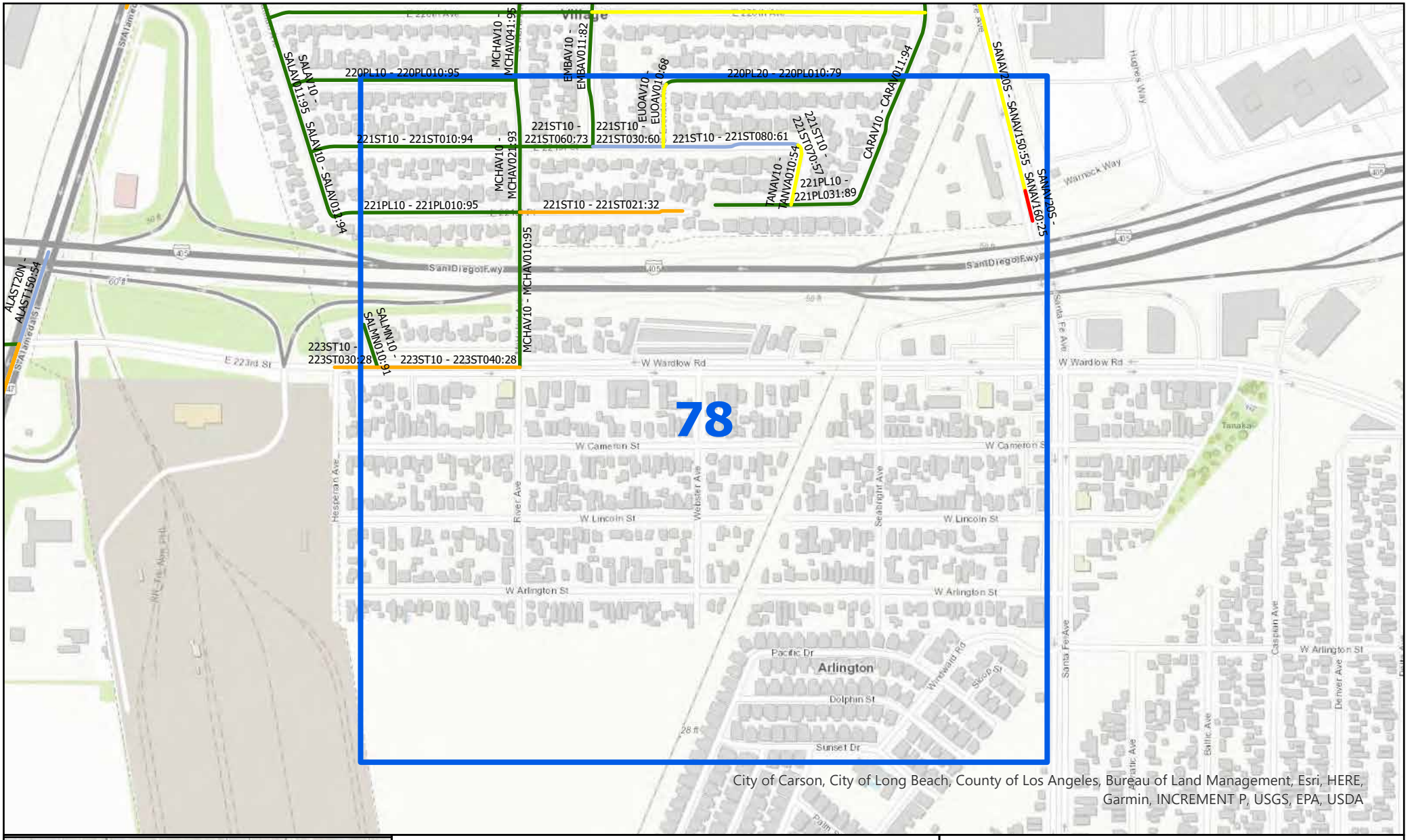
CITY OF CARSON
The Jewel of the South Bay

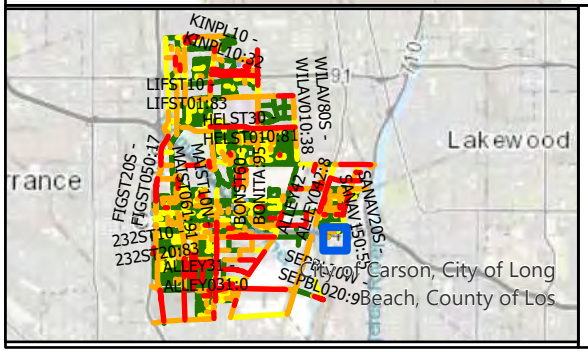
NEW MEXICO ARA

N

0 0.04 0.09 0.17 0.26 0.34 Miles

100	Category I - Very Good
70	Category II - Good (Non-Load) / Category III - Good (Load)
50	Category IV - Poor
25	Category V - Very Poor
0	





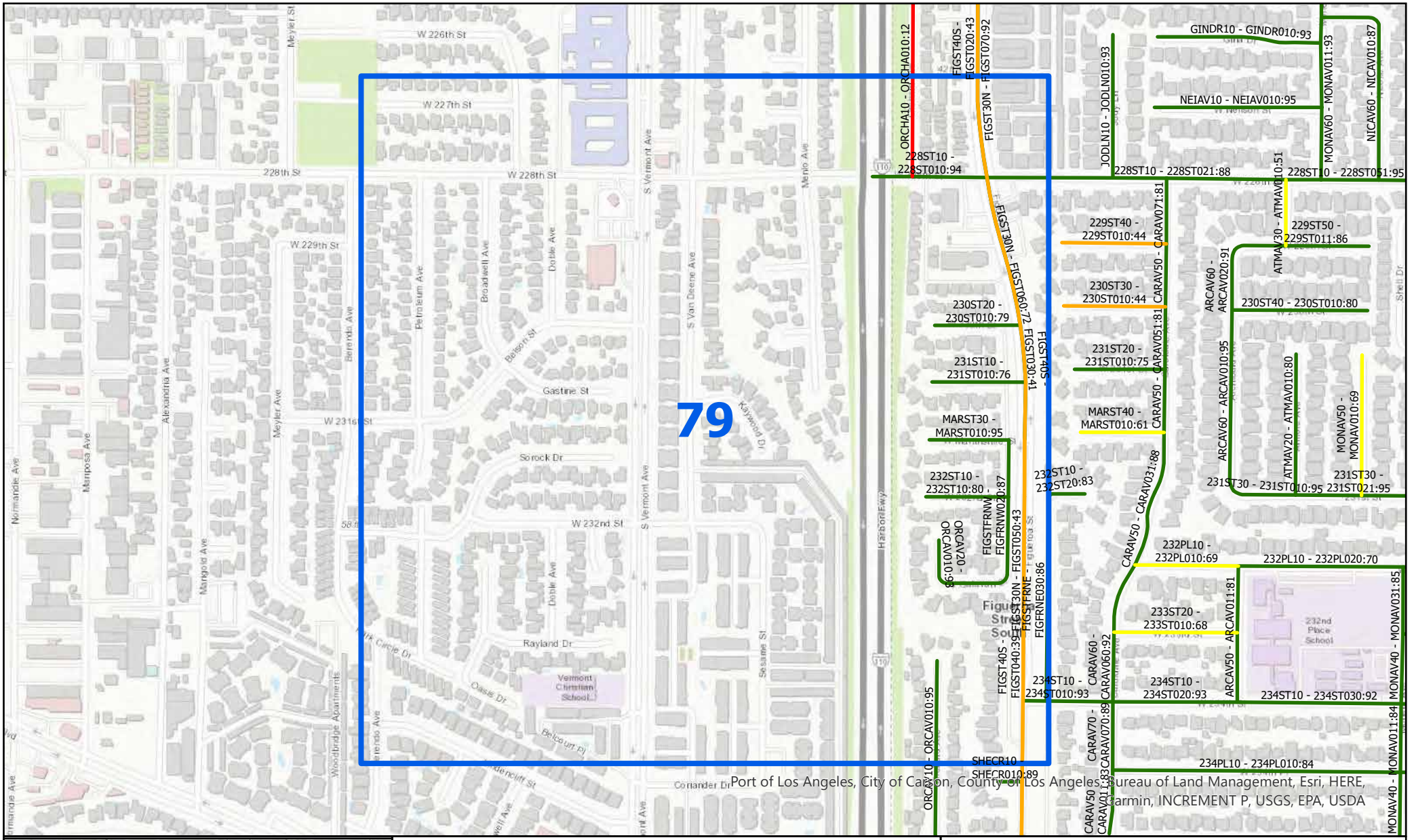
CITY OF CARSON
The Jewel of the South Bay

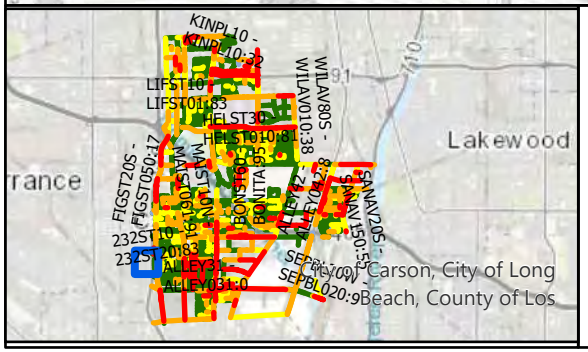
NEW MEXICO ARA

N

0 0.04 0.09 0.17 0.26 0.34 Miles

100	Category I - Very Good
70	Category II - Good (Non-Load) / Category III - Good (Load)
50	Category IV - Poor
25	Category V - Very Poor
0	



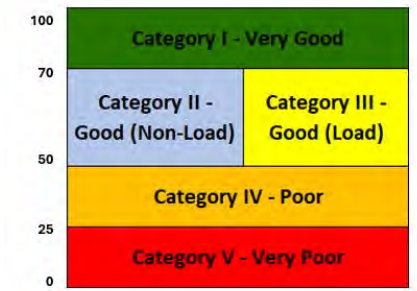


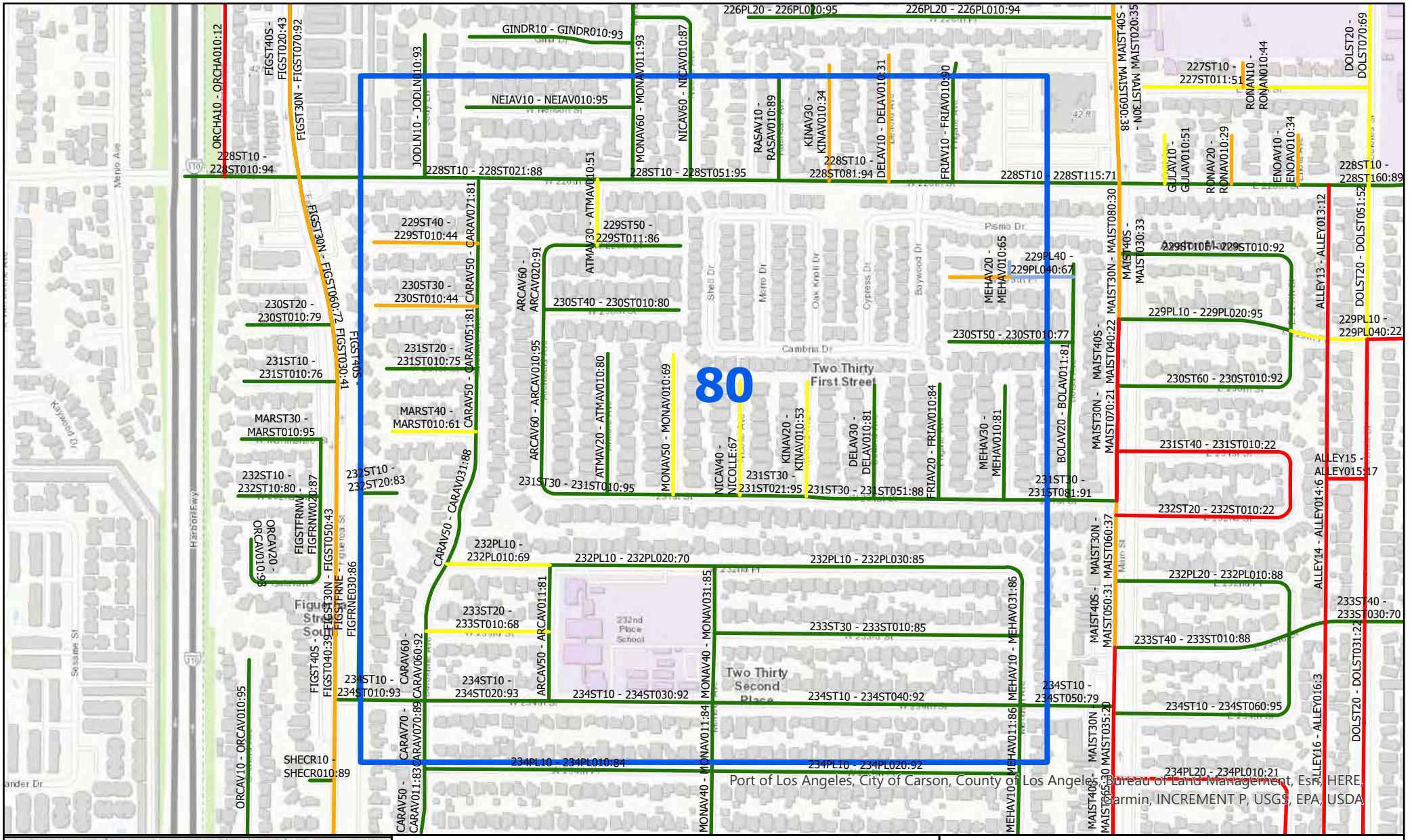
CITY OF CARSON
The Jewel of the South Bay

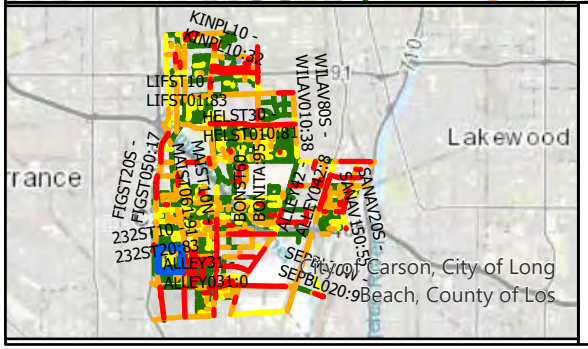
NEW MEXICO ARA

N

0 0.04 0.09 0.17 0.26 0.34 Miles







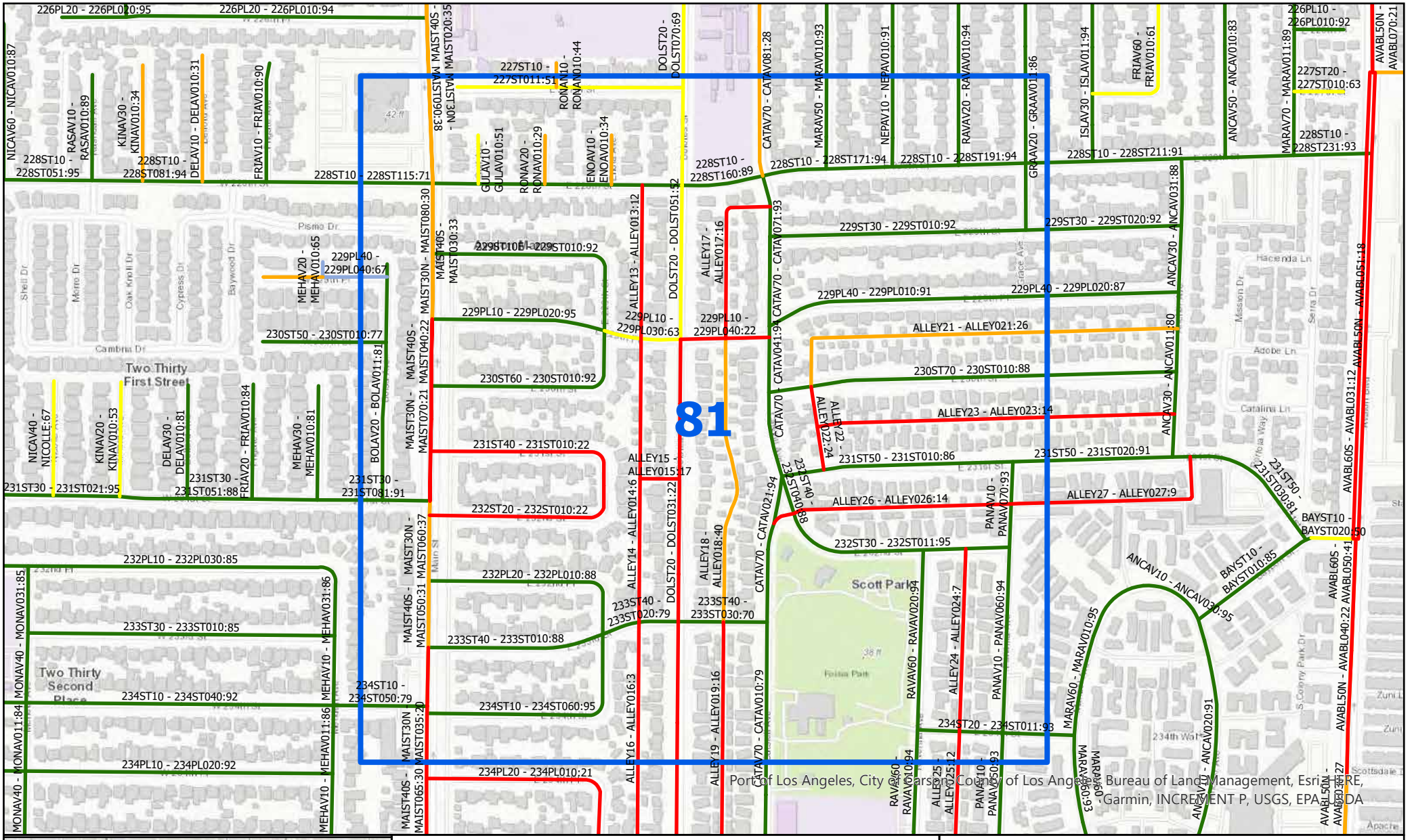
CITY OF CARSON
The Jewel of the South Bay

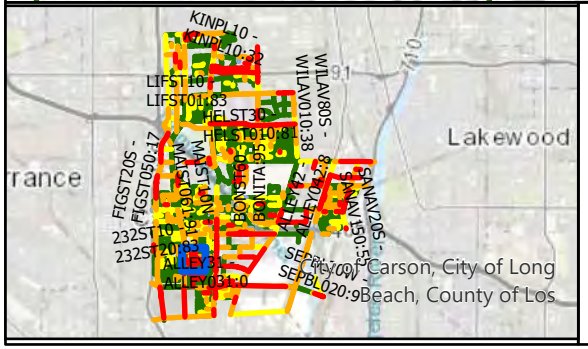
NEW MEXICO ARA

N

0 0.04 0.09 0.17 0.26 0.34
Miles

100	Category I - Very Good
70	Category II - Good (Non-Load) / Category III - Good (Load)
50	Category IV - Poor
25	Category V - Very Poor
0	





CITY OF CARSON
The Jewel of the South Bay

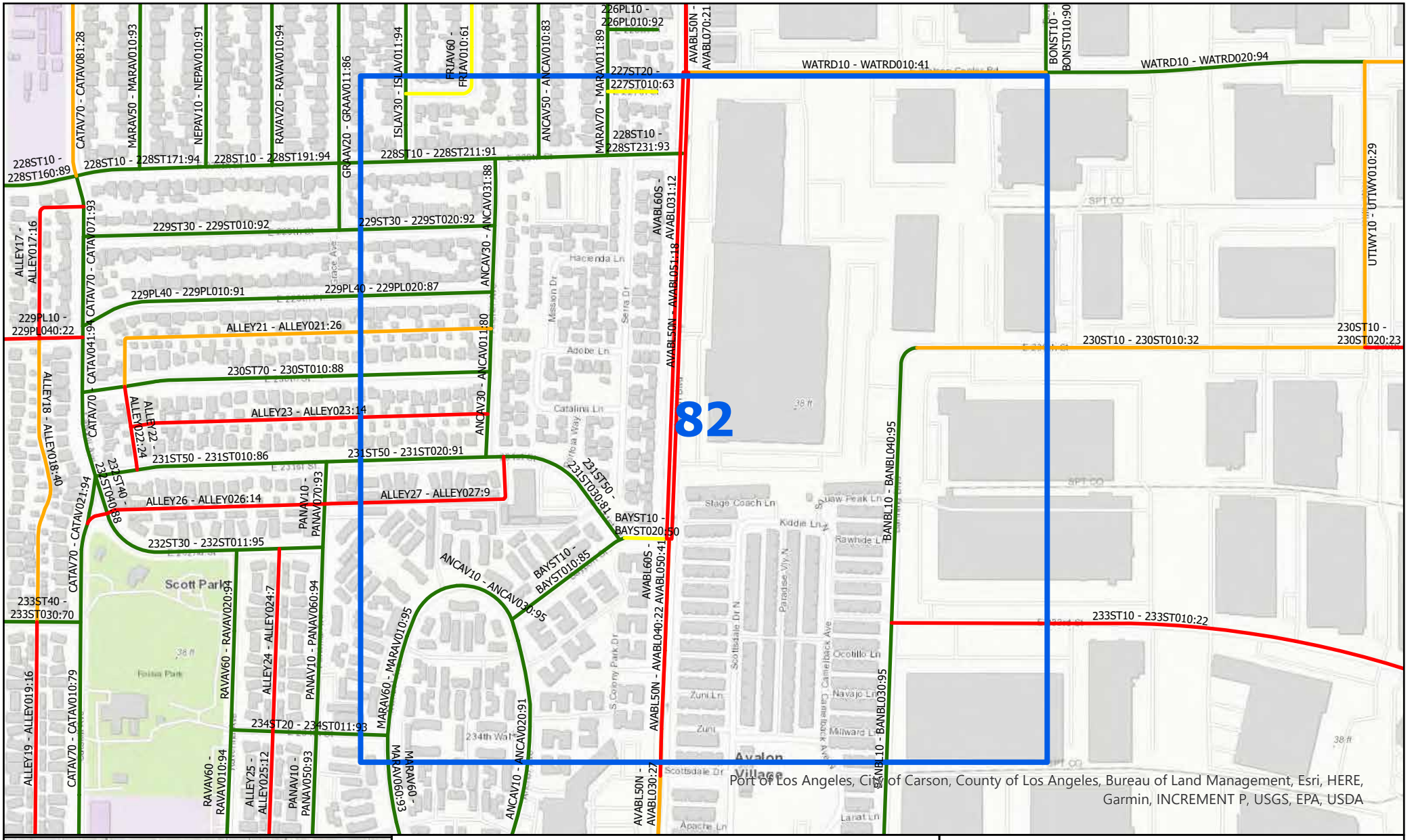
NEW MEXICO ARA

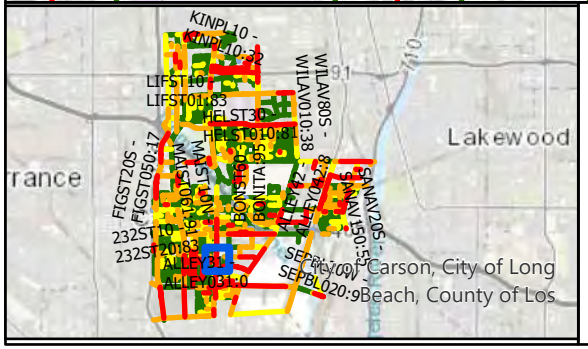
N

0 0.04 0.09 0.17 0.26 0.34 Miles

Category I - Very Good	
Category II - Good (Non-Load)	Category III - Good (Load)
Category IV - Poor	
Category V - Very Poor	

100 70 50 25 0





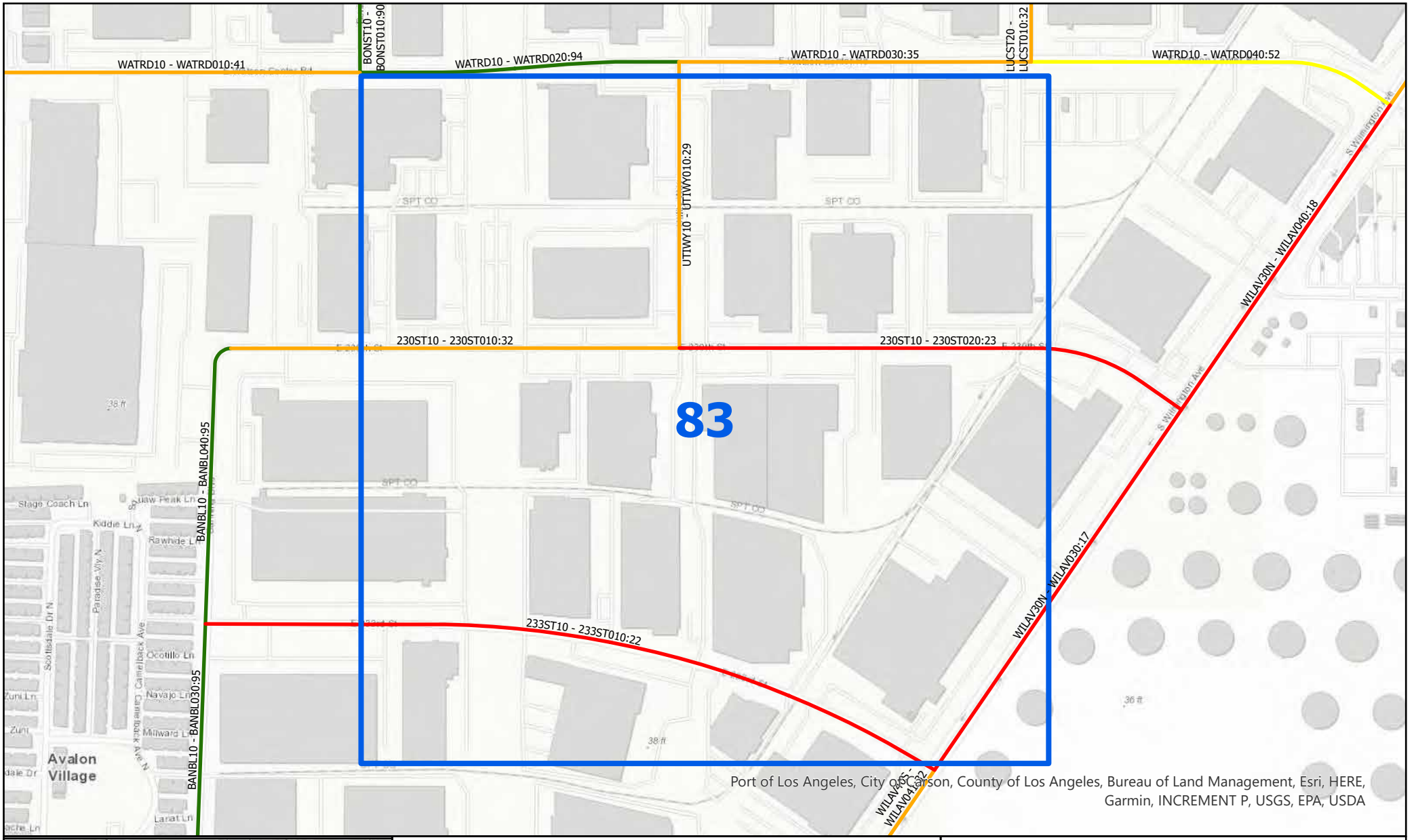
CITY OF CARSON
The Jewel of the South Bay

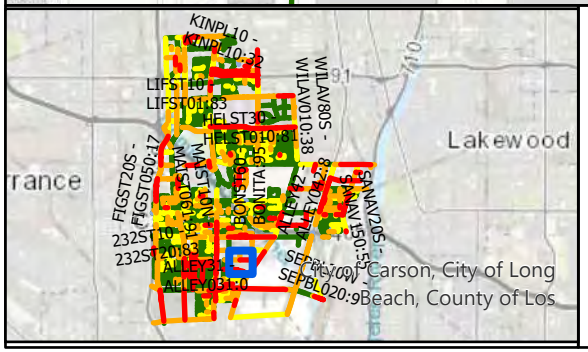
NEW MEXICO ARA

N

0 0.04 0.09 0.17 0.26 0.34 Miles

100	Category I - Very Good
70	Category II - Good (Non-Load) / Category III - Good (Load)
50	Category IV - Poor
25	Category V - Very Poor
0	



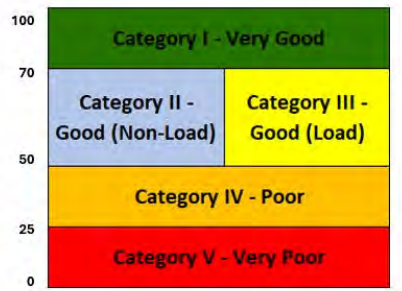


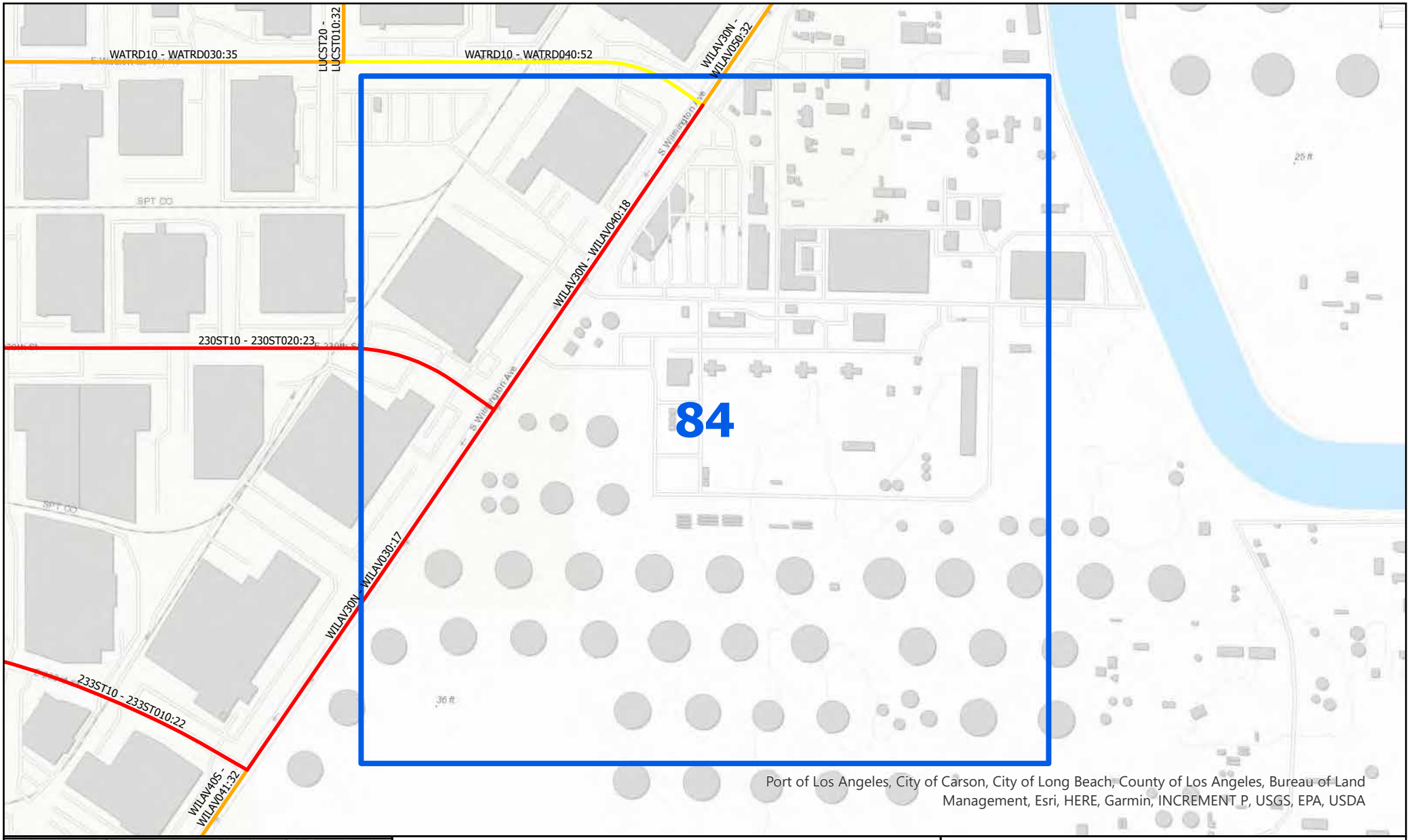
CITY OF CARSON
The Jewel of the South Bay

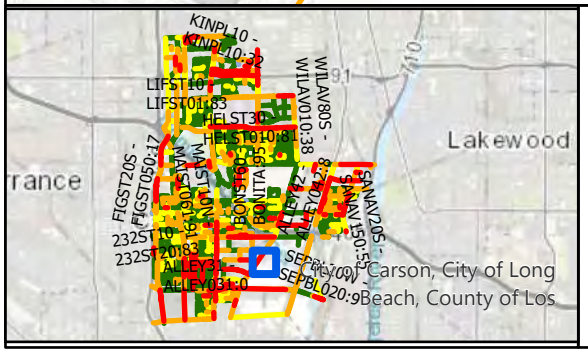
NEW MEXICO ARA

N

0 0.04 0.09 0.17 0.26 0.34 Miles







CITY OF CARSON
The Jewel of the South Bay

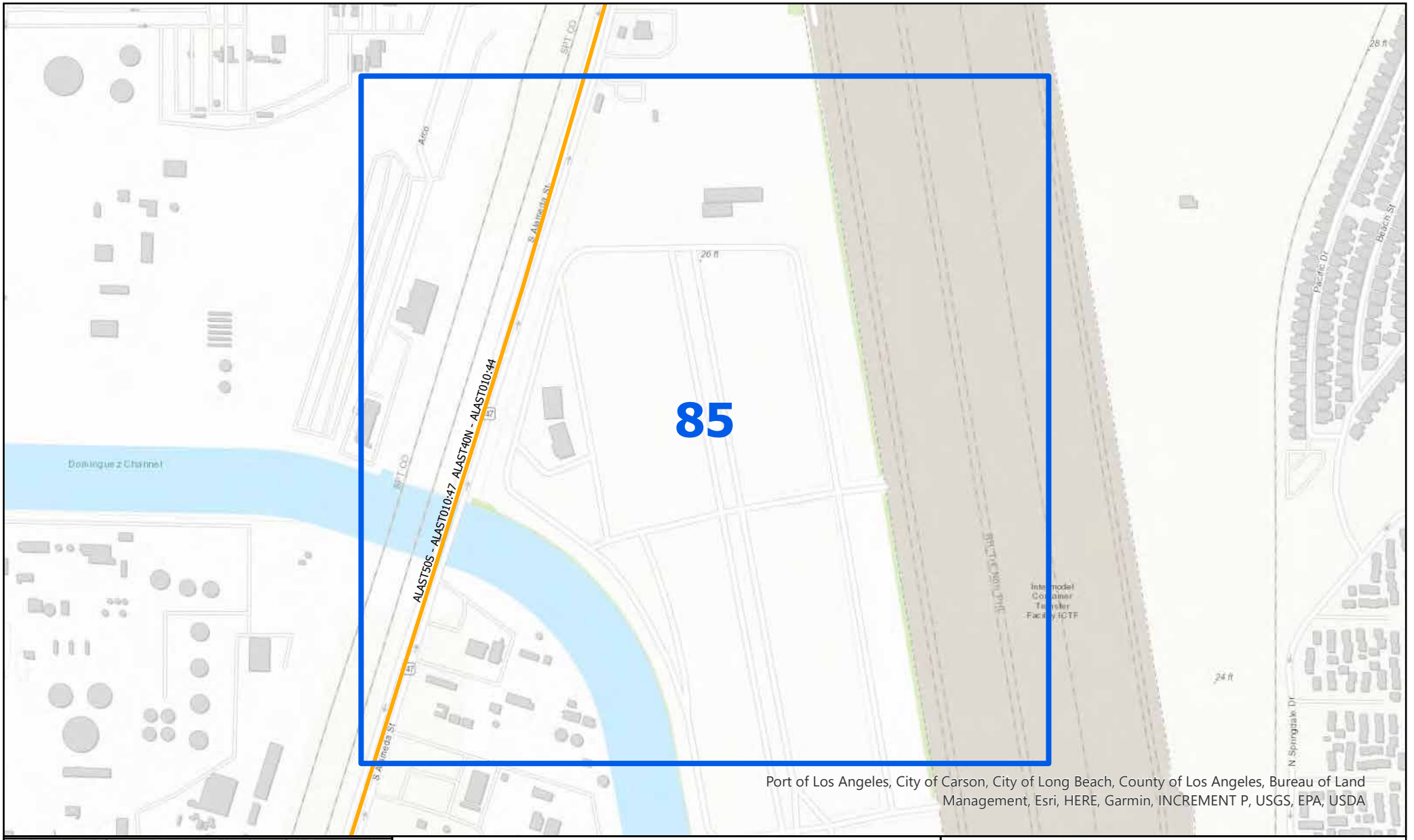
NEW MEXICO ARA

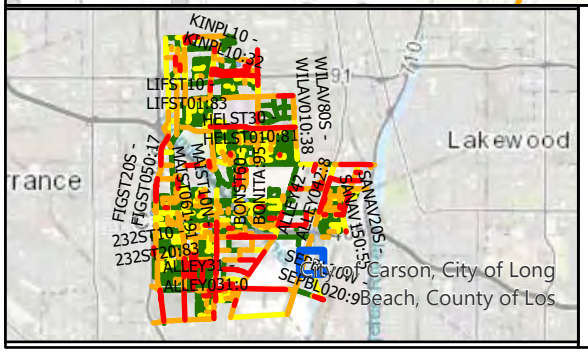
N

0 0.04 0.09 0.17 0.26 0.34 Miles

100
70
50
25
0

Category I - Very Good	
Category II - Good (Non-Load)	Category III - Good (Load)
Category IV - Poor	
Category V - Very Poor	



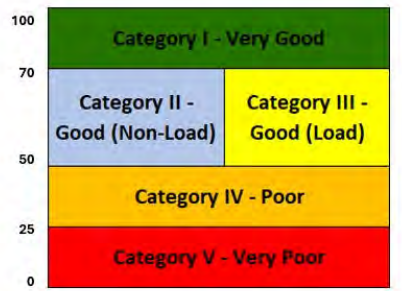


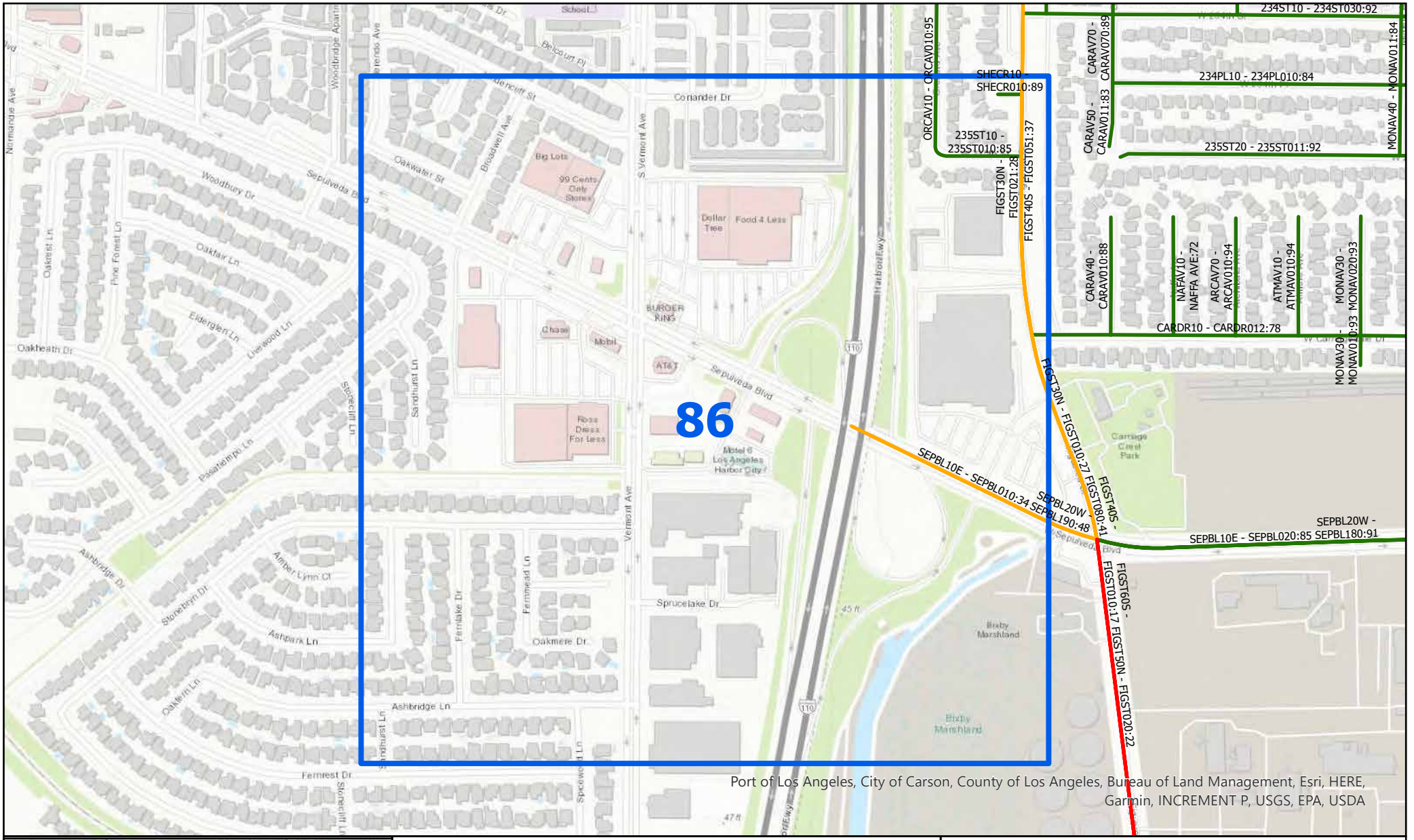
CITY OF CARSON
The Jewel of the South Bay

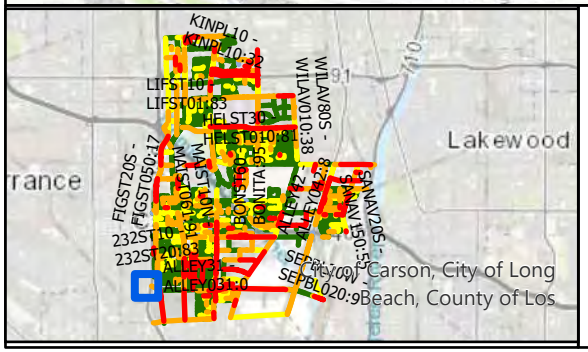
NEW MEXICO ARA

0 0.04 0.09 0.17 0.26 0.34 Miles

N







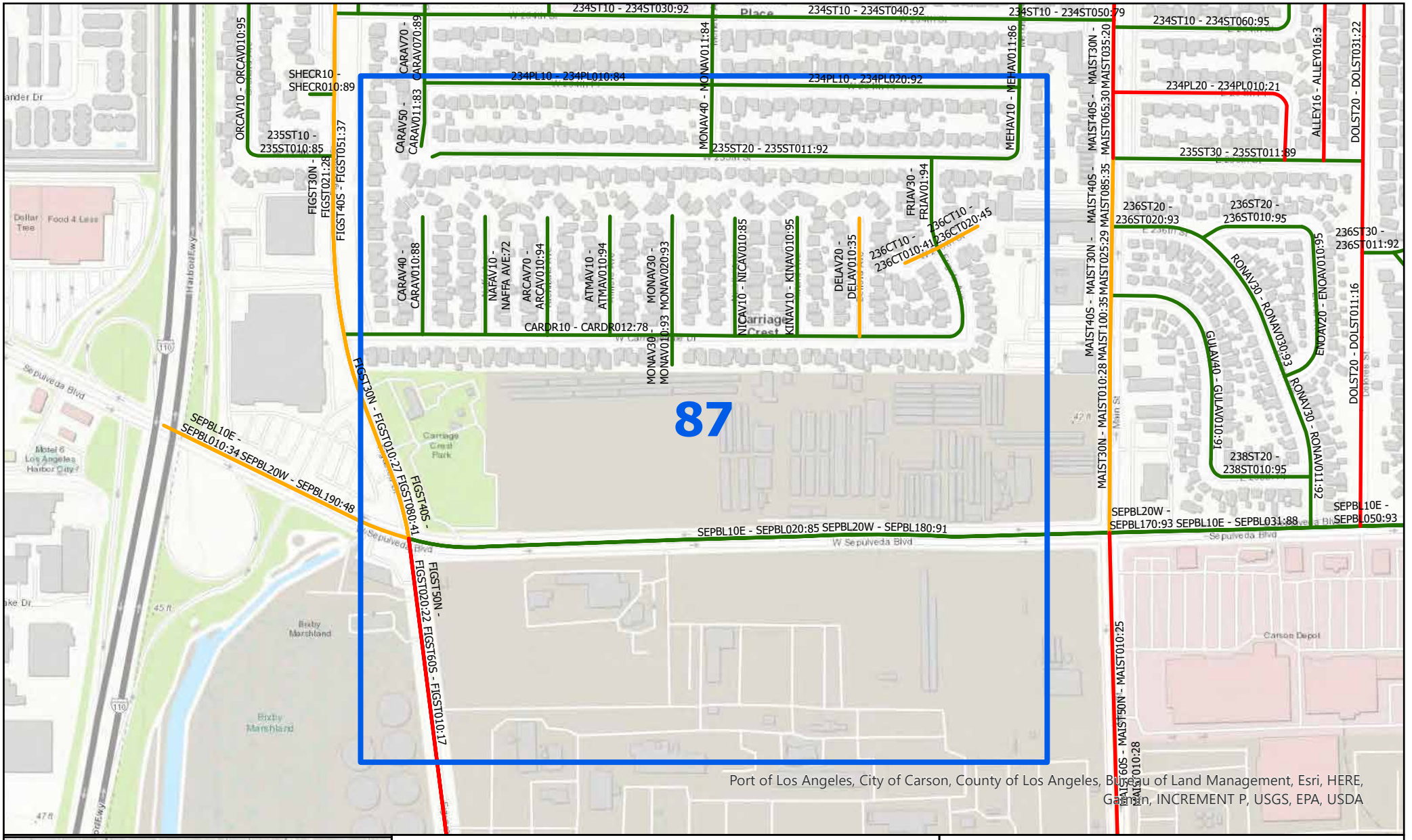
CITY OF CARSON
The Jewel of the South Bay

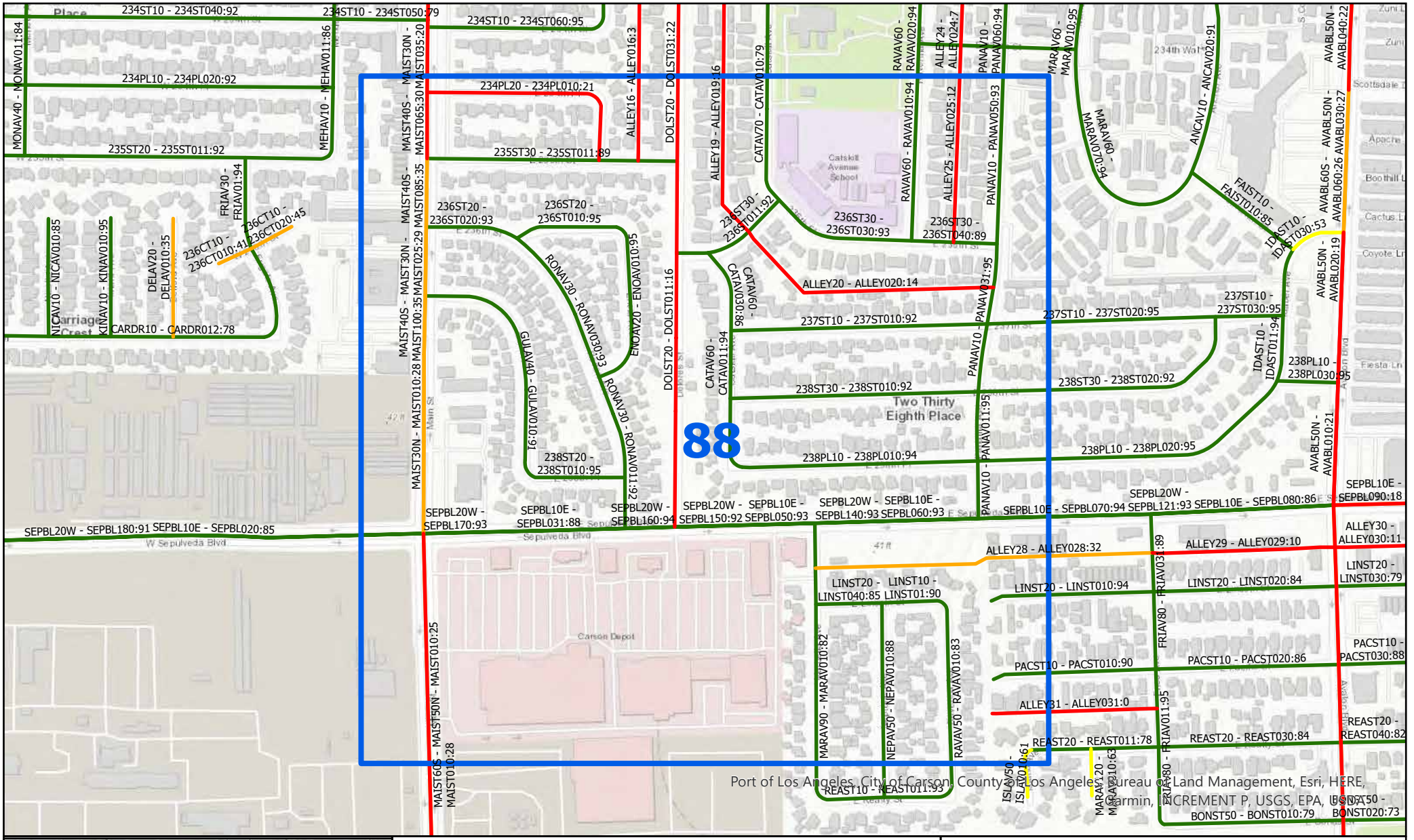
NEW MEXICO ARA

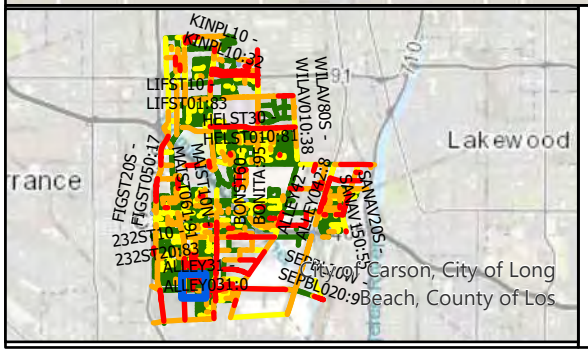
N

0 0.04 0.09 0.17 0.26 0.34 Miles

100	Category I - Very Good
70	Category II - Good (Non-Load) / Category III - Good (Load)
50	Category IV - Poor
25	Category V - Very Poor
0	


87
234ST10 - 234ST030:92
234ST10 - 234ST040:92
234ST10 - 234ST050:79
234ST10 - 234ST060:95
234PL10 - 234PL010:84
234PL10 - 234PL020:92
234PL20 - 234PL010:21
235ST10 - 235ST010:85
235ST20 - 235ST011:92
235ST30 - 235ST011:89
SHECR10 - SHECR010:89
ORCAV10 - ORCAV010:95
CARAV70 - CARAV070:89
CARAV50 - CARAV011:83
MONAV40 - MONAV011:84
MEHAV10 - MEHAV011:86
MAIST40S - MAIST30N - MAIST065:30 MAIST035:20
ALLEY16 - ALLEY016:3
DOLST20 - DOLST031:22
FIGST30N - FIGST021:28
FIGST40S - FIGST051:37
FRIAV30 - FRIAV01:94
236ST20 - 236ST020:93
236ST20 - 236ST010:95
236ST30 - 236ST011:92
236CT10 - 236CT020:45
236CT10 - 236CT010:41
CARAV40 - CARAV010:88
NAFAV10 - NAFFA AVE:72
ARCAV70 - ARCAV010:94
ATMAV10 - ATMAV010:94
MONAV30 - MONAV020:93
NICAV10 - NICAV010:85
KINAV10 - KINAV010:95
DELAV20 - DELAV010:35
CARDR10 - CARDR012:78
MAIST40S - MAIST30N - MAIST085:35 MAIST025:29 MAIST100:35 MAIST010:28
RONAV20 - RONAV030:93
ENOAV20 - ENOAV010:95
DOLST20 - DOLST011:16
GULAV40 - GULAV010:91
RONAV30 - RONAV011:92
238ST20 - 238ST010:95
SEPBL10E - SEPBL010:34 SEPBL20W - SEPBL190:48
FIGST30N - FIGST010:27 FIGST40S - FIGST080:41
SEPBL10E - SEPBL020:85 SEPBL20W - SEPBL180:91
SEPBL20W - SEPBL170:93 SEPBL10E - SEPBL031:88
SEPBL10E - SEPBL050:93
FIGST50N - FIGST020:22 FIGST60S - FIGST010:17
MAIST60S - MAIST50N - MAIST010:25
MAIST010:28
Carriage Crest
Carriage Crest Park
Bixby Marshland
Carson Depot
Motel 6 Los Angeles Harbor City
Dollar Tree
Food 4 Less
W Sepulveda Blvd
Sepulveda Blvd
Main St
Harbor Fwy
110
45 ft
47 ft
42 ft
Port of Los Angeles, City of Carson, County of Los Angeles, Bureau of Land Management, Esri, HERE, Garmin, INCREMENT P, USGS, EPA, USDA
KINPL10 - KINPL10:22
LIFST10 - LIFST010:83
HELST30 - HELST010:8
WILAV80S - WILAV010:38
FIGST20S - FIGST050:17
232ST10 - 232ST20:83
ALLEY31 - ALLEY031:10
BONITA95
SANAV20S - SANAV150:5
SEPBL10W - SEPBL020:9
Lakewood
rance
91
Carson, City of Long Beach, County of Los
CITY OF CARSON
The Jewel of the South Bay
NEW MEXICO ARA
N
0 0.04 0.09 0.17 0.26 0.34
Miles
100
70
50
25
0
Category I - Very Good
Category II - Good (Non-Load)
Category III - Good (Load)
Category IV - Poor
Category V - Very Poor



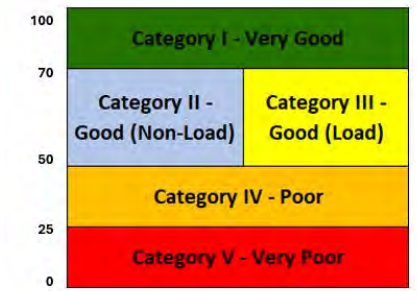


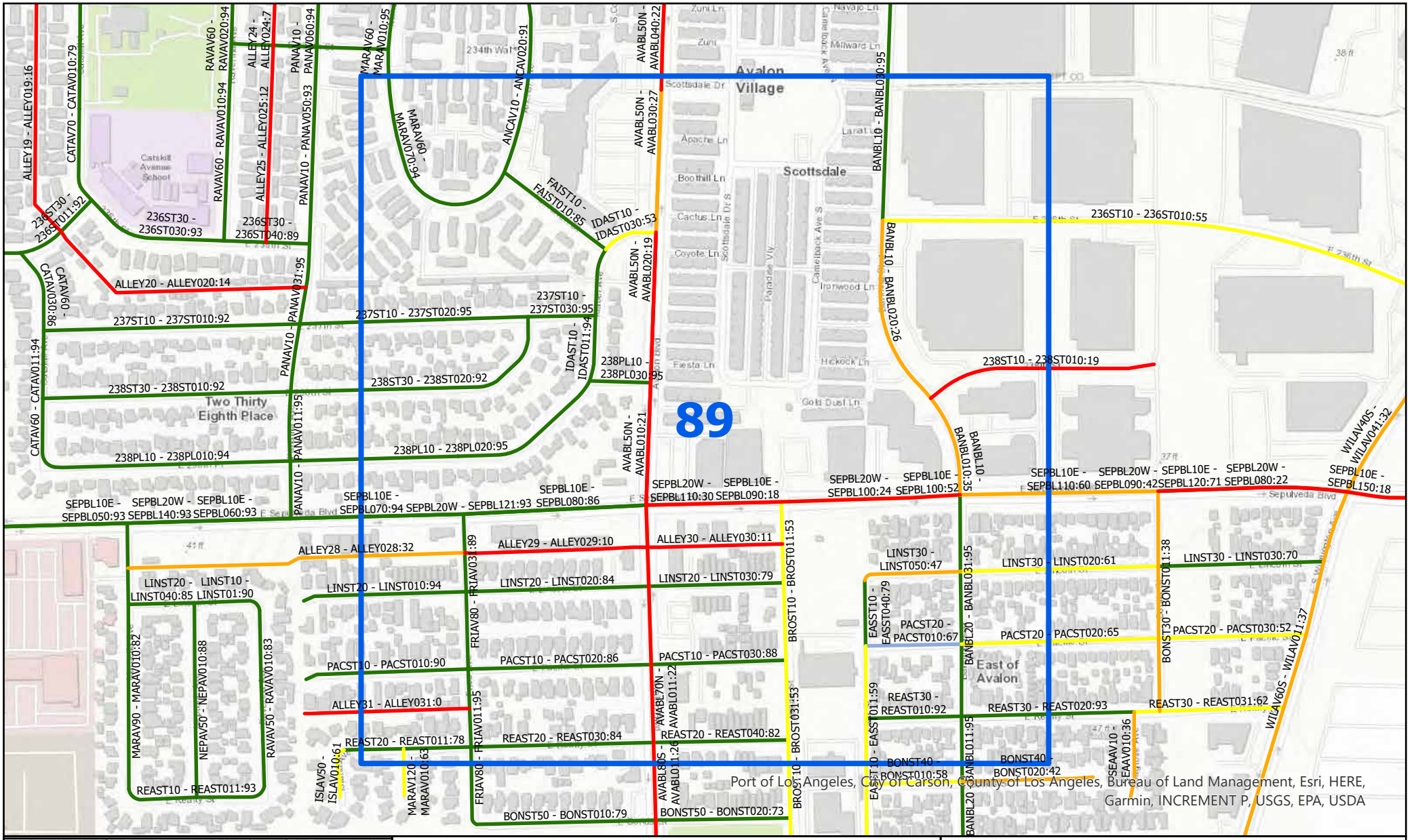
CITY OF CARSON
The Jewel of the South Bay

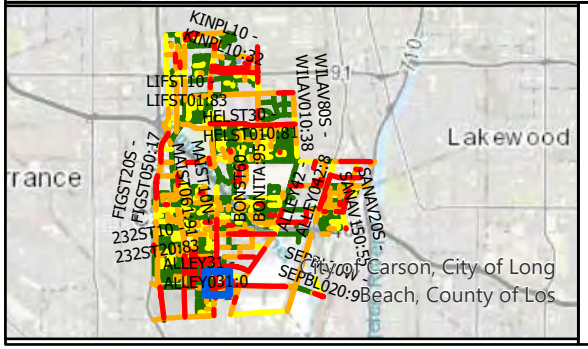
NEW MEXICO ARA

N

0 0.04 0.09 0.17 0.26 0.34 Miles







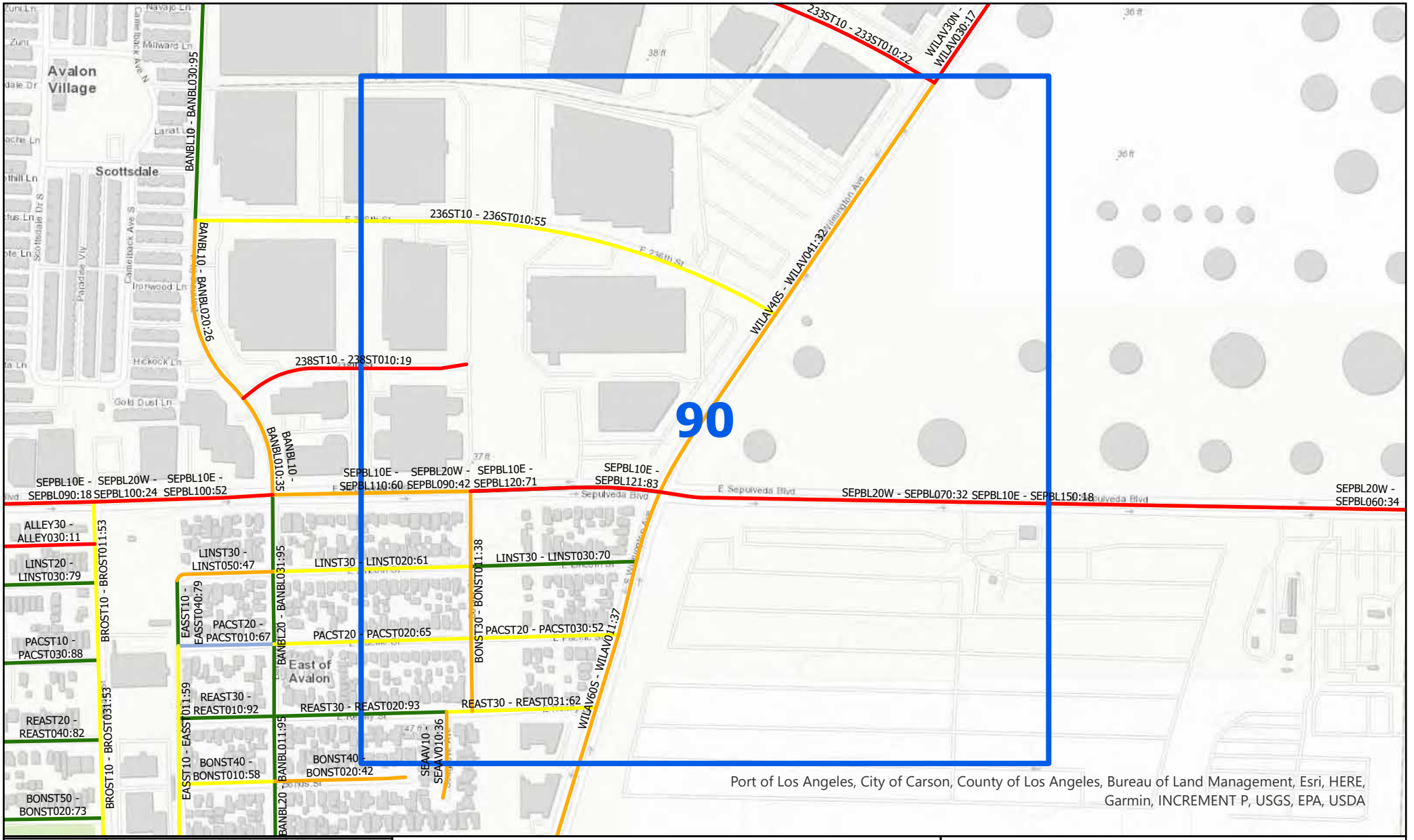
CITY OF CARSON
The Jewel of the South Bay

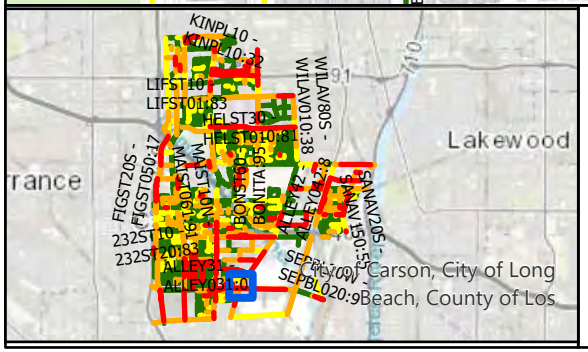
NEW MEXICO ARA

N

0 0.04 0.09 0.17 0.26 0.34 Miles

100	Category I - Very Good
70	Category II - Good (Non-Load) / Category III - Good (Load)
50	Category IV - Poor
25	Category V - Very Poor
0	





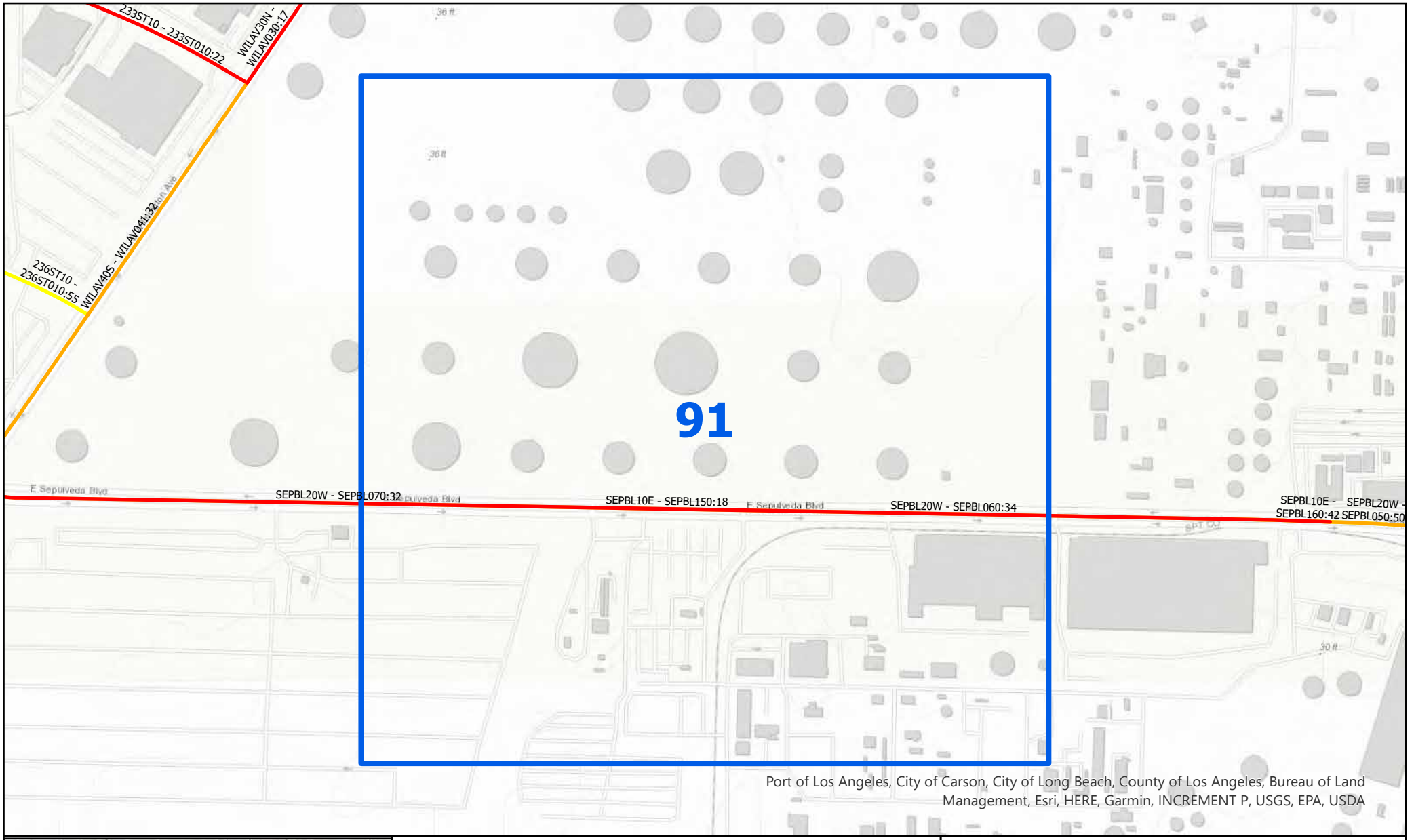
CITY OF CARSON
The Jewel of the South Bay

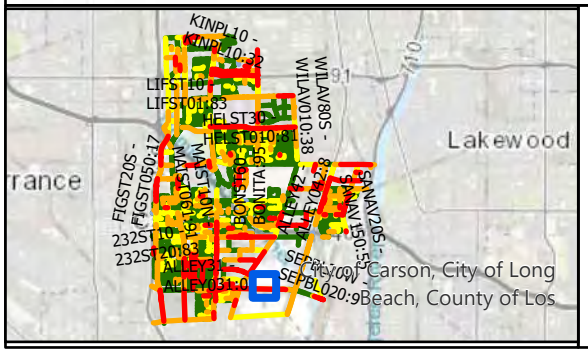
NEW MEXICO ARA

N

0 0.04 0.09 0.17 0.26 0.34 Miles

100	Category I - Very Good
70	Category II - Good (Non-Load) / Category III - Good (Load)
50	Category IV - Poor
25	Category V - Very Poor
0	





CITY OF CARSON
The Jewel of the South Bay

NEW MEXICO ARA

N

0 0.04 0.09 0.17 0.26 0.34 Miles

100
70
50
25
0

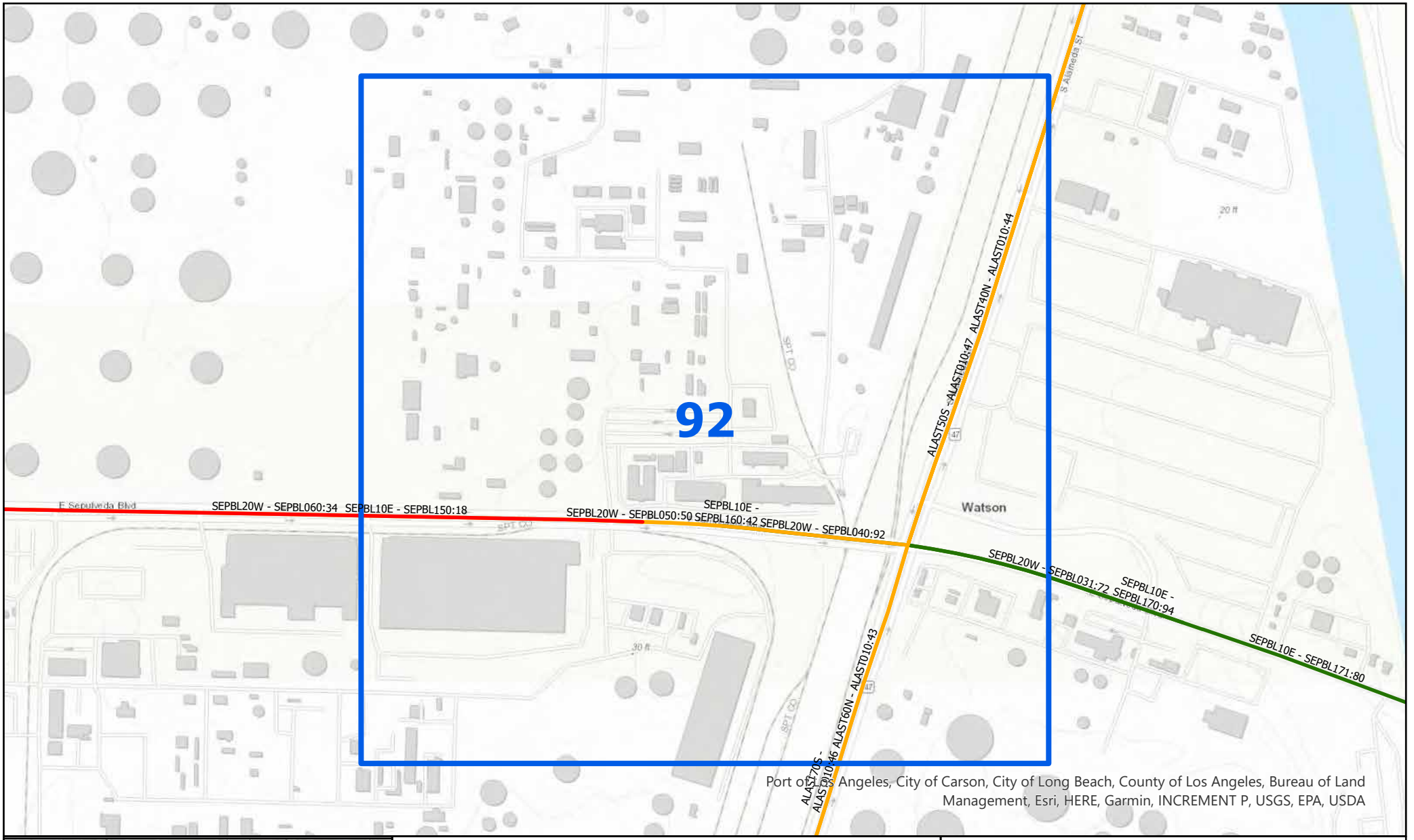
Category I - Very Good

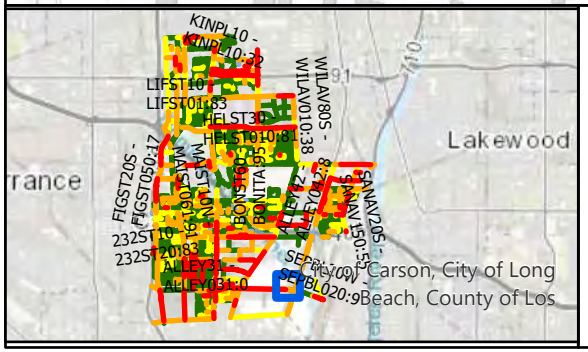
Category II - Good (Non-Load)

Category III - Good (Load)

Category IV - Poor

Category V - Very Poor





CITY OF CARSON
The Jewel of the South Bay

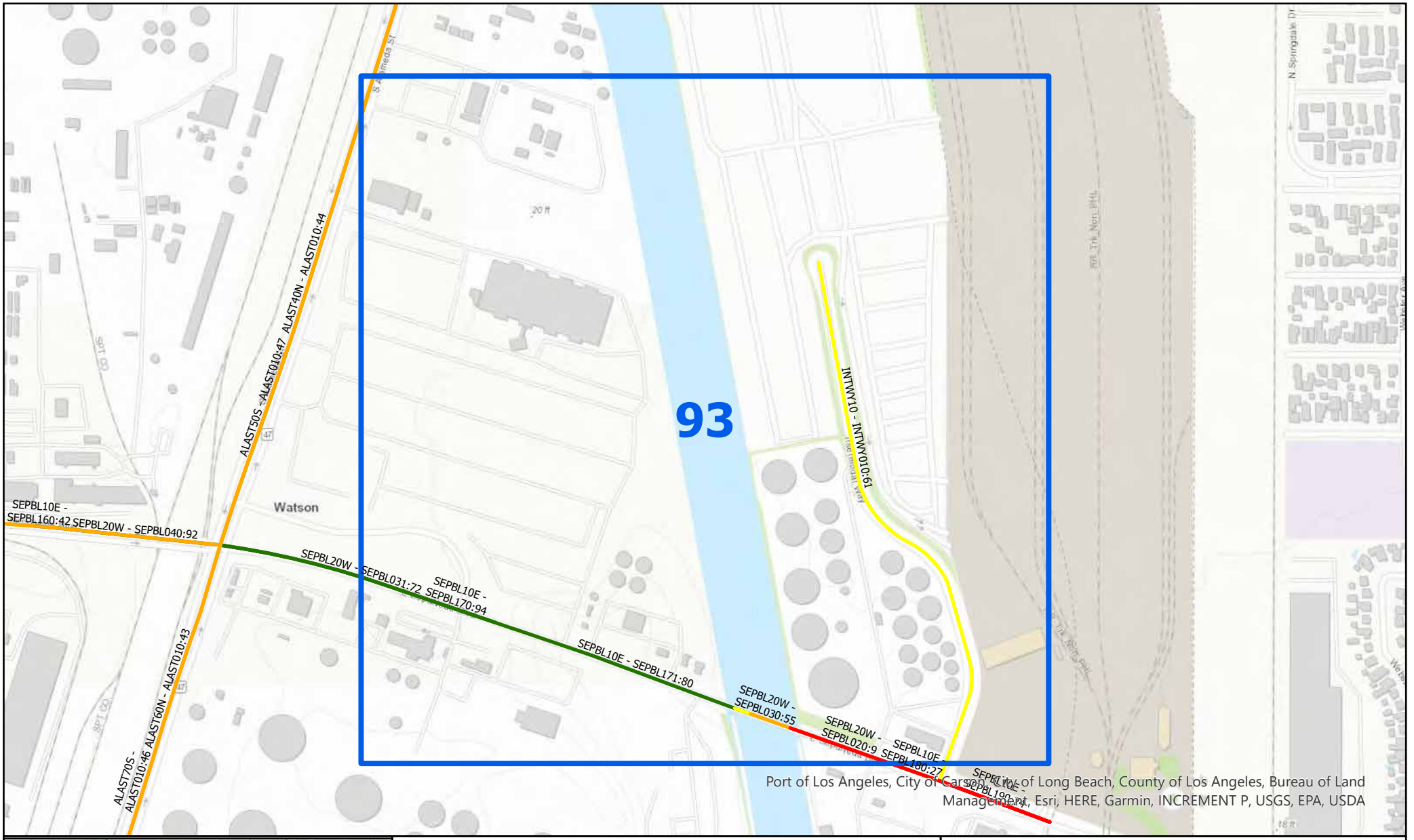
NEW MEXICO ARA

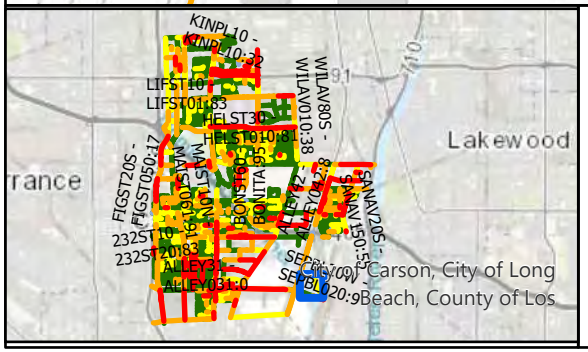
N

0 0.04 0.09 0.17 0.26 0.34 Miles

100
70
50
25
0

Category I - Very Good
Category II - Good (Non-Load)
Category III - Good (Load)
Category IV - Poor
Category V - Very Poor





CITY OF CARSON
The Jewel of the South Bay

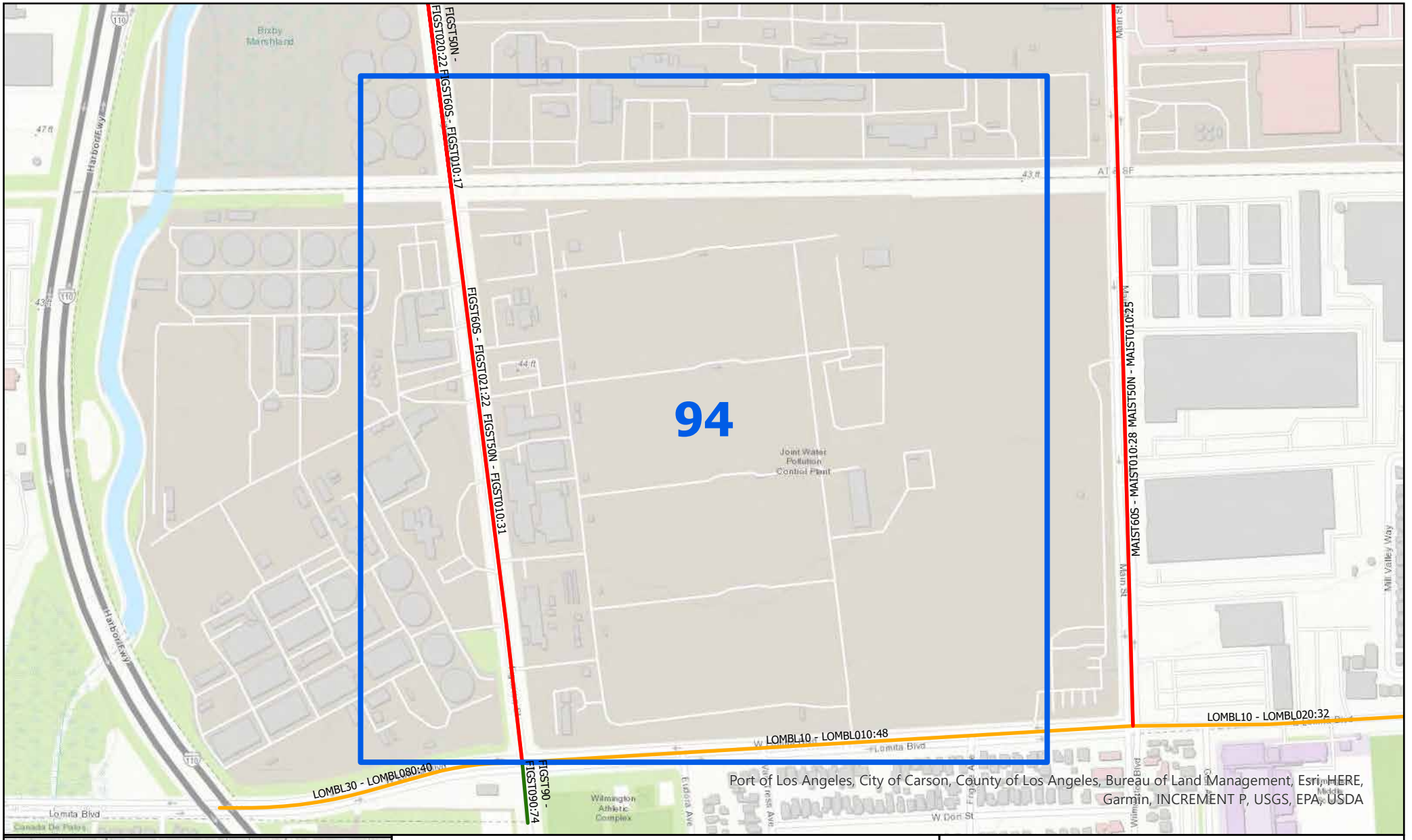
NEW MEXICO ARA

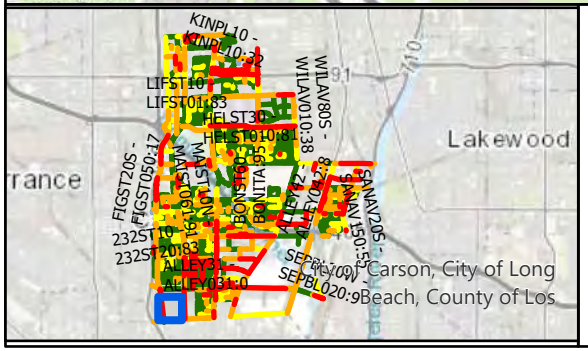
N

0 0.04 0.09 0.17 0.26 0.34 Miles

100
70
50
25
0

Category I - Very Good
Category II - Good (Non-Load)
Category III - Good (Load)
Category IV - Poor
Category V - Very Poor





CITY OF CARSON
The Jewel of the South Bay

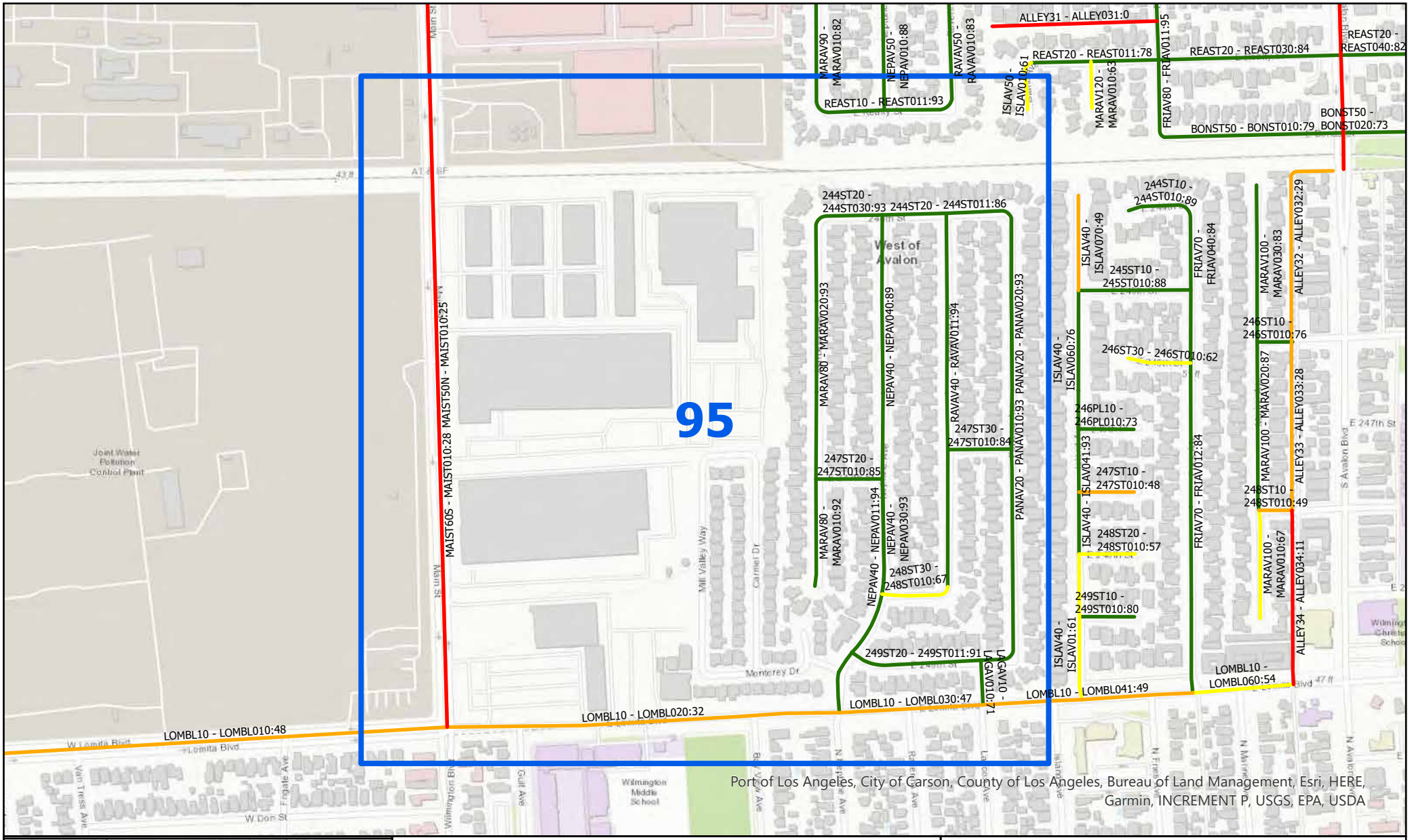
NEW MEXICO ARA

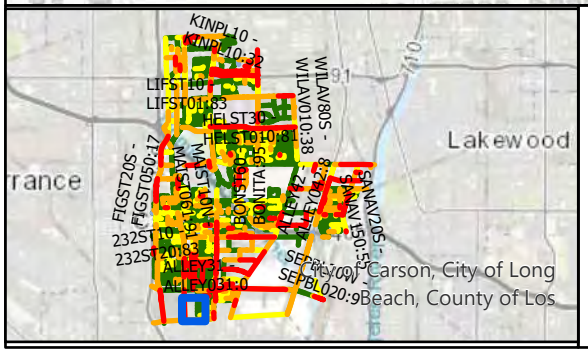
N

0 0.04 0.09 0.17 0.26 0.34 Miles

100
70
50
25
0

Category I - Very Good
Category II - Good (Non-Load)
Category III - Good (Load)
Category IV - Poor
Category V - Very Poor





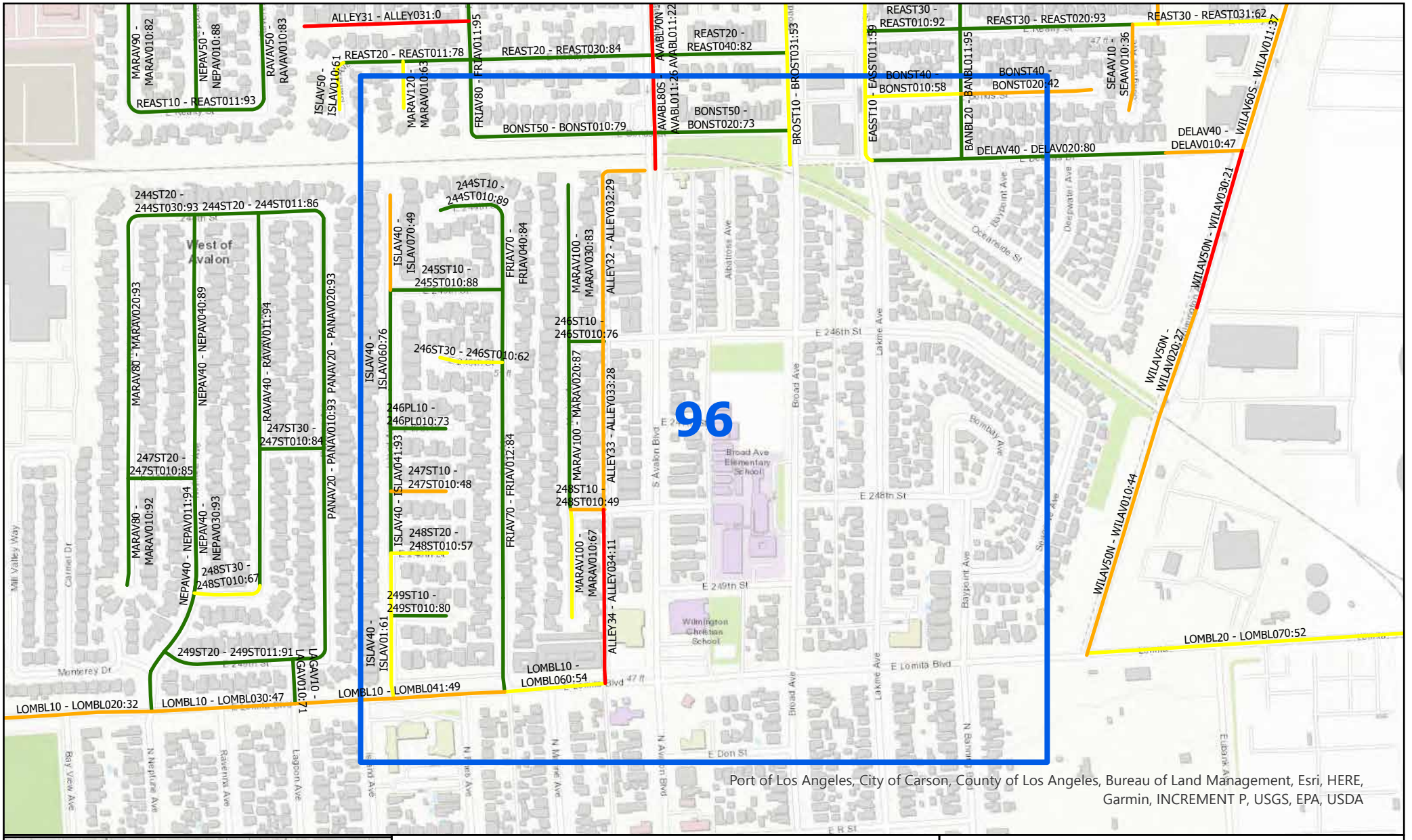
CITY OF CARSON
The Jewel of the South Bay

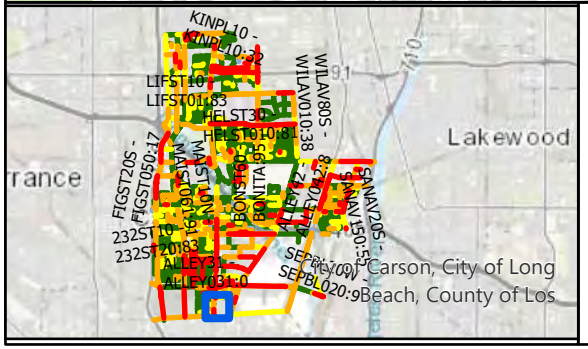
NEW MEXICO ARA

N

0 0.04 0.09 0.17 0.26 0.34 Miles

100	Category I - Very Good
70	Category II - Good (Non-Load) / Category III - Good (Load)
50	Category IV - Poor
25	Category V - Very Poor
0	





CITY OF CARSON
The Jewel of the South Bay

NEW MEXICO ARA

N

0 0.04 0.09 0.17 0.26 0.34 Miles

100
70
50
25
0

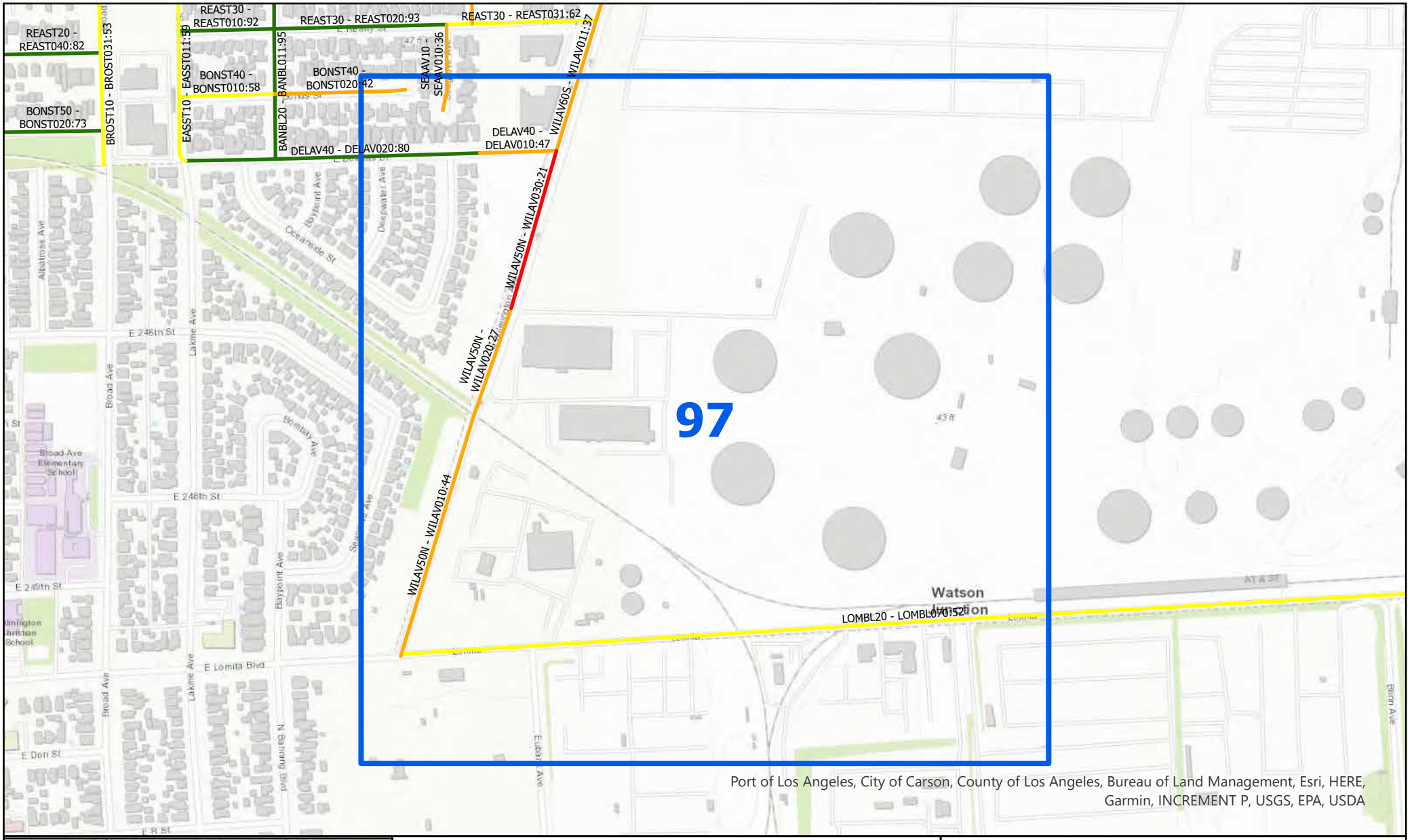
Category I - Very Good

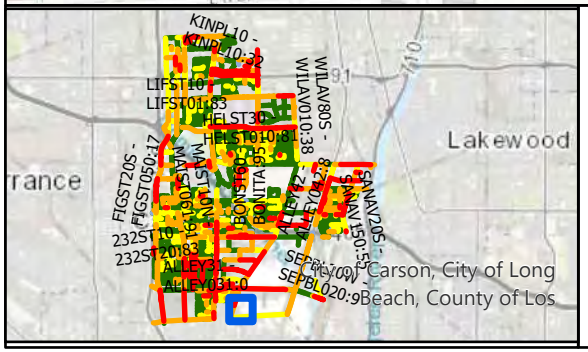
Category II - Good (Non-Load)

Category III - Good (Load)

Category IV - Poor

Category V - Very Poor





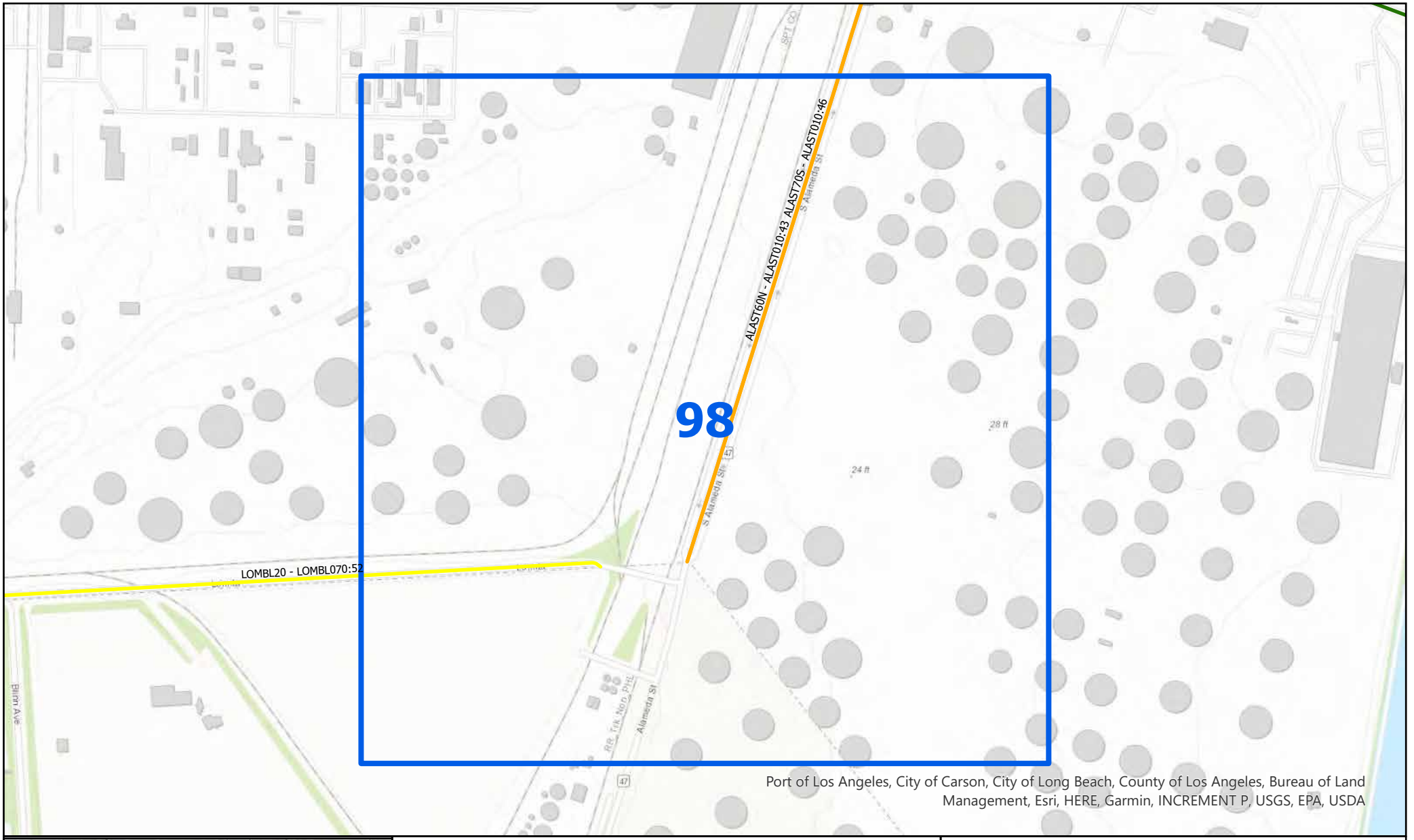
CITY OF CARSON
The Jewel of the South Bay

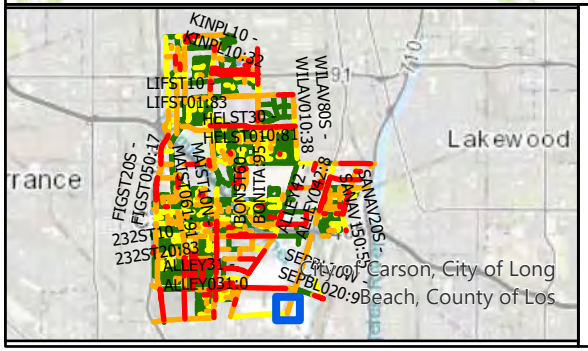
NEW MEXICO ARA

N

0 0.04 0.09 0.17 0.26 0.34 Miles

100	Category I - Very Good
70	Category II - Good (Non-Load) / Category III - Good (Load)
50	Category IV - Poor
25	Category V - Very Poor
0	





CITY OF CARSON
The Jewel of the South Bay

NEW MEXICO ARA

N

0 0.04 0.09 0.17 0.26 0.34 Miles

100
70
50
25
0

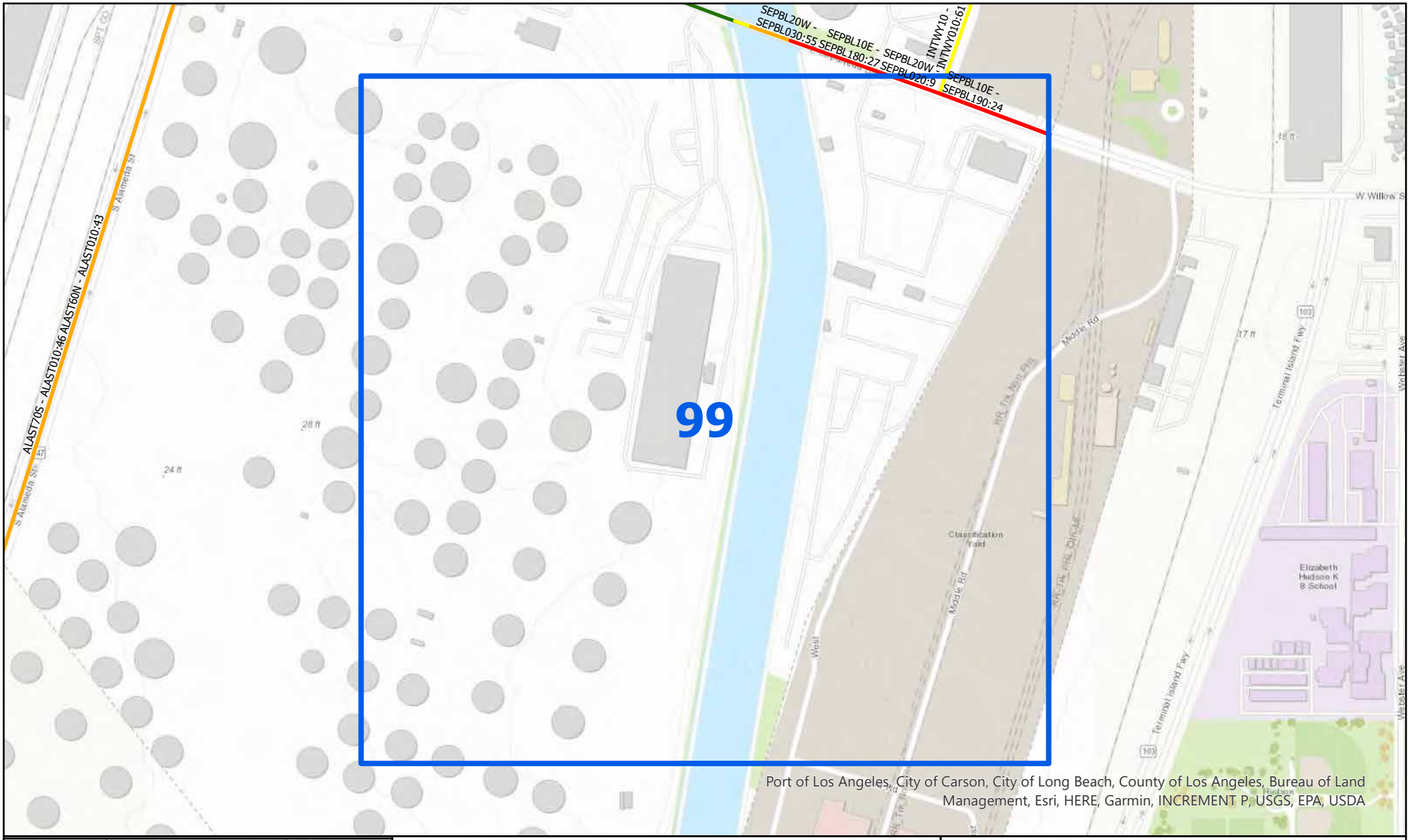
Category I - Very Good

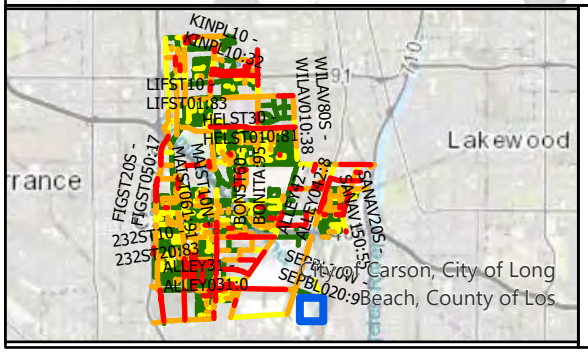
Category II - Good (Non-Load)

Category III - Good (Load)

Category IV - Poor

Category V - Very Poor





CITY OF CARSON
The Jewel of the South Bay

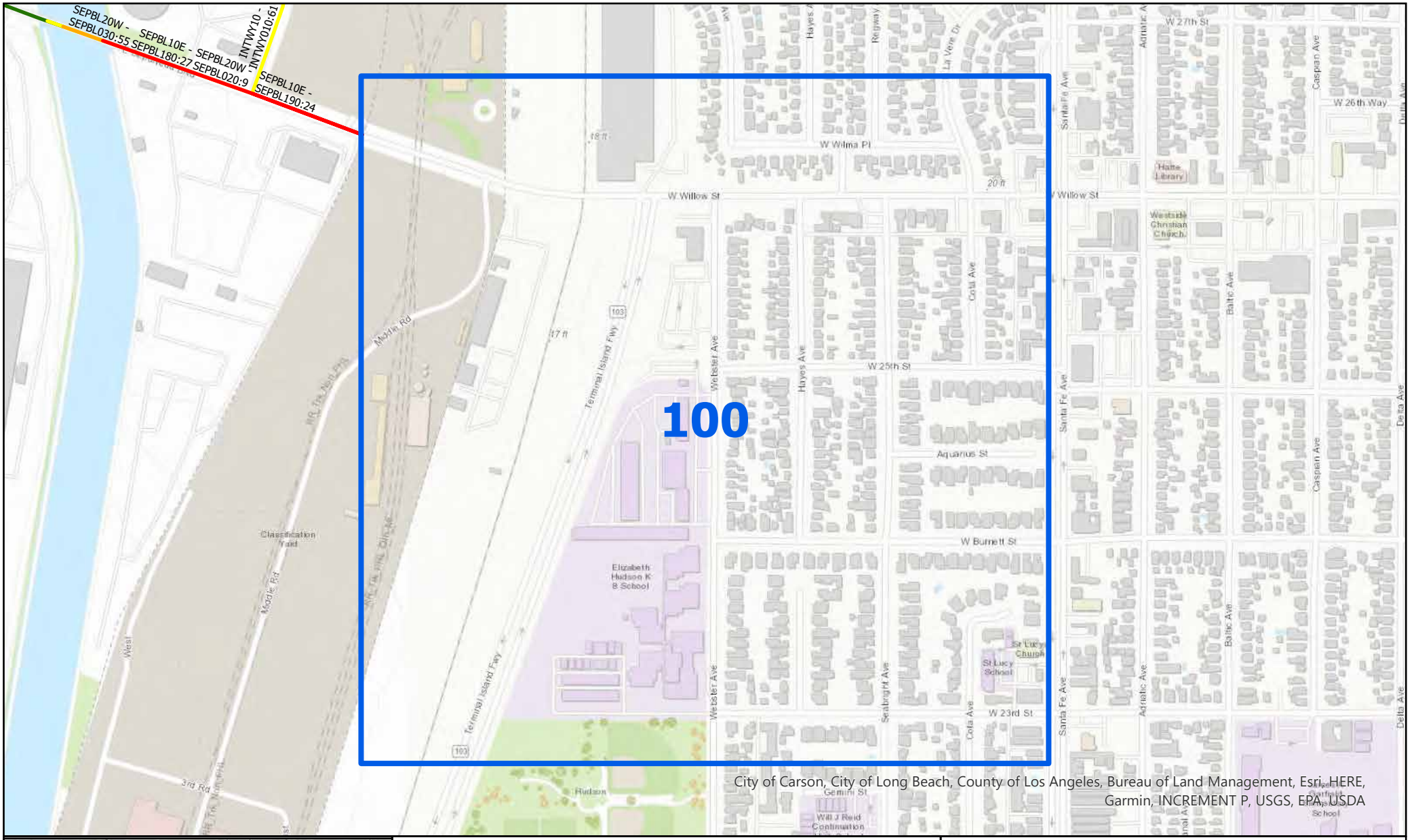
NEW MEXICO ARA

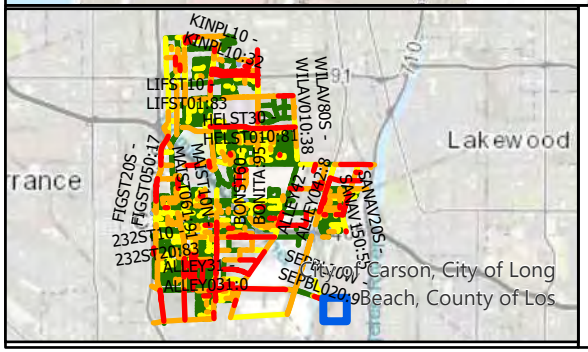
N

0 0.04 0.09 0.17 0.26 0.34 Miles

100
70
50
25
0

Category I - Very Good
Category II - Good (Non-Load)
Category III - Good (Load)
Category IV - Poor
Category V - Very Poor





CITY OF CARSON
The Jewel of the South Bay

NEW MEXICO ARA

0 0.04 0.09 0.17 0.26 0.34 Miles

N

100	Category I - Very Good
70	Category II - Good (Non-Load) / Category III - Good (Load)
50	Category IV - Poor
25	Category V - Very Poor
0	

APPENDIX C Section Included in $10M per Year

Project Period	Road Name	Begin Location	End Location	StreetID	SectionID	PCI After Treated	PCI Prior Treat	FC	Surface Type	Treatment
2026	RONAN AVE	227TH ST	END	RONAN10	RONAN010	100	44	R	AC	Thick ARHM Overlay W/Leveling & BR
2026	162ND ST	MAIN ST	BALL AV	162ST10	162ST010	100	67	R	AC	Thin ARHM Overlay W/Leveling & BR
2026	213TH ST	VERA AVE	LOSTINE AVE	213ST10	213ST090	100	66	C	AC	Thin ARHM Overlay W/Leveling & BR
2026	213TH ST	MARTIN ST	MILPOINT AVE	213ST10	213ST121	100	63	C	AC	Thin ARHM Overlay W/Leveling & BR
2026	215TH PL	MARTIN ST	WATER ST	215PL10	215PL040	100	60	R	AC	Thin ARHM Overlay W/Leveling & BR
2026	220TH ST	EMBASSY AV	CARL ERIC AV	220ST20	220ST030	100	63	R	AC	Thin ARHM Overlay W/Leveling & BR
2026	220TH ST	FOLEY AV	EDGAR ST	220ST30	220ST140	100	63	C	AC	Thin ARHM Overlay W/Leveling & BR
2026	224TH ST	MARINE AVE	END (E)	224ST30	224ST010	100	66	R	AC	Thin ARHM Overlay W/Leveling & BR
2026	227TH ST	MARINE AVE	END (E)	227ST20	227ST010	100	63	R	AC	Thin ARHM Overlay W/Leveling & BR
2026	229TH PL	230TH ST	DOLORES ST	229PL10	229PL030	100	63	R	AC	Thin ARHM Overlay W/Leveling & BR
2026	246TH ST	END	FRIES AV	246ST30	246ST010	100	62	R	AC	Thin ARHM Overlay W/Leveling & BR
2026	248TH ST	NEPTUNE AV	RAVENNA AV	248ST30	248ST010	100	67	R	AC	Thin ARHM Overlay W/Leveling & BR
2026	ABBOTTSON ST	RADLETT AVE	TAJAUTA AVE	ABBST10	ABBST011	100	62	R	AC	Thin ARHM Overlay W/Leveling & BR
2026	ALAMEDA ST	DOMINGUEZ ST	DEL AMO BLVD	ALAST10	ALAST010	100	68	A	AC	Thin ARHM Overlay W/Leveling & BR
2026	ALAMEDA ST	ON/OFF RAMP	218TH PL	ALAST20N	ALAST010	100	66	A	AC	Thin ARHM Overlay W/Leveling & BR

Project Period	Road Name	Begin Location	End Location	StreetID	SectionID	PCI After Treated	PCI Prior Treat	FC	Surface Type	Treatment
2026	ALONDRA BLVD	BROADWAY AVE	MAIN ST	ALOBL10	ALOBL020E	100	62	A	AC	Thin ARHM Overlay W/Leveling & BR
2026	ALVO AVE	DIMONDALE DR	EDOM ST	ALVAV20	ALVAV010	100	60	R	AC	Thin ARHM Overlay W/Leveling & BR
2026	AMBLER AVE	E 182nd St	E 184th St	AMBAV50	AMBAV020	100	65	R	AC	Thin ARHM Overlay W/Leveling & BR
2026	AVALON BL	CARSON PL DRR	DEL AMO BLVD	AVABL10	AVABL050	100	67	A	AC	Thin ARHM Overlay W/Leveling & BR
2026	AVALON BL	UNIVERSITY DR	189TH ST	AVABL110N	AVABL020	100	66	A	AC	Thin ARHM Overlay W/Leveling & BR
2026	AVALON BL	LOYOLA AVE	186TH ST	AVABL110N	AVABL040	100	61	A	AC	Thin ARHM Overlay W/Leveling & BR
2026	AVALON BL	LOYOLA AVE	189TH ST	AVABL120S	AVABL050	100	69	A	AC	Thin ARHM Overlay W/Leveling & BR
2026	AVALON BL	ELSMERE DR	192ND ST	AVABL130N	AVABL030	100	64	A	AC	Thin ARHM Overlay W/Leveling & BR
2026	AVALON BL	192ND ST	UNIVERSITY DR	AVABL130N	AVABL040	100	67	A	AC	Thin ARHM Overlay W/Leveling & BR
2026	AVALON BL	192ND ST	ELSMERE DR	AVABL140S	AVABL020	100	64	A	AC	Thin ARHM Overlay W/Leveling & BR
2026	AVALON BL	CARSON ST	DESFORD ST	AVABL30N	AVABL030	100	68	A	AC	Thin ARHM Overlay W/Leveling & BR
2026	AVALON BL	DESFORD ST	CARSON ST	AVABL40S	AVABL030	100	70	A	AC	Thin ARHM Overlay W/Leveling & BR
2026	BITTERLAKE ST	PRONDALL CT	BAUCHARD CT	BITST10	BITST035	100	63	R	AC	Thin ARHM Overlay W/Leveling & BR
2026	BITTERLAKE ST	WELLFLEET AVE	SCUDDER CT	BITST10	BITST075	100	60	R	AC	Thin ARHM Overlay W/Leveling & BR
2026	BOLSA ST	216TH ST	215TH ST	BOLST20	BOLST010	100	63	R	AC	Thin ARHM Overlay W/Leveling & BR

Project Period	Road Name	Begin Location	End Location	StreetID	SectionID	PCI After Treated	PCI Prior Treat	FC	Surface Type	Treatment
2026	CARSON ST	FIGUEROA BL	MONETA AV	CARST30E	CARST020	100	66	A	AC	Thin ARHM Overlay W/Leveling & BR
2026	CARSON ST	MONETA AV	MAIN ST	CARST30E	CARST030	100	65	A	AC	Thin ARHM Overlay W/Leveling & BR
2026	CARSON ST	MAIN ST	DOLORES ST	CARST30E	CARST041	100	69	A	AC	Thin ARHM Overlay W/Leveling & BR
2026	CARSON ST	GRACE AV	AVALON BL	CARST30E	CARST080	100	66	A	AC	Thin ARHM Overlay W/Leveling & BR
2026	CARSON ST	GRACE AVE	RAVENNA AVE	CARST40W	CARST050	100	66	A	AC	Thin ARHM Overlay W/Leveling & BR
2026	CENTRAL AVE	RADBARD ST	VICTORIA ST	CENAV20S	CENAV040	100	62	A	AC	Thin ARHM Overlay W/Leveling & BR
2026	CENTRAL AVE	DEL AMO BL	DIMONDALE DR	CENAV50N	CENAV010	100	62	A	AC	Thin ARHM Overlay W/Leveling & BR
2026	CENTRAL AVE	UNIVERSITY DR	ELSMERE DR	CENAV60S	CENAV010	100	65	A	AC	Thin ARHM Overlay W/Leveling & BR
2026	CLOVERBROOK ST	NEPTUNE AVE	RAVENNA AVE	CLOST20	CLOST010	100	60	R	AC	Thin ARHM Overlay W/Leveling & BR
2026	COLTMAN AVE	189TH ST	LIFFORD ST	COLAV10	COLAV010	100	67	R	AC	Thin ARHM Overlay W/Leveling & BR
2026	COLTMAN AVE	LIFFORD ST	ROBLIN ST	COLAV10	COLAV020	100	67	R	AC	Thin ARHM Overlay W/Leveling & BR
2026	COLTMAN AVE	ROBLIN ST	VICTORIA ST	COLAV10	COLAV031	100	61	R	AC	Thin ARHM Overlay W/Leveling & BR
2026	DEL AMO BL	AVALON BLVD	LEAPWOOD AVE	DELBL10E	DELBL070	100	67	A	AC/AC	Thin ARHM Overlay W/Leveling & BR
2026	DEL AMO BL	WILMINGTON AVE	REEVES AVE	DELBL50	DELBL040	100	61	A	AC	Thin ARHM Overlay W/Leveling & BR
2026	DOUBLE ST	GRACE AV	END (E)	DOUST10	DOUST020	100	62	R	AC	Thin ARHM Overlay W/Leveling & BR

Project Period	Road Name	Begin Location	End Location	StreetID	SectionID	PCI After Treated	PCI Prior Treat	FC	Surface Type	Treatment
2026	FERNROCK ST	PRICETOWN AVE	MIDTOWN AVE	FERST20	FERST010	100	67	R	AC	Thin ARHM Overlay W/Leveling & BR
2026	FERNROCK ST	MIDTOWN AVE	TAJAUTA AVE	FERST20	FERST020	100	63	R	AC	Thin ARHM Overlay W/Leveling & BR
2026	FIGUEROA ST	CARSON ST	220TH ST	FIGST20S	FIGST101	100	65	A	AC	Thin ARHM Overlay W/Leveling & BR
2026	FOLEY AVE	219TH ST	END (N)	FOLAV20	FOLAV010	100	62	R	AC	Thin ARHM Overlay W/Leveling & BR
2026	FREEDEN ST	CAIRO AVE	END (E)	FREST10	FREST010	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2026	FRIES AVE	ISLAND AVE	224TH ST	FRIAV60	FRIAV010	100	61	R	AC	Thin ARHM Overlay W/Leveling & BR
2026	GARDENA AVE	FIGUEROA BL	BROADWAY AVE	GARAV30E	GARAV010	100	65	MiA	AC/AC	Thin ARHM Overlay W/Leveling & BR
2026	GLADWICK ST	MIDTOWN AVE	TAJAUTA AVE	GLAST20	GLAST020	100	65	R	AC	Thin ARHM Overlay W/Leveling & BR
2026	GRACE AV	221ST ST	220TH ST	GRAAV10	GRAAV100	100	61	C	AC	Thin ARHM Overlay W/Leveling & BR
2026	GRAMBLING PL	HOWARD AVE	END (N)	GRAPL10	GRAPL010	100	63	R	AC	Thin ARHM Overlay W/Leveling & BR
2026	GULF AVE	JAY ST	220TH ST	GULAV20	GULAV011	100	62	R	AC	Thin ARHM Overlay W/Leveling & BR
2026	HANSOM AVE	END (S)	220TH ST	HANAV	HANAV010	100	61	R	AC	Thin ARHM Overlay W/Leveling & BR
2026	HILFORD AVE	CYRENE DR	ABBOTTSON ST	HILAV10	HILAV010	100	67	R	AC	Thin ARHM Overlay W/Leveling & BR
2026	INTERMODAL WY	SEPULVEDA BL	END (N)	INTWY10	INTWY010	100	61	R	AC	Thin ARHM Overlay W/Leveling & BR
2026	ISLAND AVE	LOMITA BL	248TH ST	ISLAV40	ISLAV01	100	61	R	AC	Thin ARHM Overlay W/Leveling & BR

Project Period	Road Name	Begin Location	End Location	StreetID	SectionID	PCI After Treated	PCI Prior Treat	FC	Surface Type	Treatment
2026	ISLAND AVE	END (S)	REALTY ST	ISLAV50	ISLAV010	100	61	R	AC	Thin ARHM Overlay W/Leveling & BR
2026	JACKSON ST	ALAMED ST	HARBOR VI AV	JACST10	JACST010	100	63	R	AC	Thin ARHM Overlay W/Leveling & BR
2026	JACKSON ST	PROSPECT AV	SANTA FE AV	JACST10	JACST030	100	61	R	AC	Thin ARHM Overlay W/Leveling & BR
2026	JAVELIN ST	BOLSA ST	END (E)	JAVST10	JAVST020	100	61	R	AC	Thin ARHM Overlay W/Leveling & BR
2026	LINCOLN ST	BANNING ST	BONITA ST	LINST30	LINST020	100	61	R	AC	Thin ARHM Overlay W/Leveling & BR
2026	MAIN ST	163RD ST	ALONDRA BL	MAIST70N	MAIST010	100	62	A	AC	Thin ARHM Overlay W/Leveling & BR
2026	MAIN ST	168TH ST	GARDENA AVE	MAIST70N	MAIST030	100	62	A	AC	Thin ARHM Overlay W/Leveling & BR
2026	MAIN ST	ALBERTONI BL	ON/OFF RAMP	MAIST70N	MAIST060	100	64	A	AC	Thin ARHM Overlay W/Leveling & BR
2026	MARINE AVE	END (S)	248TH ST	MARAV100	MARAV010	100	67	R	AC	Thin ARHM Overlay W/Leveling & BR
2026	MARIBEL AVE	END	REALTY ST	MARAV120	MARAV010	100	63	R	AC	Thin ARHM Overlay W/Leveling & BR
2026	MARTINSHIRE ST	END (W)	CAROLDALE AVE	MARST40	MARST010	100	61	R	AC	Thin ARHM Overlay W/Leveling & BR
2026	NEWKIRK AVE	22OTH ST	END (N)	NEWAV10	NEWAV020	100	65	R	AC	Thin ARHM Overlay W/Leveling & BR
2026	PALM CT	DOLORES ST	END (E)	PALCT10	PALCT010	100	62	R	AC	Thin ARHM Overlay W/Leveling & BR
2026	PRICETOWN AVE	DIMONDALE DR	FERNROCK ST	PRIAV10	PRIAV010	100	65	R	AC	Thin ARHM Overlay W/Leveling & BR
2026	RAVENNA AVE	SWOPE ST	220TH ST	RAVAV10	RAVAV010	100	63	R	AC	Thin ARHM Overlay W/Leveling & BR

Project Period	Road Name	Begin Location	End Location	StreetID	SectionID	PCI After Treated	PCI Prior Treat	FC	Surface Type	Treatment
2026	REALTY ST	SEAGROVE ST	WILMINGTON BL	REAST30	REAST031	100	62	R	AC	Thin ARHM Overlay W/Leveling & BR
2026	SANTA FE AVE	DEL AMO BLVD	208TH ST	SANAV20S	SANAV010	100	67	A	AC	Thin ARHM Overlay W/Leveling & BR
2026	SEPULVEDA BLVD	BANNING BL	BONITA ST	SEPBL10E	SEPBL110	100	60	A	AC	Thin ARHM Overlay W/Leveling & BR
2026	SUSAN DR	PERRY ST	S. PERALTA	SUSDR10	SUSDR011	100	65	R	AC	Thin ARHM Overlay W/Leveling & BR
2026	TOWNE AVE	192ND ST	189TH ST	TOWAV10	TOWAV010	100	63	R	AC	Thin ARHM Overlay W/Leveling & BR
2026	TURMONT ST	PRICETOWN AVE	CENTRAL AVE	TURST20	TURST140	100	63	R	AC	Thin ARHM Overlay W/Leveling & BR
2026	VERA ST	214TH ST	213TH ST	VERST10	VERST060	100	64	R	AC	Thin ARHM Overlay W/Leveling & BR
2026	VICTORIA ST	FIGUEROA BL	BROADWAY AVE	VICST10E	VICST010	100	69	A	AC/AC	Thin ARHM Overlay W/Leveling & BR
2026	WASHINGTON ST	PROSPECT AV	SANTA FE AV	WASST10	WASST030	100	61	R	AC	Thin ARHM Overlay W/Leveling & BR
2026	WEISER AVE	ACARUS ST	END(N)	WEIAV10	WEIAV030	100	60	R	AC	Thin ARHM Overlay W/Leveling & BR
2026	213TH ST	THOMAS DR	PERRY ST	213ST10	213ST051	100	68	C	AC	Thin ARHM Overlay
2026	219TH ST	EDGAR ST	END (E)	219ST70	219ST020	100	66	R	AC	Thin ARHM Overlay
2026	221TH ST	EMBASSY AVE	EVONDA AVE	221ST10	221ST030	100	60	R	AC	Thin ARHM Overlay
2026	221TH ST	EVONDA AVE	TANYA AVE	221ST10	221ST080	100	61	R	AC	Thin ARHM Overlay
2026	229TH ST	MEHDEN AVE	BOLSA AVE	229PL40	229PL040	100	67	R	AC	Thin ARHM Overlay
2026	ACARUS AVE	218TH ST	CLOVERBROOK ST	ACAAV10	ACAAV040	100	61	C	AC	Thin ARHM Overlay
2026	AVALON BL	186TH ST	LOYOLA AVE	AVABL120S	AVABL040	100	67	A	AC	Thin ARHM Overlay
2026	CLARION DR	OAKFORT	END	CLARI10	CLARI010	100	60	R	AC	Thin ARHM Overlay
2026	FRIES AVE	221ST ST	END	FRIAV50	FRIAV010	100	63	R	AC	Thin ARHM Overlay
2026	MEHDEN AVE	229TH PL	END (N)	MEHAV20	MEHAV010	100	65	R	AC	Thin ARHM Overlay

Project Period	Road Name	Begin Location	End Location	StreetID	SectionID	PCI After Treated	PCI Prior Treat	FC	Surface Type	Treatment
2026	PACIFIC ST	EAST ST	BANNING L	PACST20	PACST010	100	67	R	AC	Thin ARHM Overlay
2026	RENTON ST	BECK ST	LUCERNE ST	RENST30	RENST020	100	60	R	AC	Thin ARHM Overlay
2026	220TH ST	RASHDALL AV	MAIN ST	220ST30	220ST030	100	49	C	PCC	Slab ReplACement (25%)
2027	211TH ST	NEPTUNE AVE	END (E)	211ST30	211ST010	100	43	R	AC	Thick ARHM Overlay W/Leveling & BR
2027	213TH ST	MAIN ST	400'	213TH90	213TH090	100	42	R	AC	Thick ARHM Overlay W/Leveling & BR
2027	213TH ST	400'	end	213TH90	213TH100	100	43	R	AC	Thick ARHM Overlay W/Leveling & BR
2027	215TH PL	END (W)	PERRY ST	215PL20	215PL011	100	40	R	AC	Thick ARHM Overlay W/Leveling & BR
2027	216TH	Figueroa St	End	216ST10	216ST060	100	42	R	AC	Thick ARHM Overlay W/Leveling & BR
2027	218TH PL	END (E)	MAIN ST	218PL30W	218PL010	100	45	R	AC	Thick ARHM Overlay W/Leveling & BR
2027	218TH ST	END (W)	BATTAAN AV	218ST10	218ST010	100	43	R	AC	Thick ARHM Overlay W/Leveling & BR
2027	218TH ST	MAIN ST	END	218ST80	218ST010	100	41	R	AC	Thick ARHM Overlay W/Leveling & BR
2027	229TH ST	END (W)	CAROLDALE AVE	229ST40	229ST010	100	42	R	AC	Thick ARHM Overlay W/Leveling & BR
2027	230TH ST	END (W)	CAROLDALE AVE	230ST30	230ST010	100	42	R	AC	Thick ARHM Overlay W/Leveling & BR
2027	236TH CT	FRIGATE AVE	END(E)	236CT10	236CT020	100	43	R	AC	Thick ARHM Overlay W/Leveling & BR
2027	247TH ST	ISLAND AV	END (E)	247ST10	247ST010	100	46	R	AC	Thick ARHM Overlay W/Leveling & BR
2027	ABRI ST	LOSTINE AVE	END (E)	ABRST10	ABRST010	100	43	R	AC	Thick ARHM Overlay W/Leveling & BR

Project Period	Road Name	Begin Location	End Location	StreetID	SectionID	PCI After Treated	PCI Prior Treat	FC	Surface Type	Treatment
2027	ACKMAR AVE	220TH ST	END(E)	ACKAV10	ACKAV010	100	46	R	AC	Thick ARHM Overlay W/Leveling & BR
2027	ADAMS ST	ALAMED ST	HARBOR VI AV	ADAST10	ADAST010	100	42	R	AC	Thick ARHM Overlay W/Leveling & BR
2027	BADEAU AVE	220TH ST	END(E)	BADAV10	BADAV010	100	42	R	AC	Thick ARHM Overlay W/Leveling & BR
2027	BEDMAR ST	BELSHAW AVE	BELSHAW AVE	BEDST10	BEDST010	100	43	R	AC	Thick ARHM Overlay W/Leveling & BR
2027	BRANDI CT	E 220TH ST	BRANDI CT	BRNDI10	BRNDI020	100	45	R	AC	Thick ARHM Overlay W/Leveling & BR
2027	CALLAHAN PL	JAY ST	END (N)	CALPL10	CALPL010	100	47	R	AC	Thick ARHM Overlay W/Leveling & BR
2027	CAROLDALE AVE	214TH ST	END (N)	CARAV20	CARAV010	100	46	R	AC	Thick ARHM Overlay W/Leveling & BR
2027	CIVIC CENTER DR	CARSON ST	DESFORD ST	CIVDR10N	CIVDR010	100	45	R	AC	Thick ARHM Overlay W/Leveling & BR
2027	CLARION DR	FOXWELL AVE	END (E)	CLADR70	CLADR010	100	42	R	AC	Thick ARHM Overlay W/Leveling & BR
2027	CLIVEDEN AVE	MILLMONT ST	END (N)	CLIAV20	CLIAV020	100	46	R	AC	Thick ARHM Overlay W/Leveling & BR
2027	COLORADO CIR	E CARSON ST	END	COLOR10	COLOR100	100	41	R	AC	Thick ARHM Overlay W/Leveling & BR
2027	DIMONDALE DR	END (W)	EDDINGTON DR	DIMDR10	DIMDR010	100	40	R	AC	Thick ARHM Overlay W/Leveling & BR
2027	GALWAY AVE	GLADWICK ST	TURMONT ST	GALAV10	GALAV020	100	45	R	AC	Thick ARHM Overlay W/Leveling & BR
2027	GENEVIEVE ST	SHEARER AV	JAMISON AV	GENST10	GENST010	100	43	R	AC	Thick ARHM Overlay W/Leveling & BR
2027	222ND ST	E 222ND ST	END	JUDIT10	JUDIT010	100	46	R	AC	Thick ARHM Overlay W/Leveling & BR

Project Period	Road Name	Begin Location	End Location	StreetID	SectionID	PCI After Treated	PCI Prior Treat	FC	Surface Type	Treatment
2027	KEEGAN ST	SANDHILL ST	END (E)	KEEST10	KEEST030	100	45	R	AC	Thick ARHM Overlay W/Leveling & BR
2027	LEAPWOOD AVE	DEL AMO BL	DENWALL DR	LEAAV10	LEAAV026	100	45	R	AC	Thick ARHM Overlay W/Leveling & BR
2027	LINCOLN ST	East St	Banning Blvd	LINST30	LINST050	100	45	R	AC	Thick ARHM Overlay W/Leveling & BR
2027	MONROE ST	ALAMED ST	HARBOR VI AV	MONST10	MONST010	100	46	R	AC	Thick ARHM Overlay W/Leveling & BR
2027	OAKFORT AVE	213TH ST	END (N)	OAKAV20	OAKAV011	100	44	R	AC	Thick ARHM Overlay W/Leveling & BR
2027	RASHDALL AVE	END(S)	219TH ST	RASAV30	RASAV010	100	45	R	AC	Thick ARHM Overlay W/Leveling & BR
2027	SILVAN PL	TROYTON LN	END(E)	SILPL10	SILPL010	100	47	R	AC	Thick ARHM Overlay W/Leveling & BR
2027	SPICER ST	CLUFF ST	EDGAR ST	SPIST10	SPIST010	100	40	R	AC	Thick ARHM Overlay W/Leveling & BR
2027	TAJAUTA AVE	FERNROCK ST	HELMICK ST	TAJAV10	TAJAV040	100	40	R	AC	Thick ARHM Overlay W/Leveling & BR
2027	TORRANCE BLVD	CARSON TOWN	MAIN ST	TORBL10	TORBL020	100	40	R	AC	Thick ARHM Overlay W/Leveling & BR
2027	TORRANCE BLVD	MAIN ST	MARGARET AV	TORBL10	TORBL031	100	44	R	AC	Thick ARHM Overlay W/Leveling & BR
2027	TOWNE CT	END(S)	CASSIDY ST	TOWCT10	TOWCT010	100	45	R	AC	Thick ARHM Overlay W/Leveling & BR
2027	VAN BUREN	PROSPECT AV	SANTA FE AV	VANST10	VANST030	100	40	R	AC	Thick ARHM Overlay W/Leveling & BR
2027	VERA ST	220TH ST	218TH ST	VERST10	VERST011	100	40	R	AC	Thick ARHM Overlay W/Leveling & BR
2027	WELLFLEET AVE	END(S)	BITTERLAKE ST	WELAV10	WELAV010	100	41	R	AC	Thick ARHM Overlay W/Leveling & BR

Project Period	Road Name	Begin Location	End Location	StreetID	SectionID	PCI After Treated	PCI Prior Treat	FC	Surface Type	Treatment
2027	211TH ST	DOLORES ST	MARBELLA AV	211ST20	211ST011	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2027	213TH ST	WILLMINGTON AVE	END (E)	213ST10	213ST010	100	70	R	AC	Thin ARHM Overlay W/Leveling & BR
2027	213TH ST	CHICO ST	THOMAS DR	213ST10	213ST031	100	66	C	AC	Thin ARHM Overlay W/Leveling & BR
2027	213TH ST	LOSTINE AVE	MARTIN ST	213ST10	213ST101	100	68	C	AC	Thin ARHM Overlay W/Leveling & BR
2027	214TH ST	RONAN AV	DOLORES ST	214ST60	214ST010	100	68	R	AC	Thin ARHM Overlay W/Leveling & BR
2027	218TH PL	FIGUEROA ST	END	218PL40E	218PL100	100	66	R	AC	Thin ARHM Overlay W/Leveling & BR
2027	223RD ST	ANCHOR AV	AVALON BL	223ST10E	223ST081	100	68	A	AC	Thin ARHM Overlay W/Leveling & BR
2027	228TH ST	FRIGATE AVE	MAIN ST	228ST10	228ST115	100	68	C	AC	Thin ARHM Overlay W/Leveling & BR
2027	232ND PL	CAROLDALE AVE	ARCHIBALD AVE	232PL10	232PL010	100	67	R	AC	Thin ARHM Overlay W/Leveling & BR
2027	233RD ST	CAROLDALE AVE	ARCHIBALD AVE	233ST20	233ST010	100	66	R	AC	Thin ARHM Overlay W/Leveling & BR
2027	233RD ST	DOLORES ST	CATSKILL AVE	233ST40	233ST030	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2027	ABILA ST	END(W)	MARTIN ST	ABIST20	ABIST010	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2027	ACARUS AVE	WEISER AVE	218TH ST	ACAAV10	ACAAV030	100	64	C	AC	Thin ARHM Overlay W/Leveling & BR
2027	ADRIATIC AVE	VAN BUREN ST	END (N)	ADRAV10	ADRAV010	100	68	R	AC	Thin ARHM Overlay W/Leveling & BR
2027	ALBERTONI BL	FIGUEROA BL	BROADWAY AVE	ALBBL10	ALBBL010	100	69	MiA	AC/AC	Thin ARHM Overlay W/Leveling & BR

Project Period	Road Name	Begin Location	End Location	StreetID	SectionID	PCI After Treated	PCI Prior Treat	FC	Surface Type	Treatment
2027	ALONDA DR	GALWAY DR	TURMONT ST	ALODR10	ALODR010	100	64	R	AC	Thin ARHM Overlay W/Leveling & BR
2027	AMBLER AVE	E 182nd St	E 184th St	AMBAV50	AMBAV010	100	65	R	AC	Thin ARHM Overlay W/Leveling & BR
2027	AVALON BL	184TH ST	186TH ST	AVABL120S	AVABL030	100	69	A	AC	Thin ARHM Overlay W/Leveling & BR
2027	BITTERLAKE ST	SCUDDER CT	AMATHA AV	BITST10	BITST091	100	67	R	AC	Thin ARHM Overlay W/Leveling & BR
2027	CANEY AVE	BRENNER DR	UNIVERSITY DR	CANAV10	CANAV030	100	67	R	AC	Thin ARHM Overlay W/Leveling & BR
2027	CARSON ST	CANAL	RECREATION RD	CARST20W	CARST140	100	69	A	AC	Thin ARHM Overlay W/Leveling & BR
2027	CARSON ST	DOLORES ST	RAVENNA AV	CARST30E	CARST060	100	70	A	AC	Thin ARHM Overlay W/Leveling & BR
2027	CENTRAL AVE	TURMONT ST	ELSMERE DR	CENAV50N	CENAV040	100	70	A	AC	Thin ARHM Overlay W/Leveling & BR
2027	CLAUDE ST	MCKINLEY AV	CITY LIMITS	CLAST10	CLAST040	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2027	DIMONDALE DR	CENTRAL AVE	RADLETTE AVE	DIMDR20	DIMDR031	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2027	DOLORES ST	PALM CR	220TH ST	DOLST10	DOLST100	100	64	C	AC	Thin ARHM Overlay W/Leveling & BR
2027	DOLORES ST	227TH ST	223RD ST	DOLST20	DOLST070	100	66	C	AC	Thin ARHM Overlay W/Leveling & BR
2027	DOMINGUEZ ST	MARGARET ST	JAMISON AV	DOMST40	DOMST050	100	64	R	AC	Thin ARHM Overlay W/Leveling & BR
2027	ELSMERE DR	MIDTOWN AVE	HILLFORS AVE	ELSDR40	ELSDR031	100	67	R	AC	Thin ARHM Overlay W/Leveling & BR
2027	EVONDA AVE	221ST ST	220TH PL	EUOAV10	EUOAV010	100	66	R	AC	Thin ARHM Overlay W/Leveling & BR

Project Period	Road Name	Begin Location	End Location	StreetID	SectionID	PCI After Treated	PCI Prior Treat	FC	Surface Type	Treatment
2027	EXA CT	END(S)	FRANKE ST	EXACT10	EXACT010	100	67	R	AC	Thin ARHM Overlay W/Leveling & BR
2027	FERNROCK ST	BELSHAW AVE	TILLMAN AVE	FERST10	FERST011	100	64	R	AC	Thin ARHM Overlay W/Leveling & BR
2027	FIGUEROA ST	220TH ST	218TH ST	FIGST10N	FIGST021	100	68	A	AC	Thin ARHM Overlay W/Leveling & BR
2027	GRIFFITH ST	FIGUEROA BL	BROADWAY AVE	GRIST10	GRIST010	100	65	R	AC	Thin ARHM Overlay W/Leveling & BR
2027	HAIGLER DR	END(N)	BRENNER DR	HAIDR10	HAIDR010	100	66	R	AC	Thin ARHM Overlay W/Leveling & BR
2027	KEEGAN ST	WALNUT ST	JANIS ST	KEEST10	KEEST010	100	65	R	AC	Thin ARHM Overlay W/Leveling & BR
2027	KEEGAN ST	JANIS ST	SANDHILL ST	KEEST10	KEEST020	100	68	R	AC	Thin ARHM Overlay W/Leveling & BR
2027	LAGOON AVE	LOMITA BLVD	249TH ST	LAGAV10	LAGAV010	100	70	R	AC	Thin ARHM Overlay W/Leveling & BR
2027	LINCOLN ST	BONITA ST	WILMINGTON	LINST30	LINST030	100	68	R	AC	Thin ARHM Overlay W/Leveling & BR
2027	LOYALA AVE	MOREHOUSE DR	PEPERDIN DR	LOYAV10	LOYAV020	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2027	MCKINLEY AV	CLAUD ST	ALONDRA BL	MCKAV10	MCKAV011	100	68	R	AC	Thin ARHM Overlay W/Leveling & BR
2027	METTLER AVE	184TH ST	182ND ST	METAV30	METAV010	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2027	MILMONT ST	BANKERS AVE	HUGGINS DR	MILST10	MILST030	100	63	R	AC	Thin ARHM Overlay W/Leveling & BR
2027	MONETA AVE	231ST ST	END (E)	MONAV50	MONAV010	100	68	R	AC	Thin ARHM Overlay W/Leveling & BR
2027	NEPTUNE AV	219TH ST	CLOVEBRO ST	NEPAV20	NEPAV010	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR

Project Period	Road Name	Begin Location	End Location	StreetID	SectionID	PCI After Treated	PCI Prior Treat	FC	Surface Type	Treatment
2027	NICOLLE AV	219TH ST	END (N)	NICAV30	NICAV010	100	65	R	AC	Thin ARHM Overlay W/Leveling & BR
2027	NICOLLE AV	231ST ST	END(N)	NICAV40	NICOLLE	100	65	R	AC	Thin ARHM Overlay W/Leveling & BR
2027	PACIFIC ST	BANNING ST	BONITA ST	PACST20	PACST020	100	63	R	AC	Thin ARHM Overlay W/Leveling & BR
2027	PEPERDINE DR	UNIVERSITY DR	LOYOLA AVE	PEPDR10	PEPDR011	100	65	R	AC	Thin ARHM Overlay W/Leveling & BR
2027	PERALTA DR	216TH ST	215TH ST	PERDR10	PERDR010	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2027	RADLETT AVE	CYRENE DR	ABBOTTSON ST	RADAV30	RADAV011	100	67	R	AC	Thin ARHM Overlay W/Leveling & BR
2027	ROBLIN ST	CAIRO AVE	END (E)	ROBST20	ROBST010	100	67	R	AC	Thin ARHM Overlay W/Leveling & BR
2027	SEPULVEDA BLVD	BONITA ST	300' W/O WILMINGTON AVE	SEPBL10E	SEPBL120	100	68	A	AC	Thin ARHM Overlay W/Leveling & BR
2027	TAJAUTA AVE	GLADWICK ST	TURMONT ST	TAJAV20	TAJAV010	100	68	R	AC	Thin ARHM Overlay W/Leveling & BR
2027	VERA ST	215TH PL	214TH ST	VERST10	VERST050	100	64	R	AC	Thin ARHM Overlay W/Leveling & BR
2027	VICTORIA ST	AVALON BL	RAINSBURY AVE	VICST10E	VICST070	100	67	A	AC	Thin ARHM Overlay W/Leveling & BR
2027	WEISER AVE	216TH ST	215TH ST	WEIAV10	WEIAV010	100	66	R	AC	Thin ARHM Overlay W/Leveling & BR
2027	186TH ST	CAIRO AVE	BILLINGS AVE	186ST10	186ST010	100	69	R	AC	Thin ARHM Overlay
2027	213TH ST	PERRY ST	WEISER AVE	213ST10	213ST070	100	70	C	AC	Thin ARHM Overlay
2027	232ND PL	ARCHIBALD AVE	MONETA AVE	232PL10	232PL020	100	68	R	AC	Thin ARHM Overlay
2027	AVALON BL	186TH ST	184TH ST	AVABL110N	AVABL050	100	68	A	AC	Thin ARHM Overlay
2027	CAIRO AVE	189TH ST	END (N)	CAIAV10	CAIAV010	100	69	R	AC	Thin ARHM Overlay

Project Period	Road Name	Begin Location	End Location	StreetID	SectionID	PCI After Treated	PCI Prior Treat	FC	Surface Type	Treatment
2027	CAIRO AVE	END (S)	186TH ST	CAIAV20	CAIAV010	100	68	R	AC	Thin ARHM Overlay
2027	ISLAND AVE	221ST ST	END	ISLAV10	ISLAV010	100	69	R	AC	Thin ARHM Overlay
2027	ORRICK AV	END (S)	CARSON ST	ORRAV10	ORRAV030	100	68	R	AC	Thin ARHM Overlay
2027	PERRY ST	216TH ST	E CARSON ST	PERST20	PERST030	100	70	R	AC	Thin ARHM Overlay
2027	RAVENNA AVE	CLOVERBRO ST	CARSON ST	RAVAV70	RAVAV020	100	70	R	AC	Thin ARHM Overlay
2027	SHEARER AVE	DOMINGUEZ	END(N)	SHEAV30	SHEAV011	100	69	R	AC	Thin ARHM Overlay
2027	THOMAS DR	WINGATE DR	213TH ST	THODR10	THODR010	100	69	R	AC	Thin ARHM Overlay
2027	WATER ST	213TH ST	BALARD ST	WATST30	WATST010	100	69	R	AC	Thin ARHM Overlay
2027	231ST ST	KINARD AVE	MEHDEN AVE	231ST30	231ST051	93	87	R	AC	Surface Seal
2027	BROADWAY AVE	GARDENA AVE	ALONDRA BL	BROAV10N	BROAV061	88	81	A	AC	Surface Seal
2027	CARSON ST	BATAAN AVE	HARBOR VI AVE	CARST10E	CARST050	90	83	A	AC	Surface Seal
2027	CARSON ST	PROSPECT AVE	SANTA FE AVE	CARST10E	CARST080	88	80	A	AC	Surface Seal
2027	CARSON ST	ARNOLD CENTER RD	WILMINGTON AVE	CARST20W	CARST080	95	89	A	AC	Surface Seal
2027	FIGUEROA ST	215TH ST	213TH ST	FIGST10N	FIGST061	85	77	A	AC	Surface Seal
2027	MAIN ST	DOMINGUEZ ST	TORRANCE ST	MAIST10N	MAIST050	89	81	A	AC	Surface Seal
2027	MAIN ST	BROADWAY AVE	ON/OFF RAMP	MAIST120S	MAIST020	89	81	A	AC	Surface Seal
2027	MAIN ST	DEL AMMO AVE	TORRANCE ST	MAIST20S	MAIST030	95	89	A	AC	Surface Seal
2027	MAIN ST	ALONDRA BL	163RD ST	MAIST80S	MAIST010	91	84	A	AC	Surface Seal
2027	MAIN ST	192ND ST	GRIFFITH ST	MAIST90N	MAIST010	92	85	A	AC	Surface Seal
2027	MAIN ST	LIFFORD ST	VICTORIA ST	MAIST90N	MAIST030	88	80	A	AC	Surface Seal
2027	WILMINGTON AVE	DEL AMO BLVD	DOMINGUEZ ST	WILAV10S	WILAV010	89	82	A	AC	Surface Seal
2027	220TH ST	FIGUEROA BL	MONETA AV	220ST30	220ST010	100	50	C	PCC	Slab ReplACement (25%)

Project Period	Road Name	Begin Location	End Location	StreetID	SectionID	PCI After Treated	PCI Prior Treat	FC	Surface Type	Treatment
2027	220TH ST	MONETA AVE	RASHDALL AVE	220ST30	220ST020	100	50	C	PCC	Slab ReplACement (25%)
2028	212TH ST	BOLSA ST	END (E)	212ST20	212ST020	100	48	R	AC	Thick ARHM Overlay W/Leveling & BR
2028	218TH ST	MAIN ST	END	219ST80	219ST080	100	45	R	AC	Thick ARHM Overlay W/Leveling & BR
2028	222ND ST	GRACE AV	S.JUDITH PL	222ST50	222ST011	100	44	R	AC	Thick ARHM Overlay W/Leveling & BR
2028	223RD ST	MAIN ST	DOLORES ST	223ST10E	223ST040	100	42	A	AC	Thick ARHM Overlay W/Leveling & BR
2028	224TH PL	KINARD	MAIN ST	224PL20	224PL010	100	46	R	AC	Thick ARHM Overlay W/Leveling & BR
2028	226TH ST	MARINE AVE	AVALON BL	226ST20	226PL010	100	49	R	AC	Thick ARHM Overlay W/Leveling & BR
2028	227TH ST	END (W)	DOLORES ST	227ST10	227ST011	100	47	R	AC	Thick ARHM Overlay W/Leveling & BR
2028	248TH ST	MARINE AV	CITY LIMITS	248ST10	248ST010	100	44	R	AC	Thick ARHM Overlay W/Leveling & BR
2028	ABRI ST	PONTINE AVE	END (E)	ABRST20	ABRST010	100	47	R	AC	Thick ARHM Overlay W/Leveling & BR
2028	ALAMEDA ST	SAN DIEGO FWY	E 223RD ST	ALAST20N	ALAST150	100	48	A	AC	Thick ARHM Overlay W/Leveling & BR
2028	ALAMEDA ST	223RD ST	SEPULVEDA BL	ALAST50S	ALAST010	100	40	A	AC	Thick ARHM Overlay W/Leveling & BR
2028	ATMORE AVE	229TH ST	228TH ST	ATMAV30	ATMAV010	100	46	R	AC	Thick ARHM Overlay W/Leveling & BR
2028	AVALON BL	TURMONT ST	DEL AMO BL	AVABL140S	AVABL040	100	41	A	AC	Thick ARHM Overlay W/Leveling & BR
2028	BACH ST	PONTINE AVE	END (E)	BACST30	BACST010	100	49	R	AC	Thick ARHM Overlay W/Leveling & BR

Project Period	Road Name	Begin Location	End Location	StreetID	SectionID	PCI After Treated	PCI Prior Treat	FC	Surface Type	Treatment
2028	BAYPORT ST	231ST ST	AVALON BL	BAYST10	BAYST020	100	46	R	AC	Thick ARHM Overlay W/Leveling & BR
2028	BRADRICK DR	JAMISON AV	BOLSA ST	BRADR20	BRADR020	100	50	R	AC	Thick ARHM Overlay W/Leveling & BR
2028	BRADENHALL DR	BILLINGS DR	CENTERVI DR	BRADR30	BRADR010	100	47	R	AC	Thick ARHM Overlay W/Leveling & BR
2028	BROADWAY AVE	GRIFFITH ST	VICTORIA ST	BROAV30N	BROAV021	100	42	A	AC	Thick ARHM Overlay W/Leveling & BR
2028	BROAD ST	SEPULVEDA BL	PACIFIC ST	BROST10	BROST011	100	48	R	AC	Thick ARHM Overlay W/Leveling & BR
2028	BROAD ST	PACIFIC ST	CITY LIMITS	BROST10	BROST031	100	49	R	AC	Thick ARHM Overlay W/Leveling & BR
2028	CAIRO AVE	WALT ST	METTLER AVE	CAIAV30	CAIAV013	100	44	R	AC	Thick ARHM Overlay W/Leveling & BR
2028	CLARION DR	MONETA AV	NICOLLE AV	CLADR60	CLADR020	100	45	R	AC	Thick ARHM Overlay W/Leveling & BR
2028	DEL AMO BL	CARSON PL DR	AVALON BLVD	DELBL10E	DELBL060	100	40	A	AC	Thick ARHM Overlay W/Leveling & BR
2028	EVONDA AVE	CARSON ST	218TH ST	EUOAV10	EUOAV030	100	50	R	AC	Thick ARHM Overlay W/Leveling & BR
2028	FRANCISCO ST	FIGUEROA BL	MAIN ST	FRAST20	FRAST010	100	48	R	AC	Thick ARHM Overlay W/Leveling & BR
2028	GULF AVE	228TH ST	END (N)	GULAV10	GULAV010	100	46	R	AC	Thick ARHM Overlay W/Leveling & BR
2028	HOWARD AVE	MOREHOUSE DR	PEPPERDIN DR	HOWAV10	HOWAV011	100	49	R	AC	Thick ARHM Overlay W/Leveling & BR
2028	IDABEL ST	FAIRHAVEN ST	AVALON BL	IDAST10	IDAST030	100	49	R	AC	Thick ARHM Overlay W/Leveling & BR
2028	ISLAND AVE	245TH ST	END (N)	ISLAV40	ISLAV070	100	44	R	AC	Thick ARHM Overlay W/Leveling & BR

Project Period	Road Name	Begin Location	End Location	StreetID	SectionID	PCI After Treated	PCI Prior Treat	FC	Surface Type	Treatment
2028	JACKSON ST	HARBOR VI AV	PROSPECT AV	JACST10	JACST020	100	50	R	AC	Thick ARHM Overlay W/Leveling & BR
2028	KINARD AVE	231ST ST	END (N)	KINAV20	KINAV010	100	49	R	AC	Thick ARHM Overlay W/Leveling & BR
2028	LOMITA BLVD	NEPTUNE AV	LAGOON AV	LOMBL10	LOMBL030	100	41	A	AC	Thick ARHM Overlay W/Leveling & BR
2028	MADISON ST	ALAMED ST	HARBOR VI AV	MADST10	MADST010	100	44	R	AC	Thick ARHM Overlay W/Leveling & BR
2028	MARBELLA AV	END (S)	211TH ST	MARAV20	MARAV010	100	46	R	AC	Thick ARHM Overlay W/Leveling & BR
2028	MARBELLA AV	SWOPE ST	222ND ST	MARAV40	MARAV010	100	48	R	AC	Thick ARHM Overlay W/Leveling & BR
2028	MILMONT ST	NESTOR AVE	HAELAN AVE	MILST20	MILST011	100	47	R	AC	Thick ARHM Overlay W/Leveling & BR
2028	MONTANERO AV	SANDHILL ST	END (E)	MONAV80E	MONAV010	100	49	R	AC	Thick ARHM Overlay W/Leveling & BR
2028	NEPTUNE AV	JAVELIN ST	212TH ST	NEPAV60	NEPAV011	100	48	R	AC	Thick ARHM Overlay W/Leveling & BR
2028	PACIFIC ST	BONITA ST	WILMINGTON	PACST20	PACST030	100	47	R	AC	Thick ARHM Overlay W/Leveling & BR
2028	PRICETOWN AVE	FERNROCK ST	HELMICK ST	PRIAV10	PRIAV020	100	49	R	AC	Thick ARHM Overlay W/Leveling & BR
2028	SCOBEY AVE	DENWALL AVE	FERNROCK ST	SCOAV10	SCOAV010	100	45	R	AC	Thick ARHM Overlay W/Leveling & BR
2028	TANYA AVE	221ST PL	221 ST ST	TANAV10	TANVA010	100	50	R	AC	Thick ARHM Overlay W/Leveling & BR
2028	TYLER ST	BALTIC AV	END (E)	TYLST20	TYLST010	100	45	R	AC	Thick ARHM Overlay W/Leveling & BR
2028	UNIVERSITY DR	GRANDEE AVE	NESTOR AVE	UNIDR20W	UNIDR020	100	42	MiA	AC	Thick ARHM Overlay W/Leveling & BR

Project Period	Road Name	Begin Location	End Location	StreetID	SectionID	PCI After Treated	PCI Prior Treat	FC	Surface Type	Treatment
2028	WALL ST	END(S)	CASSIDY ST	WALST60	WALST010	100	45	R	AC	Thick ARHM Overlay W/Leveling & BR
2028	181ST ST	WALL ST	METTLER AVE	181ST10	181ST010	100	70	R	AC	Thin ARHM Overlay W/Leveling & BR
2028	213TH ST	SELWYN AVE	CHICO ST	213ST10	213ST020	100	69	C	AC	Thin ARHM Overlay W/Leveling & BR
2028	221TH ST	FRIES AVE	AVALON BL	221ST30	221ST031	100	68	R	AC	Thin ARHM Overlay W/Leveling & BR
2028	246TH PL	ISLAND AV	END (E)	246PL10	246PL010	100	70	R	AC	Thin ARHM Overlay W/Leveling & BR
2028	ALVO AVE	EDOM ST	FERNROCK ST	ALVAV20	ALVAV020	100	68	R	AC	Thin ARHM Overlay W/Leveling & BR
2028	ARCHIBALD AV	END (S)	218TH ST	ARCAV20	ARCAV010	100	70	R	AC	Thin ARHM Overlay W/Leveling & BR
2028	AVALON BL	VICTORIA ST	COLONY COVE AV	AVABL90N	AVABL010	100	68	A	AC	Thin ARHM Overlay W/Leveling & BR
2028	AVALON BL	WALNUT ST	169TH ST	AVABL90N	AVABL050	100	70	A	AC	Thin ARHM Overlay W/Leveling & BR
2028	BITTERLAKE ST	BAUCHARD CT	WELLFLEET AV	BITST10	BITST051	100	68	R	AC	Thin ARHM Overlay W/Leveling & BR
2028	BONHAM AVE	189TH ST	186TH ST	BONAV30	BONAV010	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2028	BONDS ST	AVALON BL	DOMINIGUEZ ST	BONST50	BONST020	100	70	R	AC	Thin ARHM Overlay W/Leveling & BR
2028	CATSKILL AV	CLARION DR	211TH ST	CATAV20	CATAV010	100	70	R	AC	Thin ARHM Overlay W/Leveling & BR
2028	DEL AMO BL	LEAPWOOD AVE	CAMPAIGN RD	DELBL10E	DELBL080	100	69	A	AC/AC	Thin ARHM Overlay W/Leveling & BR
2028	DIMONDALE DR	EARLIE AVE	CAMBA AVE	DIMDR30	DIMDR021	100	70	R	AC	Thin ARHM Overlay W/Leveling & BR

Project Period	Road Name	Begin Location	End Location	StreetID	SectionID	PCI After Treated	PCI Prior Treat	FC	Surface Type	Treatment
2028	FIGUEROA ST	MARTINSHI ST	228TH ST	FIGST30N	FIGST060	100	69	A	AC	Thin ARHM Overlay W/Leveling & BR
2028	GRACE AV	224TH ST	223RD ST	GRAAV20	GRAAV030	100	70	R	AC	Thin ARHM Overlay W/Leveling & BR
2028	LYSANDER DR	SAGEBANK ST	END(N)	LYSDR10	LYSDR010	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2028	MAIN ST	163RD ST	GARDENA AVE	MAIST80S	MAIST020	100	68	A	AC	Thin ARHM Overlay W/Leveling & BR
2028	MARTIN ST	CALIFON ST	213TH ST	MARST10	MARST061	100	69	C	AC	Thin ARHM Overlay W/Leveling & BR
2028	MILMORE AVE	END(S)	189TH ST	MILAV40	MILAV010	100	68	R	AC	Thin ARHM Overlay W/Leveling & BR
2028	NAFFA AVE	CARRIAGEDALE DR	END (N)	NAFAV10	NAFFA AVE	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2028	PROSPECT AVE	CARSON ST	ADAMS ST	PROAV10	PROAV011	100	70	R	AC	Thin ARHM Overlay W/Leveling & BR
2028	VICTORIA ST	BROADWAY AVE	MAIN ST	VICST10E	VICST020	100	69	A	AC/AC	Thin ARHM Overlay W/Leveling & BR
2028	WALNUT ST	METTLER AV	AVALON BL	WALST30E	WALST030	100	70	R	AC	Thin ARHM Overlay W/Leveling & BR
2028	WESTWARD AVE	E220th St	End	WESTW10	WESTW010	100	70	R	AC	Thin ARHM Overlay W/Leveling & BR
2028	185TH ST	BILLINGS AVE	TOWNE AVE	185ST10	185ST020	100	69	R	AC	Thin ARHM Overlay
2028	219TH ST	FOLEY AV	EDGAR ST	219ST70	219ST010	100	68	R	AC	Thin ARHM Overlay
2028	221TH ST	MC HELEN AVE	EMBASSY AVE	221ST10	221ST060	100	70	R	AC	Thin ARHM Overlay
2028	BALARD ST	PONTINE AVE	WATER	BALST11	BALST010	100	69	R	AC	Thin ARHM Overlay
2028	DEL AMO BL	WILMINGTON AVE	REEVES AVE	DELBL50	DELBL050	100	70	A	AC	Thin ARHM Overlay
2028	FIGUEROA ST	LOMITA BLVD	CITY END	FIGST90	FIGST090	100	70	A	AC	Thin ARHM Overlay
2028	RECREATION RD	CARSON ST	END	RECREATION	RECREA010	100	69	R	AC	Thin ARHM Overlay

Project Period	Road Name	Begin Location	End Location	StreetID	SectionID	PCI After Treated	PCI Prior Treat	FC	Surface Type	Treatment
2028	ROSITA DR	SUSAN DR	END	ROSIT10	ROSIT010	100	69	R	AC	Thin ARHM Overlay
2028	AVALON BL	182ND ST	VICTORIA ST	AVABL110N	AVABL070	95	89	A	AC	Surface Seal
2028	AVALON BL	CARSON MALL	DOMINGUEZ ST	AVABL20	AVABL040	94	88	A	AC	Surface Seal
2028	BROADWAY AVE	ALONDRA BL	GARDENA AVE	BROAV20S	BROAV010	84	76	A	AC	Surface Seal
2028	CARSON ST	HARBOR VI AVE	ALMEDA ST	CARST20W	CARST041	93	87	A	AC	Surface Seal
2028	CYRENE ST	EARLIE AVE	CAMBA AVE	CYRST20	CYRST061	90	83	R	AC	Surface Seal
2028	FIGUEROA ST	228TH ST	SHADWELL AVE	FIGST30N	FIGST070	95	89	A	AC	Surface Seal
2028	FIGUEROA ST	SHADWELL AVE	223RD ST	FIGST30N	FIGST081	91	84	A	AC	Surface Seal
2028	MAIN ST	213TH ST	DOMINGUEZ ST	MAIST10N	MAIST061	94	88	A	AC	Surface Seal
2028	MAIN ST	ON/OFF RAMP	BROADWAY AVE	MAIST110N	MAIST010	90	82	A	AC	Surface Seal
2028	MAIN ST	215TH ST	CARSON ST	MAIST20S	MAIST070	94	88	A	AC	Surface Seal
2028	SHERYL CR	END (S)	FIGUEROA BL	SHECR10	SHECR010	93	87	R	AC	Surface Seal
2028	VICTORIA ST	MAIN ST	BROADWAY AVE	VICST20W	VICST080	90	83	A	AC	Surface Seal
2028	VICTORIA ST	BROADWAY AVE	FIGUEROA BL	VICST20W	VICST090	93	87	A	AC	Surface Seal
2028	WALNUT ST	END (W)	BILLINGS DR	WALST30E	WALST010	86	79	R	AC	Surface Seal
2028	WILMINGTON AVE	DOMINGUEZ ST	213TH ST	WILAV10S	WILAV020	89	81	A	AC	Surface Seal
2028	WILMINGTON AVE	213TH ST	CARSON ST	WILAV10S	WILAV030	93	87	A	AC	Surface Seal
2028	SEPULVEDA BLVD	230' E/O ALAMEDA ST	ALAMEDA ST	SEPBL20W	SEPBL031	100	70	A	PCC	Slab ReplACement (25%)
2029	223RD ST	CATSKILL AV	ANCHOR AV	223ST10E	223ST061	100	41	A	AC	Thick ARHM Overlay W/Leveling & BR

Project Period	Road Name	Begin Location	End Location	StreetID	SectionID	PCI After Treated	PCI Prior Treat	FC	Surface Type	Treatment
2029	236TH ST	BANNING BL	WILMINGTON AVE	236ST10	236ST010	100	49	R	AC	Thick ARHM Overlay W/Leveling & BR
2029	248TH ST	ISLAND AV	END (E)	248ST20	248ST010	100	49	R	AC	Thick ARHM Overlay W/Leveling & BR
2029	AVALON BL	169TH ST	WALNUT ST	AVABL100S	AVABL040	100	40	A	AC	Thick ARHM Overlay W/Leveling & BR
2029	AVALON BL	189TH ST	LOYOLA AVE	AVABL110N	AVABL030	100	40	A	AC	Thick ARHM Overlay W/Leveling & BR
2029	BACH ST	220TH ST	END (E)	BACST10	BACST010	100	49	R	AC	Thick ARHM Overlay W/Leveling & BR
2029	BONHAM AVE	END(S)	CASSIDY ST	BONAV10	BONAV010	100	50	R	AC	Thick ARHM Overlay W/Leveling & BR
2029	BROADACRES AVE	EDOM DR	END	BROAD60	BROAD060	100	50	R	AC	Thick ARHM Overlay W/Leveling & BR
2029	BROADWAY AVE	168TH ST	SHERMAN AVE	BROAV20S	BROAV030	100	41	A	AC	Thick ARHM Overlay W/Leveling & BR
2029	BROADWAY AVE	WALNUT ST	ALBERTONI BL	BROAV20S	BROAV050	100	40	A	AC	Thick ARHM Overlay W/Leveling & BR
2029	CARSON ST	RECREATION RD	ON/OFF RAMP	CARST20W	CARST150	100	43	A	AC	Thick ARHM Overlay W/Leveling & BR
2029	CATSKILL AV	214TH ST	213TH ST	CATAV30	CATAV011	100	50	R	AC	Thick ARHM Overlay W/Leveling & BR
2029	CENTRAL AVE	HELMICK ST	DIMONDALE DR	CENAV60S	CENAV040	100	40	A	AC	Thick ARHM Overlay W/Leveling & BR
2029	CLARION DR	BOLSA ST	END(E)	CLADR80	CLADR010	100	49	R	AC	Thick ARHM Overlay W/Leveling & BR
2029	CYRENE ST	RADLETT AVE	TAJAUTA AVE	CYRST20	CYRST011	100	50	R	AC	Thick ARHM Overlay W/Leveling & BR
2029	FIGUEROA ST	CARSON ST	215TH ST	FIGST10N	FIGST050	100	41	A	AC	Thick ARHM Overlay W/Leveling & BR

Project Period	Road Name	Begin Location	End Location	StreetID	SectionID	PCI After Treated	PCI Prior Treat	FC	Surface Type	Treatment
2029	GRACE AV	END(N)	JAVELIN ST	GRAAV10	GRAAV010	100	48	R	AC	Thick ARHM Overlay W/Leveling & BR
2029	MAPLE AV	END	ALONDRA BL	MAPAV10	MAPAV010	100	48	R	AC	Thick ARHM Overlay W/Leveling & BR
2029	MILMONT ST	CLIVENENT AVE	GRANDEE AVE	MILST20	MILST051	100	49	R	AC	Thick ARHM Overlay W/Leveling & BR
2029	MOREHOUSE DR	HOWARD AVE	LOYOLA AVE	MORDR10	MORDR010	100	48	R	AC	Thick ARHM Overlay W/Leveling & BR
2029	SAN PEDRO ST	AVALON BLVD	END(E)	SANST20	SANST010	100	41	MiA	AC	Thick ARHM Overlay W/Leveling & BR
2029	SEPULVEDA BLVD	BROAD AV	BANNING BL	SEPBL10E	SEPBL100	100	41	A	AC	Thick ARHM Overlay W/Leveling & BR
2029	SEPULVEDA BLVD	RAILROAD OVERCROSSING	TESORO WY	SEPBL20W	SEPBL050	100	41	A	AC	Thick ARHM Overlay W/Leveling & BR
2029	TROYTON LN	END(S)	213TH ST	TROLN10	TROLN011	100	49	R	AC	Thick ARHM Overlay W/Leveling & BR
2029	WADLEY AVE	TURMONT ST	LEAPWOOD AVE	WADAV20	WADAV010	100	50	R	AC	Thick ARHM Overlay W/Leveling & BR
2029	WATER ST	215TH ST	214TH ST	WATST20	WATST020	100	50	R	AC	Thick ARHM Overlay W/Leveling & BR
2029	ALBERTONI BL	MAIN ST	ON/OFF RAMP	ALBBL10	ALBBL030	100	69	MiA	AC/AC	Thin ARHM Overlay W/Leveling & BR
2029	ANCHOR AVE	222ND ST	221ST ST	ANCAV20	ANCAV010	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2029	AVALON BL	182ND ST	184TH ST	AVABL120S	AVABL020	100	70	A	AC	Thin ARHM Overlay W/Leveling & BR
2029	AVALON BL	ELSMERE DR	TURMONT ST	AVABL140S	AVABL030	100	68	A	AC	Thin ARHM Overlay W/Leveling & BR
2029	BISHOP AVE	VICTORIA ST	CHARLES WILLARD ST	BISAV10	BISAV010	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR

Project Period	Road Name	Begin Location	End Location	StreetID	SectionID	PCI After Treated	PCI Prior Treat	FC	Surface Type	Treatment
2029	CARSON ST	BONITA AV	ON/OFF RAMP (405)	CARST30E	CARST110	100	68	A	AC	Thin ARHM Overlay W/Leveling & BR
2029	CHARLES WILLARD ST	HARMON AVE	WILMINTON AVE	CHAST20	CHAST020	100	70	R	AC	Thin ARHM Overlay W/Leveling & BR
2029	CLUFF ST	SPICER ST	JAY ST	CLUST10	CLUST031	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2029	DEL AMO BL	CENTRAL AVE	TILLMAN AVE	DELBL20W	DELBL110	100	69	A	AC	Thin ARHM Overlay W/Leveling & BR
2029	GLENN CURTISS ST	BISHOP AV	HARMON AV	GLEST10	GLEST030	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2029	GRACE AV	213TH ST	DESFORD ST	GRAAV10	GRAAV041	100	68	C	AC	Thin ARHM Overlay W/Leveling & BR
2029	GRANDEE AVE	KRAMER DR	MILLMONT ST	GRAAV30	GRAAV010	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2029	HASKINS LN	ACOMA DR	ALONDRA BL	HASLN10	HASLN030	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2029	JAVELIN ST	DOLORES ST	MARBELLA AV	JAVST10	JAVST031	100	70	R	AC	Thin ARHM Overlay W/Leveling & BR
2029	JAY ST	KINARD AV	END (E)	JAYST10	JAYST010	100	68	R	AC	Thin ARHM Overlay W/Leveling & BR
2029	KEMP AVE	TURMONT ST	END(E)	KEMAV20	KEMAV010	100	70	R	AC	Thin ARHM Overlay W/Leveling & BR
2029	LEAPWOOD AVE	DOMINGUEZ ST	DOVLEN PL	LEAAV10	LEAAV010	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2029	MAIN ST	ON/OFF RAMP	FRANCISCO AVE	MAIST20S	MAIST010	100	69	A	AC	Thin ARHM Overlay W/Leveling & BR
2029	MALOY AV	NORDBY AV	163RD ST	MALAV20S	MALAV010	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2029	MIDTOWN AVE	DIMONDALE DR	FERNROCK ST	MIDAV10	MIDAV010	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR

Project Period	Road Name	Begin Location	End Location	StreetID	SectionID	PCI After Treated	PCI Prior Treat	FC	Surface Type	Treatment
2029	MIDTOWN AVE	HELMICK ST	GLADWICK ST	MIDAV20	MIDAV010	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2029	MILPOINT AVE	E220th St	End	MILAV10	MILAV020	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2029	MILMONT ST	GRANDEE AVE	KEMP AVE	MILST20	MILST072	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2029	PENROD DR	RAINSBURY AVE	END(E)	PENDR10	PENDR010	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2029	RADBARD ST	AMANTHA AVE	CENTRAL AVE	RADST20	RADST010	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2029	213TH ST	WEISER AVE	VERA AVE	213ST10	213ST080	100	68	C	AC	Thin ARHM Overlay
2029	ISABELLE ST	END(S)	222ND ST	ISAST10	ISAST010	100	69	R	AC	Thin ARHM Overlay
2029	MOOREHAVEN DR	ROA DR	END (E)	MOODR10	MOODR020	100	69	R	AC	Thin ARHM Overlay
2029	PERALTA DR	END(S)	SUSAN	PERDR20	PERDR010	100	68	R	AC	Thin ARHM Overlay
2029	PONTINE AVE	213TH ST	END (N)	PONAV20	PONAV011	100	69	R	AC	Thin ARHM Overlay
2029	RAVENNA AVE	219TH ST	CLOVERBRO ST	RAVAV70	RAVAV010	100	70	R	AC	Thin ARHM Overlay
2029	WEISER AVE	215TH ST	213TH ST	WEIAV10	WEIAV020	100	70	R	AC	Thin ARHM Overlay
2029	222ND ST	DOLORES ST	MARBELLA AV	222ST70	222ST011	93	86	R	AC	Surface Seal
2029	AVALON BL	CARSON PL DR	CARSON MALL	AVABL20	AVABL030	89	82	A	AC	Surface Seal
2029	BEACHEY PL	CENTRAL AVE	GLENN CURTISS ST	BEAPL10	BEAPL010	87	80	R	AC	Surface Seal
2029	CARSON ST	ARNOLD CENTER RD	E CARSON ST	CARST10E	CARST020	94	88	A	AC	Surface Seal
2029	CARSON ST	SANTA FE AVE	HARBOR VI AVE	CARST20W	CARST011	90	83	A	AC	Surface Seal
2029	CARSON ST	WILMINGTON AVE	MARTIN ST	CARST20W	CARST090	87	80	A	AC	Surface Seal
2029	LINCOLN ST	FRIES AV	AVALON BL	LINST20	LINST020	88	81	R	AC	Surface Seal
2029	MAIN ST	GRIFFITH ST	192ND ST	MAIST100S	MAIST030	94	89	A	AC	Surface Seal
2029	MAIN ST	CARSON ST	215TH ST	MAIST10N	MAIST111	95	89	A	AC	Surface Seal

Project Period	Road Name	Begin Location	End Location	StreetID	SectionID	PCI After Treated	PCI Prior Treat	FC	Surface Type	Treatment
2029	MAIN ST	FRANCISCO AVE	DEL AMO AVE	MAIST20S	MAIST020	95	89	A	AC	Surface Seal
2029	MAIN ST	DOMINGUEZ ST	213TH ST	MAIST20S	MAIST050	95	89	A	AC	Surface Seal
2029	OAKFORT AVE	218TH ST	END(N)	OAKAV10	OAKAV010	92	85	R	AC	Surface Seal
2029	SANTA FE AVE	CARSON ST	218TH PL	SANAV20S	SANAV140	95	89	A	AC	Surface Seal
2029	SEPULVEDA BLVD	MARBELLA AVE	DOLORES ST	SEPBL20W	SEPBL150	94	88	A	AC	Surface Seal
2029	TURMONT ST	FAIRMAN DR	SCOBEY AVE	TURST10	TURST111	95	89	C	AC/AC	Surface Seal
2029	TURMONT ST	SCOBEY AVE	ANNALEE AVE	TURST10	TURST131	94	88	C	AC/AC	Surface Seal
2029	219TH ST	WATER ST	END (E)	219ST30	219ST010	100	22	R	AC	Reconstruct Structure (AC)
2030	184TH ST	CAIRO AVE	BILLINGS AVE	184ST10	184ST010	100	48	R	AC	Thick ARHM Overlay W/Leveling & BR
2030	218TH PL	ALAMEDA AVE	SALMON AVE	218PL10	218PL010	100	49	R	AC	Thick ARHM Overlay W/Leveling & BR
2030	221TH ST	EVONDA AVE	TANYA AVE	221ST10	221ST070	100	49	R	AC	Thick ARHM Overlay W/Leveling & BR
2030	222ND ST	EDGAR ST	BECK ST	222ST10	222ST010	100	49	R	AC	Thick ARHM Overlay W/Leveling & BR
2030	223RD ST	ANCHOR AV	GRACE AV	223ST20W	223ST080	100	42	A	AC	Thick ARHM Overlay W/Leveling & BR
2030	223RD ST	CATSKILL AV	MAIN ST	223ST20W	223ST101	100	43	A	AC	Thick ARHM Overlay W/Leveling & BR
2030	223RD ST	MONETA AV	FIGUEROA BL	223ST20W	223ST130	100	41	A	AC	Thick ARHM Overlay W/Leveling & BR
2030	ACARUS AVE	VERA AVE	DABLON AVE	ACAAV10	ACAAV010	100	42	C	AC	Thick ARHM Overlay W/Leveling & BR
2030	ALAMEDA ST	EL PRESIDIO ST	DEL AMO BLVD	ALAST20N	ALAST140	100	42	A	AC	Thick ARHM Overlay W/Leveling & BR
2030	ALVAR PL	215TH PL	WINGATE DR	ALVPL10	ALVPL010	100	49	R	AC	Thick ARHM Overlay W/Leveling & BR

Project Period	Road Name	Begin Location	End Location	StreetID	SectionID	PCI After Treated	PCI Prior Treat	FC	Surface Type	Treatment
2030	AVALON BL	189TH ST	UNIVERSITY DR	AVABL120S	AVABL060	100	41	A	AC	Thick ARHM Overlay W/Leveling & BR
2030	AVALON BL	UNIVERSITY	192ND ST	AVABL140S	AVABL010	100	40	A	AC	Thick ARHM Overlay W/Leveling & BR
2030	AVALON BL	DEL AMO BLVD	CARSON PL CT	AVABL20	AVABL010	100	43	A	AC	Thick ARHM Overlay W/Leveling & BR
2030	AVALON BL	ON/OFF RAMP	WALNUT ST	AVABL90N	AVABL040	100	42	A	AC	Thick ARHM Overlay W/Leveling & BR
2030	CALBAS ST	END (W)	BONITA ST	CALST20	CALST010	100	49	R	AC	Thick ARHM Overlay W/Leveling & BR
2030	CANEY AVE	TURMONT ST	ELSMERE DR	CANAV10	CANAV010	100	50	R	AC	Thick ARHM Overlay W/Leveling & BR
2030	CENTRAL AVE	VICTORIA ST	RADBARD ST	CENAV10N	CENAV010	100	43	A	AC	Thick ARHM Overlay W/Leveling & BR
2030	CENTRAL AVE	ELSMERE DR	UNIVERSITY DR	CENAV50N	CENAV050	100	43	A	AC	Thick ARHM Overlay W/Leveling & BR
2030	DEL AMO BL	WILMINGTON AVE	REEVES AVE	DELBL50	DELBL030	100	44	A	AC	Thick ARHM Overlay W/Leveling & BR
2030	DIMONDALE DR	ANNALEE AVE	AMANTHA AVE	DIMDR20	DIMDR010	100	48	R	AC	Thick ARHM Overlay W/Leveling & BR
2030	EAST ST	DOLORES ST	PACIFIC ST	EASST10	EASST011	100	49	R	AC	Thick ARHM Overlay W/Leveling & BR
2030	FOXWELL AV	END (S)	211TH ST	FOXAV10	FOXAV010	100	49	R	AC	Thick ARHM Overlay W/Leveling & BR
2030	GOMERO CIRCLE	DENWALL AVE	END (W)	GOMCR10	GOMCR010	100	48	R	AC	Thick ARHM Overlay W/Leveling & BR
2030	LOMITA BLVD	FRIES AV	CITY LIMIT	LOMBL10	LOMBL060	100	41	A	AC	Thick ARHM Overlay W/Leveling & BR
2030	MAIN ST	225TH ST	223RD ST	MAIST30N	MAIST100	100	41	A	AC	Thick ARHM Overlay W/Leveling & BR

Project Period	Road Name	Begin Location	End Location	StreetID	SectionID	PCI After Treated	PCI Prior Treat	FC	Surface Type	Treatment
2030	MAIN ST	GARDENA AVE	163RD ST	MAIST70N	MAIST020	100	43	A	AC	Thick ARHM Overlay W/Leveling & BR
2030	RADBARD ST	SANDLAKE AVE	END(E)	RADST10	RADST010	100	50	R	AC	Thick ARHM Overlay W/Leveling & BR
2030	TURMONT ST	NESTOR AVE	RADLETT AVE	TURST20	TURST101	100	49	R	AC	Thick ARHM Overlay W/Leveling & BR
2030	VAN BUREN	SANTA FE AV	CASPIAN AV	VANST10	VANST041	100	49	R	AC	Thick ARHM Overlay W/Leveling & BR
2030	VICTORIA ST	CENTRAL AVE	TAMCLIFF AVE	VICST20W	VICST010	100	41	A	AC	Thick ARHM Overlay W/Leveling & BR
2030	WATER ST	215TH PL	215TH ST	WATST20	WATST010	100	48	R	AC	Thick ARHM Overlay W/Leveling & BR
2030	WILMINGTON AVE	GLENN CURTIS	UNIVERSITY DR	WILAV80S	WILAV020	100	42	A	AC	Thick ARHM Overlay W/Leveling & BR
2030	219TH ST	MONETA AV	RASHDALL AV	219ST50	219ST011	100	68	R	AC	Thin ARHM Overlay W/Leveling & BR
2030	223RD ST	MONETA AV	MAIN ST	223ST10E	223ST030	100	70	A	AC	Thin ARHM Overlay W/Leveling & BR
2030	231ST ST	END (W)	FIGUER (W)FR	231ST10	231ST010	100	70	R	AC	Thin ARHM Overlay W/Leveling & BR
2030	231ST ST	END(W)	CAROLDALE AVE	231ST20	231ST010	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2030	246TH ST	MARINE AV	CITY LIMITS	246ST10	246ST010	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2030	BISHOP AVE	CHARLES WILLARD ST	GLENN CURTISS ST	BISAV10	BISAV020	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2030	CARSON ST	ON/OFF RAMP	BONITA ST	CARST40W	CARST010	100	68	A	AC	Thin ARHM Overlay W/Leveling & BR
2030	DEL AMO BL	LEAPWOOD AVE	AVALON BLVD	DELBL20W	DELBL140	100	69	A	AC	Thin ARHM Overlay W/Leveling & BR

Project Period	Road Name	Begin Location	End Location	StreetID	SectionID	PCI After Treated	PCI Prior Treat	FC	Surface Type	Treatment
2030	DEL AMO BL	FORDYCE AVE	ALMEDA ST	DELBL70	DELBL060	100	68	A	AC	Thin ARHM Overlay W/Leveling & BR
2030	DOMINGUEZ ST	ALAMED (E) ST	HARBOR VI AVE	DOMST10E	DOMST060	100	69	C	AC	Thin ARHM Overlay W/Leveling & BR
2030	HARMON AVE	VICTORIA ST	CHARLES WILLARD ST	HARAV30	HARAV010	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2030	HARRISON ST	ALAMED ST	HARBOR VI AV	HARST10	HARST010	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2030	ISLAND AVE	246TH PL	245TH ST	ISLAV40	ISLAV060	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2030	METTLER AVE	189TH ST	186TH ST	METAV20	METAV010	100	70	R	AC	Thin ARHM Overlay W/Leveling & BR
2030	MILPOINT AVE	220TH ST	END(N)	MILAV10	MILAV010	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2030	TORRANCE BLVD	MARGARET ST	END (E)	TORBL10	TORBL055	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2030	215TH PL	VERA AVE	LOSTINE AVE	215PL10	215PL010	100	70	R	AC	Thin ARHM Overlay
2030	215TH PL	WEISER AV	END (E)	215PL30	215PL010	100	69	R	AC	Thin ARHM Overlay
2030	219TH PL	SALMON AV	MC HELEN AV	219PL10	219PL010	100	69	R	AC	Thin ARHM Overlay
2030	220TH ST	RAVENNA AV	GRACE ST	220ST30	220ST080	100	69	C	AC	Thin ARHM Overlay
2030	BILLINGS AVE	189TH ST	186TH ST	BILAV10	BILAV020	100	70	R	AC	Thin ARHM Overlay
2030	BONITA ST	223RD ST	RENTON AV	BONST20	BONST011	100	68	C	AC	Thin ARHM Overlay
2030	CALIFON ST	MARTIN ST	MILLPOINT AVE	CALST10	CALST010	100	69	R	AC	Thin ARHM Overlay
2030	CLIVEDEN AVE	EDOM ST	END (N)	CLIAV10	CLIAV010	100	68	R	AC	Thin ARHM Overlay
2030	DIMONDALE DR	HARLAN AVE	END	DIMDR30	DIMDR020	100	69	R	AC	Thin ARHM Overlay
2030	DOMINGUEZ ST	BRANT AVE	END (E)	DOMST10E	DOMST040	100	70	C	AC	Thin ARHM Overlay
2030	HELMICK ST	CENTRAL AVE	PRICETOWN AVE	HELST30	HELST030	100	68	R	AC	Thin ARHM Overlay

Project Period	Road Name	Begin Location	End Location	StreetID	SectionID	PCI After Treated	PCI Prior Treat	FC	Surface Type	Treatment
2030	224TH PL	MARINE AVE	END (E)	224PL30	224PL010	89	81	R	AC	Surface Seal
2030	232ND ST	FIGUER (W) FR	END(E)	232ST10	232ST20	87	79	R	AC	Surface Seal
2030	AVALON BL	CARSON PL CT	CARSON PL DR	AVABL20	AVABL020	95	89	A	AC	Surface Seal
2030	BOLSA AV	END (S)	JAY ST	BOLAV10	BOLAV020	93	86	R	AC	Surface Seal
2030	BONITA ST	E DESFORD ST	END	BONI90	BONI090	88	80	R	AC	Surface Seal
2030	CARSON ST	E CARSON ST	ALAMEDA ST	CARST10E	CARST030	94	88	A	AC	Surface Seal
2030	CARSON ST	EUONDA AVE	PROSPECT AVE	CARST10E	CARST070	93	87	A	AC	Surface Seal
2030	CARSON ST	MARTIN ST	WILMINGTON AVE	CARST10E	CARST151	93	87	A	AC	Surface Seal
2030	CARSON ST	E CARSON ST	ARNOLD CENTER RD	CARST20W	CARST070	95	90	A	AC	Surface Seal
2030	DIMONDALE DR	AMANTHA AVE	CENTRAL AVE	DIMDR20	DIMDR020	93	86	R	AC	Surface Seal
2030	FIGUEROA ST	218TH ST	CARSON ST	FIGST10N	FIGST041	94	88	A	AC	Surface Seal
2030	GARDENA AVE	AVALON BL	391' W/O CLAUDE	GARAV30E	GARAV041	94	88	MiA	AC/AC	Surface Seal
2030	JAY ST	END (W)	DOLORES ST	JAYST30	JAYST010	93	86	R	AC	Surface Seal
2030	MAIN ST	213TH ST	215TH ST	MAIST20S	MAIST060	94	88	A	AC	Surface Seal
2030	PACIFIC ST	FRIES AV	AVALON BL	PACST10	PACST020	89	82	R	AC	Surface Seal
2030	SEPULVEDA BLVD	DOLORES ST	MARBELLA AV	SEPBL10E	SEPBL050	94	88	A	AC/AC	Surface Seal
2030	SEPULVEDA BLVD	MARBELLA AV	PANAMA AV	SEPBL10E	SEPBL060	94	88	A	AC/AC	Surface Seal
2030	SEPULVEDA BLVD	PANAMA AV	FRIES AV	SEPBL10E	SEPBL070	95	90	A	AC/AC	Surface Seal
2030	SEPULVEDA BLVD	AVALON BL	PANAMA AVE	SEPBL20W	SEPBL121	93	87	A	AC	Surface Seal
2030	VICTORIA ST	COLMAN AVE	MAIN ST	VICST20W	VICST071	95	89	A	AC	Surface Seal
2031	211TH ST	BOLSA ST	END (E)	211ST10	211ST030	100	50	R	AC	Thick ARHM Overlay W/Leveling & BR

Project Period	Road Name	Begin Location	End Location	StreetID	SectionID	PCI After Treated	PCI Prior Treat	FC	Surface Type	Treatment
2031	213TH ST	MILPOINT AVE	OAKFORT ACE	213ST10	213ST141	100	40	C	AC	Thick ARHM Overlay W/Leveling & BR
2031	223RD ST	FIGUEROA BL	MONETA AV	223ST10E	223ST020	100	44	A	AC	Thick ARHM Overlay W/Leveling & BR
2031	AMANTHA AVE	HELMICK ST	GLADWICK ST	AMAAV50	AMAAV010	100	49	R	AC	Thick ARHM Overlay W/Leveling & BR
2031	AVALON BL	VICTORIA ST	182ND ST	AVABL120S	AVABL010	100	41	A	AC	Thick ARHM Overlay W/Leveling & BR
2031	AVALON BL	213TH ST	ON/OFF RAMP (405)	AVABL30N	AVABL010	100	43	A	AC	Thick ARHM Overlay W/Leveling & BR
2031	BONDS ST	EAST ST	BANNING BL	BONST40	BONST010	100	48	R	AC	Thick ARHM Overlay W/Leveling & BR
2031	BROADWAY AVE	GARDENA AVE	168TH ST	BROAV20S	BROAV020	100	43	A	AC	Thick ARHM Overlay W/Leveling & BR
2031	BROADWAY AVE	SHERMAN AVE	WALNUT ST	BROAV20S	BROAV040	100	41	A	AC	Thick ARHM Overlay W/Leveling & BR
2031	BROADWAY AVE	VICTORIA ST	GRIFFITH ST	BROAV40S	BROAV010	100	42	A	AC	Thick ARHM Overlay W/Leveling & BR
2031	CAIRO AVE	184TH ST	VICTORIA (FR) ST	CAIAV30	CAIAV012	100	47	R	AC	Thick ARHM Overlay W/Leveling & BR
2031	CARSON ST	RAVENNA AV	GRACE AV	CARST30E	CARST070	100	43	A	AC	Thick ARHM Overlay W/Leveling & BR
2031	CATSKILL AV	214th ST	DESFORD ST	CATAV40	CATAV040	100	49	R	AC	Thick ARHM Overlay W/Leveling & BR
2031	FIGUEROA ST	GRIFFITH ST	ON/OFF RAMP	FIGST80S	FIGST021	100	43	A	AC	Thick ARHM Overlay W/Leveling & BR
2031	FIGUEROA ST	GRIFFITH ST	VICTORIA ST	FIGST90N	FIGST040	100	44	A	AC	Thick ARHM Overlay W/Leveling & BR
2031	GLADWICK ST	TAJAUTA AVE	HARLAN AVE	GLAST20	GLAST030	100	48	R	AC	Thick ARHM Overlay W/Leveling & BR

Project Period	Road Name	Begin Location	End Location	StreetID	SectionID	PCI After Treated	PCI Prior Treat	FC	Surface Type	Treatment
2031	MAIN ST	WALNUT ST	168 ST	MAIST70N	MAIST040	100	42	A	AC	Thick ARHM Overlay W/Leveling & BR
2031	MAIN ST	ON/OFF RAMP	WALNUT ST	MAIST70N	MAIST050	100	40	A	AC	Thick ARHM Overlay W/Leveling & BR
2031	MAIN ST	ON/OFF RAMP	ALBERTONI BL	MAIST80S	MAIST060	100	41	A	AC	Thick ARHM Overlay W/Leveling & BR
2031	MILMONT ST	HARLAN AVE	CLIVEDENT AVE	MILST20	MILST031	100	49	R	AC	Thick ARHM Overlay W/Leveling & BR
2031	SANTA FE AVE	218TH PL	WARNOCK WY	SANAV20S	SANAV150	100	41	A	AC	Thick ARHM Overlay W/Leveling & BR
2031	SEPULVEDA BLVD	CANAL W/S	230' E/O ALAMEDA ST W/S	SEPBL20W	SEPBL030	100	41	A	AC	Thick ARHM Overlay W/Leveling & BR
2031	WILMINGTON AVE	HELMICK ST	VIA ARADO AVE	WILAV100S	WILAV041	100	44	A	AC	Thick ARHM Overlay W/Leveling & BR
2031	215TH PL	ROSITA DR	PERALTA DR	215PL40	215PL010	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2031	230TH ST	END (W)	BOLSA AVE	230ST50	230ST010	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2031	BROADWAY AVE	MAIN ST	GRIFFITH ST	BROAV30N	BROAV010	100	70	A	AC	Thin ARHM Overlay W/Leveling & BR
2031	CARSON ST	ORRICK AVE	MAIN ST	CARST40W	CARST080	100	69	A	AC	Thin ARHM Overlay W/Leveling & BR
2031	CHERITON DR	CROCKER AVE	COLLAMER DR	CHEDR10	CHEDR011	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2031	FIGUEROA ST	223RD ST	220TH ST	FIGST10N	FIGST010	100	68	A	AC	Thin ARHM Overlay W/Leveling & BR
2031	GARDENA AVE	BROADWAY AVE	MAIN ST	GARAV30E	GARAV020	100	68	MiA	AC	Thin ARHM Overlay W/Leveling & BR
2031	HARWILL AV	163RD ST	NORDBY AV	HARAV20	HARAV010	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR

Project Period	Road Name	Begin Location	End Location	StreetID	SectionID	PCI After Treated	PCI Prior Treat	FC	Surface Type	Treatment
2031	JAY ST	CLUFF ST	EDGAR ST	JAYST40	JAYST010	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2031	WADLEY AVE	DENWALL AVE	GLADWICK ST	WADAV10	WADAV011	100	70	R	AC	Thin ARHM Overlay W/Leveling & BR
2031	WILMINGTON AVE	VIA ARADO AVE	DEL AMO BLVD	WILAV100S	WILAV070	100	68	A	AC	Thin ARHM Overlay W/Leveling & BR
2031	216TH ST	PERALTA DR	WEISER AVE	216ST10	216ST030	100	69	R	AC	Thin ARHM Overlay
2031	BILLINGS AVE	END (S)	189TH ST	BILAV10	BILAV010	100	70	R	AC	Thin ARHM Overlay
2031	CLARION DR	PONTINE AVE	END (E)	CLADR20	CLADR010	100	70	R	AC	Thin ARHM Overlay
2031	CROCKER AVE	184TH ST	182ND ST	CROAV20	CROAV010	100	69	R	AC	Thin ARHM Overlay
2031	MARBELLA AV	END (S)	SWOPE ST	MARAV40	MARAV020	100	68	R	AC	Thin ARHM Overlay
2031	MILPOINT AVE	CALIFON ST	213TH ST	MILAV20	MILAV010	100	69	R	AC	Thin ARHM Overlay
2031	MILPOINT AVE	213TH ST	END(N)	MILAV30	MILAV010	100	69	R	AC	Thin ARHM Overlay
2031	ROBLIN ST	COLTMAN AVE	END (E)	ROBST10	ROBST010	100	69	R	AC	Thin ARHM Overlay
2031	SULTAN CIRCLE	AMANTHA AVE	END (E)	SULCR10	SULCR010	100	70	R	AC	Thin ARHM Overlay
2031	SWOPE ST	MARBELLA AVE	GRACE AVE	SWOST10	SWOST011	100	69	R	AC	Thin ARHM Overlay
2031	209TH ST	END (W)	LAMBERTON AVE	209ST10	209ST011	100	15	R	AC	Reconstruct Structure (AC)
2031	TURMONT ST	ANNALEE AVE	COSLIN AVE	TURST10	TURST160	100	11	C	AC/AC	Reconstruct Structure (AC)
2032	WILMINGTON AVE	220TH ST	223RD ST	WILAV10S	WILAV060	100	44	A	AC	Thick ARHM Overlay W/Leveling & BR
2032	220TH PL	EVONDA AV	CARL ERIC AV	220PL20	220PL010	100	70	R	AC	Thin ARHM Overlay W/Leveling & BR
2032	AMBLER AVE	189TH ST	186TH ST	AMBAV30	AMBAV010	100	68	R	AC	Thin ARHM Overlay W/Leveling & BR
2032	CHICO ST	213TH ST	DOMINGUEZ ST	CHIST10	CHISTN010	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2032	FIGUEROA ST	ANELO AVE	CANAL	FIGST90N	FIGST020	100	69	A	AC	Thin ARHM Overlay W/Leveling & BR

Project Period	Road Name	Begin Location	End Location	StreetID	SectionID	PCI After Treated	PCI Prior Treat	FC	Surface Type	Treatment
2032	LINCOLN ST	AVALON BL	BROAD AV	LINST20	LINST030	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2032	MARINE AVE	224TH ST	223RD ST	MARAV70	MARAV070	100	68	R	AC	Thin ARHM Overlay W/Leveling & BR
2032	MEHDEN AVE	231ST ST	END (N)	MEHAV30	MEHAV010	100	70	R	AC	Thin ARHM Overlay W/Leveling & BR
2032	MILMORE AVE	189TH ST	LIFFORD ST	MILAV40	MILAV020	100	70	R	AC	Thin ARHM Overlay W/Leveling & BR
2032	MONETA AVE	FIAT ST	220TH ST	MONAV20	MONAV070	100	67	C	AC	Thin ARHM Overlay W/Leveling & BR
2032	NEPTUNE AV	END (S)	213TH ST	NEPAV60	NEPAV060	100	70	R	AC	Thin ARHM Overlay W/Leveling & BR
2032	RASHDALL AVE	219TH ST	END (N)	RASAV20	RASAV010	100	70	R	AC	Thin ARHM Overlay W/Leveling & BR
2032	185TH ST	END (W)	BILLLINGS AVE	185ST10	185ST010	100	70	R	AC	Thin ARHM Overlay
2032	189TH ST	BONHAM AVE	TOWNE AVE	189ST20	189ST051	100	69	R	AC	Thin ARHM Overlay
2032	214TH ST	WEISER AV	END(E)	214ST20	214ST010	100	70	R	AC	Thin ARHM Overlay
2032	214TH ST	WATER ST	END (E)	214ST40	214ST010	100	70	R	AC	Thin ARHM Overlay
2032	219TH ST	DOLORES ST	NEPTUNE AV	219ST60	219ST021	100	69	R	AC	Thin ARHM Overlay
2032	234TH ST	MEHDEN AVE	MAIN ST	234ST10	234ST050	100	69	R	AC	Thin ARHM Overlay
2032	ACOMA DR	END (W)	HASKINS LN	ACODR10	ACODR010	100	70	R	AC	Thin ARHM Overlay
2032	BILSON AVE	MILMOR AVE	COLTMAN AVE	BILAV20	BILAV010	100	69	R	AC	Thin ARHM Overlay
2032	BONITA ST	RENTON AVE	220TH ST	BONST20	BONST041	100	68	C	AC	Thin ARHM Overlay
2032	BONDS ST	FRIES AV	AVALON BL	BONST50	BONST010	100	70	R	AC	Thin ARHM Overlay
2032	CAROLDALE AVE	END (S)	FIAT ST	CARAV30	CARAV030	100	69	R	AC	Thin ARHM Overlay
2032	CATSKILL AV	236TH ST	233RD ST	CATAV70	CATAV010	100	70	R	AC	Thin ARHM Overlay
2032	JAMISON AV	BOLSA AV	TORRANCE BL	JAMAV10	JAMAV030	100	70	R	AC	Thin ARHM Overlay
2032	NORTHWOOD AVE	EDOM ST	END (N)	NORAV20	NORAV010	100	70	R	AC	Thin ARHM Overlay

Project Period	Road Name	Begin Location	End Location	StreetID	SectionID	PCI After Treated	PCI Prior Treat	FC	Surface Type	Treatment
2032	PERRY ST	CARSON ST	215TH PL	PERST10	PERST010	100	69	R	AC	Thin ARHM Overlay
2032	PERRY ST	215TH PL	213TH ST	PERST10	PERST021	100	70	R	AC	Thin ARHM Overlay
2032	REALTY ST	ISLAND AV	FRIES AV	REAST20	REAST011	100	69	R	AC	Thin ARHM Overlay
2032	AMBLER AVE	SHERMAN DR	169TH ST	AMBAV20	AMBAV011	91	84	R	AC	Surface Seal
2032	ARCHIBALD AV	214TH ST	END (N)	ARCAV10	ARCAV010	92	86	R	AC	Surface Seal
2032	AVALON BL	CARSON MALL	CARSON PL DR	AVABL10	AVABL040	92	86	A	AC	Surface Seal
2032	DEL AMO BL	CENTRAL AVE	TAJAUTA AVE	DELBL10E	DELBL110	93	87	A	AC/AC	Surface Seal
2032	DEL AMO BL	TAJAUTA AVE	ALVO AVE	DELBL10E	DELBL120	93	87	A	AC/AC	Surface Seal
2032	DEL AMO BL	ALVO AVE	TAJAUTA AVE	DELBL20W	DELBL090	93	87	A	AC/AC	Surface Seal
2032	DEL AMO BL	FORDYCE AVE	ALMEDA ST	DELBL70	DELBL070	87	79	A	AC	Surface Seal
2032	MAIN ST	VICTORIA ST	LIFFORD ST	MAIST100S	MAIST010	92	85	A	AC/AC	Surface Seal
2032	MAIN ST	LIFFORD ST	GRIFFITH ST	MAIST100S	MAIST020	93	87	A	AC/AC	Surface Seal
2032	MAIN ST	215TH ST	213TH ST	MAIST10N	MAIST081	91	84	A	AC	Surface Seal
2032	MAIN ST	192ND ST	BROADWAY AVE	MAIST120S	MAIST010	91	84	A	AC	Surface Seal
2032	RADLETT AVE	TURMONT ST	END (N)	RADAV40	RADAV010	92	86	R	AC	Surface Seal
2032	SEPULVEDA BLVD	RONAN AVE	MAIN ST	SEPBL20W	SEPBL170	92	85	A	AC	Surface Seal
2032	TURMONT ST	DUNBROOK AVE	GALWAY AVE	TURST10	TURST021	91	84	C	AC/AC	Surface Seal
2032	TURMONT ST	GALWAY AVE	EDDINGTON DR	TURST10	TURST051	92	85	C	AC/AC	Surface Seal
2032	TURMONT ST	EDDINGTON DR	FAIRMAN DR	TURST10	TURST081	92	85	C	AC/AC	Surface Seal
2032	168TH ST	FIGUEROA BL	BROADWAY AVE	168ST10	168ST010	100	18	R	AC	Reconstruct Structure (AC)
2032	168TH ST	BROADWAY AVE	MAIN ST	168ST10	168ST020	100	18	R	AC	Reconstruct Structure (AC)
2032	208TH ST	SANTA FE AV	END (E)	208ST10	208ST010	100	2	R	AC	Reconstruct Structure (AC)

Project Period	Road Name	Begin Location	End Location	StreetID	SectionID	PCI After Treated	PCI Prior Treat	FC	Surface Type	Treatment
2032	212TH ST	NEPTUNE AV	END (E)	212ST30	212ST010	100	3	R	AC	Reconstruct Structure (AC)
2032	215TH	Vera St	End	215ST10	215ST070	100	0	R	AC	Reconstruct Structure (AC)
2032	218TH ST	MARTIN ST	END (E)	218ST40	218ST030	100	3	R	AC	Reconstruct Structure (AC)
2032	218TH ST	END(W)	ACARUS ST	218ST60	218ST010	100	25	R	AC	Reconstruct Structure (AC)
2032	220TH ST	Grace Ave	Avalon Bl	220ST30	220ST110	100	16	R	AC	Reconstruct Structure (AC)
2032	220TH ST	Grace Ave	Avalon Bl	220ST30	220ST210	100	4	R	AC	Reconstruct Structure (AC)
2032	221TH ST	MC HELEL AVE	EVONDA AVE	221ST10	221ST021	100	13	R	AC	Reconstruct Structure (AC)
2032	222ND ST	BECK ST	LUCERNE ST	222ST10	222ST020	100	22	R	AC	Reconstruct Structure (AC)
2032	222ND ST	BONITA ST	END (E)	222ST20	222ST030	100	8	R	AC	Reconstruct Structure (AC)
2032	229TH PL	DOLORES ST	CATSKILL AVE	229PL10	229PL040	100	0	R	AC	Reconstruct Structure (AC)
2032	229TH PL	END (W)	MEHDEN AVE	229PL30	229PL011	100	17	R	AC	Reconstruct Structure (AC)
2032	230TH ST	BANNING BL	UTILITY WY	230ST10	230ST010	100	13	R	AC	Reconstruct Structure (AC)
2032	230TH ST	UTILITY WY	WILMINGTON AVE	230ST10	230ST020	100	0	R	AC	Reconstruct Structure (AC)
2032	231ST ST	MAIN FRON ST	232ND ST	231ST40	231ST010	100	0	R	AC	Reconstruct Structure (AC)
2032	232ND ST	MAIN FRON ST	231ST ST	232ST20	232ST010	100	0	R	AC	Reconstruct Structure (AC)

Project Period	Road Name	Begin Location	End Location	StreetID	SectionID	PCI After Treated	PCI Prior Treat	FC	Surface Type	Treatment
2032	233RD ST	BANNING BLVD	WILMINGTON AVE	233ST10	233ST010	100	0	R	AC	Reconstruct Structure (AC)
2032	234TH PL	MAIN ST	235TH ST	234PL20	234PL010	100	0	R	AC	Reconstruct Structure (AC)
2032	236TH CT	END(W)	FRIGATE AVE	236CT10	236CT010	100	24	R	AC	Reconstruct Structure (AC)
2032	238TH ST	BANNING BL	END (E)	238ST10	238ST010	100	0	R	AC	Reconstruct Structure (AC)
2032	TURMONT ST	COSLIN AVE	CENTRAL AVE	TURST10	TURST171	100	14	C	AC/AC	Reconstruct Structure (AC)
2033	231ST ST	ANCHOR AVE	BAYPORT ST	231ST50	231ST030	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2033	233RD ST	234TH ST	DOLORES ST	233ST40	233ST020	100	70	R	AC	Thin ARHM Overlay W/Leveling & BR
2033	ALBERTONI BL	AVALON BL	OFF RAMP	ALBBL10	ALBBL050	100	69	MiA	AC	Thin ARHM Overlay W/Leveling & BR
2033	ANCHOR AVE	231ST ST	229TH PL	ANCAV30	ANCAV011	100	70	R	AC	Thin ARHM Overlay W/Leveling & BR
2033	ATMORE AVE	231ST ST	END (N)	ATMAV20	ATMAV010	100	68	R	AC	Thin ARHM Overlay W/Leveling & BR
2033	CARSON ST	AVALON BL	GRACE AV	CARST40W	CARST040	100	69	A	AC	Thin ARHM Overlay W/Leveling & BR
2033	CARSON ST	RAVENNA AVE	DOLORES ST	CARST40W	CARST060	100	69	A	AC	Thin ARHM Overlay W/Leveling & BR
2033	CARSON ST	MAIN ST	MONETA AVE	CARST40W	CARST090	100	69	A	AC	Thin ARHM Overlay W/Leveling & BR
2033	CHARLES WILLARD ST	BISHOP AVE	HARMON AVE	CHAST20	CHAST010	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2033	DEL AMO BL	ALVO AVE	WILMINGTON	DELBL10E	DELBL130	100	69	A	AC/AC	Thin ARHM Overlay W/Leveling & BR

Project Period	Road Name	Begin Location	End Location	StreetID	SectionID	PCI After Treated	PCI Prior Treat	FC	Surface Type	Treatment
2033	DEL AMO BL	WILMINGTON	ALVO AVE	DELBL20W	DELBL080	100	69	A	AC/AC	Thin ARHM Overlay W/Leveling & BR
2033	GLENN CURTISS ST	CENTRAL AV	BEACHY PL	GLEST10	GLEST010	100	70	R	AC	Thin ARHM Overlay W/Leveling & BR
2033	KINARD AVE	222ND ST	JAY ST	KINAV80	KINAV010	100	70	R	AC	Thin ARHM Overlay W/Leveling & BR
2033	MARTIN ST	213TH ST	END (N)	MARST10	MARST080	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2033	NORTHWOOD AVE	ABBOTTSON ST	FERNROCK ST	NORAV30	NORAV010	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2033	VICTORIA ST	MAIN ST	COLTMAN AVE	VICST10E	VICST030	100	68	A	AC/AC	Thin ARHM Overlay W/Leveling & BR
2033	214TH ST	VERA AV	END(E)	214ST30	214ST010	100	69	R	AC	Thin ARHM Overlay
2033	219TH ST	NEPTUNE AV	GRACE AV	219ST60	219ST041	100	69	R	AC	Thin ARHM Overlay
2033	249TH ST	ISLAND ST	END (E)	249ST10	249ST010	100	68	R	AC	Thin ARHM Overlay
2033	ALVAR PL	WINGATE DR	213TH ST	ALVPL10	ALVPL020	100	69	R	AC	Thin ARHM Overlay
2033	BECK ST	222ND ST	JAY ST	BECST10	BECST011	100	69	R	AC	Thin ARHM Overlay
2033	CAROLDALE AVE	230TH ST	228TH ST	CARAV50	CARAV071	100	70	R	AC	Thin ARHM Overlay
2033	CARON CIRCLE	DENWALL AVE	END (N)	CARCR10	CARCR010	100	69	R	AC	Thin ARHM Overlay
2033	CROCKER AVE	189TH ST	186TH ST	CROAV10	CROAV010	100	68	R	AC	Thin ARHM Overlay
2033	DOMINGUEZ ST	SHEARER AV	MARGARET ST	DOMST40	DOMST040	100	69	R	AC	Thin ARHM Overlay
2033	EAST ST	PACIFIC ST	LINCOLN ST	EASST10	EASST040	100	69	R	AC	Thin ARHM Overlay
2033	ELSMERE DR	EDDINGTON DR	FAIRMAN DE	ELSDR10	ELSDR071	100	70	R	AC	Thin ARHM Overlay
2033	FERNROCK ST	TAJAUTA AVE	HARLAN AVE	FERST20	FERST030	100	69	R	AC	Thin ARHM Overlay
2033	HARMON AVE	CHARLES WILLARD ST	GLENN CURTISS ST	HARAV30	HARAV020	100	70	R	AC	Thin ARHM Overlay
2033	HELMICK ST	ANNALEE AVE	AMANTHA AVE	HELST30	HELST010	100	70	R	AC	Thin ARHM Overlay
2033	HELMICK ST	AMATHA AVE	CENTRAL AVE	HELST30	HELST020	100	68	R	AC	Thin ARHM Overlay

Project Period	Road Name	Begin Location	End Location	StreetID	SectionID	PCI After Treated	PCI Prior Treat	FC	Surface Type	Treatment
2033	LEGEND AVE	215TH PL	213TH ST	LEGAV20	LEGAV010	100	69	R	AC	Thin ARHM Overlay
2033	MERIMAC CT	END(S)	BITTERLAKE ST	MERCT10	MERCT010	100	70	R	AC	Thin ARHM Overlay
2033	MILMORE AVE	LIFFORD ST	BILSON AVE	MILAV40	MILAV030	100	70	R	AC	Thin ARHM Overlay
2033	PRICETOWN AVE	TURMONT ST	KRAMER DR	PRIAV20	PRIAV010	100	68	R	AC	Thin ARHM Overlay
2033	TURMONT ST	RADLETT AVE	PRICETOWN AVE	TURST20	TURST121	100	70	R	AC	Thin ARHM Overlay
2033	ALBERTONI BL	ON/OFF RAMP	AVALON BL	ALBBL10	ALBBL040	85	77	MiA	AC/AC	Surface Seal
2033	CARSON ST	ALAMEDA ST	E CARSON ST	CARST20W	CARST060	91	84	A	AC	Surface Seal
2033	CARSON ST	DOLORES ST	ORRICK AVE	CARST40W	CARST070	91	84	A	AC	Surface Seal
2033	FOXWELL AV	213TH ST	CLARION DR	FOXAV20	FOXAV010	93	87	R	AC	Surface Seal
2033	GARDENA AVE	MAIN ST	AVALON BL	GARAV30E	GARAV030	90	82	MiA	AC	Surface Seal
2033	GLADWICK ST	TILLMAN AVE	ANNALEE AVE	GLAST10	GLAST050	91	85	R	AC	Surface Seal
2033	MAIN ST	DEL AMO BL	FRANCISCO AV	MAIST10N	MAIST030	91	84	A	AC	Surface Seal
2033	ADAMS ST	HARBOR VI AV	PROSPECT AV	ADAST10	ADAST020	100	10	R	AC	Reconstruct Structure (AC)
2033	ADAMS ST	PROSPECT AV	SANTA FE AV	ADAST10	ADAST030	100	9	R	AC	Reconstruct Structure (AC)
2033	ANCHOR AVE	224TH ST	223RD ST	ANCAV50	ANCAV020	100	0	R	AC	Reconstruct Structure (AC)
2033	ANELO AVE	FIGUEROA BL	END (N)	ANEAV10	ANEAV010	100	10	R	AC	Reconstruct Structure (AC)
2033	ANNALEE AV	DOMINGUEZ ST	BURGROVE ST	ANNAV10	ANNAV010	100	5	R	AC	Reconstruct Structure (AC)
2033	ARNOLD CENTER RD	22OTH ST	CARSON ST	ARNRD10	ARNRD010	100	0	R	AC	Reconstruct Structure (AC)
2033	E Artesia Blvd	Avalon Blvd	S Central Ave	ARTES10	ARTES010	100	0	R	AC	Reconstruct Structure (AC)
2033	E Artesia Blvd	Avalon Blvd	S Central Ave	ARTES10	ARTES020	100	0	R	AC	Reconstruct Structure (AC)

Project Period	Road Name	Begin Location	End Location	StreetID	SectionID	PCI After Treated	PCI Prior Treat	FC	Surface Type	Treatment
2033	BANNING BLVD	SEPULVEDA BL	238TH ST	BANBL10	BANBL010	100	12	R	AC	Reconstruct Structure (AC)
2033	BANNING BLVD	238TH ST	236TH ST	BANBL10	BANBL020	100	0	R	AC	Reconstruct Structure (AC)
2033	BANKERS DR	PRICETOWN AVE	RADLETT AVE	BANDR10	BANDR010	100	11	R	AC	Reconstruct Structure (AC)
2033	BELSHAW AVE	DOMINGUEZ ST	BEDMAR ST	BELAV10	BELAV010	100	0	R	AC	Reconstruct Structure (AC)
2033	BELSHAW AVE	BEDMAR ST	BEDMAR ST	BELAV10	BELAV020	100	0	R	AC	Reconstruct Structure (AC)
2033	BONITA ST	REALTY ST	SEPULVEDA BL	BONST30	BONST011	100	16	R	AC	Reconstruct Structure (AC)
2033	BRADRICK DR	BOLSA ST	END (E)	BRADR20	BRADR010	100	20	R	AC	Reconstruct Structure (AC)
2034	219TH ST	GRACE AV	AVALON BL	219ST60	219ST061	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2034	228TH ST	MAIN ST	DOLORES ST	228ST10	228ST131	100	69	C	AC	Thin ARHM Overlay W/Leveling & BR
2034	230TH ST	ARCHIBALD AVE	END (E)	230ST40	230ST010	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2034	232ND ST	END (W)	FIGUER (W) FR	232ST10	232ST10	100	70	R	AC	Thin ARHM Overlay W/Leveling & BR
2034	ANDMARK AVE	KRAMER DR	MILLMONT ST	ANDAV10	ANDAV020	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2034	CARSON ST	BONITA ST	CIVIC CEN DR	CARST40W	CARST020	100	70	A	AC	Thin ARHM Overlay W/Leveling & BR
2034	CRAIGJON AVE	TURMONT ST	KAMM ST	CRAAV10	CRAAV010	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2034	DELFORD AV	231ST ST	END(N)	DELAV30	DELAV010	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR

Project Period	Road Name	Begin Location	End Location	StreetID	SectionID	PCI After Treated	PCI Prior Treat	FC	Surface Type	Treatment
2034	DELORAS AV	EAST ST	SEAGROVE AVE	DELAV40	DELAV020	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2034	DEL AMO BL	TILLMAN AVE	LEAPWOOD AVE	DELBL20W	DELBL121	100	70	A	AC	Thin ARHM Overlay W/Leveling & BR
2034	DENWALL DR	GALWAY AVE	LEAPWOOD AVE	DENDR10	DENDR011	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2034	DIMONDALE DR	KEMP AVE	WILMINGTON AVE	DIMDR40	DIMDR021	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2034	ELSMERE DR	CENTRAL AVE	MIDTOWN AVE	ELSDR40	ELSDR011	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2034	FRANKE ST	LYSANDER DR	END (E)	FRAST10	FRAST011	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2034	GALWAY AVE	TURMONT ST	ALONDA DR	GALAV10	GALAV030	100	70	R	AC	Thin ARHM Overlay W/Leveling & BR
2034	HILFORD AVE	ELSMERE DR	END (N)	HILAV30	HILAV010	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2034	MARBELLA AV	REALTY ST	LINCOLN ST	MARAV90	MARAV010	100	70	R	AC	Thin ARHM Overlay W/Leveling & BR
2034	REALTY ST	AVALON BL	BROAD AV	REAST20	REAST040	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2034	RITNER ST	END (E)	NICOLLE AV	RITST10	RITST010	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2034	SEPULVEDA BLVD	FRIES AV	AVALON BL	SEPBL10E	SEPBL080	100	70	A	AC/AC	Thin ARHM Overlay W/Leveling & BR
2034	TILLMAN AVE	BRENNER DR	END (N)	TILAV50	TILAV010	100	70	R	AC	Thin ARHM Overlay W/Leveling & BR
2034	VICTORIA ST	CANAL	AVALON BL	VICST10E	VICST041	100	70	A	AC/AC	Thin ARHM Overlay W/Leveling & BR
2034	VICTORIA ST	RAINSBURY AVE	AVALON BL	VICST20W	VICST030	100	68	A	AC	Thin ARHM Overlay W/Leveling & BR
2034	213TH ST	OAKFORT AVE	WILMINGTON	213ST10	213ST160	100	69	C	AC	Thin ARHM Overlay

Project Period	Road Name	Begin Location	End Location	StreetID	SectionID	PCI After Treated	PCI Prior Treat	FC	Surface Type	Treatment
2034	216TH ST	PERRY ST	PERALTA DR	216ST10	216ST01	100	69	R	AC	Thin ARHM Overlay
2034	216TH ST	WEISER AVE	END(E)	216ST10	216ST040	100	69	R	AC	Thin ARHM Overlay
2034	219TH ST	RASHDALL AV	END (E)	219ST50	219ST031	100	68	R	AC	Thin ARHM Overlay
2034	ALBREDA ST	MARTIN ST	END (E)	ALBST10	ALBST010	100	69	R	AC	Thin ARHM Overlay
2034	CAROLDALE AVE	MARTINSHI ST	230TH ST	CARAV50	CARAV051	100	69	R	AC	Thin ARHM Overlay
2034	EMBASSY AVE	221ST ST	219TH ST	EMBAV10	EMBAV011	100	70	R	AC	Thin ARHM Overlay
2034	ROSITA DR	216TH ST	215TH PL	ROSDR10	ROSDR010	100	69	R	AC	Thin ARHM Overlay
2034	SELWYN AVE	DESFORD ST	213TH ST	SELAV10	SELAV011	100	69	R	AC	Thin ARHM Overlay
2034	TYLER ST	HARBOR VI AV	PROSPECT AV	TYLST10	TYLST020	100	69	R	AC	Thin ARHM Overlay
2034	WATER ST	214TH ST	213TH ST	WATST20	WATST030	100	70	R	AC	Thin ARHM Overlay
2034	BROADWAY AVE	GARDENA AVE	ALONDRA BL	BROAV10N	BROAV061	86	78	A	AC	Surface Seal
2034	CAMPAIGN RD	BRENNER DR	UNIVERSITY DR	CAMRD30	CAMRD030	92	85	R	AC	Surface Seal
2034	CARSON ST	BATAAN AVE	HARBOR VI AVE	CARST10E	CARST050	88	80	A	AC	Surface Seal
2034	CARSON ST	PROSPECT AVE	SANTA FE AVE	CARST10E	CARST080	86	78	A	AC	Surface Seal
2034	CARSON ST	ARNOLD CENTER RD	WILMINGTON AVE	CARST20W	CARST080	93	87	A	AC	Surface Seal
2034	FIAT ST	NICOLLE AV	RASHDALL AV	FIAST20	FIAST010	92	86	R	AC	Surface Seal
2034	FIGUEROA ST	215TH ST	213TH ST	FIGST10N	FIGST061	84	76	A	AC	Surface Seal
2034	MAIN ST	DOMINGUEZ ST	TORRANCE ST	MAIST10N	MAIST050	88	80	A	AC	Surface Seal
2034	MAIN ST	BROADWAY AVE	ON/OFF RAMP	MAIST120S	MAIST020	87	80	A	AC	Surface Seal
2034	MAIN ST	DEL AMMO AVE	TORRANCE ST	MAIST20S	MAIST030	93	87	A	AC	Surface Seal
2034	MAIN ST	ALONDRA BL	163RD ST	MAIST80S	MAIST010	89	81	A	AC	Surface Seal
2034	MAIN ST	192ND ST	GRIFFITH ST	MAIST90N	MAIST010	90	83	A	AC	Surface Seal
2034	MAIN ST	LIFFORD ST	VICTORIA ST	MAIST90N	MAIST030	87	79	A	AC	Surface Seal

Project Period	Road Name	Begin Location	End Location	StreetID	SectionID	PCI After Treated	PCI Prior Treat	FC	Surface Type	Treatment
2034	BELSHAW AVE	BEDMAR ST	END (N)	BELAV10	BELAV031	100	0	R	AC	Reconstruct Structure (AC)
2034	BONDS ST	BANNING BL	END (E)	BONST40	BONST020	100	20	R	AC	Reconstruct Structure (AC)
2034	BRANT AVE	DOMINGUEZ ST	209TH ST	BRAAV10	BRAAV010	100	0	R	AC	Reconstruct Structure (AC)
2034	BRANDI CT	BRANDI CT	END	BRNDI10	BRNDI010	100	17	R	AC	Reconstruct Structure (AC)
2034	BRANDI CT	BRANDI CT	END	BRNDI10	BRNDI030	100	4	R	AC	Reconstruct Structure (AC)
2034	BURGROVE ST	BELSHAW AVE	TILLMAN AVE	BURST10	BURST010	100	0	R	AC	Reconstruct Structure (AC)
2034	BURGROVE ST	TILLMAN AVE	ANNALEE AVE	BURST10	BURST020	100	0	R	AC	Reconstruct Structure (AC)
2034	CAIRO AVE	Start	WALT ST	CAIAV30	CAIAV014	100	4	R	AC	Reconstruct Structure (AC)
2034	CARSON PLAZA CT	AVALON BL	CARSON PL DR	CARCT10	CARCT010	100	9	R	AC	Reconstruct Structure (AC)
2034	CARSON PLAZA DR	DEL AMO BLVD	CARSON PL CT	CARDR20	CARDR010	100	0	R	AC	Reconstruct Structure (AC)
2034	CARSON PLAZA DR	CARSON PL CT	END	CARDR20	CARDR020	100	4	R	AC	Reconstruct Structure (AC)
2034	CARSON ST FRONTAGE SOUTH	CARSON ST	END (E)	CARFRNS	CARFRNS010	100	14	R	AC	Reconstruct Structure (AC)
2034	CATSKILL AV	228TH ST	223RD ST	CATAV70	CATAV081	100	0	R	AC	Reconstruct Structure (AC)
2034	CHERIE PL	END (W)	SANDHILL ST	CHEPL10	CHEPL010	100	6	R	AC	Reconstruct Structure (AC)
2034	CIVIC CENTER DR	CARSON ST	END	CIVIC10	CIVIC100	100	0	R	AC	Reconstruct Structure (AC)

Project Period	Road Name	Begin Location	End Location	StreetID	SectionID	PCI After Treated	PCI Prior Treat	FC	Surface Type	Treatment
2034	CLARION DR	END (W)	NEPTUNE AV	CLADR40	CLADR010	100	8	R	AC	Reconstruct Structure (AC)
2034	CLARION DR	NEPTUNE AV	END (E)	CLADR40	CLADR020	100	10	R	AC	Reconstruct Structure (AC)
2034	CLARION DR	END (W)	MONETA AV	CLADR60	CLADR010	100	0	R	AC	Reconstruct Structure (AC)
2034	CLARION DR	NICOLLE AV	MAIN ST	CLADR60	CLADR031	100	17	R	AC	Reconstruct Structure (AC)
2034	CYRENE ST	WADLEY AVE	END (E)	CYRST10	CYRST010	100	10	R	AC	Reconstruct Structure (AC)
2034	DELFORD AV	228TH ST	END (N)	DELAV10	DELAV010	100	4	R	AC	Reconstruct Structure (AC)
2034	DELFORD AV	CARRIAGEDALE DR	END(N)	DELAV20	DELAV010	100	9	R	AC	Reconstruct Structure (AC)
2034	DESFORD ST	CATSKILL AV	GRACE AV	DESST20	DESST010	100	16	R	AC	Reconstruct Structure (AC)
2034	DESFORD ST	GRACE AV	END (E)	DESST20	DESST020	100	1	R	AC	Reconstruct Structure (AC)
2034	DOMINGUEZ ST	CHICO ST	BELSHAW AVE	DOMST30	DOMST040	100	0	R	AC	Reconstruct Structure (AC)
2034	DOMINGUEZ ST	BELSHAW AVE	ANNALEE AVE	DOMST30	DOMST050	100	0	R	AC	Reconstruct Structure (AC)
2034	DOMINGUEZ ST	START	END	DOMST60	DOMST060	100	0	R	AC	Reconstruct Structure (AC)
2034	EDDINGTON DR	DENWALL	DIMONDALE DR	EDDDR10	EDDDR010	100	3	R	AC	Reconstruct Structure (AC)
2034	EDDINGTON DR	DIMONDALE DR	HELMICK DR	EDDDR10	EDDDR020	100	12	R	AC	Reconstruct Structure (AC)
2034	EL PRESIDIO ST	SANTA FE AV	END (E)	ELPST10	ELPST020	100	0	R	AC	Reconstruct Structure (AC)

Project Period	Road Name	Begin Location	End Location	StreetID	SectionID	PCI After Treated	PCI Prior Treat	FC	Surface Type	Treatment
2035	213TH ST	AVALON BL	SELWYN AV	213ST30	213ST150	100	68	MiA	AC	Thin ARHM Overlay W/Leveling & BR
2035	214TH ST	FIGUEROA BL	CAROLDALE AV	214ST50	214ST021	100	68	C	AC	Thin ARHM Overlay W/Leveling & BR
2035	234TH PL	CAROLDALE AVE	MONETA AVE	234PL10	234PL010	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2035	ANCHOR AVE	228TH ST	224TH ST	ANCAV50	ANCAV010	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2035	ARCHIBALD AV	234TH ST	232ND PL	ARCAV50	ARCAV011	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2035	BILLINGS AVE	186TH ST	184TH ST	BILAV10	BILAV031	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2035	BONHAM AVE	COLLAMER DR	END(N)	BONAV20	BONAV010	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2035	CASHDAN ST	KEMP AVE	WILMINGTON AVE	CASST30	CASST011	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2035	CATSKILL AV	END (S)	222ND ST	CATAV50	CATAV010	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2035	CRAIGJON AVE	KAMM ST	KRAMER DR	CRAAV10	CRAAV020	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2035	DEL AMO BL	TILLMAN AVE	CENTRAL AVE	DELBL10E	DELBL100	100	69	A	AC/AC	Thin ARHM Overlay W/Leveling & BR
2035	FIGUEROA ST	CANAL	GRIFFITH ST	FIGST90N	FIGST030	100	68	A	AC	Thin ARHM Overlay W/Leveling & BR
2035	GRIFFITH ST	BROADWAY AVE	MAIN ST	GRIST10	GRIST020	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2035	KRAMER DR	ANNALEE AVE	COSLIN AVE	KRADR10	KRADR010	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2035	RAVENNA AVE	REALTY ST	LINCOLN ST	RAVAV50	RAVAV010	100	70	R	AC	Thin ARHM Overlay W/Leveling & BR

Project Period	Road Name	Begin Location	End Location	StreetID	SectionID	PCI After Treated	PCI Prior Treat	FC	Surface Type	Treatment
2035	SANDLAKE AVE	HAXBY CR	END(N)	SANAV30	SANAV050	100	69	R	AC	Thin ARHM Overlay W/Leveling & BR
2035	TANNERBERG CT	SANDLAKE AVE	END(E)	TANCT10	TANCT010	100	70	R	AC	Thin ARHM Overlay W/Leveling & BR
2035	213TH ST	FIGUEROA BL	LYNTON AV	213ST20	213ST010	100	69	R	AC	Thin ARHM Overlay
2035	215TH PL	LOSTINE AVE	MARTIN ST	215PL10	215PL021	100	69	R	AC	Thin ARHM Overlay
2035	215TH	Weiser Ave	End	215ST10	215ST060	100	69	R	AC	Thin ARHM Overlay
2035	223RD ST	WILMINGTON AVE	MARATHON DR	223ST10	223ST210	100	68	A	AC	Thin ARHM Overlay
2035	223RD ST	MARATHON DR	ALEMEDA ST	223ST10	223ST220	100	70	A	AC	Thin ARHM Overlay
2035	BOLSA AV	231ST ST	END (N)	BOLAV20	BOLAV011	100	69	R	AC	Thin ARHM Overlay
2035	CARSON ST	CIVIC CEN DR	AVALON BL	CARST42W	CARST030	100	69	A	AC	Thin ARHM Overlay
2035	CATSKILL AV	END (S)	JAVELIN ST	CATAV10	CATAV010	100	69	R	AC	Thin ARHM Overlay
2035	GALWAY AVE	ELSMERE DR	BRENNER DR	GALAV10	GALAV060	100	70	R	AC	Thin ARHM Overlay
2035	HARBOR VIEW AVE	Tyler St	Harrison St	HARAV20	HARAV020	100	70	R	AC	Thin ARHM Overlay
2035	HELMICK ST	MIDTOWN AVE	TAJAUTA AVE	HELST30	HELST050	100	69	R	AC	Thin ARHM Overlay
2035	LIFFORD ST	MAIN ST	COLTMAN AVE	LIFST10	LIFST01	100	69	R	AC	Thin ARHM Overlay
2035	MARINE AVE	246TH ST	END (N)	MARAV100	MARAV030	100	69	R	AC	Thin ARHM Overlay
2035	SUDBURY CT	BITTERLAKE ST	END	SUDCT10S	SUDCT011	100	70	R	AC	Thin ARHM Overlay
2035	218TH PL	END	CAROLDALE AV	218PL40E	218PL010	93	86	R	AC	Surface Seal
2035	AVALON BL	182ND ST	VICTORIA ST	AVABL110N	AVABL070	92	86	A	AC	Surface Seal
2035	AVALON BL	CARSON MALL	DOMINGUEZ ST	AVABL20	AVABL040	92	85	A	AC	Surface Seal
2035	BELSHAW AVE	TURMONT ST	ELSMERE DR	BELAV40	BELAV010	90	83	R	AC	Surface Seal
2035	CARSON ST	HARBOR VI AVE	ALMEDA ST	CARST20W	CARST041	91	84	A	AC	Surface Seal
2035	FIGUEROA ST	228TH ST	SHADWELL AVE	FIGST30N	FIGST070	93	87	A	AC	Surface Seal
2035	FIGUEROA ST	SHADWELL AVE	223RD ST	FIGST30N	FIGST081	88	81	A	AC	Surface Seal

Project Period	Road Name	Begin Location	End Location	StreetID	SectionID	PCI After Treated	PCI Prior Treat	FC	Surface Type	Treatment
2035	MAIN ST	213TH ST	DOMINGUEZ ST	MAIST10N	MAIST061	92	85	A	AC	Surface Seal
2035	MAIN ST	215TH ST	CARSON ST	MAIST20S	MAIST070	92	85	A	AC	Surface Seal
2035	RONAN AVE	227TH ST	END	RONAN10	RONAN010	88	80	R	AC	Surface Seal
2035	VICTORIA ST	BROADWAY AVE	FIGUEROA BL	VICST20W	VICST090	91	84	A	AC	Surface Seal
2035	WILMINGTON AVE	DEL AMO BLVD	DOMINGUEZ ST	WILAV10S	WILAV010	86	78	A	AC	Surface Seal
2035	WILMINGTON AVE	213TH ST	CARSON ST	WILAV10S	WILAV030	92	85	A	AC	Surface Seal
2035	E223rd St	SALMON AVE	END	223ST10	223ST030	100	0	A	AC	Reconstruct Surface (AC)
2035	EL PRESIDIO ST	ALAMED (W) ST	SANTA FE AV	ELPST10	ELPST010	100	0	R	AC	Reconstruct Structure (AC)
2035	ENOLA AVE	228TH ST	END (N)	ENOAV10	ENOAV010	100	4	R	AC	Reconstruct Structure (AC)
2035	FIAT ST	BONITA AV	END (E)	FIAST30	FIAST010	100	0	R	AC	Reconstruct Structure (AC)
2035	FORDYCE AVE	209TH ST	DEL AMO BLVD	FORAV10	FORAV010	100	0	R	AC	Reconstruct Structure (AC)
2035	GALWAY AVE	DENWALL AVE	GLADWICK ST	GALAV10	GALAV010	100	10	R	AC	Reconstruct Structure (AC)
2035	HARLAN AVE	TURMONT ST	MILLMONT ST	HARAV50	HARAV010	100	0	R	AC	Reconstruct Structure (AC)
2035	HARLAN AVE	MILLMONT ST	END (E)	HARAV50	HARAV020	100	6	R	AC	Reconstruct Structure (AC)
2035	ISHIDA AV	GARDENS AV	END (N)	ISHAV10	ISHAV010	100	16	R	AC	Reconstruct Structure (AC)
2035	JANIS ST	END	KEEGAN ST	JANST10E	JANST010	100	0	R	AC	Reconstruct Structure (AC)

Project Period	Road Name	Begin Location	End Location	StreetID	SectionID	PCI After Treated	PCI Prior Treat	FC	Surface Type	Treatment
2035	JOEL ST	EDGAR ST	END (E)	JOEST30	JOEST010	100	0	R	AC	Reconstruct Structure (AC)
2035	KAISER CIRCLE	DENWALL AVE	END (N)	KAICR10	KAICR010	100	1	R	AC	Reconstruct Structure (AC)
2035	KINARD AVE	228TH ST	END (N)	KINAV30	KINAV010	100	2	R	AC	Reconstruct Structure (AC)
2035	KINARD AVE	END (S)	CLARION DR	KINAV60	KINAV010	100	0	R	AC	Reconstruct Structure (AC)
2035	KINGS HILL PL	END (W)	KINGSVIEW AV	KINPL10	KINPL10	100	0	R	AC	Reconstruct Structure (AC)
2035	LAMBERTON AVE	DOMINGUEZ ST	END (N)	LAMAV10	LAMAV010	100	3	R	AC	Reconstruct Structure (AC)
2035	MACIEL AVE	DOMINGUEZ ST	END (N)	MACAV10	MACAV010	100	0	R	AC	Reconstruct Structure (AC)
2035	MARGARET ST	DOMINGUEZ ST	TORRANCE ST	MARGST10	MARST040	100	0	R	AC	Reconstruct Structure (AC)
2035	MONETA AVE	MAIN ST	END (N)	MONAV10	MONAV010	100	10	R	AC	Reconstruct Structure (AC)
2035	NICOLLE AV	END(S)	CLARION DR	NICAV70	NICAV010	100	0	R	AC	Reconstruct Structure (AC)
2035	ORCHARD AVE	228th St	End	ORCHA10	ORCHA010	100	0	R	AC	Reconstruct Structure (AC)
2035	ORRICK AV	215TH ST	213TH ST	ORRAV10	ORRAV010	100	0	R	AC	Reconstruct Structure (AC)

APPENDIX D Sections Added to StreetSaver

Street ID	Section ID	Begin From	End To
215ST10	215ST060	WEISER AVE	END
215ST10	215ST070	VERA ST	END
216ST10	216ST060	FIGUEROA ST	END
220ST30	220ST110	GRACE AVE	AVALON BL
220ST30	220ST210	GRACE AVE	AVALON BL
220ST40	220ST010	JAY ST	LUCERNE ST
220ST40	220ST020	NEPTUNE AVE	RAVENNA AVE
229PL40	229PL040	MEHDEN AVE	BOLSA AVE
232ST40	232ST040	231ST ST	ALLEY 26
ALAST20N	ALAST150	SAN DIEGO FWY	E 223RD ST
ALLEY01	ALLEY001	ALONDRA BLVD	162ND ST
ALLEY02	ALLEY002	162ND ST	163RD ST
ALLEY03	ALLEY003	GARDENA BLVD	164TH ST
ALLEY04	ALLEY004	168TH ST	SHERMAN AVE
ALLEY05	ALLEY005	168TH ST	SHERMAN AVE
ALLEY06	ALLEY006	SHERMAN AVE	WALNUT ST
ALLEY07	ALLEY007	SHERMAN AVE	WALNUT ST
ALLEY08	ALLEY008	GARDENA BLVD	END
ALLEY09	ALLEY009	MONETA AVE	END
ALLEY10	ALLEY010	W CLARION DR	END
ALLEY11	ALLEY011	BALL AVE	ALLEY 1
ALLEY12	ALLEY012	BALL AVE	ALLEY 1
ALLEY13	ALLEY013	228TH ST	229TH ST
ALLEY14	ALLEY014	229TH ST	233RD ST
ALLEY15	ALLEY015	DOLORES ST	ALLEY 14
ALLEY16	ALLEY016	223RD ST	235TH ST
ALLEY17	ALLEY017	CATSKILL AVE	229TH ST
ALLEY18	ALLEY018	229TH ST	233RD ST
ALLEY19	ALLEY019	233RD ST	236TH ST

Street ID	Section ID	Begin From	End To
ALLEY20	ALLEY020	236TH ST	PANAMA AVE
ALLEY21	ALLEY021	230TH ST	ANCHOR AVE
ALLEY22	ALLEY022	230TH ST	231ST ST
ALLEY23	ALLEY023	ALLEY 22	ANCHOR AVE
ALLEY24	ALLEY024	232ND ST	234TH ST
ALLEY25	ALLEY025	234TH ST	236TH ST
ALLEY26	ALLEY026	CATSKILL AVE	PANAMA AVE
ALLEY27	ALLEY027	PANAMA AVE	231ST ST
ALLEY28	ALLEY028	MARBELLA AVE	FRIES AVE
ALLEY29	ALLEY029	FRIES AVE	AVALON BL
ALLEY30	ALLEY030	AVALON BL	BROAD ST
ALLEY31	ALLEY031	FRIES AVE	END
ALLEY32	ALLEY032	246TH ST	AVALON BL
ALLEY33	ALLEY033	248TH ST	246TH ST
ALLEY34	ALLEY034	248TH ST	LOMITA BLVD
ALLEY35	ALLEY035	209TH ST	DOMINGUEZ ST
ALLEY36	ALLEY036	209TH ST	DOMINGUEZ ST
ALLEY37	ALLEY037	DOMINGUEZ ST	TYLER ST
ALLEY38	ALLEY038	TYLER ST	HARRISON ST
ALLEY39	ALLEY039	HARRISON ST	VAN BUREN ST
ALLEY40	ALLEY040	VAN BUREN ST	JACKSON ST
ALLEY41	ALLEY041	JACKSON ST	MONROE ST
ALLEY42	ALLEY042	MONROE ST	MADISON ST
ALLEY43	ALLEY043	MADISON ST	JEFFERSON ST
ALLEY44	ALLEY044	JEFFERSON ST	ADAMS ST
ALLEY45	ALLEY045	ADAMS ST	WASHINGTON ST
ALLEY46	ALLEY046	WASHINGTON ST	CARSON ST
ALLEY47	ALLEY047	BATAAN AVE	END
ALLEY48	ALLEY048	EVONDA AVE	BATAAN AVE

Street ID	Section ID	Begin From	End To
ALLEY49	ALLEY049	SANTA FE AVE	EVONDA AVE
ALLEY50	ALLEY050	E DOMINGUEZ ST	E TYLER ST
ALLEY51	ALLEY051	E TYLER ST	HARRISON ST
ALLEY52	ALLEY052	HARRISON ST	VAN BUREN ST
ALLEY53	ALLEY053	VAN BUREN ST	JACKSON AVE
ALLEY54	ALLEY054	JACKSON AVE	MONROE AVE
AMBAV50	AMBAV010	E 182ND ST	E 184TH ST
AMBAV50	AMBAV020	E 182ND ST	E 184TH ST
BILDR10	BILDR050	SHERMAN DR	CENTERVIEW DR
BONI90	BONI090	E DESFORD ST	END
BRNDI10	BRNDI010	BRANDI CT	END
BRNDI10	BRNDI020	E 220TH ST	BRANDI CT
BRNDI10	BRNDI030	BRANDI CT	END
BREDR10	BREDR022	GALWAY AVE	WADLEY AVE
BROAD60	BROAD060	EDOM DR	END
CAIAV30	CAIAV014	START	WALT ST
CAIAV30	CAIAV013	WALT ST	METTLER AVE
CARAV60	CARAV060	233RD ST	234TH ST
CARAV70	CARAV070	234TH ST	234TH PL
CATAV40	CATAV040	214TH ST	DESFORD ST
CENAV20S	CENAV100	CENTRAL AVE	GREENLEAF AVE
CIVIC10	CIVIC100	CARSON ST	END
COLOR10	COLOR100	E CARSON ST	END
CROCK30	CROCK010	E CHERITON DR	E CASSIDY ST
CROCK30	CROCK020	E CHERITON DR	E CASSIDY ST
CROCK30	CROCK030	E CASSIDY ST	END
DELBL50	DELBL030	WILMINGTON AVE	REEVES AVE
DELBL50	DELBL040	WILMINGTON AVE	REEVES AVE
DELBL60	DELBL050	REEVES AVE	FORDYCE AVE

Street ID	Section ID	Begin From	End To
DELBL70	DELBL060	FORDYCE AVE	ALMEDA ST
DELBL70	DELBL070	FORDYCE AVE	ALMEDA ST
DELBL80	DELBL080	ALMEDA ST	SANTA FE AVE
DELBL80	DELBL090	ALMEDA ST	SANTA FE AVE
DELBL90	DELBL110	SANTA FE AVE	LONG BEACH FREEEWAY
DELBL90	DELBL120	SANTA FE AVE	LONG BEACH FREEEWAY
DELBL80	DELBL100	ALMEDA ST	SANTA FE AVE
DELBL90	DELBL130	SANTA FE AVE	LONG BEACH FREEEWAY
DELBL60	DELBL060	REEVES AVE	FORDYCE AVE
DELBL50	DELBL050	WILMINGTON AVE	REEVES AVE
DELBL40	DELBL010	SD FWY	CARSON ST
DELBL30	DELBL020	SD FWY	CARSON ST
DELBL40	DELBL020	SD FWY	CARSON ST
DIMDR20	DIMDR010	SD FWY	CARSON ST
DIMDR20	DIMDR020	SD FWY	CARSON ST
DIMDR30	DIMDR010	SD FWY	CARSON ST
DIMDR30	DIMDR020	SD FWY	CARSON ST
DOLST30	DOLST030	22ND ST	223RD ST
221ST10	221ST080	EVONDA AVE	TANYA AVE
221ST10	221ST010	S SOLMON AVE	S CARLERIK AVE
221ST10	221ST030	EMBASSY AVE	EVONDA AVE
221ST10	221ST060	MC HELEN AVE	EMBASSY AVE
221ST10	221ST070	EVONDA AVE	TANYA AVE
ARTES10	ARTES010	AVALON BLVD	S CENTRAL AVE
ARTES10	ARTES020	AVALON BLVD	S CENTRAL AVE
CLARI10	CLARI010	OAKFORT	END
DOMST60	DOMST060	START	END
223ST10	223ST210	WILMINGTON AVE	MARATHON DR
223ST10	223ST220	MARATHON DR	ALEMEDA ST

Street ID	Section ID	Begin From	End To
223ST10	223ST030	SALMON AVE	END
223ST10	223ST040	START	SALMON AVE
ELPST10	ELPST010	ALAMED (W) ST	SANTA FE AV
ELPST10	ELPST010	SANTA FE AV	END (E)
ELPST10	ELPST010	SANTA FE AVE	ALMEDA ST
FIGSTFRNE	FIGFRNE030	W234 ST	232ND ST
FIGST90	FIGST090	LOMITA BLVD	CITY END
GALAV10	GALAV080	ELSMERE DR	HOLBORN DR
GREEN10	GREEN010	CENTRAL AVE	END
HARAV20	HARAV020	TYLER ST	HARRISON ST
HARAV20	HARAV030	HARRISON ST	VAN BUREN
HASLN10	HASLN020		
HELST20	HELST030	CAMPAIGN RD	ENSLOW DR.
LINST30	LINST050	EAST ST	BANNING BLVD
LINST20	LINST040	NEPTUNE AVE	MARBELLA AVE
LOMBL30	LOMBL080	FIGUEROA ST	HIGHWAY
LOMBL20	LOMBL070	WILMINGTON AVE	END
MARAV60	MARAV060	START	ANCHOR AVE
MARAV60	MARAV070	START	ANCHOR AVE
MILAV10	MILAV020	E220TH ST	END
PROAV10	PROAV011	WASHINGTON AVE	CARSON ST
MONAV70	MONAV070	218TH ST	219TH ST
ORCHA10	ORCHA010	228TH ST	END
PERST20	PERST020	215TH PL	216TH ST
PERST20	PERST030	216TH ST	E CARSON ST
RECREATION	RECREA010	CARSON ST	460'
RECREATION	RECREA011	460'	880'
RECREATION	RECREA012	880'	1300'
RECREATION	RECREA013	1300'	END

Street ID	Section ID	Begin From	End To
RONAN10	RONAN010	227TH ST	END
JUDIT10	JUDIT010	E 222ND ST	END
ROSIT10	ROSIT010	SUSAN DR	END
SALMN10	SALMN010	E223RD ST	END
MARAT10	MARAT010	E223RD ST	END
213TH90	213TH090	MAIN ST	400'
213TH90	213TH100	400'	END
218PL40E	218PL100	FIGUEROA ST	END
219ST80	219ST080	MAIN ST	END
WESTW10	WESTW010	E220TH ST	END
SALAV10	SALAV012	E 221ST ST	E 221ST PL

Report to Honorable Mayor and City Council

Tuesday, March 17, 2026, 5:00 PM

CONSENT 23.

To: Honorable Mayor and City Council

From: Dr. Arlington Rodgers, Director of Public Works PW Engineering

Subject: CONSIDER APPROVAL OF AMENDMENT NO. 3 TO THE AGREEMENT WITH TOTUM CORP. FOR ON-CALL CONSTRUCTION MANAGEMENT AND INSPECTION SERVICES SUPPORTING PUBLIC WORKS PROJECTS (CITY COUNCIL)

I. SUMMARY

The City previously entered into an on-call professional services agreement with Totum Corp. (Totum) to provide construction management services that support the Public Works Department's Capital Improvement Program (CIP). The CIP is the City's program for planning, designing, and constructing major public infrastructure projects such as street improvements, park upgrades, public facility repairs, and other community improvements. Construction management services help ensure these projects are properly coordinated, monitored, and completed safely, on time, and within budget.

In 2023, the City Council approved a professional services agreement with Totum in an amount not to exceed $482,635. The agreement was established with a term ending June 30, 2026, and includes two optional one-year extensions that the City may exercise if continued services are needed. The agreement allows the City to call on Totum for construction management services as projects move into construction. The original contract amount was based on the number and type of construction projects that were anticipated at the time the agreement was approved. Since then, the number of active capital improvement projects has increased and several projects have become more complex than originally expected. At the same time, the City has limited in-house staffing available to manage the growing number of projects currently under construction. As a result, the City has continued to rely on Totum's on-call construction management services to help oversee these projects and ensure they move forward in an organized, efficient, and accountable manner.

To address these additional needs, the agreement has previously been amended twice. The first amendment was approved in January 2025, and the second amendment was approved in July 2025. These amendments increased the total contract amount to $1,232,635 in order to support continued construction oversight and project coordination. Since those amendments were approved, staff has further refined the schedules and construction timelines for the projects currently being managed by Totum. This review identified the need for additional resources to ensure continued construction oversight, quality control, and schedule management through the completion of these projects.

Consequently, staff recommends that the City Council approve the proposed Amendment No. 3 to the agreement with Totum Corp. This amendment would increase the contract amount by $250,000, bringing the total not-to-exceed contract amount to $1,482,635. The amendment would also extend the agreement term by six months,

through December 30, 2026, to allow Totum to continue supporting the City's active construction projects through their completion.

II. RECOMMENDATION

TAKE the following actions:

1. APPROVE the proposed Amendment No. 3 to the agreement with Totum Corp. for on-call Construction Management and Construction Inspection services, increasing the contract amount by $250,000, for a new total not-to-exceed contract amount of $1,482,635, and extending the contract term by six months, through December 30, 2026; and,
2. AUTHORIZE the Mayor to execute Amendment No. 3 to the agreement with Totum Corp., subject to approval as to form by the City Attorney.

III. ALTERNATIVES

1. DO NOT APPROVE the above recommendations.
2. TAKE another action the City Council deems appropriate consistent with the requirements of the Law.

IV. BACKGROUND

The Public Works Department is responsible for delivering the City's Capital Improvement Program (CIP), which includes the planning, design, and construction of major public infrastructure and facility improvements throughout the community. The CIP is a multi-year program that funds projects such as improvements to streets and roadways, park upgrades, City facilities, bicycle and pedestrian infrastructure, and stormwater systems that help manage rainwater and protect local waterways. The City's current five-year CIP includes numerous projects across these categories. Compared to prior CIP cycles, both the number of projects and their level of complexity have increased significantly. As a result, the City has a greater need for qualified outside consultants who can assist City staff with construction management and inspection services to help ensure these projects are completed safely, efficiently, and in accordance with approved plans and regulations.

Construction management and construction inspection services, commonly referred to as CMCI services, help oversee projects during the construction phase. These services include monitoring construction progress, coordinating with contractors and City staff, verifying that work is performed according to the approved design plans, ensuring safety requirements are met, and helping keep projects on schedule and within budget. In July 2023, the City issued a Request for Proposals (RFP) seeking qualified consulting firms to provide on-call CMCI services as needed for various City construction projects. After completing the evaluation process, the City Council approved a professional services agreement with Totum Corp. (Totum) on November 18, 2023, in an amount not to exceed $482,635. The agreement established a contract term through June 30, 2026, with two optional one-year extensions that the City may choose to exercise if additional services are needed. Under the agreement, the first optional extension period would extend the contract through June 30, 2027, and the second optional extension period would extend the contract through June 30, 2028 (Exhibit No. 1).

At the time the agreement was approved, staff developed a preliminary scope of work based on the construction projects that were expected to move forward during the contract period. However, several of those projects were still in early planning or design stages and had not yet been fully defined in terms of schedule, cost, or construction requirements. Since the agreement was executed, Totum has provided construction management and inspection services for several major City facility improvement projects, including the construction of Foisia Park, improvements at Carriage Crest Park, renovations to the City Hall restrooms and kitchenettes, and the installation of the Community Center Coiling Wall. Collectively, these projects represent more than $48 million in construction investment and are considered high-priority improvements to important public facilities used by Carson residents and visitors.

As construction progressed and the level of support required became clearer, the City Council approved two amendments to the original agreement. In January 2025, the City Council approved Amendment No. 1, which increased the contract amount by $400,000, bringing the total contract amount to $882,635 (Exhibit No. 2). In July 2025, the City Council approved Amendment No. 2, which increased the contract amount by an additional $350,000, bringing the revised not-to-exceed contract amount to $1,232,635 (Exhibit No. 3). Since that time, the Foisia Park project and the Community Center Coiling Wall project have reached substantial completion. However, construction at Carriage Crest Park and the City Hall Restrooms and Kitchenettes project is still underway and requires continued construction management and inspection services until the work is fully completed.

During construction, several unforeseen conditions were encountered that could not reasonably be identified during the project design phase. These conditions included unexpected conflicts with underground utility lines, weather-related construction delays, and other site conditions discovered once construction activities began. Addressing these issues required additional coordination between contractors, engineers, and City staff, and in some cases required modifications to construction sequencing or work methods. As a result, the construction schedules for these projects have been extended, and the level of oversight required from the construction management and inspection team has increased in order to ensure that work continues safely, meets all regulatory and quality requirements, and remains aligned with the City's project goals. Because of the extended construction timelines and the additional coordination required to address these unforeseen issues, the remaining balance in the existing agreement is not sufficient to support Totum's services through the completion of the remaining projects.

For these reasons, staff recommends that the City Council approve Amendment No. 3 to the agreement with Totum Corp. This amendment would increase the contract amount by $250,000, bringing the total not-to-exceed contract amount to $1,482,635. The amendment would also extend the original contract term by six months, through December 30, 2026, without exercising the first optional one-year extension (Exhibit No. 4). As a result, the first optional extension period would be reduced from one year to six months, while the second optional extension period would remain unchanged at one year. Approval of this amendment will allow Totum to continue providing the construction management and inspection services necessary to support the successful completion of the City's priority capital improvement projects.

V. FISCAL IMPACT

If the City Council approves the proposed Amendment No. 3, the contract with Totum Corp. will be increased by $250,000. This would raise the total contract amount to a not-to-exceed sum of $1,482,635. The funding for this contract amendment is already included in the City's adopted Fiscal Year 2025-2026 Budget. Specifically, the costs will be paid from the Engineering Professional Services account (Account No. 101-80-820-101-6004), which is used to fund outside professional consulting services that support the City's engineering and construction projects. Because these funds have already been approved as part of the adopted budget, this amendment will not require any additional funding from the City's General Fund beyond what has already been allocated.

VI. EXHIBITS

1. Totum Corp Original Contract
2. Totum Corp Contract Amendment No. 1
3. Totum Corp Contract Amendment No. 2
4. Totum Corp Proposed Contract Amendment No. 3

Attachments

Exhibit 1 - Totum Corp Original Contract

Exhibit 2 - Totum Corp Contract Amendment No. 1

Exhibit 3 - Totum Corp Contract Amendment No. 2

Exhibit 4 - Totum Corp Contract Amendment No. 3

CONTRACT SERVICES AGREEMENT

By and Between

CITY OF CARSON

and

TOTUM CORP

AGREEMENT FOR CONTRACT SERVICES
BETWEEN THE CITY OF CARSON AND
TOTUM CORP

THIS AGREEMENT FOR CONTRACT SERVICES (herein "Agreement") is made and entered into this 14th day of December, 2023 by and between the CITY OF CARSON, a California municipal corporation ("City") and TOTUM CORP, a California corporation ("Consultant"). City and Consultant are sometimes hereinafter individually referred to as "Party" and hereinafter collectively referred to as the "Parties."

RECITALS

A. City has sought, by issuance of a Request for Proposals or Invitation for Bids, the performance of the services defined and described particularly in Article 1 of this Agreement.

B. Consultant, following submission of a proposal or bid for the performance of the services defined and described particularly in Article 1 of this Agreement, was selected by the City to perform those services.

C. Pursuant to the City of Carson's Municipal Code, City has authority to enter into and execute this Agreement.

D. The Parties desire to formalize the selection of Consultant for performance of those services defined and described particularly in Article 1 of this Agreement and desire that the terms of that performance be as particularly defined and described herein.

OPERATIVE PROVISIONS

NOW, THEREFORE, in consideration of the mutual promises and covenants made by the Parties and contained herein and other consideration, the value and adequacy of which are hereby acknowledged, the parties agree as follows:

ARTICLE 1. SERVICES OF CONSULTANT

1.1 Scope of Services.

In compliance with all terms and conditions of this Agreement, the Consultant shall provide those services specified in the "Scope of Services" attached hereto as Exhibit "A" and incorporated herein by this reference, which may be referred to herein as the "services" or "work" hereunder. As a material inducement to the City entering into this Agreement, Consultant represents and warrants that it has the qualifications, experience, and facilities necessary to properly perform the services required under this Agreement in a thorough, competent, and professional manner, and is experienced in performing the work and services contemplated herein. Consultant shall at all times faithfully, competently and to the best of its ability, experience and talent, perform all services described herein. Consultant covenants that it shall follow the highest professional standards in performing the work and services required hereunder and that all materials will be both of good quality as well as fit for the purpose intended. For purposes of this Agreement, the phrase "highest

professional standards" shall mean those standards of practice recognized by one or more first-class firms performing similar work under similar circumstances.

1.2 Consultant's Proposal.

The Scope of Service shall include the Consultant's scope of work or bid which shall be incorporated herein by this reference as though fully set forth herein. In the event of any inconsistency between the terms of such proposal and this Agreement, the terms of this Agreement shall govern.

1.3 Compliance with Law.

Consultant shall keep itself informed concerning, and shall render all services hereunder in accordance with, all ordinances, resolutions, statutes, rules, and regulations of the City and any Federal, State or local governmental entity having jurisdiction in effect at the time service is rendered.

1.4 Licenses, Permits, Fees and Assessments.

Consultant shall obtain at its sole cost and expense such licenses, permits and approvals as may be required by law for the performance of the services required by this Agreement. Consultant shall have the sole obligation to pay for any fees, assessments and taxes, plus applicable penalties and interest, which may be imposed by law and arise from or are necessary for the Consultant's performance of the services required by this Agreement, and shall indemnify, defend and hold harmless City, its officers, employees or agents of City, against any such fees, assessments, taxes, penalties or interest levied, assessed or imposed against City hereunder.

1.5 Familiarity with Work.

By executing this Agreement, Consultant warrants that Consultant (i) has thoroughly investigated and considered the scope of services to be performed, (ii) has carefully considered how the services should be performed, and (iii) fully understands the facilities, difficulties and restrictions attending performance of the services under this Agreement. If the services involve work upon any site, Consultant warrants that Consultant has or will investigate the site and is or will be fully acquainted with the conditions there existing, prior to commencement of services hereunder. Should the Consultant discover any latent or unknown conditions, which will materially affect the performance of the services hereunder, Consultant shall immediately inform the City of such fact and shall not proceed except at Consultant's risk until written instructions are received from the Contract Officer.

1.6 Care of Work.

The Consultant shall adopt reasonable methods during the life of the Agreement to furnish continuous protection to the work, and the equipment, materials, papers, documents, plans, studies and/or other components thereof to prevent losses or damages, and shall be responsible for all such damages, to persons or property, until acceptance of the work by City, except such losses or damages as may be caused by City's own negligence.

1.7 Further Responsibilities of Parties.

Both parties agree to use reasonable care and diligence to perform their respective obligations under this Agreement. Both parties agree to act in good faith to execute all instruments, prepare all documents and take all actions as may be reasonably necessary to carry out the purposes of this Agreement. Unless hereafter specified, neither party shall be responsible for the service of the other.

1.8 Additional Services.

City shall have the right at any time during the performance of the services, without invalidating this Agreement, to order extra work beyond that specified in the Scope of Services or make changes by altering, adding to or deducting from said work. No such extra work may be undertaken unless a written order is first given by the Contract Officer to the Consultant, incorporating therein any adjustment in (i) the Contract Sum for the actual costs of the extra work, and/or (ii) the time to perform this Agreement, which said adjustments are subject to the written approval of the Consultant. Any increase in compensation of up to ten percent (10%) of the Contract Sum or $25,000, whichever is less; or, in the time to perform of up to one hundred eighty (180) days, may be approved by the Contract Officer. Any greater increases, taken either separately or cumulatively, must be approved by the City Council. It is expressly understood by Consultant that the provisions of this Section shall not apply to services specifically set forth in the Scope of Services. Consultant hereby acknowledges that it accepts the risk that the services to be provided pursuant to the Scope of Services may be more costly or time consuming than Consultant anticipates and that Consultant shall not be entitled to additional compensation therefor. City may in its sole and absolute discretion have similar work done by other contractors. No claims for an increase in the Contract Sum or time for performance shall be valid unless the procedures established in this Section are followed.

1.9 Special Requirements.

Additional terms and conditions of this Agreement, if any, which are made a part hereof are set forth in the "Special Requirements" attached hereto as Exhibit "B" and incorporated herein by this reference. In the event of a conflict between the provisions of Exhibit "B" and any other provisions of this Agreement, the provisions of Exhibit "B" shall govern.

ARTICLE 2. COMPENSATION AND METHOD OF PAYMENT.

2.1 Contract Sum.

Subject to any limitations set forth in this Agreement, City agrees to pay Consultant the amounts specified in the "Schedule of Compensation" attached hereto as Exhibit "C" and incorporated herein by this reference. The total compensation, including reimbursement for actual expenses, shall not exceed Four Hundred Eighty Two Thousand Six Hundred Thirty Five Dollars and Zero Cents (**$482,635.00**) (the "Contract Sum"), unless additional compensation is approved pursuant to Section 1.8. In the event City elects to exercise its options to extend the Term pursuant to Section 3.4 hereof, the Contract Sum will increase consistent with the additional not to exceed compensation applicable to each Extension Term, as set out in in Exhibit "C."

2.2 Method of Compensation.

The method of compensation may include: (i) a lump sum payment upon completion; (ii) payment in accordance with specified tasks or the percentage of completion of the services, less contract retention; (iii) payment for time and materials based upon the Consultant's rates as specified in the Schedule of Compensation, provided that (a) time estimates are provided for the performance of sub tasks, (b) contract retention is maintained, and (c) the Contract Sum is not exceeded; or (iv) such other methods as may be specified in the Schedule of Compensation.

2.3 Reimbursable Expenses.

Compensation may include reimbursement for actual and necessary expenditures for reproduction costs, telephone expenses, and travel expenses approved by the Contract Officer in advance, or actual subcontractor expenses of an approved subcontractor pursuant to Section 4.5, and only if specified in the Schedule of Compensation. The Contract Sum shall include the attendance of Consultant at all project meetings reasonably deemed necessary by the City. Coordination of the performance of the work with City is a critical component of the services. If Consultant is required to attend additional meetings to facilitate such coordination, Consultant shall not be entitled to any additional compensation for attending said meetings.

2.4 Invoices.

Each month Consultant shall furnish to City an original invoice for all work performed and expenses incurred during the preceding month in a form approved by City's Director of Finance. By submitting an invoice for payment under this Agreement, Consultant is certifying compliance with all provisions of the Agreement. The invoice shall detail charges for all necessary and actual expenses by the following categories: labor (by sub-category), travel, materials, equipment, supplies, and sub-contractor contracts. Sub-contractor charges shall also be detailed by such categories. Consultant shall not invoice City for any duplicate services performed by more than one person.

City shall independently review each invoice submitted by the Consultant to determine whether the work performed and expenses incurred are in compliance with the provisions of this Agreement. Except as to any charges for work performed or expenses incurred by Consultant which are disputed by City, or as provided in Section 7.3, City will use its best efforts to cause Consultant to be paid within forty-five (45) days of receipt of Consultant's correct and undisputed invoice; however, Consultant acknowledges and agrees that due to City warrant run procedures, the City cannot guarantee that payment will occur within this time period. In the event any charges or expenses are disputed by City, the original invoice shall be returned by City to Consultant for correction and resubmission. Review and payment by City for any invoice provided by the Consultant shall not constitute a waiver of any rights or remedies provided herein or any applicable law.

2.5 Waiver.

Payment to Consultant for work performed pursuant to this Agreement shall not be deemed to waive any defects in work performed by Consultant.

ARTICLE 3. PERFORMANCE SCHEDULE

3.1 Time of Essence.

Time is of the essence in the performance of this Agreement.

3.2 Schedule of Performance.

Consultant shall commence the services pursuant to this Agreement upon receipt of a written notice to proceed and shall perform all services within the time period(s) established in the "Schedule of Performance" attached hereto as Exhibit "D" and incorporated herein by this reference. When requested by the Consultant, extensions to the time period(s) specified in the Schedule of Performance may be approved in writing by the Contract Officer but not exceeding one hundred eighty (180) days cumulatively.

3.3 Force Majeure.

The time period(s) specified in the Schedule of Performance for performance of the services rendered pursuant to this Agreement shall be extended because of any delays due to unforeseeable causes beyond the control and without the fault or negligence of the Consultant, including, but not restricted to, acts of God or of the public enemy, unusually severe weather, fires, earthquakes, floods, epidemics, quarantine restrictions, riots, strikes, freight embargoes, wars, litigation, and/or acts of any governmental agency, including the City, if the Consultant shall within ten (10) days of the commencement of such delay notify the Contract Officer in writing of the causes of the delay. The Contract Officer shall ascertain the facts and the extent of delay, and extend the time for performing the services for the period of the enforced delay when and if in the judgment of the Contract Officer such delay is justified. The Contract Officer's determination shall be final and conclusive upon the parties to this Agreement. In no event shall Consultant be entitled to recover damages against the City for any delay in the performance of this Agreement, however caused, Consultant's sole remedy being extension of the Agreement pursuant to this Section.

3.4 Term.

Unless earlier terminated in accordance with Article 7 of this Agreement, this Agreement shall continue in full force and effect until completion of the services but not exceeding one (1) years from the date hereof, except as otherwise provided in the Schedule of Performance (Exhibit "D").

ARTICLE 4. COORDINATION OF WORK

4.1 Representatives and Personnel of Consultant.

The following principals of Consultant ("Principals") are hereby designated as being the principals and representatives of Consultant authorized to act in its behalf with respect to the work specified herein and make all decisions in connection therewith:

Danny Kaye, CCM PMP, LEED AP	Principal CM-in-Charge
(Name)	(Title)

Giulio Zavolta	CEO
(Name)	(Title)
(Name)	(Title)

It is expressly understood that the experience, knowledge, capability and reputation of the foregoing principals were a substantial inducement for City to enter into this Agreement. Therefore, the foregoing principals shall be responsible during the term of this Agreement for directing all activities of Consultant and devoting sufficient time to personally supervise the services hereunder. All personnel of Consultant, and any authorized agents, shall at all times be under the exclusive direction and control of the Principals. For purposes of this Agreement, the foregoing Principals may not be replaced nor may their responsibilities be substantially reduced by Consultant without the express written approval of City. Additionally, Consultant shall utilize only competent personnel to perform services pursuant to this Agreement. Consultant shall make every reasonable effort to maintain the stability and continuity of Consultant's staff and subcontractors, if any, assigned to perform the services required under this Agreement. Consultant shall notify City of any changes in Consultant's staff and subcontractors, if any, assigned to perform the services required under this Agreement, prior to and during any such performance.

4.2 Status of Consultant.

Consultant shall have no authority to bind City in any manner, or to incur any obligation, debt or liability of any kind on behalf of or against City, whether by contract or otherwise, unless such authority is expressly conferred under this Agreement or is otherwise expressly conferred in writing by City. Consultant shall not at any time or in any manner represent that Consultant or any of Consultant's officers, employees, or agents are in any manner officials, officers, employees or agents of City. Neither Consultant, nor any of Consultant's officers, employees or agents, shall obtain any rights to retirement, health care or any other benefits which may otherwise accrue to City's employees. Consultant expressly waives any claim Consultant may have to any such rights.

4.3 Contract Officer.

The Contract Officer shall be Raymond Velasco, P.E., Public Works Operations Manager, or as otherwise designated by the City Manager. It shall be the Consultant's responsibility to assure that the Contract Officer is kept informed of the progress of the performance of the services and the Consultant shall refer any decisions which must be made by City to the Contract Officer. Unless otherwise specified herein, any approval of City required hereunder shall mean the approval of the Contract Officer. The Contract Officer shall have authority, if specified in writing by the City Manager, to sign all documents on behalf of the City required hereunder to carry out the terms of this Agreement.

4.4 Independent Consultant.

Neither the City nor any of its employees shall have any control over the manner, mode or means by which Consultant, its agents or employees, perform the services required herein, except as otherwise set forth herein. City shall have no voice in the selection, discharge, supervision or control of Consultant's employees, servants, representatives or agents, or in fixing their number,

compensation or hours of service. Consultant shall perform all services required herein as an independent contractor of City and shall remain at all times as to City a wholly independent contractor with only such obligations as are consistent with that role. Consultant shall not at any time or in any manner represent that it or any of its agents or employees are agents or employees of City. City shall not in any way or for any purpose become or be deemed to be a partner of Consultant in its business or otherwise or a joint venturer or a member of any joint enterprise with Consultant.

4.5 Prohibition Against Subcontracting or Assignment.

The experience, knowledge, capability and reputation of Consultant, its principals and employees were a substantial inducement for the City to enter into this Agreement. Therefore, Consultant shall not contract with any other entity to perform in whole or in part the services required hereunder without the express written approval of the City. In addition, neither this Agreement nor any interest herein may be transferred, assigned, conveyed, hypothecated or encumbered voluntarily or by operation of law, whether for the benefit of creditors or otherwise, without the prior written approval of City. Transfers restricted hereunder shall include the transfer to any person or group of persons acting in concert of more than twenty five percent (25%) of the present ownership and/or control of Consultant, taking all transfers into account on a cumulative basis. In the event of any such unapproved transfer, including any bankruptcy proceeding, this Agreement shall be void. No approved transfer shall release the Consultant or any surety of Consultant of any liability hereunder without the express consent of City.

ARTICLE 5. INSURANCE AND INDEMNIFICATION

5.1 Insurance Coverages.

The Consultant shall procure and maintain, at its sole cost and expense, in a form and content satisfactory to City, during the entire term of this Agreement including any extension thereof, the following policies of insurance which shall cover all elected and appointed officers, employees and agents of City:

(a) General Liability Insurance (Coverage Form ISO CGL CG 00 01 or equivalent). A policy of comprehensive general liability insurance written on a per occurrence basis for bodily injury, personal injury and property damage. The policy of insurance shall be in an amount not less than $1,000,000.00 per occurrence or if a general aggregate limit is used, then the general aggregate limit shall be twice the occurrence limit.

(b) Worker's Compensation Insurance. A policy of worker's compensation insurance in such amount as will fully comply with the laws of the State of California and which shall indemnify, insure and provide legal defense for the Consultant against any loss, claim or damage arising from any injuries or occupational diseases occurring to any worker employed by or any persons retained by the Consultant in the course of carrying out the work or services contemplated in this Agreement, with Employer's Liability insurance coverage limits of at least $1,000,000.00.

(c) Automotive Insurance (Coverage Form ISO CA 00 01 including "any auto" and endorsement CA 0025 or equivalent). A policy of comprehensive automobile liability

insurance written on a per occurrence for bodily injury and property damage in an amount not less than $1,000,000. Said policy shall include coverage for owned, non-owned, leased, hired cars and any automobile.

(d) Professional Liability. Professional liability insurance appropriate to the Consultant's profession, as determined by the City's Risk Manager, provided that the limits shall be no less than $1,000,000 per claim and no less than $1,000,000 general aggregate. This coverage may be written on a "claims made" basis, and must include coverage for contractual liability. The professional liability insurance required by this Agreement must be endorsed to be applicable to claims based upon, arising out of or related to services performed under this Agreement. The insurance must be maintained for at least 5 consecutive years following the completion of Consultant's services or the termination of this Agreement. During this additional 5-year period, Consultant shall annually and upon request of the City submit written evidence of this continuous coverage.

(e) Subcontractors. Consultant shall include all subcontractors as insureds under its policies or shall furnish separate certificates and certified endorsements for each subcontractor. All coverages for subcontractors shall include all of the requirements stated herein.

(f) Additional Insurance. Policies of such other insurance, as may be required in the Special Requirements in Exhibit "B".

(g) Broader Coverages and Higher Limits. Notwithstanding anything else herein to the contrary, if Consultant maintains broader coverages and/or higher limits than the minimums shown above, the City requires and shall be entitled to the broader coverages and/or higher limits maintained by Consultant.

5.2 General Insurance Requirements.

All of the above policies of insurance shall be primary insurance and shall name the City, its elected and appointed officers, employees and agents as additional insureds and any insurance maintained by City or its officers, employees or agents may apply in excess of, and not contribute with Consultant's insurance. The insurer is deemed hereof to waive all rights of subrogation and contribution it may have against the City, its officers, employees and agents and their respective insurers. Moreover, the insurance policy must specify that where the primary insured does not satisfy the self-insured retention, any additional insured may satisfy the self-insured retention.

All of said policies of insurance shall provide that said insurance may not be amended or cancelled by the insurer or any party hereto without providing thirty (30) days prior written notice by certified mail return receipt requested to the City. In the event any of said policies of insurance are cancelled, the Consultant shall, prior to the cancellation date, submit new evidence of insurance in conformance with Section 5.1 to the Contract Officer.

No work or services under this Agreement shall commence until the Consultant has provided the City with Certificates of Insurance, additional insured endorsement forms or appropriate insurance binders evidencing the above insurance coverages and said Certificates of Insurance or binders are approved by the City. City reserves the right to inspect complete, certified copies of and endorsements to all required insurance policies at any time. Any failure to comply

with the reporting or other provisions of the policies including breaches or warranties shall not affect coverage provided to City.

All certificates shall name the City as additional insured (providing the appropriate endorsement) and shall conform to the following "cancellation" notice:

CANCELLATION:

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATED THEREOF, THE ISSUING COMPANY SHALL MAIL THIRTY (30)-DAY ADVANCE WRITTEN NOTICE TO CERTIFICATE HOLDER NAMED HEREIN.

[to be initialed] _____
Consultant Initials

City, its respective elected and appointed officers, directors, officials, employees, agents and volunteers are to be covered as additional insureds as respects: liability arising out of activities Consultant performs; products and completed operations of Consultant; premises owned, occupied or used by Consultant; or any automobiles owned, leased, hired or borrowed by Consultant. The coverage shall contain no special limitations on the scope of protection afforded to City, and their respective elected and appointed officers, officials, employees or volunteers. Consultant's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.

Any deductibles or self-insured retentions must be declared to and approved by City. At the option of City, either the insurer shall reduce or eliminate such deductibles or self-insured retentions as respects City or its respective elected or appointed officers, officials, employees and volunteers or the Consultant shall procure a bond guaranteeing payment of losses and related investigations, claim administration, defense expenses and claims. The Consultant agrees that the requirement to provide insurance shall not be construed as limiting in any way the extent to which the Consultant may be held responsible for the payment of damages to any persons or property resulting from the Consultant's activities or the activities of any person or persons for which the Consultant is otherwise responsible nor shall it limit the Consultant's indemnification liabilities as provided in Section 5.3.

In the event the Consultant subcontracts any portion of the work in compliance with Section 4.5 of this Agreement, the contract between the Consultant and such subcontractor shall require the subcontractor to maintain the same policies of insurance that the Consultant is required to maintain pursuant to Section 5.1, and such certificates and endorsements shall be provided to City.

5.3 Indemnification.

To the full extent permitted by law, Consultant agrees to indemnify, defend and hold harmless the City, its officers, employees and agents ("Indemnified Parties") against, and will hold and save them and each of them harmless from, any and all actions, either judicial, administrative,

arbitration or regulatory claims, damages to persons or property, losses, costs, penalties, obligations, errors, omissions or liabilities whether actual or threatened (herein "claims or liabilities") that may be asserted or claimed by any person, firm or entity arising out of or in connection with the negligent performance of the work, operations or activities provided herein of Consultant, its officers, employees, agents, subcontractors, or invitees, or any individual or entity for which Consultant is legally liable ("indemnitors"), or arising from Consultant's or indemnitors' reckless or willful misconduct, or arising from Consultant's or indemnitors' negligent performance of or failure to perform any term, provision, covenant or condition of this Agreement, and in connection therewith:

(a) Consultant will defend any action or actions filed in connection with any of said claims or liabilities and will pay all costs and expenses, including legal costs and attorneys' fees incurred in connection therewith;

(b) Consultant will promptly pay any judgment rendered against the City, its officers, agents or employees for any such claims or liabilities arising out of or in connection with the negligent performance of or failure to perform such work, operations or activities of Consultant hereunder; and Consultant agrees to save and hold the City, its officers, agents, and employees harmless therefrom;

(c) In the event the City, its officers, agents or employees is made a party to any action or proceeding filed or prosecuted against Consultant for such damages or other claims arising out of or in connection with the negligent performance of or failure to perform the work, operation or activities of Consultant hereunder, Consultant agrees to pay to the City, its officers, agents or employees, any and all costs and expenses incurred by the City, its officers, agents or employees in such action or proceeding, including but not limited to, legal costs and attorneys' fees.

Consultant shall incorporate similar indemnity agreements with its subcontractors and if it fails to do so Consultant shall be fully responsible to indemnify City hereunder therefore, and failure of City to monitor compliance with these provisions shall not be a waiver hereof. This indemnification includes claims or liabilities arising from any negligent or wrongful act, error or omission, or reckless or willful misconduct of Consultant in the performance of professional services hereunder. The provisions of this Section do not apply to claims or liabilities occurring as a result of City's sole negligence or willful acts or omissions, but, to the fullest extent permitted by law, shall apply to claims and liabilities resulting in part from City's negligence, except that design professionals' indemnity hereunder shall be limited to claims and liabilities arising out of the negligence, recklessness or willful misconduct of the design professional. The indemnity obligation shall be binding on successors and assigns of Consultant and shall survive termination of this Agreement.

5.4 Sufficiency of Insurer.

Insurance required by this Agreement shall be satisfactory only if issued by companies qualified to do business in California, rated "A-" or better in the most recent edition of Best Rating Guide, The Key Rating Guide or in the Federal Register, and only if they are of a financial category Class VII or better, unless such requirements are waived by the Risk Manager of the City ("Risk

Manager") due to unique circumstances. If this Agreement continues for more than 3 years duration, or in the event the risk manager determines that the work or services to be performed under this Agreement creates an increased or decreased risk of loss to the City, the Consultant agrees that the minimum limits of the insurance policies may be changed accordingly upon receipt of written notice from the Risk Manager.

ARTICLE 6. RECORDS, REPORTS, AND RELEASE OF INFORMATION

6.1 Records.

Consultant shall keep, and require subcontractors to keep, such ledgers, books of accounts, invoices, vouchers, canceled checks, reports, studies or other documents relating to the disbursements charged to City and services performed hereunder (the "books and records"), as shall be necessary to perform the services required by this Agreement and enable the Contract Officer to evaluate the performance of such services. Any and all such documents shall be maintained in accordance with generally accepted accounting principles and shall be complete and detailed. The Contract Officer shall have full and free access to such books and records at all times during normal business hours of City, including the right to inspect, copy, audit and make records and transcripts from such records. Such records shall be maintained for a period of three (3) years following completion of the services hereunder, and the City shall have access to such records in the event any audit is required. In the event of dissolution of Consultant's business, custody of the books and records may be given to City, and access shall be provided by Consultant's successor in interest. Notwithstanding the above, the Consultant shall fully cooperate with the City in providing access to the books and records if a public records request is made and disclosure is required by law including but not limited to the California Public Records Act.

6.2 Reports.

Consultant shall periodically prepare and submit to the Contract Officer such reports concerning the performance of the services required by this Agreement as the Contract Officer shall require. Consultant hereby acknowledges that the City is greatly concerned about the cost of work and services to be performed pursuant to this Agreement. For this reason, Consultant agrees that if Consultant becomes aware of any facts, circumstances, techniques, or events that may or will materially increase or decrease the cost of the work or services contemplated herein or, if Consultant is providing design services, the cost of the project being designed, Consultant shall promptly notify the Contract Officer of said fact, circumstance, technique or event and the estimated increased or decreased cost related thereto and, if Consultant is providing design services, the estimated increased or decreased cost estimate for the project being designed.

6.3 Ownership of Documents.

All drawings, specifications, maps, designs, photographs, studies, surveys, data, notes, computer files, reports, records, documents and other materials (the "documents and materials") prepared by Consultant, its employees, subcontractors and agents in the performance of this Agreement shall be the property of City and shall be delivered to City upon request of the Contract Officer or upon the termination of this Agreement, and Consultant shall have no claim for further employment or additional compensation as a result of the exercise by City of its full rights of

ownership use, reuse, or assignment of the documents and materials hereunder. Any use, reuse or assignment of such completed documents for other projects and/or use of uncompleted documents without specific written authorization by the Consultant will be at the City's sole risk and without liability to Consultant, and Consultant's guarantee and warranties shall not extend to such use, reuse or assignment. Consultant may retain copies of such documents for its own use. Consultant shall have the right to use the concepts embodied therein. All subcontractors shall provide for assignment to City of any documents or materials prepared by them, and in the event Consultant fails to secure such assignment, Consultant shall indemnify City for all damages resulting therefrom. Moreover, with respect to any documents and materials that may qualify as "works made for hire" as defined in 17 U.S.C. § 101, such documents and materials are hereby deemed "works made for hire" for the City.

6.4 Confidentiality and Release of Information.

(a) All information gained or work product produced by Consultant in performance of this Agreement shall be considered confidential, unless such information is in the public domain or already known to Consultant. Consultant shall not release or disclose any such information or work product to persons or entities other than City without prior written authorization from the Contract Officer.

(b) Consultant, its officers, employees, agents or subcontractors, shall not, without prior written authorization from the Contract Officer or unless requested by the City Attorney, voluntarily provide documents, declarations, letters of support, testimony at depositions, response to interrogatories or other information concerning the work performed under this Agreement. Response to a subpoena or court order shall not be considered "voluntary" provided Consultant gives City notice of such court order or subpoena.

(c) If Consultant, or any officer, employee, agent or subcontractor of Consultant, provides any information or work product in violation of this Agreement, then City shall have the right to reimbursement and indemnity from Consultant for any damages, costs and fees, including attorneys fees, caused by or incurred as a result of Consultant's conduct.

(d) Consultant shall promptly notify City should Consultant, its officers, employees, agents or subcontractors be served with any summons, complaint, subpoena, notice of deposition, request for documents, interrogatories, request for admissions or other discovery request, court order or subpoena from any party regarding this Agreement and the work performed there under. City retains the right, but has no obligation, to represent Consultant or be present at any deposition, hearing or similar proceeding. Consultant agrees to cooperate fully with City and to provide City with the opportunity to review any response to discovery requests provided by Consultant. However, this right to review any such response does not imply or mean the right by City to control, direct, or rewrite said response.

ARTICLE 7. ENFORCEMENT OF AGREEMENT AND TERMINATION

7.1 California Law.

This Agreement shall be interpreted, construed and governed both as to validity and to performance of the parties in accordance with the laws of the State of California. Legal actions

concerning any dispute, claim or matter arising out of or in relation to this Agreement shall be instituted in the Superior Court of the County of Los Angeles, State of California, or any other appropriate court in such county, and Consultant covenants and agrees to submit to the personal jurisdiction of such court in the event of such action. In the event of litigation in a U.S. District Court, venue shall lie exclusively in the Central District of California, in the County of Los Angeles, State of California.

7.2 Disputes; Default.

In the event that Consultant is in default under the terms of this Agreement, the City shall not have any obligation or duty to continue compensating Consultant for any work performed after the date of default. Instead, the City may give notice to Consultant of the default and the reasons for the default. The notice shall include the timeframe in which Consultant may cure the default. This timeframe is presumptively thirty (30) days, but may be extended, though not reduced, if circumstances warrant. During the period of time that Consultant is in default, the City shall hold all invoices and shall, when the default is cured, proceed with payment on the invoices. In the alternative, the City may, in its sole discretion, elect to pay some or all of the outstanding invoices during the period of default. If Consultant does not cure the default, the City may take necessary steps to terminate this Agreement under this Article. Any failure on the part of the City to give notice of the Consultant's default shall not be deemed to result in a waiver of the City's legal rights or any rights arising out of any provision of this Agreement.

7.3 Retention of Funds.

Consultant hereby authorizes City to deduct from any amount payable to Consultant (whether or not arising out of this Agreement) (i) any amounts the payment of which may be in dispute hereunder or which are necessary to compensate City for any losses, costs, liabilities, or damages suffered by City, and (ii) all amounts for which City may be liable to third parties, by reason of Consultant's acts or omissions in performing or failing to perform Consultant's obligation under this Agreement. In the event that any claim is made by a third party, the amount or validity of which is disputed by Consultant, or any indebtedness shall exist which shall appear to be the basis for a claim of lien, City may withhold from any payment due, without liability for interest because of such withholding, an amount sufficient to cover such claim. The failure of City to exercise such right to deduct or to withhold shall not, however, affect the obligations of the Consultant to insure, indemnify, and protect City as elsewhere provided herein.

7.4 Waiver.

Waiver by any party to this Agreement of any term, condition, or covenant of this Agreement shall not constitute a waiver of any other term, condition, or covenant. Waiver by any party of any breach of the provisions of this Agreement shall not constitute a waiver of any other provision or a waiver of any subsequent breach or violation of any provision of this Agreement. Acceptance by City of any work or services by Consultant shall not constitute a waiver of any of the provisions of this Agreement. No delay or omission in the exercise of any right or remedy by a non-defaulting party on any default shall impair such right or remedy or be construed as a waiver. Any waiver by either party of any default must be in writing and shall not be a waiver of any other default concerning the same or any other provision of this Agreement.

7.5 Rights and Remedies are Cumulative.

Except with respect to rights and remedies expressly declared to be exclusive in this Agreement, the rights and remedies of the parties are cumulative and the exercise by either party of one or more of such rights or remedies shall not preclude the exercise by it, at the same or different times, of any other rights or remedies for the same default or any other default by the other party.

7.6 Legal Action.

In addition to any other rights or remedies, either party may take legal action, in law or in equity, to cure, correct or remedy any default, to recover damages for any default, to compel specific performance of this Agreement, to obtain declaratory or injunctive relief, or to obtain any other remedy consistent with the purposes of this Agreement. Notwithstanding any contrary provision herein, Consultant shall file a statutory claim pursuant to Government Code Sections 905 et. seq. and 910 et. seq., in order to pursue a legal action under this Agreement.

7.7 Termination Prior to Expiration of Term.

This Section shall govern any termination of this Agreement except as specifically provided in the following Section for termination for cause. The City reserves the right to terminate this Agreement at any time, with or without cause, upon thirty (30) days' written notice to Consultant, except that where termination is due to the fault of the Consultant, the period of notice may be such shorter time as may be determined by the Contract Officer. In addition, the Consultant reserves the right to terminate this Agreement at any time, with or without cause, upon sixty (60) days' written notice to City, except that where termination is due to the fault of the City, the period of notice may be such shorter time as the Consultant may determine. Upon receipt of any notice of termination, Consultant shall immediately cease all services hereunder except such as may be specifically approved by the Contract Officer. Except where the Consultant has initiated termination, the Consultant shall be entitled to compensation for all services rendered prior to the effective date of the notice of termination and for any services authorized by the Contract Officer thereafter in accordance with the Schedule of Compensation or such as may be approved by the Contract Officer, except as provided in Section 7.3. In the event the Consultant has initiated termination, the Consultant shall be entitled to compensation only for the reasonable value of the work product actually produced hereunder. In the event of termination without cause pursuant to this Section, the terminating party need not provide the non-terminating party with the opportunity to cure pursuant to Section 7.2.

7.8 Termination for Default of Consultant.

If termination is due to the failure of the Consultant to fulfill its obligations under this Agreement, City may, after compliance with the provisions of Section 7.2, take over the work and prosecute the same to completion by contract or otherwise, and the Consultant shall be liable to the extent that the total cost for completion of the services required hereunder exceeds the compensation herein stipulated (provided that the City shall use reasonable efforts to mitigate such damages), and City may withhold any payments to the Consultant for the purpose of set-off or partial payment of the amounts owed the City as previously stated.

7.9 Attorneys' Fees.

If either party to this Agreement is required to initiate or defend or made a party to any action or proceeding in any way connected with this Agreement, the prevailing party in such action or proceeding, in addition to any other relief which may be granted, whether legal or equitable, shall be entitled to reasonable attorney's fees. Attorney's fees shall include attorney's fees on any appeal, and in addition a party entitled to attorney's fees shall be entitled to all other reasonable costs for investigating such action, taking depositions and discovery and all other necessary costs the court allows which are incurred in such litigation. All such fees shall be deemed to have accrued on commencement of such action and shall be enforceable whether or not such action is prosecuted to judgment.

ARTICLE 8. CITY OFFICERS AND EMPLOYEES: NON-DISCRIMINATION

8.1 Non-liability of City Officers and Employees.

No officer or employee of the City shall be personally liable to the Consultant, or any successor in interest, in the event of any default or breach by the City or for any amount which may become due to the Consultant or to its successor, or for breach of any obligation of the terms of this Agreement.

8.2 Conflict of Interest.

Consultant covenants that neither it, nor any officer or principal of its firm, has or shall acquire any interest, directly or indirectly, which would conflict in any manner with the interests of City or which would in any way hinder Consultant's performance of services under this Agreement. Consultant further covenants that in the performance of this Agreement, no person having any such interest shall be employed by it as an officer, employee, agent or subcontractor without the express written consent of the Contract Officer. Consultant agrees to at all times avoid conflicts of interest or the appearance of any conflicts of interest with the interests of City in the performance of this Agreement.

No officer or employee of the City shall have any financial interest, direct or indirect, in this Agreement nor shall any such officer or employee participate in any decision relating to the Agreement which affects her/his financial interest or the financial interest of any corporation, partnership or association in which (s)he is, directly or indirectly, interested, in violation of any State statute or regulation. The Consultant warrants that it has not paid or given and will not pay or give any third party any money or other consideration for obtaining this Agreement.

8.3 Covenant Against Discrimination.

Consultant covenants that, by and for itself, its heirs, executors, assigns, and all persons claiming under or through them, that there shall be no discrimination against or segregation of, any person or group of persons on account of race, color, creed, religion, sex, gender, sexual orientation, marital status, national origin, ancestry or other protected class in the performance of this Agreement. Consultant shall take affirmative action to insure that applicants are employed and that employees are treated during employment without regard to their race, color, creed, religion, sex, gender, sexual orientation, marital status, national origin, ancestry or other protected class.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the date and year first-above written.

CITY:

CITY OF CARSON, a municipal corporation

Lula Davis-Holmes, Mayor

ATTEST:

Dr. Khaleah K. Bradshaw, City Clerk

APPROVED AS TO FORM:
ALESHIRE & WYNDER, LLP

Sunny K. Soltani, City Attorney
[rjl]

CONSULTANT:

TOTUM CORP,
a California corporation

By:
Name: DANNY KAYE
Title: PRESIDENT

By:
Name: JULIO ZAXOLTA
Title: CEO/SECRETARY
Address: 15130 Ventura Blvd, Unit A
Sherman Oaks, California 91403

Two corporate officer signatures required when Consultant is a corporation, with one signature required from each of the following groups: 1) Chairman of the Board, President or any Vice President; and 2) Secretary, any Assistant Secretary, Chief Financial Officer or any Assistant Treasurer. CONSULTANT'S SIGNATURES SHALL BE DULY NOTARIZED, AND APPROPRIATE ATTESTATIONS SHALL BE INCLUDED AS MAY BE REQUIRED BY THE BYLAWS, ARTICLES OF INCORPORATION, OR OTHER RULES OR REGULATIONS APPLICABLE TO CONSULTANT'S BUSINESS ENTITY.

8.4 Unauthorized Aliens.

Consultant hereby promises and agrees to comply with all of the provisions of the Federal Immigration and Nationality Act, 8 U.S.C.A. §§ 1101, *et seq.*, as amended, and in connection therewith, shall not employ unauthorized aliens as defined therein. Should Consultant so employ such unauthorized aliens for the performance of work and/or services covered by this Agreement, and should any liability or sanctions be imposed against City for such use of unauthorized aliens, Consultant hereby agrees to and shall reimburse City for the cost of all such liabilities or sanctions imposed, together with any and all costs, including attorneys' fees, incurred by City.

ARTICLE 9. MISCELLANEOUS PROVISIONS

9.1 Notices.

Any notice, demand, request, document, consent, approval, or communication either party desires or is required to give to the other party or any other person shall be in writing and either served personally or sent by prepaid, first-class mail, in the case of the City, to the City Manager and to the attention of the Contract Officer (with her/his name and City title), City of Carson, 701 East Carson, Carson, California 90745 and in the case of the Consultant, to the person(s) at the address designated on the execution page of this Agreement. Either party may change its address by notifying the other party of the change of address in writing. Notice shall be deemed communicated at the time personally delivered or in seventy-two (72) hours from the time of mailing if mailed as provided in this Section.

9.2 Interpretation.

The terms of this Agreement shall be construed in accordance with the meaning of the language used and shall not be construed for or against either party by reason of the authorship of this Agreement or any other rule of construction which might otherwise apply.

9.3 Counterparts.

This Agreement may be executed in any number of counterparts and each of such counterparts shall for all purposes be deemed to be an original, whether the signatures are originals, electronic, facsimiles or digital. All such counterparts shall together constitute but one and the same Agreement.

9.4 Integration; Amendment.

This Agreement including the attachments hereto is the entire, complete and exclusive expression of the understanding of the parties. It is understood that there are no oral agreements between the parties hereto affecting this Agreement and this Agreement supersedes and cancels any and all previous negotiations, arrangements, agreements and understandings, if any, between the parties, and none shall be used to interpret this Agreement. No amendment to or modification of this Agreement shall be valid unless made in writing and approved by the Consultant and by the City Council. The parties agree that this requirement for written modifications cannot be waived and that any attempted waiver shall be void.

9.5 Severability.

In the event that any one or more of the phrases, sentences, clauses, paragraphs, or sections contained in this Agreement shall be declared invalid or unenforceable by a valid judgment or decree of a court of competent jurisdiction, such invalidity or unenforceability shall not affect any of the remaining phrases, sentences, clauses, paragraphs, or sections of this Agreement which are hereby declared as severable and shall be interpreted to carry out the intent of the parties hereunder unless the invalid provision is so material that its invalidity deprives either party of the basic benefit of their bargain or renders this Agreement meaningless.

9.6 Warranty & Representation of Non-Collusion.

No official, officer, or employee of City has any financial interest, direct or indirect, in this Agreement, nor shall any official, officer, or employee of City participate in any decision relating to this Agreement which may affect his/her financial interest or the financial interest of any corporation, partnership, or association in which (s)he is directly or indirectly interested, or in violation of any corporation, partnership, or association in which (s)he is directly or indirectly interested, or in violation of any State or municipal statute or regulation. The determination of "financial interest" shall be consistent with State law and shall not include interests found to be "remote" or "non-interests" pursuant to Government Code Sections 1091 or 1091.5. Consultant warrants and represents that it has not paid or given, and will not pay or give, to any third party including, but not limited to, any City official, officer, or employee, any money, consideration, or other thing of value as a result or consequence of obtaining or being awarded any agreement. Consultant further warrants and represents that (s)he/it has not engaged in any act(s), omission(s), or other conduct or collusion that would result in the payment of any money, consideration, or other thing of value to any third party including, but not limited to, any City official, officer, or employee, as a result of consequence of obtaining or being awarded any agreement. Consultant is aware of and understands that any such act(s), omission(s) or other conduct resulting in such payment of money, consideration, or other thing of value will render this Agreement void and of no force or effect.

Consultant's Authorized Initials ____

9.7 Corporate Authority.

The persons executing this Agreement on behalf of the parties hereto warrant that (i) such party is duly organized and existing, (ii) they are duly authorized to execute and deliver this Agreement on behalf of said party, (iii) by so executing this Agreement, such party is formally bound to the provisions of this Agreement, and (iv) the entering into this Agreement does not violate any provision of any other Agreement to which said party is bound. This Agreement shall be binding upon the heirs, executors, administrators, successors and assigns of the parties.

[SIGNATURES ON FOLLOWING PAGE]

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the date and year first-above written.

CITY:

CITY OF CARSON, a municipal corporation

Lula Davis-Holmes, Mayor

ATTEST:

Dr. Khaleah K. Bradshaw, City Clerk

APPROVED AS TO FORM:
ALESHIRE & WYNDER, LLP

Sunny K. Soltani, City Attorney
[rjl]

CONSULTANT:

TOTUM CORP,
a California corporation

By: _____
Name: DANNY KAYE
Title: PRESIDENT

By: _____
Name: JULIO ZAVOLTA
Title: CFO
Address: 15130 Ventura Blvd, Unit A
Sherman Oaks, California 91403

Two corporate officer signatures required when Consultant is a corporation, with one signature required from each of the following groups: 1) Chairman of the Board, President or any Vice President; and 2) Secretary, any Assistant Secretary, Chief Financial Officer or any Assistant Treasurer. CONSULTANT'S SIGNATURES SHALL BE DULY NOTARIZED, AND APPROPRIATE ATTESTATIONS SHALL BE INCLUDED AS MAY BE REQUIRED BY THE BYLAWS, ARTICLES OF INCORPORATION, OR OTHER RULES OR REGULATIONS APPLICABLE TO CONSULTANT'S BUSINESS ENTITY.

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy or validity of that document.

STATE OF CALIFORNIA

COUNTY OF LOS ANGELES

On _____, 2023 before me, _____, personally appeared _____, proved to me on the basis of satisfactory evidence to be the person(s) whose names(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: _____

OPTIONAL

Though the data below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent reattachment of this form.

CAPACITY CLAIMED BY SIGNER

- ☐ INDIVIDUAL
- ☐ CORPORATE OFFICER

_____
TITLE(S)

- ☐ PARTNER(S) ☐ LIMITED ☐ GENERAL
- ☐ ATTORNEY-IN-FACT
- ☐ TRUSTEE(S)
- ☐ GUARDIAN/CONSERVATOR
- ☐ OTHER_____

SIGNER IS REPRESENTING:
(NAME OF PERSON(S) OR ENTITY(IES))

_____

_____

DESCRIPTION OF ATTACHED DOCUMENT

_____
TITLE OR TYPE OF DOCUMENT

_____
NUMBER OF PAGES

_____
DATE OF DOCUMENT

_____
SIGNER(S) OTHER THAN NAMED ABOVE

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy or validity of that document.

STATE OF CALIFORNIA

COUNTY OF LOS ANGELES

On _____, 2023 before me, _____, personally appeared _____, proved to me on the basis of satisfactory evidence to be the person(s) whose names(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: _____

OPTIONAL

Though the data below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent reattachment of this form.

CAPACITY CLAIMED BY SIGNER

- ☐ INDIVIDUAL
- ☐ CORPORATE OFFICER

_____
TITLE(S)

- ☐ PARTNER(S) ☐ LIMITED ☐ GENERAL
- ☐ ATTORNEY-IN-FACT
- ☐ TRUSTEE(S)
- ☐ GUARDIAN/CONSERVATOR
- ☐ OTHER_____

SIGNER IS REPRESENTING:
(NAME OF PERSON(S) OR ENTITY(IES))

_____

_____

DESCRIPTION OF ATTACHED DOCUMENT

_____
TITLE OR TYPE OF DOCUMENT

_____
NUMBER OF PAGES

_____
DATE OF DOCUMENT

_____
SIGNER(S) OTHER THAN NAMED ABOVE

EXHIBIT "A"
SCOPE OF SERVICES

I. Consultant will perform the following Services on an on-call basis:

CONSTRUCTION MANAGEMENT SERVICES:

General construction management services may include, but not be limited to:

1. Coordinating and conducting Pre-Construction meetings.
2. Preparation and distribution of meeting minutes.
3. Quality assurance and quality control.
4. Administration and management of construction contracts.
5. Ensure construction efforts are completed per approved plans, on-schedule, and on-budget.
6. Ensure that local and state inspections have been completed as necessary.
7. Review construction schedule, including activity sequences and duration, schedule of submittals and delivery schedule of long lead materials and equipment. Review contractor's updates and revisions as may be required to reflect actual progress of work.
8. Provide construction schedule and budget updates to City's Contract Officer.
9. Schedule and conduct progress meetings to discuss contract issues, procedures, progress, problems, Construction Change Orders (CCO), submittals, requests for information (RFIs), deficiencies and schedules.
10. Process, review and approve contractor's submittals for City staff. Process and review project design consultant's submittals and provide recommendation to the City.
11. Process, review and track RFIs, submittals, shop drawings, proposed change orders and revisions, and provide recommendation to the City.
12. Review, evaluate and recommend approval for proposed CCOs. Review estimates for reasonableness and cost effectiveness and render recommendations to City. Administrate contracts, process CCOs (provide merit determination, quantification of cost and schedule impacts, render recommendations), review pay requests for accuracy.
13. Maintain cost accounting records on authorized work performed under contract unit costs and additional work performed based on actual costs of time (labor) and materials (T&M).
14. Review contractor submittals for extra or unforeseen work. Review potential CCO for accuracy and provide recommendation(s) to the City's Construction Management and Inspection Services Project Manager for proper course of action and processing of CCOs.
15. Assist City in coordinating services of other consultants (design, geotechnical, National

Pollutant Discharge Elimination System (NPDES), materials testing, inspection, special laboratory testing, etc.) that may be hired or selected for the project.

16. Coordinate with project designer the contractor's requests for interpretation or clarification of meaning and intent of project plans and specifications.
17. Coordinate construction activities with City's Public Works Maintenance Department.
18. Coordinate and oversee public notifications and public inquiries.
19. Establish and implement job safety procedures in compliance with CAL-OSHA requirements. Monitor contractor's compliance with established safety program, respond to deficiencies and hazards, and investigate and report on accidents.
20. Track quantities of work completed for progress payment(s). Develop and implement procedures for review and processing of progress payment applications. Assist the City with review(s) and certification for payment(s).
21. Establish procedures and monitor contractor compliance with federal and state prevailing wage regulations and requirements.
22. Provide a recovery plan and/or work-around schedule as necessary to mitigate any project impacts.
23. Confirm delivery and storage of all materials, supplies, and equipment.
24. Provide recommendation and assistance to the City and the Design/Engineering Team in resolving any dispute(s) arising from the performance of the contractor and sub-contractors.
25. Ensure that the Prime/General Contractor has an appropriate safety program in place.
26. Recommend the accrual and assessment of Liquidated Damages as necessary.
27. City's Construction Manager shall manage and coordinate with contractor the project Substantial Completion Punchlist.
28. Provide a Construction Project Close-Out Report with all construction-related project documents.

<u>INSPECTION SERVICES (as part of Construction Management Services):</u>

General construction management inspection services may include, but not be limited to:

1. Become familiar with construction documents, traffic control plans, construction schedules, construction sequences, and permit requirements from other agencies.
2. Photograph and log a pre-work video documenting existing conditions prior, during, and after construction.
3. Attend pre-construction meetings and present special concerns, if any.

4. Interpret plans, specifications and regulations and ensure that contractors and sub-contractors are following their contracts, and any Federal, State, or local regulations in effect at time work is performed.

5. Inspect construction activities to ensure projects are constructed in accordance with the approved construction documents (including, but not limited to plans, specifications, as-built drawings, reports, etc.).

6. Document in writing and notify construction contractors about non-compliance; and direct Contractor in writing to correct non-compliance items as soon as they are discovered. Maintain a status log of all Non-Compliant items discovered and identified during the performance of this project.

7. Prepare and maintain daily Inspection Reports showing site and weather conditions; traffic control measures taken by contractors; labor (record headcount of prime contractor and subcontractors/vendors), equipment and materials used; quantity of work performed; and major incidents/safety violations. Daily Inspection Reports shall be submitted to City upon project completion.

8. Review and maintain record of construction progress on a regular basis; verify schedules are on track with project milestones; identify deviations; and ensure that corrective actions are taken to bring projects back on schedule.

9. Provide accurate measurements of work completed by contractors in accordance with contract documents.

10. Review soil compaction and materials testing certifications of compliance (COC).

11. Coordinate with materials testing firms regarding quality of work completed.

12. Ensure that contractors do not install materials without approved material testing certifications. Any failed tests shall be reported to the City, and Consultant shall direct contractor to take correction measures to achieve compliance.

13. Monitor contractors' utility coordination to minimize utility conflict delays and potential need for utility relocations. Report potential conflicts to utilities, and advise them to relocate or remove conflicting utilities and report outcome to City.

14. Coordinate with contractor access to adjacent businesses/residents during construction.

15. Provide inspection of traffic control, channelization, and all other traffic-related work.

16. Observe construction safety, public safety and convenience, and report discovered problems to City.

17. Monitor compliance with the City's NPDES permits and requirements. Monitor compliance with all other local, state, and federal laws and regulations.

18. Monitor compliance with City's Construction Demolition and Recycling Ordinance,

including State requirements for organic waste diversion.

19. Maintain data for change orders and record information regarding time of dispute, time of notification by contractor, and action taken by inspector.
20. Coordinate preparation and submittal of "As-Built" plans to City upon project completion.
21. Prepare and issue preliminary and final punch list, including schedule for punch list completion. Monitor and follow through with contractor until completion of all punch list items.
22. Evaluate completion of work and recommend to City when work is ready for final inspection.
23. Conduct final inspection/walk-through with City staff.
24. Secure and transmit required guarantees, certifications, affidavits, leases, easement deeds, operating & maintenance manuals, warranties and other documents as stipulated in contract documents.

CONSTRUCTION MATERIAL TESTING (as part of Construction Management Services):

General construction management materials testing services may include, but not be limited to:

1. Review, recommend and implement testing lab studies and reports.
2. Collect concrete samples and test their strength.
3. Provide soil testing services.
4. Check subgrade compaction for concrete and asphalt construction.
5. Perform tests for sieve analysis, sand equivalent and cleanness, as needed.
6. Perform plant inspection at facilities supplying concrete and hot mix asphalt.
7. Provide summary report of testing results.
8. Verify that sampling and testing procedures are being performed properly.
9. Verify certifications of samplers and testers.
10. Perform split sample tests as necessary.
11. Maintain witness test records.
12. Verify that all testing equipment used for acceptance testing is in good condition and properly calibrated.
13. Verify that all plant inspections are being performed correctly by qualified testers.
14. Provide summary report of quality assurance results.

II. Consultant will perform Services, if any, in accordance with project-specific Task Orders, as follows:

When the City requests proposals from on-call consultants (including the Consultant) on a project-specific Task Order, and if the City accepts Consultant's proposal, then the Task Order and Notice to Proceed shall provide in detail Consultant's Scope of Services on that Task Order. **This Agreement does not guarantee that Consultant will be selected to perform services on Task Orders. This Agreement does not provide for Consultant's compensation except for Consultant's services rendered pursuant to a Notice to Proceed on a Task Order.**

III. Consultant must perform all on-call Services in compliance with the following requirements:

A. Each task shall be indicated by a written request ("Task Order") produced by the Contract Officer with a description of the work to be performed, and the time desired for completion. All tasks shall be carried out in conformity with all provisions of this Agreement.

B. Consultant must prepare a written description of the requested tasks including all components and subtasks; the costs to perform the task ("Task Budget"), using the itemized fees in Exhibit C, Schedule of Compensation, whenever a requested task is provided for in Exhibit C; explain how the cost was determined; and, a schedule for completion of the task ("Task Completion Date"); which shall all collectively be referred to as the "Task Proposal."

C. Contract Officer shall in writing approve, modify, or reject the Task Proposal, and may issue a Notice to Proceed.

D. The task shall be performed at a cost not to exceed the Task Budget.

E. Consultant shall complete the task and deliver all deliverables to Contract Officer by the Task Completion Date.

IV. **In addition to the requirements of Section 6.2 and pursuant to the Task Order's project-specific Scope of Services, the Contract Officer may require the Consultant to provide the following deliverables, as applicable:**

A. Meeting minutes

B. Construction schedule and budget updates

C. Construction Project Close-Out Report

D. Inspection reports

E. Accurate measurements of work completed

F. Summary report of test results

G. Summary report of quality assurance results

V. **All work product is subject to review and acceptance by the City, and must be revised by the Consultant without additional charge to the City until found satisfactory and accepted by City.**

VI. **Consultant will utilize qualified personnel with the following titles to perform the Services required by the applicable Task Order. Consultant shall obtain the Contract Officer's advanced written approval when replacing any individual assigned to perform services on Task Orders:**

A. Danny Kaye,Principal, Sr. Construction Project Manager

B. Alejandro Pinel, Construction Project Manager

C. Patrick Lappin, Sr. Construction Project Manager

D. Sandra Gonzalez, Sr. Project Manager

E. Ethan Erickson, Project Engineer

F. Henry Graves, QA/QC

G. Koury, Subcontractor, Inspection/Lab Testing

EXHIBIT "B"
SPECIAL REQUIREMENTS
(Superseding Contract Boilerplate)

The Agreement is hereby amended as follows (deletions shown in ~~strikethrough~~ and additions shown in ***bold italics***):

I. Section 1.1 (Scope of Services) of the Agreement is hereby amended to read in its entirety as follows:

"1.1 Scope of Services.

In compliance with all terms and conditions of this Agreement, the Consultant shall provide those services specified in the "Scope of Services" attached hereto as Exhibit "A" and incorporated herein by this reference, which may be referred to herein as the "services" or "work" hereunder. As a material inducement to the City entering into this Agreement, Consultant represents ~~and warrants~~ that it has the qualifications, experience, and facilities necessary to properly perform the services required under this Agreement in a thorough, competent, and professional manner, and is experienced in performing the work and services contemplated herein. Consultant shall at all times faithfully, competently and to the best of its ability, experience and talent, perform all services described herein. Consultant covenants that it shall follow the highest professional standards in performing the work and services required hereunder and that all materials will be ~~both of good quality as well as fit for the purpose intended~~ ***in conformance with such standards***. For purposes of this Agreement, the phrase "highest professional standards" shall mean those standards of practice recognized by one or more ~~first-class~~ ***professional*** firms performing similar work under similar circumstances."

II. Section 1.5 (Familiarity with Work) of the Agreement is hereby amended to read in its entirety as follows:

"1.5 Familiarity with Work.

By executing this Agreement, Consultant ***represents*** ~~warrants~~ that Consultant (i) has thoroughly investigated and considered the scope of services to be performed, (ii) has carefully considered how the services should be performed, and (iii) fully understands the facilities, difficulties and restrictions attending performance of the services under this Agreement. If the services involve work upon any site, Consultant ***represents*** ~~warrants~~ that Consultant has or will investigate the site and is or will be fully acquainted with the conditions there existing, prior to commencement of services hereunder. Should the Consultant discover any latent or unknown conditions, which will materially affect the performance of the services hereunder, Consultant shall immediately inform the City of such fact and shall not proceed except at Consultant's risk until written instructions are received from the Contract Officer."

III. A new Section 1.10 (Compliance with Labor and Wage Laws) is hereby added to the Agreement, to read in its entirety as follows:

"1.10 Compliance with Labor and Wage Laws.

Certain portions of the Services may be subject to prevailing wages under the Labor Code and to the extent such is true, the below provisions will apply.

(a) Public Work. The Parties acknowledge that the work to be performed under this Agreement is a "public work" as defined in Labor Code Section 1720 and that this Agreement is therefore subject to the requirements of Division 2, Part 7, Chapter 1 (commencing with Section 1720) of the California Labor Code relating to public works contracts and the rules and regulations established by the Department of Industrial Relations ("**DIR**") implementing such statutes. The work performed under this Agreement is subject to compliance monitoring and enforcement by the DIR. Consultant shall post job site notices, as prescribed by regulation.

(b) Registration with DIR. Pursuant to Labor Code section 1771.1, Consultant and all subcontractors must be registered with, and pay an annual fee to, the DIR prior to and during the performance of any work under this Agreement.

(c) Prevailing Wages. Consultant shall pay prevailing wages to the extent required by Labor Code Section 1771. Pursuant to Labor Code Section 1773.2, copies of the prevailing rate of per diem wages are on file at City Hall and will be made available to any interested party on request. By initiating any work under this Agreement, Consultant acknowledges receipt of a copy of the DIR determination of the prevailing rate of per diem wages, and Consultant shall post a copy of the same at each job site where work is performed under this Agreement. If this Agreement is subject to the payment of federal prevailing wages under the Davis-Bacon Act (40 U.S.C. § 3141 *et seq.*), then Consultant shall pay the higher of either the state for federal prevailing wage applicable to each laborer.

(d) Penalty for Failure to Pay Prevailing Wages. Consultant shall comply with and be bound by the provisions of Labor Code Sections 1774 and 1775 concerning the payment of prevailing rates of wages to workers and the penalties for failure to pay prevailing wages. The Consultant shall, as a penalty to the City, forfeit two hundred dollars ($200) for each calendar day, or portion thereof, for each worker paid less than the prevailing rates as determined by the DIR for the work or craft in which the worker is employed for any public work done pursuant to this Agreement by Consultant or by any subcontractor.

(e) Payroll Records. Consultant shall comply with and be bound by the provisions of Labor Code Section 1776, which requires Consultant and each subcontractor to: keep accurate payroll records and verify such records in writing under penalty of perjury, as specified in Section 1776; certify and make such payroll records available for inspection as provided by Section 1776; and inform the City of the location of the records.

(f) Apprentices. Consultant shall comply with and be bound by the provisions of Labor Code Sections 1777.5, 1777.6, and 1777.7 and California Code of Regulations Title 8, Section 200 et seq. concerning the employment of apprentices on public works projects. Consultant shall be responsible for compliance with these aforementioned Sections for all apprenticeable occupations. Prior to commencing work under this Agreement, Consultant

shall provide City with a copy of the information submitted to any applicable apprenticeship program. Within sixty (60) days after concluding work pursuant to this Agreement, Consultant and each of its subcontractors shall submit to the City a verified statement of the journeyman and apprentice hours performed under this Agreement.

(g) Eight-Hour Work Day. Consultant acknowledges that eight (8) hours labor constitutes a legal day's work. Consultant shall comply with and be bound by Labor Code Section 1810.

(h) Penalties for Excess Hours. Consultant shall comply with and be bound by the provisions of Labor Code Section 1813 concerning penalties for workers who work excess hours. Consultant shall, as a penalty to the City, forfeit twenty-five dollars ($25) for each worker employed in the performance of this Agreement by Consultant or by any subcontractor for each calendar day during which such worker is required or permitted to work more than eight (8) hours in any one calendar day and forty (40) hours in any one calendar week in violation of the provisions of Division 2, Part 7, Chapter 1, Article 3 of the Labor Code. Pursuant to Labor Code section 1815, work performed by employees of Consultant in excess of eight (8) hours per day, and forty (40) hours during any one week shall be permitted upon public work upon compensation for all hours worked in excess of 8 hours per day at not less than one and one-half (1½) times the basic rate of pay.

(i) Workers' Compensation. California Labor Code Sections 1860 and 3700 provide that every employer will be required to secure the payment of compensation to its employees if it has employees. In accordance with the provisions of California Labor Code Section 1861, Consultant certifies as follows:

"I am aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this contract."

(j) Consultant's Responsibility for Subcontractors. For every subcontractor who will perform work under this Agreement, Consultant shall be responsible for such subcontractor's compliance with Division 2, Part 7, Chapter 1 (commencing with Section 1720) of the California Labor Code, and shall make such compliance a requirement in any contract with any subcontractor for work under this Agreement. Consultant shall be required to take all actions necessary to enforce such contractual provisions and ensure subcontractor's compliance, including without limitation, conducting a review of the certified payroll records of the subcontractor on a periodic basis or upon becoming aware of the failure of the subcontractor to pay his or her workers the specified prevailing rate of wages. Consultant shall diligently take corrective action to halt or rectify any such failure by any subcontractor."

IV. Section 3.4 (Term) of the Agreement is hereby amended to read in its entirety as follows:

"3.4 Term

Unless earlier terminated in accordance with Article 7 of this Agreement, this Agreement shall continue in full force and effect until completion of the services ***commencing January 1, 2024 and expiring June 30, 2026*** ~~but not exceeding one (1) years from the date hereof~~, except as otherwise provided in the Schedule of Performance (Exhibit "D"). ***The City may, at its sole discretion, elect to extend the Term by two (2) additional one-year terms (each, an "Extension Term"). The pricing to be applied for each Extension Term is listed in Exhibit "C."***"

V. Section 4.5 (Prohibition Against Subcontracting or Assignment) of the Agreement is hereby amended to read in its entirety as follows:

"4.5 Prohibition Against Subcontracting or Assignment

The experience, knowledge, capability and reputation of Consultant, its principals and employees were a substantial inducement for the City to enter into this Agreement. Therefore, ***with the exception of Koury which provides inspection and lab testing services,*** Consultant shall not contract with any other entity to perform in whole or in part the services required hereunder without the express written approval of the City. In addition, neither this Agreement nor any interest herein may be transferred, assigned, conveyed, hypothecated or encumbered voluntarily or by operation of law, whether for the benefit of creditors or otherwise, without the prior written approval of City. Transfers restricted hereunder shall include the transfer to any person or group of persons acting in concert of more than twenty five percent (25%) of the present ownership and/or control of Consultant, taking all transfers into account on a cumulative basis. In the event of any such unapproved transfer, including any bankruptcy proceeding, this Agreement shall be void. No approved transfer shall release the Consultant or any surety of Consultant of any liability hereunder without the express consent of City."

VI. The first paragraph of Section 5.3 (Indemnification) of the Agreement is hereby amended to read in its entirety as follows:

"5.3 Indemnification.

To the full extent permitted by law, Consultant agrees to indemnify, defend and hold harmless the City, its officers, ***and*** employees ~~and agents~~ ("Indemnified Parties") against, and will hold and save them and each of them harmless from, any and all actions, either judicial, administrative, arbitration or regulatory claims, damages to persons or property, losses, costs, penalties, obligations, errors, omissions or liabilities whether actual or threatened (herein "claims or liabilities") that may be asserted or claimed by any person, firm or entity ***to the extent*** arising out of or in connection with the negligent performance of the work, operations or activities provided herein of Consultant, its officers, employees, agents, subcontractors, or invitees, or any individual or entity for which Consultant is legally liable ("indemnitors"), or arising from Consultant's or indemnitors' reckless or willful misconduct, or arising from Consultant's or indemnitors' negligent performance of or failure to perform any term, provision, covenant or condition of this Agreement, and in connection therewith:"

VII. Section 8.2 (Conflict of Interest) of the Agreement is hereby amended to read in its entirety as follows:

"8.2 Conflict of Interest.

Consultant covenants that neither it, nor any officer or principal of its firm, has or shall acquire any interest, directly or indirectly, which would conflict in any manner with the interests of City or which would in any way hinder Consultant's performance of services under this Agreement. Consultant further covenants that in the performance of this Agreement, no person having any such interest shall be employed by it as an officer, employee, agent or subcontractor without the express written consent of the Contract Officer. Consultant agrees to at all times avoid conflicts of interest or the appearance of any conflicts of interest with the interests of City in the performance of this Agreement.

No officer or employee of the City shall have any financial interest, direct or indirect, in this Agreement nor shall any such officer or employee participate in any decision relating to the Agreement which affects her/his financial interest or the financial interest of any corporation, partnership or association in which (s)he is, directly or indirectly, interested, in violation of any State statute or regulation. The Consultant ***represents*** ~~warrants~~ that it has not paid or given and will not pay or give any third party any money or other consideration for obtaining this Agreement."

VIII. A new Section 9.8 (No Third-Party Beneficiaries) is hereby added to the Agreement, to read in its entirety as follows:

"***9.8 No Third-Party Beneficiaries.***

All services provided by Consultant are for the sole use and benefit of City. Except as expressly provided for in this Agreement, nothing in this Agreement shall create a contractual relationship with or a cause of action in favor of a third party against Consultant or City."

EXHIBIT "C"
SCHEDULE OF COMPENSATION

I. **This Schedule of Compensation governs Consultant's compensation in the event the Consultant performs services pursuant to a Notice to Proceed on a Task Order. This Agreement does not guarantee that Consultant will be selected to perform services on Task Orders.**

The not to exceed compensation amounts are as follows:

January 1, 2024 through June 30, 2024:	$94,250.00
July 1, 2024 through June 30, 2025:	$192,270.00*
July 1, 2025 through June 30, 2026:	$196,115.00*
Total:	$482,635.00

July 1, 2026 through June 30, 2027:	$200,037.00 (extension period)*
July 1, 2027 through June 30, 2028:	$204,038 (extension period)*

*Amount reflects 2% increase from prior year.

II. **Consultant responding to the City's request for proposals on a project-specific Task Order shall establish a Task Budget for the Task Order, identifying the subtasks based on the time and rates of the personnel performing the subtasks, and itemizing all materials and equipment utilized and the costs thereof. If payment is to be made other than at completion of the services, then the phases of the performance and percentage of payment due shall also be shown in the Task Proposal. Consultant's proposals on Task Orders shall be based on hourly rates identical to the rates attached as Exhibit C-1.**

III. **The City will compensate Consultant for the Services performed upon submission of a valid invoice. Each invoice is to include:**

A. Line items for all personnel describing the work performed, the number of hours worked, and the hourly rate.

B. Line items for all materials and equipment properly charged to the Services.

C. Line items for all other approved reimbursable expenses claimed, with supporting documentation.

D. Line items for all approved subcontractor labor, supplies, equipment, materials, and travel properly charged to the Services.

IV. **The total compensation for the Services shall not exceed $482,635.00 as provided in Section 2.1 of this Agreement.**

V. **The Consultant's billing rates for all personnel are attached as Exhibit C-1.**

EXHIBIT "C-1"
BILLING RATES

Principal/Construction Manager	$195/hour
Senior Construction Manager	$195/hour
Construction Manager	$145/hour
Assistant Construction Manager	$125/hour
Project Engineer	$110/hour

EXHIBIT "D"
SCHEDULE OF PERFORMANCE

I. **Consultant shall perform all Services on an on-call basis as set forth in Exhibit "A."**

II. **If the City selects the Consultant's proposal to perform a project-specific Task Order, the Task Order's Scope of Work/Services or the Notice to Proceed, or both, shall provide the detailed schedule of performance, and all services shall be completed timely in accordance with the approved Task Proposal and by the Task Completion Date.**

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 11/17/2023

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER AssuredPartners Design Professionals Insurance Services, LLC 3697 Mt. Diablo Blvd Suite 230 Lafayette CA 94549 License#: 6003745	**CONTACT NAME:** Marie Swaney **PHONE (A/C, No, Ext):** 626-696-1890 **FAX (A/C, No):** **E-MAIL ADDRESS:** CertsDesignPro@AssuredPartners.com
INSURED Totum Corporation 310 351-0138 15130 Ventura Blvd., Unit Suite A Sherman Oaks CA 91403 TOTUCOR-01	**INSURER(S) AFFORDING COVERAGE** — **NAIC #** **INSURER A :** Travelers Property Casualty Company of America — 25674 **INSURER B :** Aspen American Insurance Company — 43460 **INSURER C :** The Travelers Indemnity Company of Connecticut — 25682 **INSURER D :** **INSURER E :** **INSURER F :**

COVERAGES **CERTIFICATE NUMBER:** 133476026 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
C	X **COMMERCIAL GENERAL LIABILITY** CLAIMS-MADE [X] OCCUR X Contractual Liab Included GEN'L AGGREGATE LIMIT APPLIES PER: POLICY [X] PRO-JECT [X] LOC OTHER:	Y	Y	6801J745121	6/5/2023	6/5/2024	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG $	$ 2,000,000 $ 1,000,000 $ 10,000 $ 2,000,000 $ 4,000,000 $ 4,000,000 $
C	**AUTOMOBILE LIABILITY** ANY AUTO OWNED AUTOS ONLY / SCHEDULED AUTOS X HIRED AUTOS ONLY / X NON-OWNED AUTOS ONLY	Y	Y	BA8R387030	6/5/2023	6/5/2024	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident) $	$ 1,000,000 $ $ $ $
	UMBRELLA LIAB OCCUR **EXCESS LIAB** CLAIMS-MADE DED RETENTION $						EACH OCCURRENCE AGGREGATE $	$ $ $
A	**WORKERS COMPENSATION AND EMPLOYERS' LIABILITY** Y / N ANYPROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? [ ] N / A **(Mandatory in NH)** If yes, describe under DESCRIPTION OF OPERATIONS below	N / A	Y	UB3J306445	6/5/2023	6/5/2024	X PER STATUTE / OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	 $ 1,000,000 $ 1,000,000 $ 1,000,000
B	Professional Liability			AAAE10078804	6/5/2023	6/5/2024	Per Claim Aggregate Limit	$2,000,000 $2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Insured owns no company vehicles; therefore, hired/non-owned auto is the maximum coverage that applies.
Re: All Operations of the Named Insured.
City of Carson, its elected and appointed officers, employees, volunteers and agents are named as an additional insured as respects general liability and auto liability as required per written contract. General Liability is Primary/Non-Contributory per policy form wording. Insurance coverage includes waiver of subrogation per the attached endorsement(s).

CERTIFICATE HOLDER

City of Carson
701 E Carson Street
Carson CA 90745

INSURANCE APPROVED
RG
11/21/2023

CANCELLATION 30 Day Notice will be sent to holder

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

© 1988-2015 ACORD CORPORATION. All rights reserved.

The ACORD name and logo are registered marks of ACORD

c. **Method Of Sharing**

If all of the other insurance permits contribution by equal shares, we will follow this method also. Under this approach each insurer contributes equal amounts until it has paid its applicable limit of insurance or none of the loss remains, whichever comes first.

If any of the other insurance does not permit contribution by equal shares, we will contribute by limits. Under this method, each insurer's share is based on the ratio of its applicable limit of insurance to the total applicable limits of insurance of all insurers.

d. **Primary And Non-Contributory Insurance If Required By Written Contract**

If you specifically agree in a written contract or agreement that the insurance afforded to an insured under this Coverage Part must apply on a primary basis, or a primary and non-contributory basis, this insurance is primary to other insurance that is available to such insured which covers such insured as a named insured, and we will not share with that other insurance, provided that:

(1) The "bodily injury" or "property damage" for which coverage is sought occurs; and

(2) The "personal and advertising injury" for which coverage is sought is caused by an offense that is committed;

subsequent to the signing of that contract or agreement by you.

5. **Premium Audit**

a. We will compute all premiums for this Coverage Part in accordance with our rules and rates.

b. Premium shown in this Coverage Part as advance premium is a deposit premium only. At the close of each audit period we will compute the earned premium for that period and send notice to the first Named Insured. The due date for audit and retrospective premiums is the date shown as the due date on the bill. If the sum of the advance and audit premiums paid for the policy period is greater than the earned premium, we will return the excess to the first Named Insured.

c. The first Named Insured must keep records of the information we need for premium computation, and send us copies at such times as we may request.

6. **Representations**

By accepting this policy, you agree:

a. The statements in the Declarations are accurate and complete;

b. Those statements are based upon representations you made to us; and

c. We have issued this policy in reliance upon your representations.

The unintentional omission of, or unintentional error in, any information provided by you which we relied upon in issuing this policy will not prejudice your rights under this insurance. However, this provision does not affect our right to collect additional premium or to exercise our rights of cancellation or nonrenewal in accordance with applicable insurance laws or regulations.

7. **Separation Of Insureds**

Except with respect to the Limits of Insurance, and any rights or duties specifically assigned in this Coverage Part to the first Named Insured, this insurance applies:

a. As if each Named Insured were the only Named Insured; and

b. Separately to each insured against whom claim is made or "suit" is brought.

8. **Transfer Of Rights Of Recovery Against Others To Us**

If the insured has rights to recover all or part of any payment we have made under this Coverage Part, those rights are transferred to us. The insured must do nothing after loss to impair them. At our request, the insured will bring "suit" or transfer those rights to us and help us enforce them.

9. **When We Do Not Renew**

If we decide not to renew this Coverage Part, we will mail or deliver to the first Named Insured shown in the Declarations written notice of the nonrenewal not less than 30 days before the expiration date.

If notice is mailed, proof of mailing will be sufficient proof of notice.

SECTION V – DEFINITIONS

1. "Advertisement" means a notice that is broadcast or published to the general public or specific market segments about your goods, products or services for the purpose of attracting customers or supporters. For the purposes of this definition:

a. Notices that are published include material placed on the Internet or on similar electronic means of communication; and

b. Regarding websites, only that part of a website that is about your goods, products or services for the purposes of attracting customers or supporters is considered an advertisement.

© 2017 The Travelers Indemnity Company. All rights reserved.
Includes copyrighted material of Insurance Services Office, Inc. with its permission.

occupational therapist or occupational therapy assistant, physical therapist or speech-language pathologist; or

(b) First aid or "Good Samaritan services" by any of your "employees" or "volunteer workers", other than an employed or volunteer doctor. Any such "employees" or "volunteer workers" providing or failing to provide first aid or "Good Samaritan services" during their work hours for you will be deemed to be acting within the scope of their employment by you or performing duties related to the conduct of your business.

3. The following replaces the last sentence of Paragraph **5.** of **SECTION III – LIMITS OF INSURANCE**:

For the purposes of determining the applicable Each Occurrence Limit, all related acts or omissions committed in providing or failing to provide "incidental medical services", first aid or "Good Samaritan services" to any one person will be deemed to be one "occurrence".

4. The following exclusion is added to Paragraph **2.**, **Exclusions**, of **SECTION I – COVERAGES – COVERAGE A – BODILY INJURY AND PROPERTY DAMAGE LIABILITY**:

Sale Of Pharmaceuticals

"Bodily injury" or "property damage" arising out of the violation of a penal statute or ordinance relating to the sale of pharmaceuticals committed by, or with the knowledge or consent of the insured.

5. The following is added to the **DEFINITIONS** Section:

"Incidental medical services" means:

a. Medical, surgical, dental, laboratory, x-ray or nursing service or treatment, advice or instruction, or the related furnishing of food or beverages; or

b. The furnishing or dispensing of drugs or medical, dental, or surgical supplies or appliances.

6. The following is added to Paragraph **4.b.**, **Excess Insurance**, of **SECTION IV – COMMERCIAL GENERAL LIABILITY CONDITIONS**:

This insurance is excess over any valid and collectible other insurance, whether primary, excess, contingent or on any other basis, that is available to any of your "employees" for "bodily injury" that arises out of providing or failing to provide "incidental medical services" to any person to the extent not subject to Paragraph **2.a.(1)** of Section **II** – Who Is An Insured.

K. MEDICAL PAYMENTS – INCREASED LIMIT

The following replaces Paragraph **7.** of **SECTION III – LIMITS OF INSURANCE**:

7. Subject to Paragraph **5.** above, the Medical Expense Limit is the most we will pay under Coverage **C** for all medical expenses because of "bodily injury" sustained by any one person, and will be the higher of:

a. $10,000; or

b. The amount shown in the Declarations of this Coverage Part for Medical Expense Limit.

L. AMENDMENT OF EXCESS INSURANCE CONDITION – PROFESSIONAL LIABILITY

The following is added to Paragraph **4.b.**, **Excess Insurance**, of **SECTION IV – COMMERCIAL GENERAL LIABILITY CONDITIONS**:

This insurance is excess over any of the other insurance, whether primary, excess, contingent or on any other basis, that is Professional Liability or similar coverage, to the extent the loss is not subject to the professional services exclusion of Coverage **A** or Coverage **B**.

M. BLANKET WAIVER OF SUBROGATION – WHEN REQUIRED BY WRITTEN CONTRACT OR AGREEMENT

The following is added to Paragraph **8.**, **Transfer Of Rights Of Recovery Against Others To Us**, of **SECTION IV – COMMERCIAL GENERAL LIABILITY CONDITIONS**:

If the insured has agreed in a written contract or agreement to waive that insured's right of recovery against any person or organization, we waive our right of recovery against such person or organization, but only for payments we make because of:

a. "Bodily injury" or "property damage" that occurs; or

b. "Personal and advertising injury" caused by an offense that is committed;

subsequent to the signing of that contract or agreement.

© 2017 The Travelers Indemnity Company. All rights reserved.
Includes copyrighted material of Insurance Services Office, Inc. with its permission.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSURED – OWNERS, LESSEES OR CONTRACTORS – SCHEDULED PERSON OR ORGANIZATION

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE

Names of Additional Insured Person(s) or Organization(s):

Any person or organization that you agree in a written contract to include as an additional insured on this Coverage Part, provided that such written contract was signed by you before,and is in effect when, the "bodily injury" or "property damage" occurs or the "personal injury" or "advertising injury" offense is committed.

Location of Covered Operations:

Any project to which a written contract with the Additional Insured Person(s) or Organization(s) in the Schedule applies.

(Information required to complete this Schedule, if not shown above, will be shown in the Declarations.)

A. Section II – Who Is An Insured is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury", "property damage", "personal injury" or "advertising injury" caused, in whole or in part, by:

1. Your acts or omissions; or
2. The acts or omissions of those acting on your behalf;

in the performance of your ongoing operations for the additional insured(s) at the location(s) designated above.

B. With respect to the insurance afforded to these additional insureds, the following additional exclusions apply:

This insurance does not apply to "bodily injury" or "property damage" occurring, or "personal injury" or "advertising injury" arising out of an offense committed, after:

1. All work, including materials, parts or equipment furnished in connection with such work, on the project (other than service, maintenance or repairs) to be performed by or on behalf of the additional insured(s) at the location of the covered operations has been completed; or
2. That portion of "your work" out of which the injury or damage arises has been put to its intended use by any person or organization other than another contractor or subcontractor engaged in performing operations for a principal as a part of the same project.

Copyright 2005 The St. Paul Travelers Companies, Inc. All rights reserved.
Includes copyrighted material of Insurance Services Office, Inc. with its permission.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSURED – OWNERS, LESSEES OR CONTRACTORS – COMPLETED OPERATIONS

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE

Name Of Additional Insured Person(s) Or Organization(s):
Any person or organization that you agree in a written contract to include as an additional insured on this Coverage Part for "bodily injury" or "property damage" included in the products-completed operations hazard, provided that such contract was signed by you before, and is in effect when, the "bodily injury or "property damage" occurs.

Location And Description Of Completed Operations
Any project to which a written contract with the Additional Insured Person(s) or Organization(s) in the Schedule applies.

Information required to complete this Schedule, if not shown above, will be shown in the Declarations.

Section II – Who Is An Insured is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury" or "property damage" caused, in whole or in part, by "your work" at the location designated and described in the schedule of this endorsement performed for that additional insured and included in the "products-completed operations hazard".

© ISO Properties, Inc., 2004

TRAVELERS

WORKERS COMPENSATION AND EMPLOYERS LIABILITY POLICY

ENDORSEMENT WC 99 03 76 (A) –

POLICY NUMBER: UB3J306445

WAIVER OF OUR RIGHT TO RECOVER FROM OTHERS ENDORSEMENT – CALIFORNIA (BLANKET WAIVER)

We have the right to recover our payments from anyone liable for an injury covered by this policy. We will not enforce our right against the person or organization named in the Schedule.

The additional premium for this endorsement shall be % of the California workers' compensation premium.

Schedule

Person or Organization	**Job Description**
Any Person or organization for which the insured has agreed by written contract executed prior to loss to furnish this waiver.	

This endorsement changes the policy to which it is attached and is effective on the date issued unless otherwise stated.

(The information below is required only when this endorsement is issued subsequent to preparation of the policy.)

Insurance Company
Travelers Property Casualty Company of America

Countersigned by _____

DATE OF ISSUE: 11/17/2023

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

BLANKET WAIVER OF SUBROGATION

This endorsement modifies insurance provided under the following:

AUTO DEALERS COVERAGE FORM
BUSINESS AUTO COVERAGE FORM
MOTOR CARRIER COVERAGE FORM

The following replaces Paragraph **A.5.**, **Transfer of Rights Of Recovery Against Others To Us**, of the **CONDITIONS** Section:

5. Transfer Of Rights Of Recovery Against Others To Us

We waive any right of recovery we may have against any person or organization to the extent required of you by a written contract executed prior to any "accident" or "loss", provided that the "accident" or "loss" arises out of the operations contemplated by such contract. The waiver applies only to the person or organization designated in such contract.

© 2015 The Travelers Indemnity Company. All rights reserved.
Includes copyrighted material of Insurance Services Office, Inc. with its permission.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

BLANKET ADDITIONAL INSURED

This endorsement modifies insurance provided under the following:

BUSINESS AUTO COVERAGE FORM
MOTOR CARRIER COVERAGE FORM

The following is added to Paragraph **c.** in **A.1., Who Is An Insured**, of **SECTION II – COVERED AUTOS LIABILITY COVERAGE** in the **BUSINESS AUTO COVERAGE FORM** and Paragraph **e.** in **A.1., Who Is An Insured**, of **SECTION II – COVERED AUTOS LIABILITY COVERAGE** in the **MOTOR CARRIER COVERAGE FORM**, whichever Coverage Form is part of your policy:

This includes any person or organization who you are required under a written contract or agreement between you and that person or organization, that is signed by you before the "bodily injury" or "property damage" occurs and that is in effect during the policy period, to name as an additional insured for Covered Autos Liability Coverage, but only for damages to which this insurance applies and only to the extent of that person's or organization's liability for the conduct of another "insured".

© 2016 The Travelers Indemnity Company. All rights reserved.
Includes copyrighted material of Insurance Services Office, Inc. with its permission.

AMENDMENT NO. 1

TO AGREEMENT FOR CONTRACT SERVICES

THIS AMENDMENT NO. 1 TO THE AGREEMENT FOR CONTRACT SERVICES ("Amendment No. 1") by and between the CITY OF CARSON, a California municipal corporation ("City") and TOTUM CORP, a California corporation ("Consultant"), is effective as of the 21st day of January, 2025. City and Consultant are sometimes hereinafter individually referred to as "Party" and collectively referred to as the "Parties."

RECITALS

A. City and Consultant entered into that certain Agreement for Contract Services dated December 19, 2023 ("Agreement"), whereby Consultant agreed to provide City construction management and inspection services on an on-call basis for a two and one-half year term commencing January 1, 2024 and expiring June 30, 2026, for $482,635.00, with two additional options to extend by one year each.

B. Since commencement of the Term, Consultant has been selected and tasked to oversee the construction of Foisia Park and Carriage Crest Park ("Additional Services"), and as such, an additional $400,000.00 needs to be allocated to this Agreement to allow Consultant to perform such services through June 30, 2025.

C. The Parties now desire to amend the Agreement to specifically prescribe the Additional Services for an additional $400,000.00, thereby increasing the Contract Sum from $482,635.00 to $882,635.00, for that purpose.

D. Section 2611(m)(3) of the Carson Municipal Code ("CMC") provides that any proposed amendment to a contract exceeding $75,000 requires solicitation unless the amendment concerns a change order under Section 2601(d) of the CMC in which event bidding will not be required irrespective of the amount of the change order.

E. The Additional Services qualify as a change order because they concern a change to the scope of work and price arising out of reasonably unforeseeable circumstances borne out of the original scope of the Agreement. It is a change to the scope of work because it is not included in the Scope of Services and it is borne out of the original Scope of Services because the nature of services is similar to the original scope except the description contains more specificity, and at the time the Parties entered into the Agreement the Additional Services were reasonably unforeseeable.

TERMS

1. **Contract Changes**. The Agreement is amended as provided herein (added text shown in ***bold italics***, deleted text in ~~strikethrough font~~).

A. Section 2.1 (Contract Sum) is hereby amended to read in its entirety as follows:

"2.1 Contract Sum.

Subject to any limitations set forth in this Agreement, City agrees to pay Consultant the amounts specified in the "Schedule of Compensation" attached hereto as Exhibit "C" and incorporated herein by this reference. The total compensation, including reimbursement for actual expenses, shall not exceed ***Eight Hundred Eighty-Two Thousand, Six Hundred Thirty-Five Dollars and Zero Cents ($882,635.00)*** ~~Four Hundred Eighty Two Thousand Six Hundred Thirty Five Dollars and Zero Cents ($482,635.00)~~ (the "Contract Sum"), unless additional compensation is approved pursuant to Section 1.8. In the event City elects to exercise its options to extend the Term pursuant to Section 3.4 hereof, the Contract Sum will increase consistent with the additional not to exceed compensation applicable to each Extension Term, as set out in in Exhibit "C.""

B. Exhibit A (Scope of Services) is hereby amended to read in its entirety as follows:

See attached.

C. Exhibit C (Schedule of Compensation) is hereby amended to read in its entirety as follows:

See attached.

2. Continuing Effect of Agreement. Except as amended by this Amendment No. 1, all provisions of the Agreement, shall remain unchanged and in full force and effect. From and after the date of this Amendment No. 1, whenever the term "Agreement" appears in the Agreement, it shall mean the Agreement, as amended by this Amendment No. 1.

3. Affirmation of Agreement; Warranty Re Absence of Defaults. City and Consultant each ratify and reaffirm each and every one of the respective rights and obligations arising under the Agreement. Each party represents and warrants to the other that there have been no written or oral modifications to the Agreement. Each party represents and warrants to the other that the Agreement, as amended by this Amendment No. 1, is currently an effective, valid, and binding obligation.

Consultant represents and warrants to City that, as of the date of this Amendment No. 1, City is not in default of any material term of the Agreement and that there have been no events that, with the passing of time or the giving of notice, or both, would constitute a material default under the Agreement.

City represents and warrants to Consultant that, as of the date of this Amendment No. 1, Consultant is not in default of any material term of the Agreement and that there have been no events that, with the passing of time or the giving of notice, or both, would constitute a material default under the Agreement.

4. **Adequate Consideration.** The parties hereto irrevocably stipulate and agree that they have each received adequate and independent consideration for the performance of the obligations they have undertaken pursuant to this Amendment No. 1.

5. **Authority.** The persons executing this Amendment No. 1 on behalf of the parties hereto warrant that (i) such party is duly organized and existing, (ii) they are duly authorized to execute and deliver this Amendment No. 1 on behalf of said party, (iii) by so executing this Amendment No. 1, such party is formally bound to the provisions of this Amendment No. 1, and (iv) the entering into this Amendment No. 1 does not violate any provision of any other agreement to which said party is bound.

6. **Counterparts.** This Amendment No. 1 may be executed in any number of counterparts and each of such counterparts shall for all purposes be deemed to be an original, whether the signatures are originals, electronic, facsimiles or digital. All such counterparts shall together constitute but one and the same Amendment No. 1.

[SIGNATURES ON FOLLOWING PAGE]

IN WITNESS WHEREOF, the parties hereto have executed this Amendment No. 1 on the date and year first-above written.

CITY:

CITY OF CARSON, a municipal corporation

Lula Davis-Holmes, Mayor

ATTEST:

Dr. Khaleah K. Bradshaw, City Clerk

APPROVED AS TO FORM:
ALESHIRE & WYNDER, LLP

Sunny K. Soltani, City Attorney
[vas; rjl]

CONSULTANT:

TOTUM CORP, a California corporation

By: _____
Name: GIULIO ZAVOLTA
Title: CFO

By: _____
Name: DANIEL KANE
Title: PRESIDENT

Two corporate officer signatures required when Consultant is a corporation, with one signature required from each of the following groups: 1) Chairman of the Board, President or any Vice President; and 2) Secretary, any Assistant Secretary, Chief Financial Officer or any Assistant Treasurer. CONSULTANT'S SIGNATURES SHALL BE DULY NOTARIZED, AND APPROPRIATE ATTESTATIONS SHALL BE INCLUDED AS MAY BE REQUIRED BY THE BYLAWS, ARTICLES OF INCORPORATION, OR OTHER RULES OR REGULATIONS APPLICABLE TO CONSULTANT'S BUSINESS ENTITY.

EXHIBIT "A"
SCOPE OF SERVICES

I. Consultant will perform the following Services on an on-call basis, *including but not limited to, oversight of construction of Foisia Park and Carriage Crest Park*:

CONSTRUCTION MANAGEMENT SERVICES:

General construction management services may include, but not be limited to:

1. Coordinating and conducting Pre-Construction meetings.
2. Preparation and distribution of meeting minutes.
3. Quality assurance and quality control.
4. Administration and management of construction contracts.
5. Ensure construction efforts are completed per approved plans, on-schedule, and on-budget.
6. Ensure that local and state inspections have been completed as necessary.
7. Review construction schedule, including activity sequences and duration, schedule of submittals and delivery schedule of long lead materials and equipment. Review contractor's updates and revisions as may be required to reflect actual progress of work.
8. Provide construction schedule and budget updates to City's Contract Officer.
9. Schedule and conduct progress meetings to discuss contract issues, procedures, progress, problems, Construction Change Orders (CCO), submittals, requests for information (RFIs), deficiencies and schedules.
10. Process, review and approve contractor's submittals for City staff. Process and review project design consultant's submittals and provide recommendation to the City.
11. Process, review and track RFIs, submittals, shop drawings, proposed change orders and revisions, and provide recommendation to the City.
12. Review, evaluate and recommend approval for proposed CCOs. Review estimates for reasonableness and cost effectiveness and render recommendations to City. Administrate contracts, process CCOs (provide merit determination, quantification of cost and schedule impacts, render recommendations), review pay requests for accuracy.
13. Maintain cost accounting records on authorized work performed under contract unit costs and additional work performed based on actual costs of time (labor) and materials (T&M).
14. Review contractor submittals for extra or unforeseen work. Review potential CCO for accuracy and provide recommendation(s) to the City's Construction Management and Inspection Services Project Manager for proper course of action and processing of CCOs.
15. Assist City in coordinating services of other consultants (design, geotechnical, National

Pollutant Discharge Elimination System (NPDES), materials testing, inspection, special laboratory testing, etc.) that may be hired or selected for the project.

16. Coordinate with project designer the contractor's requests for interpretation or clarification of meaning and intent of project plans and specifications.
17. Coordinate construction activities with City's Public Works Maintenance Department.
18. Coordinate and oversee public notifications and public inquiries.
19. Establish and implement job safety procedures in compliance with CAL-OSHA requirements. Monitor contractor's compliance with established safety program, respond to deficiencies and hazards, and investigate and report on accidents.
20. Track quantities of work completed for progress payment(s). Develop and implement procedures for review and processing of progress payment applications. Assist the City with review(s) and certification for payment(s).
21. Establish procedures and monitor contractor compliance with federal and state prevailing wage regulations and requirements.
22. Provide a recovery plan and/or work-around schedule as necessary to mitigate any project impacts.
23. Confirm delivery and storage of all materials, supplies, and equipment.
24. Provide recommendation and assistance to the City and the Design/Engineering Team in resolving any dispute(s) arising from the performance of the contractor and sub-contractors.
25. Ensure that the Prime/General Contractor has an appropriate safety program in place.
26. Recommend the accrual and assessment of Liquidated Damages as necessary.
27. City's Construction Manager shall manage and coordinate with contractor the project Substantial Completion Punchlist.
28. Provide a Construction Project Close-Out Report with all construction-related project documents.

<u>INSPECTION SERVICES (as part of Construction Management Services):</u>

General construction management inspection services may include, but not be limited to:

1. Become familiar with construction documents, traffic control plans, construction schedules, construction sequences, and permit requirements from other agencies.
2. Photograph and log a pre-work video documenting existing conditions prior, during, and after construction.
3. Attend pre-construction meetings and present special concerns, if any.

4. Interpret plans, specifications and regulations and ensure that contractors and sub-contractors are following their contracts, and any Federal, State, or local regulations in effect at time work is performed.

5. Inspect construction activities to ensure projects are constructed in accordance with the approved construction documents (including, but not limited to plans, specifications, as-built drawings, reports, etc.).

6. Document in writing and notify construction contractors about non-compliance; and direct Contractor in writing to correct non-compliance items as soon as they are discovered. Maintain a status log of all Non-Compliant items discovered and identified during the performance of this project.

7. Prepare and maintain daily Inspection Reports showing site and weather conditions; traffic control measures taken by contractors; labor (record headcount of prime contractor and subcontractors/vendors); equipment and materials used; quantity of work performed; and major incidents/safety violations. Daily Inspection Reports shall be submitted to City upon project completion.

8. Review and maintain record of construction progress on a regular basis; verify schedules are on track with project milestones; identify deviations; and ensure that corrective actions are taken to bring projects back on schedule.

9. Provide accurate measurements of work completed by contractors in accordance with contract documents.

10. Review soil compaction and materials testing certifications of compliance (COC).

11. Coordinate with materials testing firms regarding quality of work completed.

12. Ensure that contractors do not install materials without approved material testing certifications. Any failed tests shall be reported to the City, and Consultant shall direct contractor to take correction measures to achieve compliance.

13. Monitor contractors' utility coordination to minimize utility conflict delays and potential need for utility relocations. Report potential conflicts to utilities, and advise them to relocate or remove conflicting utilities and report outcome to City.

14. Coordinate with contractor access to adjacent businesses/residents during construction.

15. Provide inspection of traffic control, channelization, and all other traffic-related work.

16. Observe construction safety, public safety and convenience, and report discovered problems to City.

17. Monitor compliance with the City's NPDES permits and requirements. Monitor compliance with all other local, state, and federal laws and regulations.

18. Monitor compliance with City's Construction Demolition and Recycling Ordinance,

including State requirements for organic waste diversion.

19. Maintain data for change orders and record information regarding time of dispute, time of notification by contractor, and action taken by inspector.
20. Coordinate preparation and submittal of "As-Built" plans to City upon project completion.
21. Prepare and issue preliminary and final punch list, including schedule for punch list completion. Monitor and follow through with contractor until completion of all punch list items.
22. Evaluate completion of work and recommend to City when work is ready for final inspection.
23. Conduct final inspection/walk-through with City staff.
24. Secure and transmit required guarantees, certifications, affidavits, leases, easement deeds, operating & maintenance manuals, warranties and other documents as stipulated in contract documents.

CONSTRUCTION MATERIAL TESTING (as part of Construction Management Services):

General construction management materials testing services may include, but not be limited to:

1. Review, recommend and implement testing lab studies and reports.
2. Collect concrete samples and test their strength.
3. Provide soil testing services.
4. Check subgrade compaction for concrete and asphalt construction.
5. Perform tests for sieve analysis, sand equivalent and cleanness, as needed.
6. Perform plant inspection at facilities supplying concrete and hot mix asphalt.
7. Provide summary report of testing results.
8. Verify that sampling and testing procedures are being performed properly.
9. Verify certifications of samplers and testers.
10. Perform split sample tests as necessary.
11. Maintain witness test records.
12. Verify that all testing equipment used for acceptance testing is in good condition and properly calibrated.
13. Verify that all plant inspections are being performed correctly by qualified testers.
14. Provide summary report of quality assurance results.

II. Consultant will perform Services, if any, in accordance with project-specific Task Orders, as follows:

When the City requests proposals from on-call consultants (including the Consultant) on a project-specific Task Order, and if the City accepts Consultant's proposal, then the Task Order and Notice to Proceed shall provide in detail Consultant's Scope of Services on that Task Order. **This Agreement does not guarantee that Consultant will be selected to perform services on Task Orders. This Agreement does not provide for Consultant's compensation except for Consultant's services rendered pursuant to a Notice to Proceed on a Task Order.**

III. Consultant must perform all on-call Services in compliance with the following requirements:

A. Each task shall be indicated by a written request ("Task Order") produced by the Contract Officer with a description of the work to be performed, and the time desired for completion. All tasks shall be carried out in conformity with all provisions of this Agreement.

B. Consultant must prepare a written description of the requested tasks including all components and subtasks; the costs to perform the task ("Task Budget"), using the itemized fees in Exhibit C, Schedule of Compensation, whenever a requested task is provided for in Exhibit C; explain how the cost was determined; and, a schedule for completion of the task ("Task Completion Date"); which shall all collectively be referred to as the "Task Proposal."

C. Contract Officer shall in writing approve, modify, or reject the Task Proposal, and may issue a Notice to Proceed.

D. The task shall be performed at a cost not to exceed the Task Budget.

E. Consultant shall complete the task and deliver all deliverables to Contract Officer by the Task Completion Date.

IV. In addition to the requirements of Section 6.2 and pursuant to the Task Order's project-specific Scope of Services, the Contract Officer may require the Consultant to provide the following deliverables, as applicable:

A. Meeting minutes

B. Construction schedule and budget updates

C. Construction Project Close-Out Report

D. Inspection reports

E. Accurate measurements of work completed

F. Summary report of test results

G. Summary report of quality assurance results

V. All work product is subject to review and acceptance by the City, and must be revised by the Consultant without additional charge to the City until found satisfactory and accepted by City.

VI. Consultant will utilize qualified personnel with the following titles to perform the Services required by the applicable Task Order. Consultant shall obtain the Contract Officer's advanced written approval when replacing any individual assigned to perform services on Task Orders:

A. Danny Kaye,Principal, Sr. Construction Project Manager

B. Alejandro Pinel, Construction Project Manager

C. Patrick Lappin, Sr. Construction Project Manager

D. Sandra Gonzalez, Sr. Project Manager

E. Ethan Erickson, Project Engineer

F. Henry Graves, QA/QC

G. Koury, Subcontractor, Inspection/Lab Testing

EXHIBIT "C"
SCHEDULE OF COMPENSATION

I. **This Schedule of Compensation governs Consultant's compensation in the event the Consultant performs services pursuant to a Notice to Proceed on a Task Order. This Agreement does not guarantee that Consultant will be selected to perform services on Task Orders.**

The not to exceed compensation amounts are as follows:

January 1, 2024 through June 30, 2024 - $94,250.00

July 1, 2024 through June 30, 2025 – ~~$192,270.00*~~ ***$592,270.00***

July 1, 2025 through June 30, 2026 – $196,115.00~~*~~

Total: ~~$482,635.00~~ ***$882,635.00***

July 1, 2026 through June 30, 2027 – $200,037.00 (extension period)~~*~~

July 1, 2027 through June 30, 2028 – $204,038 (extension period)~~*~~

~~*Amount reflects 2% increase from prior year.~~

II. **Consultant responding to the City's request for proposals on a project-specific Task Order shall establish a Task Budget for the Task Order, identifying the subtasks based on the time and rates of the personnel performing the subtasks, and itemizing all materials and equipment utilized and the costs thereof. If payment is to be made other than at completion of the services, then the phases of the performance and percentage of payment due shall also be shown in the Task Proposal. Consultant's proposals on Task Orders shall be based on hourly rates identical to the rates attached as Exhibit C-1.**

III. **The City will compensate Consultant for the Services performed upon submission of a valid invoice. Each invoice is to include:**

A. Line items for all personnel describing the work performed, the number of hours worked, and the hourly rate.

B. Line items for all materials and equipment properly charged to the Services.

C. Line items for all other approved reimbursable expenses claimed, with supporting documentation.

D. Line items for all approved subcontractor labor, supplies, equipment, materials, and travel properly charged to the Services.

IV. **The total compensation for the Services shall not exceed ~~$482,635.00~~*$882,635.00* as provided in Section 2.1 of this Agreement.**

V. **The Consultant's billing rates for all personnel are attached as Exhibit C-1.**

AMENDMENT NO. 2

TO AGREEMENT FOR CONTRACT SERVICES

THIS AMENDMENT NO. 2 TO THE AGREEMENT FOR CONTRACT SERVICES ("Amendment No. 2") by and between the CITY OF CARSON, a California municipal corporation ("City") and TOTUM CORP, a California corporation ("Consultant"), is effective as of the 1st day of July, 2025. City and Consultant are sometimes hereinafter individually referred to as "Party" and collectively referred to as the "Parties."

RECITALS

A. City and Consultant entered into that certain Agreement for Contract Services dated December 19, 2023 ("Agreement"), whereby Consultant agreed to provide City construction management and inspection services on an on-call basis for a two and one-half year term commencing January 1, 2024 and expiring June 30, 2026, for $482,635.00, with two additional options to extend by one year each.

B. Since commencement of the Term, Consultant has been selected and tasked to oversee the construction of Foisia Park and Carriage Crest Park ("Additional Services"), and as such, an additional $400,000.00 was allocated to this Agreement to allow Consultant to perform such services through June 30, 2025.

C. The Parties entered into an amendment to the Agreement dated January 21, 2025 ("Amendment No. 1) to specifically prescribe the Additional Services for an additional $400,000.00, thereby increasing the Contract Sum from $482,635.00 to $882,635.00, for that purpose.

D. The Parties now wish to amend the Agreement to increase the contract amount by $350,000, raising the total Contract Sum from $882,635.00 to $1,232,635.00, to cover the additional cost of services. These services include continued oversight of the project's implementation in accordance with approved plans and specifications, adherence to construction schedules, compliance with City and safety regulations, inspection of construction quality, and coordination with stakeholders to ensure timely delivery.

E. Section 2611(m)(3) of the Carson Municipal Code ("CMC") provides that any proposed amendment to a contract exceeding $75,000 requires solicitation unless the amendment concerns a change order under Section 2601(d) of the CMC in which event bidding will not be required irrespective of the amount of the change order.

F. This Amendment No. 2 qualifies as a change order because it concerns a change to the price arising out of reasonably unforeseeable circumstances borne out of the original scope of the Agreement.

TERMS

1. Contract Changes. The Agreement is amended as provided herein (added text shown in ***bold italics***, deleted text in ~~strikethrough font~~).

A. Section 2.1 (Contract Sum) is hereby amended to read in its entirety as follows:

"2.1 Contract Sum.

Subject to any limitations set forth in this Agreement, City agrees to pay Consultant the amounts specified in the "Schedule of Compensation" attached hereto as Exhibit "C" and incorporated herein by this reference. The total compensation, including reimbursement for actual expenses, shall not exceed ***One Million Two Hundred Thirty Two Thousand, Six Hundred Thirty Five Dollars and Zero Cents ($1,232,635.00)*** ~~Eight Hundred Eighty-Two Thousand, Six Hundred Thirty-Five Dollars and Zero Cents ($882,635.00)~~ (the "Contract Sum"), unless additional compensation is approved pursuant to Section 1.8. In the event City elects to exercise its options to extend the Term pursuant to Section 3.4 hereof, the Contract Sum will increase consistent with the additional not to exceed compensation applicable to each Extension Term, as set out in in Exhibit "C.""

B. Exhibit C (Schedule of Compensation) is hereby amended to read in its entirety as follows:

See attached.

2. Continuing Effect of Agreement. Except as amended by this Amendment No. 2, all provisions of the Agreement, and Amendment No. 1 shall remain unchanged and in full force and effect. From and after the date of this Amendment No. 2, whenever the term "Agreement" appears in the Agreement, it shall mean the Agreement, as amended by this Amendment No. 2 and Amendment No. 1 to the Agreement.

3. Affirmation of Agreement; Warranty Re Absence of Defaults. City and Consultant each ratify and reaffirm each and every one of the respective rights and obligations arising under the Agreement and Amendment No. 1. Each party represents and warrants to the other that there have been no written or oral modifications to the Agreement other than as provided herein and Amendment No. 1. Each party represents and warrants to the other that the Agreement is currently an effective, valid, and binding obligation.

Consultant represents and warrants to City that, as of the date of this Amendment No. 2, City is not in default of any material term of the Agreement and that there have been no events that, with the passing of time or the giving of notice, or both, would constitute a material default under the Agreement.

4. **Adequate Consideration.** The parties hereto irrevocably stipulate and agree that they have each received adequate and independent consideration for the performance of the obligations they have undertaken pursuant to this Amendment No. 2.

5. **Authority.** The persons executing this Amendment No. 2 on behalf of the parties hereto warrant that (i) such party is duly organized and existing, (ii) they are duly authorized to execute and deliver this Amendment No. 2 on behalf of said party, (iii) by so executing this Amendment No. 2, such party is formally bound to the provisions of this Amendment No. 2, and (iv) the entering into this Amendment No. 2 does not violate any provision of any other agreement to which said party is bound.

6. **Counterparts.** This Amendment No. 2 may be executed in any number of counterparts and each of such counterparts shall for all purposes be deemed to be an original, whether the signatures are originals, electronic, facsimiles or digital. All such counterparts shall together constitute but one and the same Amendment No. 2.

[SIGNATURES ON FOLLOWING PAGE]

IN WITNESS WHEREOF, the parties hereto have executed this Amendment No. 2 on the date and year first-above written.

CITY:

CITY OF CARSON, a municipal corporation

Lula Davis-Holmes, Mayor

ATTEST:

Dr. Khaleah K. Bradshaw, City Clerk

APPROVED AS TO FORM:
ALESHIRE & WYNDER, LLP

Sunny K. Soltani, City Attorney
[vas:rjl]

CONSULTANT:

TOTUM CORP, a California corporation

By: _____
Name: DANNY KAYE
Title: PRESIDENT

By: _____
Name: GIULIO ZANOLLA
Title: CEO

Two corporate officer signatures required when Consultant is a corporation, with one signature required from each of the following groups: 1) Chairman of the Board, President or any Vice President; and 2) Secretary, any Assistant Secretary, Chief Financial Officer or any Assistant Treasurer. CONSULTANT'S SIGNATURES SHALL BE DULY NOTARIZED, AND APPROPRIATE ATTESTATIONS SHALL BE INCLUDED AS MAY BE REQUIRED BY THE BYLAWS, ARTICLES OF INCORPORATION, OR OTHER RULES OR REGULATIONS APPLICABLE TO CONSULTANT'S BUSINESS ENTITY.

EXHIBIT "C"
SCHEDULE OF COMPENSATION

I. **This Schedule of Compensation governs Consultant's compensation in the event the Consultant performs services pursuant to a Notice to Proceed on a Task Order. This Agreement does not guarantee that Consultant will be selected to perform services on Task Orders.**

The not to exceed compensation amounts are as follows:

January 1, 2024 through June 30, 2024 - $94,250.00

July 1, 2024 through June 30, 2025 – $592,270.00

July 1, 2025 through June 30, 2026 – ~~$196,115.00~~ ***$546,115.00***

Total: ~~$882,635.00~~ ***$1,232,635.00***

July 1, 2026 through June 30, 2027 – $200,037.00 (extension period)

July 1, 2027 through June 30, 2028 – $204,038.00 (extension period)

II. **Consultant responding to the City's request for proposals on a project-specific Task Order shall establish a Task Budget for the Task Order, identifying the subtasks based on the time and rates of the personnel performing the subtasks, and itemizing all materials and equipment utilized and the costs thereof. If payment is to be made other than at completion of the services, then the phases of the performance and percentage of payment due shall also be shown in the Task Proposal. Consultant's proposals on Task Orders shall be based on hourly rates identical to the rates attached as Exhibit C-1.**

III. **The City will compensate Consultant for the Services performed upon submission of a valid invoice. Each invoice is to include:**

A. Line items for all personnel describing the work performed, the number of hours worked, and the hourly rate.

B. Line items for all materials and equipment properly charged to the Services.

C. Line items for all other approved reimbursable expenses claimed, with supporting documentation.

D. Line items for all approved subcontractor labor, supplies, equipment, materials, and travel properly charged to the Services.

IV. The total compensation for the Services shall not exceed ~~$882,635.00~~ *$1,232,635.00* as provided in Section 2.1 of this Agreement.

V. The Consultant's billing rates for all personnel are attached as Exhibit C-1.

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 6/5/2025

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER AssuredPartners Design Professionals Insurance Services, LLC 3697 Mt. Diablo Blvd Suite 230 Lafayette CA 94549 License#: 6003745	CONTACT NAME: Sandy Peters PHONE (A/C, No, Ext): 626-696-1901 FAX (A/C, No): E-MAIL ADDRESS: CertsDesignPro@AssuredPartners.com
INSURED Totum Corporation 310 351-0138 15130 Ventura Blvd., Unit A Sherman Oaks CA 91403 TOTUCOR-01	INSURER(S) AFFORDING COVERAGE / NAIC # INSURER A : Travelers Property Casualty Company of America 25674 INSURER B : Aspen American Insurance Company 43460 INSURER C : The Travelers Indemnity Company of Connecticut 25682 INSURER D : INSURER E : INSURER F :

COVERAGES **CERTIFICATE NUMBER:** 31401429 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
C	X COMMERCIAL GENERAL LIABILITY	Y	Y	6801J745121	6/5/2025	6/5/2026	EACH OCCURRENCE	$ 2,000,000
	CLAIMS-MADE [X] OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence)	$ 1,000,000
	X Contractual Liab						MED EXP (Any one person)	$ 10,000
	Included						PERSONAL & ADV INJURY	$ 2,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	$ 4,000,000
	POLICY [X] PRO-JECT LOC						PRODUCTS - COMP/OP AGG	$ 4,000,000
	OTHER:							$
C	AUTOMOBILE LIABILITY	Y	Y	BA8R387030	6/5/2025	6/5/2026	COMBINED SINGLE LIMIT (Ea accident)	$ 1,000,000
	ANY AUTO						BODILY INJURY (Per person)	$
	OWNED AUTOS ONLY / SCHEDULED AUTOS						BODILY INJURY (Per accident)	$
	X HIRED AUTOS ONLY / X NON-OWNED AUTOS ONLY						PROPERTY DAMAGE (Per accident)	$
								$
	UMBRELLA LIAB OCCUR						EACH OCCURRENCE	$
	EXCESS LIAB CLAIMS-MADE						AGGREGATE	$
	DED RETENTION $							$
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y / N		Y	UB3J306445	6/5/2025	6/5/2026	X PER STATUTE OTH-ER	
	ANYPROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? N / A (Mandatory in NH)						E.L. EACH ACCIDENT	$ 1,000,000
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE	$ 1,000,000
							E.L. DISEASE - POLICY LIMIT	$ 1,000,000
B	Professional Liability			AAAE10078806	6/5/2025	6/5/2026	Per Claim Aggregate Limit	$2,000,000 $2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Insured owns no company vehicles; therefore, hired/non-owned auto is the maximum coverage that applies.
Re: All Operations of the Named Insured.
City of Carson, its elected and appointed officers, employees, volunteers and agents are named as an additional insured as respects general liability and auto liability as required per written contract. General Liability is Primary/Non-Contributory per policy form wording. Insurance coverage includes waiver of subrogation per the attached endorsement(s).

CERTIFICATE HOLDER

City of Carson
701 E Carson Street
Carson CA 90745

Insurance Approved
DJ
7/7/2025

CANCELLATION 30 Day Notice of Cancellation

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE
Sandy Peters

© 1988-2015 ACORD CORPORATION. All rights reserved.

The ACORD name and logo are registered marks of ACORD

POLICY NUMBER:

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSURED – OWNERS, LESSEES OR CONTRACTORS – COMPLETED OPERATIONS

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE

Name Of Additional Insured Person(s) Or Organization(s):

Any person or organization that you agree in a written contract to include as an additional insured on this Coverage Part for "bodily injury" or "property damage" included in the "products-completed operations hazard", provided that such contract was signed and executed by you before, and is in effect when, the bodily injury or property damage occurs.

Location And Description Of Completed Operations

Any project to which an applicable contract described in the Name of Additional Insured Person(s) or Organization(s) section of this Schedule applies.

Information required to complete this Schedule, if not shown above, will be shown in the Declarations.

Section II – Who Is An Insured is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury" or "property damage" caused, in whole or in part, by "your work" at the location designated and described in the schedule of this endorsement performed for that additional insured and included in the "products-completed operations hazard".

© ISO Properties, Inc., 2004

POLICY NUMBER

COMMERCIAL GENERAL LIABILITY

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSURED – OWNERS, LESSEES OR CONTRACTORS – SCHEDULED PERSON OR ORGANIZATION

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE

Names of Additional Insured Person(s) or Organization(s):

Any person or organization that you agree in a written contract to include as an additional insured on this Coverage Part, provided that such written contract was signed by you before, and is in effect when, the "bodily injury" or "property damage" occurs or the "personal injury" or "advertising injury" offense is committed.

Location of Covered Operations:

Any project to which a written contract with the Additional Insured Person(s) or Organization(s) in the Schedule applies.

(Information required to complete this Schedule, if not shown above, will be shown in the Declarations.)

A. Section II – Who Is An Insured is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury", "property damage", "personal injury" or "advertising injury" caused, in whole or in part, by:

1. Your acts or omissions; or
2. The acts or omissions of those acting on your behalf;

in the performance of your ongoing operations for the additional insured(s) at the location(s) designated above.

B. With respect to the insurance afforded to these additional insureds, the following additional exclusions apply:

This insurance does not apply to "bodily injury" or "property damage" occurring, or "personal injury" or "advertising injury" arising out of an offense committed, after:

1. All work, including materials, parts or equipment furnished in connection with such work, on the project (other than service, maintenance or repairs) to be performed by or on behalf of the additional insured(s) at the location of the covered operations has been completed; or
2. That portion of "your work" out of which the injury or damage arises has been put to its intended use by any person or organization other than another contractor or subcontractor engaged in performing operations for a principal as a part of the same project.

Copyright 2005 The St. Paul Travelers Companies, Inc. All rights reserved.

Includes copyrighted material of Insurance Services Office, Inc. with its permission.

c. **Method Of Sharing**

If all of the other insurance permits contribution by equal shares, we will follow this method also. Under this approach each insurer contributes equal amounts until it has paid its applicable limit of insurance or none of the loss remains, whichever comes first.

If any of the other insurance does not permit contribution by equal shares, we will contribute by limits. Under this method, each insurer's share is based on the ratio of its applicable limit of insurance to the total applicable limits of insurance of all insurers.

d. **Primary And Non-Contributory Insurance If Required By Written Contract**

If you specifically agree in a written contract or agreement that the insurance afforded to an insured under this Coverage Part must apply on a primary basis, or a primary and non-contributory basis, this insurance is primary to other insurance that is available to such insured which covers such insured as a named insured, and we will not share with that other insurance, provided that:

(1) The "bodily injury" or "property damage" for which coverage is sought occurs; and

(2) The "personal and advertising injury" for which coverage is sought is caused by an offense that is committed;

subsequent to the signing of that contract or agreement by you.

5. **Premium Audit**

a. We will compute all premiums for this Coverage Part in accordance with our rules and rates.

b. Premium shown in this Coverage Part as advance premium is a deposit premium only. At the close of each audit period we will compute the earned premium for that period and send notice to the first Named Insured. The due date for audit and retrospective premiums is the date shown as the due date on the bill. If the sum of the advance and audit premiums paid for the policy period is greater than the earned premium, we will return the excess to the first Named Insured.

c. The first Named Insured must keep records of the information we need for premium computation, and send us copies at such times as we may request.

6. **Representations**

By accepting this policy, you agree:

a. The statements in the Declarations are accurate and complete;

b. Those statements are based upon representations you made to us; and

c. We have issued this policy in reliance upon your representations.

The unintentional omission of, or unintentional error in, any information provided by you which we relied upon in issuing this policy will not prejudice your rights under this insurance. However, this provision does not affect our right to collect additional premium or to exercise our rights of cancellation or nonrenewal in accordance with applicable insurance laws or regulations.

7. **Separation Of Insureds**

Except with respect to the Limits of Insurance, and any rights or duties specifically assigned in this Coverage Part to the first Named Insured, this insurance applies:

a. As if each Named Insured were the only Named Insured; and

b. Separately to each insured against whom claim is made or "suit" is brought.

8. **Transfer Of Rights Of Recovery Against Others To Us**

If the insured has rights to recover all or part of any payment we have made under this Coverage Part, those rights are transferred to us. The insured must do nothing after loss to impair them. At our request, the insured will bring "suit" or transfer those rights to us and help us enforce them.

9. **When We Do Not Renew**

If we decide not to renew this Coverage Part, we will mail or deliver to the first Named Insured shown in the Declarations written notice of the nonrenewal not less than 30 days before the expiration date.

If notice is mailed, proof of mailing will be sufficient proof of notice.

SECTION V – DEFINITIONS

1. "Advertisement" means a notice that is broadcast or published to the general public or specific market segments about your goods, products or services for the purpose of attracting customers or supporters. For the purposes of this definition:

a. Notices that are published include material placed on the Internet or on similar electronic means of communication; and

b. Regarding websites, only that part of a website that is about your goods, products or services for the purposes of attracting customers or supporters is considered an advertisement.

© 2017 The Travelers Indemnity Company. All rights reserved.
Includes copyrighted material of Insurance Services Office, Inc. with its permission.

occupational therapist or occupational therapy assistant, physical therapist or speech-language pathologist; or

(b) First aid or "Good Samaritan services" by any of your "employees" or "volunteer workers", other than an employed or volunteer doctor. Any such "employees" or "volunteer workers" providing or failing to provide first aid or "Good Samaritan services" during their work hours for you will be deemed to be acting within the scope of their employment by you or performing duties related to the conduct of your business.

3. The following replaces the last sentence of Paragraph **5.** of **SECTION III – LIMITS OF INSURANCE**:

For the purposes of determining the applicable Each Occurrence Limit, all related acts or omissions committed in providing or failing to provide "incidental medical services", first aid or "Good Samaritan services" to any one person will be deemed to be one "occurrence".

4. The following exclusion is added to Paragraph **2.**, **Exclusions**, of **SECTION I – COVERAGES – COVERAGE A – BODILY INJURY AND PROPERTY DAMAGE LIABILITY**:

Sale Of Pharmaceuticals

"Bodily injury" or "property damage" arising out of the violation of a penal statute or ordinance relating to the sale of pharmaceuticals committed by, or with the knowledge or consent of the insured.

5. The following is added to the **DEFINITIONS** Section:

"Incidental medical services" means:

a. Medical, surgical, dental, laboratory, x-ray or nursing service or treatment, advice or instruction, or the related furnishing of food or beverages; or

b. The furnishing or dispensing of drugs or medical, dental, or surgical supplies or appliances.

6. The following is added to Paragraph **4.b.**, **Excess Insurance**, of **SECTION IV – COMMERCIAL GENERAL LIABILITY CONDITIONS**:

This insurance is excess over any valid and collectible other insurance, whether primary, excess, contingent or on any other basis, that is available to any of your "employees" for "bodily injury" that arises out of providing or failing to provide "incidental medical services" to any person to the extent not subject to Paragraph **2.a.(1)** of Section **II** – Who Is An Insured.

K. MEDICAL PAYMENTS – INCREASED LIMIT

The following replaces Paragraph **7.** of **SECTION III – LIMITS OF INSURANCE**:

7. Subject to Paragraph **5.** above, the Medical Expense Limit is the most we will pay under Coverage **C** for all medical expenses because of "bodily injury" sustained by any one person, and will be the higher of:

a. $10,000; or

b. The amount shown in the Declarations of this Coverage Part for Medical Expense Limit.

L. AMENDMENT OF EXCESS INSURANCE CONDITION – PROFESSIONAL LIABILITY

The following is added to Paragraph **4.b.**, **Excess Insurance**, of **SECTION IV – COMMERCIAL GENERAL LIABILITY CONDITIONS**:

This insurance is excess over any of the other insurance, whether primary, excess, contingent or on any other basis, that is Professional Liability or similar coverage, to the extent the loss is not subject to the professional services exclusion of Coverage **A** or Coverage **B**.

M. BLANKET WAIVER OF SUBROGATION – WHEN REQUIRED BY WRITTEN CONTRACT OR AGREEMENT

The following is added to Paragraph **8.**, **Transfer Of Rights Of Recovery Against Others To Us**, of **SECTION IV – COMMERCIAL GENERAL LIABILITY CONDITIONS**:

If the insured has agreed in a written contract or agreement to waive that insured's right of recovery against any person or organization, we waive our right of recovery against such person or organization, but only for payments we make because of:

a. "Bodily injury" or "property damage" that occurs; or

b. "Personal and advertising injury" caused by an offense that is committed;

subsequent to the signing of that contract or agreement.

© 2017 The Travelers Indemnity Company. All rights reserved.
Includes copyrighted material of Insurance Services Office, Inc. with its permission.

TRAVELERS

WORKERS COMPENSATION
AND
EMPLOYERS LIABILITY POLICY

ENDORSEMENT WC 99 03 76 (A) –

POLICY NUMBER: UB3J306445

WAIVER OF OUR RIGHT TO RECOVER FROM OTHERS ENDORSEMENT – CALIFORNIA (BLANKET WAIVER)

We have the right to recover our payments from anyone liable for an injury covered by this policy. We will not enforce our right against the person or organization named in the Schedule.

The additional premium for this endorsement shall be % of the California workers' compensation premium.

Schedule

Person or Organization	Job Description
Any Person or organization for which the insured has agreed by written contract executed prior to loss to furnish this waiver.	

This endorsement changes the policy to which it is attached and is effective on the date issued unless otherwise stated.

(The information below is required only when this endorsement is issued subsequent to preparation of the policy.)

Sandy Peters

Insurance Company
Travelers Property Casualty Company of America

Countersigned by _____

DATE OF ISSUE: 6/5/2025

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

BLANKET WAIVER OF SUBROGATION

This endorsement modifies insurance provided under the following:

AUTO DEALERS COVERAGE FORM
BUSINESS AUTO COVERAGE FORM
MOTOR CARRIER COVERAGE FORM

The following replaces Paragraph **A.5., Transfer of Rights Of Recovery Against Others To Us**, of the **CONDITIONS** Section:

5. Transfer Of Rights Of Recovery Against Others To Us

We waive any right of recovery we may have against any person or organization to the extent required of you by a written contract executed prior to any "accident" or "loss", provided that the "accident" or "loss" arises out of the operations contemplated by such contract. The waiver applies only to the person or organization designated in such contract.

© 2015 The Travelers Indemnity Company. All rights reserved.
Includes copyrighted material of Insurance Services Office, Inc. with its permission.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

BLANKET ADDITIONAL INSURED

This endorsement modifies insurance provided under the following:

BUSINESS AUTO COVERAGE FORM
MOTOR CARRIER COVERAGE FORM

The following is added to Paragraph **c.** in **A.1., Who Is An Insured**, of **SECTION II – COVERED AUTOS LIABILITY COVERAGE** in the **BUSINESS AUTO COVERAGE FORM** and Paragraph **e.** in **A.1., Who Is An Insured**, of **SECTION II – COVERED AUTOS LIABILITY COVERAGE** in the **MOTOR CARRIER COVERAGE FORM**, whichever Coverage Form is part of your policy:

This includes any person or organization who you are required under a written contract or agreement between you and that person or organization, that is signed by you before the "bodily injury" or "property damage" occurs and that is in effect during the policy period, to name as an additional insured for Covered Autos Liability Coverage, but only for damages to which this insurance applies and only to the extent of that person's or organization's liability for the conduct of another "insured".

© 2016 The Travelers Indemnity Company. All rights reserved.
Includes copyrighted material of Insurance Services Office, Inc. with its permission.

AMENDMENT NO. 3

TO AGREEMENT FOR CONTRACT SERVICES

THIS AMENDMENT NO. 3 TO THE AGREEMENT FOR CONTRACT SERVICES ("Amendment No. 3") by and between the CITY OF CARSON, a California municipal corporation ("City") and TOTUM CORP, a California corporation ("Consultant"), is effective as of the ___ day of March, 2026. City and Consultant are sometimes hereinafter individually referred to as "Party" and collectively referred to as the "Parties."

RECITALS

A. City and Consultant entered into that certain Agreement for Contract Services dated December 19, 2023 ("Agreement"), whereby Consultant agreed to provide City construction management and inspection services on an on-call basis for a two and one-half year term commencing January 1, 2024 and expiring June 30, 2026, for $482,635.00, with two additional options to extend by one year each.

B. Since commencement of the Term, Consultant has been selected and tasked to oversee the construction of Foisia Park and Carriage Crest Park ("Additional Services"), and as such, an additional $400,000.00 was allocated to this Agreement to allow Consultant to perform such services through June 30, 2025.

C. The Parties entered into an amendment to the Agreement dated January 21, 2025 ("Amendment No. 1") to specifically prescribe the Additional Services for an additional $400,000.00, thereby increasing the Contract Sum from $482,635.00 to $882,635.00, for that purpose.

D. The Parties entered into an amendment to the Agreement dated July 1, 2025 ("Amendment No. 2") to increase the contract amount by $350,000.00, raising the total Contract Sum from $882,635.00 to $1,232,635.00, to cover the additional cost of services. These services include continued oversight of the project's implementation in accordance with approved plans and specifications, adherence to construction schedules, compliance with City and safety regulations, inspection of construction quality, and coordination with stakeholders to ensure timely delivery.

E. The Parties now wish to amend the Agreement to extend the Term through December 30, 2026, with an increase in total compensation of $250,000.00, raising the total Contract Sum from $1,232,635.00 to $1,482,635.00 to continue providing construction management and inspection services.

TERMS

1. Recitals. The Recitals set forth above are incorporated into and are a part of this Amendment No. 3.

2. Terms and Definitions. All words, terms, and phrases used or referenced in this Amendment No. 3, not expressly defined in this Amendment No. 3, shall have the same meaning ascribed to them in the Agreement.

3. Contract Changes. The Agreement is amended as provided herein (added text shown in ***bold italics***, deleted text in ~~strikethrough font~~).

A. Section 2.1 (Contract Sum) of the Agreement is hereby amended to read in its entirety as follows:

"2.1 Contract Sum.

Subject to any limitations set forth in this Agreement, City agrees to pay Consultant the amounts specified in the "Schedule of Compensation" attached hereto as Exhibit "C" and incorporated herein by this reference. The total compensation, including reimbursement for actual expenses, shall not exceed One Million ~~Two~~ ***Four*** Hundred ~~Thirty~~ ***Eighty*** Two Thousand, Six Hundred Thirty Five Dollars and Zero Cents ($***1,482,635.00*** ~~1,232,635.00~~) (the "Contract Sum"), unless additional compensation is approved pursuant to Section 1.8. In the event City elects to exercise its options to extend the Term pursuant to Section 3.4 hereof, the Contract Sum will increase consistent with the additional not to exceed compensation applicable to each Extension Term, as set out in in Exhibit "C.""

B. Section 3.4 (Term) of the Agreement is hereby amended to read in its entirety as follows:

"3.4 Term.

Unless earlier terminated in accordance with Article 7 of this Agreement, this Agreement shall continue in full force and effect until completion of the services commencing January 1, 2024 and expiring ~~June 30~~ ***December 30***, 2026, except as otherwise provided in the Schedule of Performance (Exhibit "D"). The City may, at its sole discretion, elect to extend the Term by ***up to one and half (1.5) years commencing December 31, 2026 through*** two (2) additional ~~one-year~~ terms***: a first term of six (6) months and a second term of one (1) year*** (each, an "Extension Term"). The pricing to be applied for each Extension Term is listed in Exhibit "C.""

C. Exhibit C (Schedule of Compensation) of the Agreement is hereby amended to read in its entirety as follows:

See attached.

4. Continuing Effect of Agreement. Except as amended by this Amendment No. 3, all provisions of the Agreement, Amendment No. 1, and Amendment No. 2 shall remain unchanged and in full force and effect. From and after the date of this Amendment No. 3, whenever the term "Agreement" appears in the Agreement, it shall mean the Agreement, as amended by Amendment No. 1, Amendment No. 2, and this Amendment No. 3 to the Agreement.

5. Affirmation of Agreement; Warranty Re Absence of Defaults. City and Consultant each ratify and reaffirm each and every one of the respective rights and obligations arising under the Agreement, Amendment No. 1 and Amendment No. 2. Each party represents and warrants to the other that there have been no written or oral modifications to the Agreement other than as provided herein, Amendment No. 1 and Amendment No. 2. Each party represents and warrants to the other that the Agreement is currently an effective, valid, and binding obligation.

Consultant represents and warrants to City that, as of the date of this Amendment No. 3, City is not in default of any material term of the Agreement and that there have been no events that, with the passing of time or the giving of notice, or both, would constitute a material default under the Agreement.

City represents and warrants to Consultant that, as of the date of this Amendment No. 3, Consultant is not in default of any material term of the Agreement and that there have been no events that, with the passing of time or the giving of notice, or both, would constitute a material default under the Agreement.

6. Adequate Consideration. The parties hereto irrevocably stipulate and agree that they have each received adequate and independent consideration for the performance of the obligations they have undertaken pursuant to this Amendment No. 3.

7. Authority. The persons executing this Amendment No. 3 on behalf of the parties hereto warrant that (i) such party is duly organized and existing, (ii) they are duly authorized to execute and deliver this Amendment No. 3 on behalf of said party, (iii) by so executing this Amendment No. 3, such party is formally bound to the provisions of this Amendment No. 3, and (iv) the entering into this Amendment No. 3 does not violate any provision of any other agreement to which said party is bound.

8. Counterparts. This Amendment No. 3 may be executed in any number of counterparts and each of such counterparts shall for all purposes be deemed to be an original, whether the signatures are originals, electronic, facsimiles or digital. All such counterparts shall together constitute but one and the same Amendment No. 3.

[SIGNATURES ON FOLLOWING PAGE]

IN WITNESS WHEREOF, the parties hereto have executed this Amendment No. 3 on the date and year first-above written.

CITY:

CITY OF CARSON, a municipal corporation

_____
Lula Davis-Holmes, Mayor

ATTEST:

_____
Dr. Khaleah K. Bradshaw, City Clerk

APPROVED AS TO FORM:
ALESHIRE & WYNDER, LLP

_____
Sunny K. Soltani, City Attorney
[pks; rjl]

CONSULTANT:

TOTUM CORP, a California corporation

By:_____
Name:
Title:

By:_____
Name:
Title:

Two corporate officer signatures required when Consultant is a corporation, with one signature required from each of the following groups: 1) Chairman of the Board, President or any Vice President; and 2) Secretary, any Assistant Secretary, Chief Financial Officer or any Assistant Treasurer. APPROPRIATE ATTESTATIONS SHALL BE INCLUDED AS MAY BE REQUIRED BY THE BYLAWS, ARTICLES OF INCORPORATION, OR OTHER RULES OR REGULATIONS APPLICABLE TO CONSULTANT'S BUSINESS ENTITY.

EXHIBIT "C"
SCHEDULE OF COMPENSATION

I. This Schedule of Compensation governs Consultant's compensation in the event the Consultant performs services pursuant to a Notice to Proceed on a Task Order. This Agreement does not guarantee that Consultant will be selected to perform services on Task Orders.

The not to exceed compensation amounts are as follows:

January 1, 2024 through June 30, 2024 -	$94,250.00
July 1, 2024 through June 30, 2025 –	$592,270.00
July 1, 2025 through ***December***~~June~~ 30, 2026 –	***$796,115.00***~~$546,115.00~~

Total:	~~$1,232,635.00~~ ***$1,482,635.00***

~~July~~***December 3***1, 2026 through June 30, 2027 – $***100,018.50***~~200,037.00~~ (extension period)

July 1, 2027 through June 30, 2028 – $204,038.00 (extension period)

II. Consultant responding to the City's request for proposals on a project-specific Task Order shall establish a Task Budget for the Task Order, identifying the subtasks based on the time and rates of the personnel performing the subtasks, and itemizing all materials and equipment utilized and the costs thereof. If payment is to be made other than at completion of the services, then the phases of the performance and percentage of payment due shall also be shown in the Task Proposal. Consultant's proposals on Task Orders shall be based on hourly rates identical to the rates attached as Exhibit C-1.

III. The City will compensate Consultant for the Services performed upon submission of a valid invoice. Each invoice is to include:

A. Line items for all personnel describing the work performed, the number of hours worked, and the hourly rate.

B. Line items for all materials and equipment properly charged to the Services.

C. Line items for all other approved reimbursable expenses claimed, with supporting documentation.

D. Line items for all approved subcontractor labor, supplies, equipment, materials, and travel properly charged to the Services.

IV. The total compensation for the Services shall not exceed $*1,482,635.00* ~~1,232,635.00~~ as provided in Section 2.1 of this Agreement.

V. The Consultant's billing rates for all personnel are attached as Exhibit C-1.

Report to Honorable Mayor and City Council

Tuesday, March 17, 2026, 5:00 PM

CONSENT 24.

To: Honorable Mayor and City Council

From: Dr. Arlington Rodgers, Director of Public Works PW Engineering

Subject: CONSIDER APPROVAL OF AMENDMENT NO. 1 TO THE AGREEMENT WITH PCN3, INC. FOR PROJECT NO. 1726 – COMMUNITY CENTER COURTYARD AND EAST PARKING LOT IMPROVEMENTS, AND ADOPTION OF RESOLUTION NO. 26-024 AMENDING THE FISCAL YEAR 2025-2026 BUDGET IN THE GENERAL FUND, SPECIAL REVENUE FUNDS, ENTERPRISE FUNDS, AND CAPITAL IMPROVEMENT PROGRAM (CIP) FUND (CITY COUNCIL)

I. SUMMARY

On September 17, 2024, the City Council approved a construction contract with PCN3, Inc. for Project No. 1726 - Community Center Courtyard and East Parking Lot Improvements in the amount of $9,989,558.13. This project includes improvements to the Community Center courtyard and the adjacent East Parking Lot, which are important public spaces used by residents and visitors for community events, recreation, and access to City facilities. At the time the contract was awarded, the City Council did not authorize contingency funds for the project. Contingency funds are typically set aside to address unexpected conditions or changes that may arise during construction. As construction progressed, several unforeseen conditions were encountered that could not have been fully identified during the design phase. These conditions required immediate attention in order to maintain construction progress and keep the project moving according to schedule. The issues encountered included conflicts with existing underground utilities such as storm drain and water lines, which required adjustments to ensure the new improvements could be safely installed. In addition, irrigation systems had to be relocated, hazardous materials were identified and removed, and additional structural support was needed in certain areas to ensure the long-term stability of the improvements.

Other construction adjustments included modifications to site grading i.e., the shaping and leveling of the ground, replacement of certain sections of concrete that did not meet project requirements, and other design clarifications that became necessary once construction activities began. In addition, several improvements were added to the project in order to enhance functionality and coordination with surrounding facilities. These additions included the construction of the North Entrance Plaza and installation of additional communication conduit, which provides important underground pathways for future communication and technology infrastructure. Because these conditions and adjustments were not known at the time the original construction contract was awarded, additional work was required beyond the scope of the original contract. As a result, additional funding is necessary to compensate the contractor for the extra work that has been completed to address these issues and ensure the project is built properly.

Consequently, staff is requesting that the City Council approve the proposed Amendment No. 1 to the construction agreement with PCN3, Inc. in the amount of $461,614.28. This amendment will cover the costs associated with the design revisions, unforeseen construction conditions, and additional work required to complete the project improvements (Exhibit No. 1). A detailed breakdown of the additional costs and related construction items is provided in Exhibit No. 3.

II. RECOMMENDATION

TAKE the following actions:

1. APPROVE the proposed Amendment No. 1 to the Public Works Agreement with PCN3, Inc. in the amount of $461,614.28 to cover costs associated with design revisions, unforeseen construction conditions, and additional work performed during construction;
2. Adopt Resolution No. 26-024, titled "A RESOLUTION OF THE CITY OF CARSON CITY COUNCIL AMENDING THE FISCAL YEAR 2025-2026 BUDGET IN THE GENERAL FUND, SPECIAL REVENUE FUNDS, ENTERPRISE FUNDS, AND THE CAPITAL IMPROVEMENT PROGRAM (CIP) FUND," to increase the budget authority for Project PW1725 by $461,614.28 (Exhibit No. 2);
3. AUTHORIZE the Mayor to execute the proposed Amendment No. 1 to the agreement with PCN3, Inc., subject to approval as to form by the City Attorney; and,
4. AMEND the Fiscal Year 2025-2026 Capital Improvement Program (CIP) Plan to reflect the updated project funding for this project (Exhibit No. 4).

III. ALTERNATIVES

1. DO NOT APPROVE Amendment No. 1; however, staff will not have sufficient funding available to complete the full scope of work associated with Project No. 1726 - Community Center Courtyard and East Parking Lot Improvements.
2. TAKE any other action the City Council deems appropriate and consistent with applicable law.

IV. BACKGROUND

On September 17, 2024, the City Council approved a construction contract with PCN3, Inc. for Project No. 1726 – Community Center Courtyard and East Parking Lot Improvements in the amount of $9,989,558.13. At the time the contract was awarded, a construction contingency fund was not included for the project. A contingency is typically set aside to address unexpected conditions or adjustments that may arise during construction. The professional design services for the project, including preparation of the Plans, Specifications, and Engineer's Estimates (PS&E), the detailed drawings and construction documents used to build the project, were provided by ADL Planning Inc., which served as the project's landscape architect and engineering consultant.

Project No. 1726 is included in the City's Fiscal Year 2024-2025 Capital Improvement Program (CIP). For reference only, the CIP is the City's long-term plan for constructing and improving public facilities and infrastructure throughout the community. The goal of this particular project is to enhance the Community Center and surrounding areas by creating a flexible outdoor gathering space that can accommodate performances, community events, and other public activities. Key elements of the project included the construction of a 1,000-square-foot outdoor stage for an amphitheater, a new audience seating area, and a pergola structure adjacent to the audience area near Hall A to provide shade and visual interest. The project also includes the remodeling and expansion of the existing courtyard outside Room 107, which incorporates new landscaping features, including a decorative waterfall element and pergola. Additional improvements include new decorative paving and hardscape, landscaping and irrigation, site lighting, and the reconfiguration of the East Parking Lot at the Carson Event Center to create an open and flexible space that can be used for outdoor community events.

During construction, several unforeseen conditions were encountered that could not be fully identified during the design phase of the project. In order to keep the project moving forward and meet the established construction schedule, including the timeline associated with the project's planned grand opening, staff worked closely with department leadership and authorized the contractor to proceed with certain additional work that was necessary to avoid delays and prevent higher costs later in the project. The design revisions and unforeseen conditions addressed during construction included several technical and site-related adjustments. For example, irrigation systems serving areas outside the construction zone needed to remain operational during construction, which required installation of temporary bypass connections. Additional structural footing support was required for a parking lot light pole foundation that was discovered during excavation work. Some areas of decorative stamped concrete outside the originally planned construction limits also had to be removed and replaced to ensure a consistent and safe finished surface for the community. In addition, certain originally bid items, such as a prefabricated storage shed and directional signage, were removed from the project scope of work.

Other improvements were added to enhance the functionality and overall appearance of the facility. These include construction of a new North Entrance Plaza, which serves as a welcoming gateway to both the courtyard and the amphitheater venue. Additional underground conduit was installed to accommodate Information Technology communication lines, replacing an existing cable that had been directly buried in the ground. During construction, hazardous asbestos-containing materials were also encountered and safely removed and disposed of in accordance with appropriate environmental regulations.

Additional adjustments were necessary to address conflicts with underground utilities and drainage systems. These included modifications to existing storm drain systems to integrate with the newly designed drainage infrastructure, realignment of an existing 21-inch storm drain pipe that was not accurately shown on the original plans and conflicted with the new infiltration system, and relocation of an existing 4-inch copper water main that conflicted with the foundations for the project's shade sail structures. Structural adjustments were also required after shop drawings confirmed the final dimensions of certain architectural elements, which required the addition of two columns and associated foundations.

Other field adjustments included relocating and repairing irrigation systems affected by grading and new concrete work, removing and replacing additional concrete in several areas including the North Entrance Plaza and the Daycare area, and waterproofing certain concrete masonry unit (CMU) foundation walls. Additional work was also required to modify pergola foundations that conflicted with nearby retaining wall construction, install additional reinforced concrete slabs beneath decorative pavers, and provide extra mesh screening and handrails in areas where site elevations differed from the original design drawings. Grading adjustments were also needed in the Xeriscape landscaping area due to unexpected elevation differences. Finally, several bid items required quantity adjustments once actual field conditions were confirmed.

These conditions were identified during construction and the additional work was determined to be necessary to ensure the facility operates safely and efficiently. In many cases, addressing these issues during construction was much more practical and cost-effective than postponing the work to a later phase. Some conditions simply could not be fully identified during the design phase of the project and required adjustments once construction activities exposed the underlying site conditions. These changes were necessary to maintain structural integrity, ensure public safety, and deliver a fully functional facility for community use.

Overall, Project No. 1726 represents a significant improvement to the Community Center and East Parking Lot. The project creates a flexible outdoor amphitheater venue, enhances the courtyard with upgraded amenities, and provides a more adaptable space that can accommodate a wide variety of community events and activities. Construction of the project is substantially complete. The only remaining item is the fabrication and installation of the architectural louvers, which are custom-designed shade elements that require a longer manufacturing timeline. Installation of the louvers is currently anticipated to be completed in May 2026. In the meantime, professionally installed temporary shade coverage has been put in place to provide shade and ensure the space can continue to be used comfortably until the permanent louvers are installed.

Consequently, to address the additional work performed during construction, staff recommends that the City Council approve the proposed Amendment No. 1 to the construction agreement with PCN3, Inc. in the amount of $461,614.28. This amendment will provide the funding necessary to compensate the contractor for the unforeseen conditions, design revisions, and additional work required to successfully complete the project.

V. FISCAL IMPACT

If the City Council approves the proposed amendment, the additional $461,614.28 will be added to the existing construction contract with PCN3, Inc. This would increase the total contract amount from $9,989,558.13 to a new total not-to-exceed amount of $10,451,172.41. Funding for this amendment is already available within the City's adopted Fiscal Year 2025-2026 Budget. Specifically, the funds are included in the Engineering Professional Services account (Account No. 101-80-820-101-6004), which is used to support engineering and construction-related project services within the City's Capital Improvement Program. Because these funds have already been allocated in the adopted budget, approval of this proposed amendment will not require any additional budget appropriation. Consequently, if approved by the Council, the requested $461,614.28 will be formally added to the project budget in accordance with the attached Resolution No. 26-024, which authorizes the use of these funds for the project.

At the start of the fiscal year, the adopted budget for project PW1726 – Community Center Courtyard and East Parking Lot Improvements, was $7,662,020.29. With the addition of the proposed amendment, the fiscal year budget will be revised to $8,123,634.57.

VI. EXHIBITS

1. Proposed Contract Amendment No. 1
2. Resolution No. 26-024
3. Balancing Change Order No. 1
4. Amended FY 25/26 CIP Plan

Attachments

Exhibit 1 - Contract Amendment No. 1

Exhibit 2 - Budget Resolution 26-024

Exhibit 3 - Balancing Change Order No. 1

Exhibit 4 - Amended FY 25/26 CIP Plan

AMENDMENT NO. 1

TO PUBLIC WORKS AGREEMENT

THIS AMENDMENT TO THE PUBLIC WORKS AGREEMENT ("Amendment") by and between the CITY OF CARSON, a California municipal corporation ("City") and PCN3, INC., a California corporation ("Contractor"), is effective as of the ___ day of March, 2026. City and Contractor are sometimes hereinafter individually referred to as "Party" and hereinafter collectively referred to as the "Parties."

RECITALS

A. City and Contractor entered into that certain Public Works Agreement dated September 23, 2024 ("Agreement"), whereby Contractor agreed to provide constructions services in connection with City's Project No. 1726: Community Center Courtyard & East Parking Lot ("Project") for a total not-to-exceed Contract Sum of $9,989,558.13.

B. City and Contractor now desire to amend the Agreement to increase the total compensation by $461,614.28 for a new total not-to-exceed Contract Sum of $10,451,172.41 to accommodate Change Order 1, a copy of which is attached hereto and incorporated herein by this reference as Exhibit A-1. Change Order 1 includes numerous Project alterations necessitated by revisions to the Project design

C. Section 1.2 of the Agreement adopts the provisions of the 2021 Edition of the Standard Specifications for Public Works Construction, as updated by errata ("Greenbook"). The Greenbook and the Agreement authorize the Parties to incorporate Change Order 1 into the Agreement without regard to bidding considerations.

TERMS

1. **Incorporation of Recitals**. The Recitals set forth above are incorporated into and are a part of this Amendment.

2. **Terms and Definition.** All words, terms, and phrases used or referenced in this Amendment, not expressly defined in this Amendment, shall have the same meaning ascribed to them in the Agreement.

3. **Contract Changes**. The Agreement is amended as provided herein (new text is indicated in ***bold italics*** and deleted text in ~~strikethrough~~).

A. Section 1.1 (Scope of Work) of the Agreement is hereby amended to read in its entirety as follows:

"1.1 Scope of Work.

The Contractor shall perform all of the work, furnish all labor, materials, equipment, tools, utility services, and transportation, and comply with all of the

specifications and requirements in the Bid Documents for the project entitled Project No. PW1726: Community Center Courtyard (West) & East Parking Lot***, and complete all work detailed in Change Order 1*** ("**Project**"). All such work shall be performed in a good and workmanlike manner, as reasonably determined by the City, and shall be performed in compliance with all local, state, and federal laws and regulations. As used herein, "**Bid Documents**" refers to all of the documents included in the solicitation of bids for the Project, including but not limited to, the Invitation for Bids, Instructions to Bidders, Bid or Bid Proposal, Contract Documents, Special Provisions, Technical Provisions, Construction Plans, Standard Plans, Drawings, Reference Specifications, all applicable permit requirements, any addenda, any applicable Project Labor Agreement, and any other documents included, referenced, or incorporated therein. The Bid Documents are incorporated into this Agreement and made part hereof. In the event of any conflict between the terms of the Bid Documents and this Agreement, the terms of this Agreement shall govern."

B. Section 2.1 (Contract Sum) of the Agreement is hereby amended to read in its entirety as follows:

"2.1 Contract Sum.

Subject to any limitations set forth in this Agreement, City agrees to pay Contractor the amounts set forth in Contractor's Bid attached hereto as Exhibit A and incorporated herein by this reference. Subject to any additions or deductions that may be made by change order or amendment, and any penalties or damages that may be assessed against Contractor, Contractor shall receive total compensation, including reimbursement of Contractor's expenses, of an amount not to exceed ***Ten*** ~~Nine~~ Million ***Four*** ~~Nine~~ Hundred ***Fifty One*** ~~Eighty Nine~~ Thousand ***One*** ~~Five~~ Hundred ***Seventy Two*** ~~Fifty Eight~~ Dollars and ***Forty One*** ~~Thirteen~~ Cents (***$10,451,172.41***~~$9,989,558.13~~) ("Contract Sum") for completion of the work. The Contract Sum ***associated with Contractor's original bid*** reflects the aggregate unit pricing submitted by Contractor as part of its Bid, not Contractor's actual Bid amount which was $3.77 higher than the aggregate unit pricing."

C. The last paragraph of Exhibit "A" (Contractor's Bid) is hereby amended to read in its entirety as follows:

"The Contract Sum is ***$10,451,172.41 with*** $9,989,558.13 ***of this amount*** reflecting the aggregate unit pricing submitted by Contractor as part of its Bid Schedule ***associated with its original bid***, not Contractor's actual Bid amount which was $3.77 higher than the aggregate unit pricing."

4. **Continuing Effect of Agreement.** Except as amended by this Amendment, all provisions of the Agreement shall remain unchanged and in full force and effect. From and after the date of this Amendment, whenever the term "Agreement" appears in the Agreement, it shall mean the Agreement, as amended by the Amendment to the Agreement.

5. **Affirmation of Agreement; Warranty Re Absence of Defaults.** City and Contractor each ratify and reaffirm each and every one of the respective rights and obligations

arising under the Agreement. Each party represents and warrants to the other that there have been no written or oral modifications to the Agreement other than as provided herein. Each party represents and warrants to the other that the Agreement, as amended by this Amendment, is currently an effective, valid, and binding obligation.

Contractor represents and warrants to City that, as of the date of this Amendment, City is not in default of any material term of the Agreement and that there have been no events that, with the passing of time or the giving of notice, or both, would constitute a material default under the Agreement.

City represents and warrants to Contractor that, as of the date of this Amendment, Contractor is not in default of any material term of the Agreement and that there have been no events that, with the passing of time or the giving of notice, or both, would constitute a material default under the Agreement.

6. **Adequate Consideration.** The parties hereto irrevocably stipulate and agree that they have each received adequate and independent consideration for the performance of the obligations they have undertaken pursuant to this Amendment.

7. **Authority.** The persons executing this Amendment on behalf of the parties hereto warrant that (i) such party is duly organized and existing, (ii) they are duly authorized to execute and deliver this Amendment on behalf of said party, (iii) by so executing this Amendment, such party is formally bound to the provisions of this Amendment, and (iv) the entering into this Amendment does not violate any provision of any other agreement to which said party is bound.

8. **Counterparts.** This Amendment may be executed in any number of counterparts and each of such counterparts shall for all purposes be deemed to be an original, whether the signatures are originals, electronic, facsimiles or digital. All such counterparts shall together constitute but one and the same Amendment.

[SIGNATURES ON FOLLOWING PAGE]

IN WITNESS WHEREOF, the parties hereto have executed this Amendment on the date and year first-above written.

CITY:

CITY OF CARSON, a municipal corporation

_____
Lula Davis-Holmes, Mayor

ATTEST:

_____
Dr. Khaleah K. Bradshaw, City Clerk

APPROVED AS TO FORM:

ALESHIRE & WYNDER, LLP

_____
Sunny K. Soltani, City Attorney
[pks; rjl]

CONTRACTOR:

PCN3, INC., a California corporation

By: _____
Name:
Title:

By: _____
Name:
Title:

Two corporate officer signatures required when Contractor is a corporation, with one signature required from each of the following groups: 1) Chairman of the Board, President or any Vice President; and 2) Secretary, any Assistant Secretary, Chief Financial Officer or any Assistant Treasurer. APPROPRIATE ATTESTATIONS SHALL BE INCLUDED AS MAY BE REQUIRED BY THE BYLAWS, ARTICLES OF INCORPORATION, OR OTHER RULES OR REGULATIONS APPLICABLE TO CONTRACTOR'S BUSINESS ENTITY.

EXHIBIT A-1

CHANGE ORDER 1

SEE ATTACHED

RESOLUTION NO. 26-024

A RESOLUTION OF THE CITY OF CARSON CITY COUNCIL AMENDING THE FISCAL YEAR 2025-26 BUDGET IN THE GENERAL FUND, SPECIAL REVENUE FUNDS, ENTERPRISE FUNDS, AND THE CAPITAL IMPROVEMENT PROGRAM (CIP) FUND

WHEREAS, the City Council adopted the Fiscal Year 2025-26 budget on June 17, 2025, for the General Fund and Special Revenue Funds of the City via Resolution No. 25-076; and

WHEREAS, the City Council desires to amend the Fiscal Year 2025-26 budget; and

WHEREAS, the City Council has determined it necessary to amend the Fiscal Year 2025-26 General Fund budget, Special Revenue Funds, Enterprise Funds, and Capital Improvement Program (CIP) budget.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF CARSON DOES HEREBY RESOLVE, FIND, DETERMINE, AND ORDER AS FOLLOWS:

Section 1. The following amendment(s) will be made to the City's Fiscal Year 2025-26 budget.

Account	Description	Increase/(Decrease)
101-80-820-101-6004	Professional Services	($461,614.28)
101-99-999-904-8008-PW1726	Improvements Other Than Bldg	$461,614.28

Section 2. The City Clerk shall certify the adoption of this resolution and shall keep a copy of this resolution attached to the Fiscal Year 2025-26 budget on file, and effective as of March 17, 2026, the same shall be in force and effect.

PASSED, APPROVED, AND ADOPTED this 17th Day of March, 2026.

APPROVED AS TO FROM:

_____
Sunny K. Soltani, City Attorney

CITY OF CARSON:

_____
Lula Davis-Holmes, Mayor

ATTEST:

_____
Dr. Khaleah K. Bradshaw, City Clerk

STATE OF CALIFORNIA)
COUNTY OF LOS ANGELES) ss.
CITY OF CARSON)

I, Dr. Khaleah K. Bradshaw, City Clerk of the City of Carson, California, hereby attest to and certify that the foregoing resolution, being Resolution No. 26-024 adopted by the City of Carson City Council at its meeting held on March 17, 2026, by the following vote:

AYES: COUNCIL MEMBERS:

NOES: COUNCIL MEMBERS:

ABSTAIN: COUNCIL MEMEBES:

ABSENT: COUNCIL MEMBERS:

_____
Dr. Khaleah K. Bradshaw, City Clerk

CHANGE ORDER

PROJECT TITLE: Carson Community Center and East Parking Lot

TO CONTRACTOR:
PCN3

PROJECT NO: 1726

CHANGE ORDER NO: 01

DATE: 2/4/2026

Type of Change Order:

X	Increase / Decrease in Contract Quantities	____	Change in Contract Unit Prices
			Time and Materials (Estimated)
X	Agreed Lump Sum	____	(Notice to Proceed with Not To Exceed Estimated Amount)
			Time and Materials
____	Time Extension	____	(Final Price and Time)

Change Requested by: City (see items below)

You are hereby directed to make the herein described changes from the plans and specifications or do the following described work not included in the plans and specifications on this contract.

Description of work to be done, estimate of quantities, and prices to be paid: Segregate between additional work at current or revised contract unit prices, agreed lump sum price, and time & materials. Unless otherwise stated, rates for rental of equipment cover only such time as equipment is actually used and no allowance will be made for idle time.

1. Grading and Tree Removal at the Xeriscape Area ($19,838.94)
2. Changed Quantities in Various Bid items ($131,915.07)
3. Modify Concrete Paving at North Plaza and Daycare (22,691.86)
4. Additional Mesh Screens and Railing ($17,640.00)
5. Electrical Design for Pergola A and B ($9,450)
6. Planting Changes ($877.95)
7. Remove 3 Trees at Planter Behind Fountain Wall ($5,808.85)
8. Install tile at Fountain Columns and Cap & Repair Handrail ($10,260.80)
9. Saturdays Work Schedule Rate Adjustment ($19,624.63)
10. Credit for Removal of Striping from SOV (-$7,000)
11. Credit for Eliminating Storm Drain Behind the Fountain Area (- $10,000)
12. Payment for Concrete and Reinforcement Under Pavers ($150,000)
13. Additional Hours for Subcontractor prior to Grand Opening ($5,254.74)
14. Repair all unknown Irrigation Items Entire Project ($25,000)
15. Replace Valve at Xeriscape Area ($8,000)
16. Locate & Connect Existing Valves West of Small Courtyard area by the Walkway ($4,000)
17. Install Valve Wires at Atrium Area ($12,500)
18. Repair Valve B20 at Stage Area ($10,000)

19. Remove and Replace 90 Each Westringia and 10 CY Mulch ($10,000)
20. Balance Adjustment for Allowance Overage ($824.50)
21. Grade and Pour Step in Small Courtyard and Saw Cut for Concrete Footing at the NE Gate. ($14,926.94)

The total of this Change Order is not to exceed…….. $461,614.28

This Change Order is not valid until signed by the City of Carson

The original Contract Amount was	$9,989,558.13
Net change by previously authorized Change Orders	$0.00
The Contract Amount will be increased by this Change Order in the maximum amount of	$461,614.28
The new Contract Amount including this Change Order will be	$10,451,172.41
The Contract time will be increased by	TBD

THIS CHANGE ORDER CONSTITUTES FULL, FINAL, AND COMPLETE COMPENSATION TO THE CONTRACTOR FOR ALL COSTS, EXPENSES, OVERHEAD, PROFIT, AND ANY DAMAGES OF EVERY KIND THAT THE CONTRACTOR MAY INCUR IN CONNECTION WITH THE ABOVE REFERENCED CHANGES IN THE WORK, INCLUDING ANY IMPACT ON THE REFERENCED WORK OR ON ANY OTHER WORK UNDER THE CONTRACT, ANY CHANGES IN THE SEQUENCES OF ANY WORK, ANY DELAY TO ANY WORK, ANY DISRUPTION OF ANY WORK, ANY RESCHEDULING OF ANY WORK, AND ANY OTHER EFFECT ON ANY OF THE WORK UNDER THIS CONTRACT. BY THE EXECUTION OF THIS CHANGE ORDER, THE CONTRACTOR ACCEPTS THE CONTRACT PRICE CHANGE AND THE CONTRACT COMPLETION DATE CHANGE, IF ANY, AND EXPRESSLY WAIVES ANY CLAIMS FOR ANY ADDITIONAL COMPENSATION, DAMAGES OR TIME EXTENSIONS, IN CONNECTION WITH THE ABOVE-REFERENCED CHANGES. WE, THE UNDERSIGNED CONTRACTOR, HAVE GIVEN CAREFUL CONSIDERATION TO THE CHANGE PROPOSED AND HEREBY AGREE, IF THIS PROPOSAL IS APPROVED, THAT WE WILL ACCEPT AS FULL PAYMENT THEREFORE THE PRICE SHOWN ABOVE.

CONTRACTOR:			2/6/26
	Brian Abghari	Date	
REVIEWED BY:	K.S. Lambaz		2/9/2026
(Construction Manager)	Kal Lambaz, CM	Date	
SUBMITTED BY:			
(Project Manager)	Victor Lopez, PE	Date	
RECOMMENDED BY:			
(City Engineer)	Gilbert M. Marquez, PE	Date	
APPROVED BY:			
(Director of Public Works)	Dr. Arlington Rodgers, Jr.	Date	

FY2025-26 5-YEAR CAPITAL IMPROVEMENT PLAN

PHASE	PROJ #	TYPE	PROJECT NAME	DESCRIPTION	Total Project Estimate	FY 25-26 Adopted	FY25-26 Revised	FY26-27 Estimate	FY27-28 Estimate	FY28-29 Estimate
1 Construction	PW0675	Roadways	Sepulveda Blvd -Widening	The project involves widening and improvement of the roadway and bridge along Sepulveda Blvd to provide three lanes of traffic in both directions, construction of new sidewalk, relocation of existing electrical poles, and modification of existing traffic	$ 25,000,000	12409061.19	12409061.19	$ 13,102,001	$ -	$ -
1 Construction	PW1368	Parks	**Carriage Crest Park Expansion and Improvement Project	Refurbish main building facility and develop the additional 10 acres leased from Sanitation District. The project will include extending existing parking lot, adding new parking lot, Dog park, and remote restroom on South East end of property. New playgr	**$ 23,468,092**	**22058539.18**	**22558539.18**	**$ -**	**$ -**	**$ -**
1 Construction	PW1393-4	Roadways	Main Street Improvement from Carson St to Victoria	Citywide Annual Overlay Program - Main Street - Carson to Victoria. The project includes grinding existing asphalt pavement and overlay with ARHM to extend life of the pavement. 1	$ 3,600,000	239202.14	239202.14	$ -	$ -	$ -
1 Construction	PW1393-5	Roadways	Avalon Street Reconstruction	Citywide Annual Overlay Program - - Avalon Blvd - 223rd to Lomita. The project includes asphalt pavement overlay, concrete reconstruction, tree removal and replacement, repair of damage sidewalk, driveway approaches, curbs and gutter, access ramps. (Combine PW1620, 1393-5, 1411-5)	$ 7,500,000	0	0	$ -	$ -	$ -
1 Construction	PW1411-4	Roadways	Main Street Concrete Improvement from Carson St to Victoria	Annual concrete program - Main Street: Carson to Victoria. Concrete reconstruction, tree removal and replacement, repair of damage sidewalk, driveway approaches, curbs and gutter, access ramps to meet the requirements of ADA.	$ 500,000	33507	33507	$ -	$ -	$ -
1 Construction	PW1411-5	Roadways	Annual Concrete Program	Citywide Concrete Program - - Avalon Blvd - 223rd to South of Sepulveda. The project includes asphalt pavement overlay, concrete reconstruction, tree removal and replacement, repair of damage sidewalk, driveway approaches, curbs and gutter, access ramps. (Combine PW1620, 1393-5, 1411-5)	$ 3,000,000	0	0	$ 3,000,000	$ -	$ -
1 Construction	PW1515	Stormwater	Carson Stormwater Capture Facility at Carriage Crest Park	Compliance Project - Stormwater chambers under baseball field to divert stormwater into LA County Sanitation District's Regional & Water Pollution Control Plant	$ 22,110,713	500000	500000	$ -	$ -	$ -
1 Construction	PW1610	Parks	**Foisia Park Design and Construction	Design - Various upgrades to park facility. Competitive Grant and the award of funding will be available withing the next 3-4 months. Prop 68 1	**$ 12,800,000**	**10883932.5**	**10983932.5**	**$ -**	**$ -**	**$ -**
1 Construction	PW1630	Parks	**Anderson Park Electrical Panel- Design and Construction	Replace and upgrade main electrical switch gear and lighting control panel. (Combined PW1630 & PW1671)	$ 75,000	0	0	$ -	$ -	$ -
1 Construction	PW1632	Buildings	Community Center Coiling Wall & Seismic Analysis	Repair coiling wall at Community Center Main Hall - Seismic Analysis	$ 1,484,000	1247070.9	1247070.9	$ -	$ -	$ -
1 Construction	PW1636	Parks	**Mills Park Renovations	Install new shade structure over picnic shelters and outdoor exercise equipment, Construct Unisex restrooms (pre-fabrication) for public use, monument sign, wading pool demo - Per Capita Grant	$ 3,483,335	3483334.67	3483334.67	$ -	$ -	$ -
1 Construction	PW1648	Parks	*Athletic Field and walking path replacement Lighting -LED	Upgrade athletic field lights to central control lighting system and convert the existing lights to LED - All Parks	$ 3,387,951	3388069.3	3388069.3	$ -	$ -	$ -
1 Construction	PW1649	Traffic	Traffic Signal Intersection Upgrades - Avalon Blvd at Victoria, Main St at Sepulve	Traffic Signal Upgrades at 4 Intersections - Avalon Blvd at Victoria, Main St at Sepulveda, Main St and 223rd St, Figueroa St at Torrance Blvd)	$ 3,529,123	3330583	3330583	$ -	$ -	$ -
1 Construction	PW1657	Traffic	*Traffic Signal Upgrades (M312.41 and M312.46) - Figueroa St at 234th St, Figue	Traffic Signal Upgrades at 6 Intersections - Figueroa St at 234th St, Figueroa St at 223rd St, Figueroa St at Victoria St/190th St, Main St at 220th St, Main St at Albertoni St, and Main St at Victoria St Pending MTA's funding agreement for construction	**$ 6,000,000**	**3730000**	**3730000**	**$ 2,270,000**	**$ -**	**$ -**
1 Construction	PW1667	Traffic	*Upgrade existing traffic signal - Avalon Bl at Gardena Bl	Traffic Signal Upgrade to include addition of left turn phase on north and south bound direction of Avalon Blvd.	**$ 1,000,000**	**350000**	**1000000**	**$ -**	**$ -**	**$ -**
1 Construction	PW1674	Safety	**Security Cameras	Install tamper proof security cameras at parks. Work on broadband requirements. (Johnson Contols)	**$ 7,351,975**	**0**	**956000**	**$ -**	**$ -**	**$ -**
1 Construction	PW1676	Stormwater	City of Carson Stormwater Green Street Engineering, Design & Implementation	Compliance to the RWQCB stormwater - Includes engineered systems, permeable pavements & nature-based systems. The goal is to comply with regulations.	$ 3,000,000	2500000	2500000	$ -	$ -	$ -
1 Construction	PW1687	Roadways	Carson Street Intelligent Transportation System (ITS) Project	Installation of new fiber cables, the installation of 100' conduit gap across Main Street, CCTV cameras, hardware, software, and other elements that improve traffic flow on Carson Street from the 405 Fwy to Figueroa	**$ 1,297,012**	**700000**	**1297012**	**$ -**	**$ -**	**$ -**
1 Construction	PW1688	Roadways	Traffic Signal Synchronization Project (TSSP) - Avalon Bl from 126th St to Sepulv	Traffic signal synchronization at intersection (Total of 21 TSSP) along Avalon Bl from 126th St to Sepulveda Bl	$ 1,000,000	0	0	$ 1,000,000	$ -	$ -

FY2025-26 5-YEAR CAPITAL IMPROVEMENT PLAN

PHASE	PROJ #	TYPE	PROJECT NAME	DESCRIPTION	Total Project Estimate	FY 25-26 Adopted	FY25-26 Revised	FY26-27 Estimate	FY27-28 Estimate	FY28-29 Estimate
1 Construction	PW1691	Roadways	Avalon Street Rehabilitation	Avalon Blvd. Street Rehabilitation from Carson St. to 223rd Street. The project includes asphalt pavement grind and overlay, local removal and replacement of roadway section. It also includes concrete reconstruction, tree removal and replacement, repair of damage sidewalk, driveway approaches, curbs and gutter, access ramps.	$ 4,500,000	0	0	$ 4,500,000	$ -	$ -
1 Construction	PW1693	Buildings	****Electric Vehicle Charging Infrastructure	Install 128 EV Chargers in City Parks. At City Hall install EV Charger infrastructure and charging equipment. SCE Charge Ready Program - Assume SCE will cover all infrastructure.	$ 1,500,000	0	0	$ 1,500,000	$ -	$ -
1 Construction	PW1694	Roadways	*Bridge Maint Repair - Various Locations	Maintenance repair on vehicular bridges (20) per recommendation on the inspection report completed by Caltrans and LA County.	$ 1,778,705	1480101.2	1480101.2	$ -	$ -	$ -
1 Construction	PW1718	Parks	**Anderson Park Concrete Repair	Limited accessibility upgrades compliance. Concrete reconstruction, asphalt concrete pavement reconstruction, new curbs, steps, and added walkways.	$ 1,857,000	0	0	$ -	$ -	$ -
1 Construction	PW1722	Roadways	213th St Street Improvement (Avalon to Main)	213th St. Improvement from Avalon to Main. The project includes asphalt pavement grind and overlay, local removal and replacement of roadway section. It also includes concrete reconstruction, tree removal and replacement, repair of damage sidewalk, driveway approaches, curbs and gutter, access ramps.	$ 3,500,000	0	0	$ 1,361,864	$ -	$ -
1 Construction	PW1726	Buildings	Community Center Courtyard (West) & Community Center East Parking Lot	Redesign/Upgrade Courtyard area. Outdoor entertainment - Although used occasionally by the public, the West courtyard and garden area of the Community Center it is not optimized for reservations in private events. The project proposes redesigning to include a raised Amphitheatre stage, large shade sales , open grass and concrete seating areas , and enclosed fenced perimeter to accommodate private rentals. Additional lighting , sound , and landscape amenities will also be included. Redesign Parking lot island in front of East entrance - With the addition of a mobile stage for large scale citywide special events come on the east parking lot of the Community Center is in need of modification to allow for easy set up and orientation of the stage to accommodate better visibility and access by the community. Parking lot adjustments will include the full or partial elimination of a single parking lot planter and associated landscape adjustments. The resulting design will allow for the stage to be erected at the east entrance of the Community Center with the stage facing toward the east.	$ 10,000,000	7662020.29	8123634.57	$ -	$ -	$ -
1 Construction	PW1730	Buildings	EV Chargers at Community Center West Wing	Install EV Charger Level 3 infrastructure and charging equipment at Community Center West Wing	$ 288,341	0	0	$ -	$ -	$ -
1 Construction	PW1731	Safety	EOC/Basement Renovations	Modify CY facility to accommodate for all upgrades required	$ 6,506,000	0	0	$ -	$ -	$ -
1 Construction	PW1763	Roadways	Citywide Slurry Seal	Citywide Slurry Seal Project	$ 3,500,000	0	0	$ -	$ -	$ -
1 Construction	PW1773	Roadways	CATCP	CARSON ACTIVE TRANSPORTATION AND COMMUNITY CONNECTIVITY PLAN (CATCP) Transportation studies and planning work to develop the CAT-CP to bring safety and connectivity to the disadvantaged communities of Carson.	$ 405,000	15963.97	15963.97	$ -	$ -	$ -
1 Construction	PW1774	Roadways	Sepulveda (110 Fwy to Figueroa)	Sepulveda Blvd. Grind and Overlay. The project includes asphalt pavement grind and overlay, local removal and replacement of roadway section. It also includes concrete reconstruction, tree removal and replacement, repair of damage sidewalk, driveway approaches, curbs and gutter, access ramps.	$ 700,000	0	0	$ 700,000	$ -	$ -
1 Construction	PW1784	Roadways	Traffic Signal Modification	Traffic Signal modification at Central Avenue and University Drive: Install left turn arrows on all approaches at the intersection of Central Avenue and University Drive.	$ 600,000	800000	800000	$ -	$ -	$ -
1 Construction	PW1786	Buildings	City Hall Bathroom and Kitchenette Renovations	Renovating all City Hall restrooms and upgrading to current Americans with Disabilities Act standards and applicable California Building Codes.	$ 1,697,000	1291660.94	1291660.94	$ -	$ -	$ -
1 Construction	PW1787	Buildings	CH Lobby Carpet Replacement	Replacing the carpet and base of the 2nd floor of city hall, 1st floor lobby, and stair access corridor adjacent to the City Clerks office. The project also includes resurfacing the concrete bands throughout the 1st floor.	$ -	102160	102160	$ -	$ -	$ -
1 Construction	PW1790	Buildings	Community Center Lighting and AV Equipmeny Upgrade	Upgrade existing lighting and AV equipment at Community Center Main Hall.	$ 1,200,000	0	0	$ 1,200,000	$ -	$ -
1 Construction	PW1795	Parks	Mills Park Rec Center Renovation	Upgrades and Improvements to the Recreation Center at Mills Park	$ 3,000,000	3000000	3000000	$ -	$ -	$ -
2 Design	PW1451	Bikeways	Bike Lane Installation - Carson St, Figueroa, Main St, and Victoria St	Design and construction of 14.6 mile bike lanes on Carson St, Figueroa, Main St, and Victoria St, including median modification to accommodate bike lane buffer zone	$ 4,264,445	2132223	784223	$ 2,132,223	$ -	$ -

FY2025-26 5-YEAR CAPITAL IMPROVEMENT PLAN

PHASE	PROJ #	TYPE	PROJECT NAME	DESCRIPTION	Total Project Estimate	FY 25-26 Adopted	FY25-26 Revised	FY26-27 Estimate	FY27-28 Estimate	FY28-29 Estimate
2 Design	PW1452	Bikeways	Bike Lane Installation - 223rd St, Avalon Bl, Central Ave, Del Amo Bl, and Univer	Design and construction of bike lanes on 223rd St, Avalon Bl, Central Ave, Del Amo Bl, and University Dr including median modification to accommodate bike lane buffer zone	$ 13,239,100	6619550	5320550	$ 6,619,550	$ -	$ -
2 Design	PW1490	Bikeways	Dominguez Channel Bike Path I	Bike path installation along Dominguez Channel from Main St to Avalon Blvd. Its construction also includes the bridge over the ravine to continue the alignment to Avalon Boulevard	$ 12,557,174	0	0	$ 12,557,174	$ -	$ -
2 Design	PW1534	Bikeways	Active Transporation Program - Santa Fe Bike Lane	Design and construction 1.5 mile bike lane along Santa Fe Ave between Del Amo Bl and Warnock Wy (Metro Funded) Upgrade of curb ramps citywide.	$ 3,451,000	3451000	3451000	$ -	$ -	$ -
2 Design	PW1536	Roadways	Rapid Bus Priority System	Purchase and installation of bus shelters to improve the bus stops at 10 locations along Avalon Blvd and along Victoria Street within the vicinity of the Dignity Health Sports Park and CSUDH campus. The improvement involves covered bus shelters that are illuminated by solar powered batteries, installation of bike racks, repairs of adjacent sidewalks, and wayfinding signage.	$ 524,318	524318	524318	$ -	$ -	$ -
2 Design	PW1546	Roadways	Green Streets & Stormwater Sustainability Compliance	Stormwater management practices including engineered systems to manage stormwater runoff from impervious surfaces - $200k per year and funded by Measure M	$ 1,000,000	200000	200000	$ 200,000	$ 200,000	$ 200,000
2 Design	PW1600	Bikeways	Dominguez Channel Bike Path II	Bike path installation along Dominguez Channel from Avalon to Carson St	$ 5,423,682	0	0	$ 993,168	$ 4,430,514	$ -
2 Design	PW1608	Roadways	MLK Blvd Improvements	Reconstruction of Martin Luther King Blvd. The project includes removal and replacement of existing native soil and aggregate base to reconstruct roadway section per current City Standard.	$ 6,000,000	0	0	$ 6,000,000	$ -	$ -
2 Design	PW1612	Traffic	*Traffic Signal Installation- Broadway and Griffith	Traffic signal installation at Broadway and Griffith	$ 600,000	200000	200000	$ 300,000	$ -	$ -
2 Design	PW1613	Traffic	Traffic Signal Installation - Main St at Lenardo Dr	Traffic signal installation at intersection - Main St and Lenardo Dr	$ 400,000	400000	400000	$ -	$ -	$ -
2 Design	PW1615	Traffic	Traffic Signal Installation - Lenardo Dr at Stamps Dr	Traffic signal installation at intersection - Lenardo Dr and Stamps Dr	$ 600,000	600000	600000	$ -	$ -	$ -
2 Design	PW1616	Traffic	Traffic Signal Installation-3 Driveways - Lenardo Dr at FOLA Driveways	Traffic signal installation at intersection - Lenardo Dr and FOLA Driveways	$ 1,500,000	1500000	1500000	$ -	$ -	$ -
2 Design	PW1617	Roadways	Lenardo Drive	Construction of new roadway to serve the 157 acre site development	$ 40,000,000	35000000	35000000	$ -	$ -	$ -
2 Design	PW1620	Roadways	Lomita Blvd-Street Improvement - Figueroa to Avalon	Lomita Blvd - The project includes pavement rehabilitation, tree removal and replacement, and concrete reconstruction. (Combine PW1620, 1393-5, 1411-5)	$ 5,000,000	0	0	$ 5,000,000	$ -	$ -
2 Design	PW1624	Roadways	Figueroa Street Improvement - Carson ST to Alondra	Figueroa Street Improvement - Torrance to 223rd. The project includes asphalt pavement grind and overlay, local removal and replacement of roadway section. It also includes concrete reconstruction, tree removal and replacement, repair of damage sidewalk, driveway approaches, curbs and gutter, access ramps.	$ 10,000,000	0	0	$ 10,000,000	$ -	$ -
2 Design	PW1640	Parks	**Replace Park Rubberized Play Surface and Playground Structures- Phase 2	Replace the entire rubberized play surface and play structures at Parks and Mini Parks (Stevenson North and Veterans)	$ 3,706,000	0	0	$ 3,706,000	$ -	$ -
2 Design	PW1647	Roadways	I-110 Freeway Arterial Improvements - Figueroa St at Del Amo Blvd, Figueroa St	Traffic signal system improvement on the arterial roadways along the east and west side of the i-110 corridor at 6 Intersections - Figueroa St at Del Amo Blvd, Figueroa St at I-110 NB Ramps, Figueroa St at I-110 SB Ramps, Main St at I-405 SB On Ramp, Main St at I-405 SB Off Ramp, and Hamilton Ave at Del Amo Blvd Pending MTA's approval for scope change and time extension	$ 6,000,000	0	0	$ 6,000,000	$ -	$ -
2 Design	PW1671	Parks	**Dolphin Park Electrical Panel Upgrade - design and Construction	Replace and upgrade electrical panels and lighting control for field lights. (Combined PW1671 & PW1630)	$ 100,000	150000	100000	$ -	$ -	$ -
2 Design	PW1677	Stormwater	Phase 1 -Stormwater Program	Phase 1 -Stormwater Program	$ 12,300,000	0	0	$ -	$ 12,300,000	$ -
2 Design	PW1682	Stormwater	Stormwater Master and Implementation Plan	Create a comprehensive Stormwater Implementation Plan to inform strategic stormwater capital planning, maintenance, operations, and program management in the City. The plan must consolidate municipal stormwater quality compliance; targeted drainage and flood improvements; operations, maintenance, and non-structural program management; and financial strategy (government grants, regional programs and partnerships, City funds if required, General Fund and Safe, Clean Water Program) into one guiding program.	$ 1,364,143	351000	351000	$ -	$ -	$ -
2 Design	PW1698	Roadways	*City Utilities Master Plan	1. Sewer & Storm Drain Line Evaluation throughout the City to determine capacity for future delvelopment. 2. Update reclaimed water pipeline network throughout the City. Working with WBMWD's engineering division	$ 325,000	0	0	$ 325,000	$ -	$ -

FY2025-26 5-YEAR CAPITAL IMPROVEMENT PLAN

PHASE	PROJ #	TYPE	PROJECT NAME	DESCRIPTION	Total Project Estimate	FY 25-26 Adopted	FY25-26 Revised	FY26-27 Estimate	FY27-28 Estimate	FY28-29 Estimate
2 Design	PW1700	Bikeways	Construction of Bike Facility and Active Transportation Improvements	Supplement the construction cost for more than 30 miles of bike facilities and active transportation improvements	$ 1,730,000	0	0	$ -	$ 1,730,000	$ -
2 Design	PW1702	Roadways	Lomita Boulevard Safety Improvements - Wilmington to Alameda	Street reconstruction of Lomita Blvd (Carson side)	$ 6,240,379	2000000	2000000	$ 4,240,379	$ -	$ -
2 Design	PW1706	Parks	Stevenson Park Bungalow Removal	Removal of bungalow "North End" (Combine PW1706 & PW1707)	$ -	0	0	$ -	$ -	$ -
2 Design	PW1707	Parks	Stevenson Park Picnic Shelters	Installation of New Picnic Shelters (Combine PW1707 & PW1706)	$ 1,000,000	0	0	$ 1,000,000	$ -	$ -
2 Design	PW1710	Roadways	Walnut St rehabilitation (Avalon to Central)	Walnut St rehabilitation from Avalon to Central. The project includes asphalt pavement grind and overlay, local removal and replacement of roadway section. It also includes concrete reconstruction, tree removal and replacement, repair of damage sidewalk, driveway approaches, curbs and gutter, access ramps.	$ 3,900,000	0	0	$ 3,900,000	$ -	$ -
2 Design	PW1715	Roadways	Streetscape Master Plan (Previously Titled Medians Plan)	Develop Streetscape Master Plan for medians and medians landscapinng Citywide	$ -	0	0	$ -	$ -	$ -
2 Design	PW1723	Buildings	International Scuplture Garden	City Council request, the existing statue of Jose Rizal is the first of potentially several historical leaders to be memorialized in the international sculpture garden. Staff recommendation is to congregate all sculptures in an accessible area adjacent to the Community Center and outside of the footprint of the proposed Teen/Innovation Center.	$ 200,000	0	0	$ -	$ -	$ -
2 Design	PW1732	Parks	Solar @ Vets Park	Microgrid-Solar panels and Battery Storage Systems at SportsComplex Parking Lot and some areas of roofing.	$ 2,000,000	2000000	2000000	$ -	$ -	$ -
2 Design	PW1748	Buildings	Corporate Yard Energy Efficient & Other Improvements - Evaluate and construc	•Optimize equipment layout and parking space •Wall and roof repair and insulation at main corporate yard building •Driveway at 18601 S. Main St for alternate Corporate Yard exit •Wash station and compliance requirements •Covered parking, Fire Suppression system at Warehouse and Community Services •New Building Construction	$ 9,000,000	0	0	$ 9,000,000	$ -	$ -
2 Design	PW1749	Buildings	EV Bus Chargers	Installation of EV bus chargers with electrical conduits and potential transformer	$ 250,000	250000	250000	$ -	$ -	$ -
2 Design	PW1753	Roadways	University Drive Rehabilitation - Avalon Blvd to Wilmington Ave	University Dr. Rehabilitation (1.8 miles) from Avalon to Wilmington Ave. The project includes removal and replacement of asphalt pavement section and base, grind and overlay, local removal and replacement of roadway section. It also includes concrete reconstruction, tree removal and replacement, repair of damage sidewalk, driveway approaches, curbs and gutter, access ramps.	$ 4,375,000	4375000	4455263	$ -	$ -	$ -
2 Design	PW1755	Roadways	Santa Fe Ave. Rehabilitation - Carson St. to Del Amo Ave.	Santa Fe Ave. (1.1 miles) Grind and overlay from Carson to Del Amo. The project includes asphalt pavement grind and overlay, local removal and replacement of roadway section. It also includes concrete reconstruction, tree removal and replacement, repair of damage sidewalk, driveway approaches, curbs and gutter, access ramps.	$ 4,800,000	0	0	$ 4,800,000	$ -	$ -
2 Design	PW1757	Roadways	Main Street Rehabilitation - Lomita to 228th St	Main St. (1.41 miles) Grind and overlay from Lomita Blvd. to 228th St. The project includes asphalt pavement grind and overlay, local removal and replacement of roadway section. It also includes concrete reconstruction, tree removal and replacement, repair of damage sidewalk, driveway approaches, curbs and gutter, access ramps.	$ 6,556,047	6556047	6556047	$ -	$ -	$ -
2 Design	PW1758	Roadways	Main Street - 228th St to Carson Street	Main St. (0.9 miles) Grind and overlay from 228th St. to Carson St. The project includes asphalt pavement grind and overlay, local removal and replacement of roadway section. It also includes concrete reconstruction, tree removal and replacement, repair of damage sidewalk, driveway approaches, curbs and gutter, access ramps.	$ 4,000,000	0	0	$ 4,000,000	$ -	$ -
2 Design	PW1775	Roadways	213th St. Street Lights	Chico to Wilmington	$ 800,000	0	0	$ 800,000	$ -	$ -
2 Design	PW1776	Stormwater	Calas Park Stormwater Infiltration and Water Quality Improvements	Supplemental Environment Project (SEP)	$ 6,000,000	0	0	$ 5,500,000	$ -	$ -
2 Design	PW1780	Roadways	Victoria Street Transit Center	Construction of a new transit center adjacent to CSUDH	$ 5,000,000	3250000	3250000	$ 1,750,000	$ -	$ -
2 Design	PW1785	Bikeways	Carson Bicycle Master Plan	Carson's Master Bicycle Plan will serve as an informative guide when developing a framework that improves the city's physical bicycle system and reduces transportation inequities. With 18.7 sq miles of grid street networks (including California State University, Dominguez Hills), connecting Carson's communities can enable widespread mode shifts to bicycling.	$ 897,000	897000	897000	$ -	$ -	$ -

FY2025-26 5-YEAR CAPITAL IMPROVEMENT PLAN

PHASE	PROJ #	TYPE	PROJECT NAME	DESCRIPTION	Total Project Estimate	FY 25-26 Adopted	FY25-26 Revised	FY26-27 Estimate	FY27-28 Estimate	FY28-29 Estimate
2 Design	PW1792	Traffic	Traffic Reliability Improvements	Replace obsolete traffic signal battery backup systems, controllers, loop detection systems, with state of the art equipment capable of detecting bicycles, pedestrians, neighborhood electric vehicles, and prepare Carson for emerging transportation and communication technologies.	$ 2,400,000	0	0	$ 2,400,000	$ -	$ -
2 Design	PW1793	Trees	URBAN FORESTRY MASTER PLAN & IMPLEMENTATION	Develop and Implement an Urban Forestry Master Plan	$ 1,000,000	200808	200808	$ 371,189	$ 378,010	$ 49,993
2 Design	PW1796	Buildings	Carson Civic Center Redevelopment	Carson Civic Center Redevelopment	$ 550,000	550000	550000	$ -	$ -	$ -
2 Design	PW1797	Technology	Citywide Municipal Fiber Optic Network Phase I	Phase I of Citywide Municipal Fiber Optic Network	$ 30,000,000	25000000	25000000	$ -	$ -	$ -
2 Design	PW1798	Roadways	Delores Rehabilitation from Sepulveda to Carson Street	Delores Rehabilitation from Sepulveda to Carson Street	$ 8,000,000	0	0	$ 8,000,000	$ -	$ -
2 Design	PW1799	Roadways	Del Amo Rehabilitation from Main Street to Figueroa	Del Amo Rehabilitation from Main Street to Figueroa	$ 2,000,000	0	0	$ 2,000,000	$ -	$ -
2 Design	PW1800	Stormwater	Citywide Stromdrain Repair	Repair all City-owned stormdrains	$ 3,000,000	0	0	$ 3,000,000	$ -	$ -
2 Design	PW1801	Roadways	Streetscape Master Plan - Civic	Design and construction of median landscaping for segments on Avalon Blvd. and Carson St. identified as Civic-type land use.	**$ 6,700,000**	**0**	**6700000**	**$ -**	**$ -**	**$ -**
2 Design	PW1802	Roadways	Speed Hump Installation Community Center East	Install Speed Humps at Community Center East Parking Lot near Tesla Charging Stations	$ 75,000	0	0	$ 75,000	$ -	$ -
2 Design	PW1803	Parks	Friendship Mini Park Land Acquisition & Expansion	Aquire land & expand current Friendship Mini Park; $1.43M grant for 0.44 acre acquisition	$ 1,430,000	1430000	1430000	$ -	$ -	$ -
2 Design	PW1804	Roadways	Arterial Repair Program	Citywide Arterial Repair Program	**$ 10,000,000**	150700	50700	**$ 6,700,000**	**$ -**	**$ -**
2 Design	PW1805	Parks	Calas Park	Removal of Wading Pool/New Picnic Shelter/ADA Pathway improvements	$ 1,500,000	0	0	$ 1,500,000	$ -	$ -
2 Design	PW1806	Parks	Del Amo Park	Fix storm drain run-off/Elevate Basketball courts/Building & Playground ADA upgrades/ irrigation and turf upgrades	$ 5,000,000	500000	500000	$ 4,500,000	$ -	$ -
2 Design	PW1807	Parks	Foisia Park Aquatic Repairs	Concrete repairs in pump room and pool building/new mechanical equipment/electrical panels	$ 500,000	500000	500000	$ -	$ -	$ -
2 Design	PW1808	Parks	Various Pools	Redo the concrete at Carson Pool, Dominguez Aquatic Center, Foisia Pool, and Hemingway Aquatics Center	$ 2,000,000	0	0	$ 2,000,000	$ -	$ -
2 Design	PW1809	Parks	Veterans SportsComplex	HVAC/Generator Replacement	$ 2,000,000	0	0	$ 2,000,000	$ -	$ -
2 Design	PW1810	Parks	Walnut Mini-Park	Fix concrete sloping/landscaping clean up	$ 750,000	0	0	$ -	$ 750,000	$ -
2 Design	PW1811	Parks	Carson Event Center	Replace Early Childhood Education (ECE) playground so it is all abilities and ADA compliant	$ 500,000	0	0	$ -	$ -	$ 500,000
2 Design	PW1812	Parks	Dominguez Park	Room and Kitchen Remodel	$ 1,000,000	0	0	$ -	$ 1,000,000	$ -
2 Design	PW1813	Parks	Dolphin Park, Dominguez Park, Veterans Park	New irrigation system for the entire park	$ 1,000,000	0	0	$ -	$ 1,000,000	$ -
2 Design	PW1814	Parks	Reflections Park	New redesign and landscaping	$ 750,000	0	0	$ -	$ 750,000	$ -
2 Design	PW1815	Parks	Veterans Park	To improve and fix the skate park at Veterans Park	$ 500,000	0	0	$ 500,000	$ -	$ -
2 Design	PW1816	Parks	Dominguez Park Pickleball Courts	Additional pickleball courts	$ 500,000	0	0	$ -	$ -	$ 500,000
2 Design	PW1817	Parks	Foisia Park Pickleball Courts	Conversion of handball courts into two pickleball courts	$ 500,000	0	0	$ -	$ -	$ 500,000
2 Design	PW1818	Safety	Security Cameras	Installation of Surveillance Cameras at mini-parks.	$ 390,000	0	390000	$ -	$ -	$ -
2 Design	PW1819	Safety	Phase projection for installing an enhanced intrusion alarm and Halo smart sen	The project focuses on installing an upgraded intrusion alarm and Halo smart sensor system. This system will improve security by using advanced technology for real-time monitoring and alerts for unauthorized access or suspicious activity. The Halo smart sensors will include environmental monitoring and automated alerts, providing a complete security solution.	$ 1,436,000	0	1436000	$ -	$ -	$ -
2 Design	PW1820	Safety	Fire suppression system installation at the Carson Community Event Center	The project involves the installation of a fire suppression system at the Carson Community Event Center to enhance safety and comply with fire safety regulations. This system will include advanced features such as sprinklers, alarm systems, and emergency exit signage to protect both the facility and its occupants from potential fire hazards.	$ 580,000	0	0	$ -	$ 580,000	$ -
2 Design	PW1821	Roadways	Caltrans Interchanges	Caltrans areas	$ -	0	0	$ -	$ -	$ -
2 Design	PW1822	Buildings	Teen Center	Design and Construction of City Teen Center	$ -	0	0	$ -	$ -	$ -
2 Design	PW1823	Roadways	Wayfinding Signs	Design and placement of wayfinding signage throughout the City	$ 700,000	200000	0	$ 500,000	$ -	$ -
2 Design	PW1824	Roadways	Avalon & Central holding wall	Repair wall at Avalon & Central	$ 10,000,000	0	0	$ -	$ 10,000,000	$ -
2 Design	PW1825	Roadways	Archways	Planning and design development for new archways throughout the City.	$ 4,000,000	600000	600000	$ 3,400,000	$ -	$ -
2 Design	PW1826	Roadways	Monuments	Planning and design development for new monuments throughout the City.	$ 2,000,000	400000	200000	$ 1,600,000	$ -	$ -
2 Design	PW1827	Roadways	Shared Central Ave Project with City of Compton	Shared Central Ave Project with City of Compton	$ 874,908	874908.13	874908.13			
2 Design	PW1828	Roadways	South Bay Travel Network	Design and Construct a Local Travel Network (LTN) within Carson to establish routes for low speed travel using neighborhood electric vehicles (NEV) as well as other slow-speed zero-emission modes	**$ 4,512,915**	0	654819	**$ 3,858,096**	$ -	$ -
2 Design	PW1829	Traffic	Olympic Ready ITS	Improve the Intelligent Transportation Systems (ITS) infrastructure in the corridorsleadin	**$ 750,000**	**0**	**250000**	**$ 500,000**	**$ -**	**$ -**
2 Design	PW1833	Roadways	Citywide Street Name Sign Replacement	Replacement of Street Name Signs Citywide to align with new style guidelines	$ 1,000,000	0	221000	$ -	$ -	$ -

FY2025-26 5-YEAR CAPITAL IMPROVEMENT PLAN

PHASE	PROJ #	TYPE	PROJECT NAME	DESCRIPTION	Total Project Estimate	FY 25-26 Adopted	FY25-26 Revised	FY26-27 Estimate	FY27-28 Estimate	FY28-29 Estimate
3 Maintenance	PW1396	Roadways	Dominguez Street Roadway Reconstruction	Dominguez Street from Wilmington to Alameda. The project includes asphalt pavement grind and overlay, local removal and replacement of roadway section. It also includes concrete reconstruction, tree removal and replacement, repair of damage sidewalk, driveway approaches, curbs and gutter, access ramps.	$ 3,120,000	0	0	$ -	$ 3,120,000	$ -
3 Maintenance	PW1413-5	Roadways	Annual Slurry Seal & Crack Seal Program (Preventative Maintenance)	Annual preventative maintenace using a rubberized slurry seal on city streets -	$ 900,000	0	0	$ -	$ 900,000	$ -
3 Maintenance	PW1416	Parks	**Calas Park & Fosia Park Roof Repair	Repair and replace roofing material at Calas (Complete) and Foisia Park	$ 666,078	500000	500000	$ -	$ -	$ -
3 Maintenance	PW1426	Roadways	*Citywide Park Slurry Seal Parking Lot, Green Streets & Sustainability	Preventative maintenance for parking lot at all City Parks (12 @$85k)	$ 1,020,000	0	0	$ 1,020,000	$ -	$ -
3 Maintenance	PW1484	Parks	Dugout Cover Installation at 9 Parks	Repair and or replace dugout roof material (Calas, Carriage Crest, Del Amo, Dolphin, Dominguez, Foisia, Hemingway, Stevenson, Veterans) 26 total	$ 75,000	75000	75000	$ -	$ -	$ -
3 Maintenance	PW1639	Parks	Veterans Park Office & Meeting Room & Kitchen Refurbishment	Replace counters, counter tops, cabinets and plumbing fixtures, flooring in Activity rooms and office and remodel Kitchen with new floor/cabinets/appliances	$ 500,000	0	0	$ -	$ 500,000	$ -
3 Maintenance	PW1673	Parks	**Pool Slides Replacement at Dominguez Park and Hemingway Park	Replace and install new pool slides for Dominguez Pool and Hemingway Pool	$ 900,000	450000	450000	$ 450,000	$ -	$ -
3 Maintenance	PW1692	Stormwater	*Carson Stormwater & Runoff Project (O&M Carriage Crest Park)	Operation & Maintenance of stormwater capture facility at Carriage Crest Park. Safe clean water program requirements	$ 2,075,000	83531.22	83531.22	$ 746,469	$ 415,000	$ -
3 Maintenance	PW1699	Buildings	Community Center Upgrades - Dominguez Halls and Kitchen	Upgrades to facility kitchen and halls (Dominguez Halls) at community center (Later to avoid construction conflicts w/ coiling wall)	$ 1,870,000	0	0	$ 1,870,000	$ -	$ -
3 Maintenance	PW1712	Buildings	Park Facility HVAC Installation	Design and Construct - $750k per Gymnasium and Facility	$ 7,500,000	0	0	$ 2,000,000	$ 2,000,000	$ 1,500,000
3 Maintenance	PW1720	Buildings	City Hall & Community Center Elevators	Full modification of City Hall & Community Center Elevator	$ 1,500,000	0	0	$ -	$ -	$ -
3 Maintenance	PW1756	Roadways	Figueroa Street - Lomita to 223rd St.	1.8 miles. Figueroa St. Grind and overlay.	$ 7,900,000	0	0	$ 7,900,000	$ -	$ -
3 Maintenance	PW1762	Roadways	Wilmington Ave - Lomita Boulevard - 223rd Street	Wilmington Ave. (2 miles) Grind and overlay. The project includes asphalt pavement grind and overlay, local removal and replacement of roadway section. It also includes concrete reconstruction, tree removal and replacement, repair of damage sidewalk, driveway approaches, curbs and gutter, access ramps.	$ 7,900,000	0	0	$ 7,900,000	$ -	$ -
3 Maintenance	PW1791	Roadways	Street Repair	Citywide Pavement Program (Previously titled Citywide Street Repair)	$ 32,000,000	10000000	10000000	$ -	$ -	$ -
Grand Total					**$ 531,547,436**	**191176291.6**	**200975999.9**	**$ 182,248,113**	**$ 40,053,524**	**$ 3,249,993**

CITY OF CARSON

701 East Carson Street

Report to Honorable Mayor and City Council

Tuesday, March 17, 2026, 5:00 PM

CONSENT 25.

To: Honorable Mayor and City Council

From: Dr. Arlington Rodgers, Director of Public Works PW Engineering

Subject: CONSIDER APPROVAL OF AMENDMENT NO. 1 TO THE PROFESSIONAL SERVICES AGREEMENT WITH W.G. ZIMMERMAN ENGINEERING INC. TO PROVIDE ON-CALL PROJECT MANAGEMENT SERVICES TO THE PUBLIC WORKS DEPARTMENT (CITY COUNCIL)

I. SUMMARY

The City of Carson retained W.G. Zimmerman Engineering Inc. (WGZE) under an on-call agreement to provide project management services in support of the Public Works Capital Improvement Program (CIP) projects and other miscellaneous and related projects. A contract was entered into with WGZE dated December 19, 2023 to provide professional services with an amount not-to-exceed $615,776.00 for a 2.5 year term beginning January 1, 2024 and ending June 30, 2026.

The initial contract with WGZE was established based on estimated needs at that time. However, due to the increasing number of capital projects and the lack of staff to manage them, the services of the on-call consultant was determined to be necessary.

Staff recommends the City Council approve Amendment No.1 to the Professional Services Agreements with WGZE consulting firm to provide on-call professional project management services for the capital improvement projects and other miscellaneous and related projects, increasing the contract by $355,000.00 for a new total contract sum of $970,776.00 and extending the term an additional year, to expire June 30, 2027.

II. RECOMMENDATION

TAKE the following actions:

1. APPROVE Amendment No. 1 with W.G. Zimmerman Engineering Inc. for On-Call Project Management services increasing the contract sum by $355,000.00 for a total contract sum of $970,776.00 and extending the contract term until June 30, 2027.
2. AUTHORIZE the Mayor to execute contract Amendment No. 1 with W.G. Zimmerman Engineering Inc. following approval as to form by the City Attorney.

III. ALTERNATIVES

1. DO NOT APPROVE the above recommendations. However, WGZE will be unable to continue providing professional services in the future.
2. TAKE another action the City Council deems appropriate consistent with the requirements of the Law.

IV. BACKGROUND

In July 2023, staff issued a Request for Proposals (RFQ) for on-call firms to provide on-call project management for various City CIP projects. On November 21, 2023, the City Council awarded a contract to WGZE for a not to exceed amount of $615,776.00, and effective until June 30, 2026 (Exhibit No. 1). The use of on-call consultant is not in lieu of using full time employees, rather this consultant will be utilized to enhance the capacity of the current staff.

WGZE is currently supporting the City with both design and construction-related traffic engineering services under multiple active projects. These include:

- Design Services for:
    - Task Order 2024-057: Traffic Signal Installation on Sepulveda Boulevard
    - PW 1612: Traffic Signal Installation at Broadway and Griffith
- Construction Management Services for:
    - PW 1657: Traffic Signal Modifications at Six Intersections
    - PW 1667: Traffic Signal Upgrade at Avalon Boulevard and Gardena Boulevard
    - PW 1649: Traffic Signal Upgrades at Four Intersections

In addition to these capital improvement projects, WGZE provides ongoing Traffic Control Plan (TCP) review services in support of the City's development and public works activities. Collectively, these efforts reflect WGZE's continued role in advancing the City's traffic signal modernization, safety enhancements, and traffic operations support.

With several upcoming Public Works projects requiring engineering oversight, the City will need to continue utilizing the enhanced services of WGZE to successfully implement and manage these efforts. The current contract balance is insufficient to support the anticipated scope of services for these projects. Therefore, to proceed with the issuance of the necessary task orders, City Council approval is necessary.

Staff request that the City Council approve Amendment No. 1 to the professional service agreement with WGZE, increasing the contract sum by $355,000.00 for a total contract sum of $970,776.00 and extend the Agreement for an additional one-year term through June 30, 2027 (Exhibit No. 2) to support the continued services.

Section 2611(m)(3) of the Carson Municipal Code ("CMC") provides that any proposed amendment to a contract exceeding $75,000 requires solicitation unless the amendment concerns a change order under Section 2601(d) of the CMC in which event bidding will not be required irrespective of the amount of the change order. Amendment No. 1 qualifies as a change order because it concerns a change to the price arising out of reasonably unforeseeable circumstances borne out of the scope of the original agreement.

V. FISCAL IMPACT

If the proposed amendment is approved, the WGZE contract will be increased by an additional $355,000.00 for a new total not-to-exceed contract amount of $970,776.00. Of the requested amendment amount, $150,000.00 will utilize funds allocated in the adopted FY 25/26 budget using Engineering Professional Services account 101-80-820-101-6004.

The remaining $250,000.000 will be programmed in the future FY 26/27 Operating Budget within the Engineering Professional Services account 101-80-820-101-6004.

VI. EXHIBITS

1. WGZE Original Contract
2. WGZE Amendment No. 1

Attachments

Exhibit 1 - WGZE Original Contract

Exhibit 2 - WGZE Amendment No. 1

CONTRACT SERVICES AGREEMENT

By and Between

CITY OF CARSON

and

W.G. ZIMMERMAN ENGINEERING, INC.

AGREEMENT FOR CONTRACT SERVICES
BETWEEN THE CITY OF CARSON AND
W.G. ZIMMERMAN ENGINEERING, INC.

THIS AGREEMENT FOR CONTRACT SERVICES (herein "Agreement") is made and entered into this 19th day of December, 2023 by and between the CITY OF CARSON, a California municipal corporation ("City") and W.G. ZIMMERMAN ENGINEERING, INC., a California corporation ("Consultant"). City and Consultant are sometimes hereinafter individually referred to as "Party" and hereinafter collectively referred to as the "Parties."

RECITALS

A. City has sought, by issuance of a Request for Proposals or Invitation for Bids, the performance of the services defined and described particularly in Article 1 of this Agreement.

B. Consultant, following submission of a proposal or bid for the performance of the services defined and described particularly in Article 1 of this Agreement, was selected by the City to perform those services.

C. Pursuant to the City of Carson's Municipal Code, City has authority to enter into and execute this Agreement.

D. The Parties desire to formalize the selection of Consultant for performance of those services defined and described particularly in Article 1 of this Agreement and desire that the terms of that performance be as particularly defined and described herein.

OPERATIVE PROVISIONS

NOW, THEREFORE, in consideration of the mutual promises and covenants made by the Parties and contained herein and other consideration, the value and adequacy of which are hereby acknowledged, the parties agree as follows:

ARTICLE 1. SERVICES OF CONSULTANT

1.1 Scope of Services.

In compliance with all terms and conditions of this Agreement, the Consultant shall provide those services specified in the "Scope of Services" attached hereto as Exhibit "A" and incorporated herein by this reference, which may be referred to herein as the "services" or "work" hereunder. As a material inducement to the City entering into this Agreement, Consultant represents and warrants that it has the qualifications, experience, and facilities necessary to properly perform the services required under this Agreement in a thorough, competent, and professional manner, and is experienced in performing the work and services contemplated herein. Consultant shall at all times faithfully, competently and to the best of its ability, experience and talent, perform all services described herein. Consultant covenants that it shall follow the highest professional standards in performing the work and services required hereunder and that all materials will be both of good quality as well as fit for the purpose intended. For purposes of this Agreement, the phrase "highest

professional standards" shall mean those standards of practice recognized by one or more first-class firms performing similar work under similar circumstances.

1.2 Consultant's Proposal.

The Scope of Service shall include the Consultant's scope of work or bid which shall be incorporated herein by this reference as though fully set forth herein. In the event of any inconsistency between the terms of such proposal and this Agreement, the terms of this Agreement shall govern.

1.3 Compliance with Law.

Consultant shall keep itself informed concerning, and shall render all services hereunder in accordance with, all ordinances, resolutions, statutes, rules, and regulations of the City and any Federal, State or local governmental entity having jurisdiction in effect at the time service is rendered.

1.4 Licenses, Permits, Fees and Assessments.

Consultant shall obtain at its sole cost and expense such licenses, permits and approvals as may be required by law for the performance of the services required by this Agreement. Consultant shall have the sole obligation to pay for any fees, assessments and taxes, plus applicable penalties and interest, which may be imposed by law and arise from or are necessary for the Consultant's performance of the services required by this Agreement, and shall indemnify, defend and hold harmless City, its officers, employees or agents of City, against any such fees, assessments, taxes, penalties or interest levied, assessed or imposed against City hereunder.

1.5 Familiarity with Work.

By executing this Agreement, Consultant warrants that Consultant (i) has thoroughly investigated and considered the scope of services to be performed, (ii) has carefully considered how the services should be performed, and (iii) fully understands the facilities, difficulties and restrictions attending performance of the services under this Agreement. If the services involve work upon any site, Consultant warrants that Consultant has or will investigate the site and is or will be fully acquainted with the conditions there existing, prior to commencement of services hereunder. Should the Consultant discover any latent or unknown conditions, which will materially affect the performance of the services hereunder, Consultant shall immediately inform the City of such fact and shall not proceed except at Consultant's risk until written instructions are received from the Contract Officer.

1.6 Care of Work.

The Consultant shall adopt reasonable methods during the life of the Agreement to furnish continuous protection to the work, and the equipment, materials, papers, documents, plans, studies and/or other components thereof to prevent losses or damages, and shall be responsible for all such damages, to persons or property, until acceptance of the work by City, except such losses or damages as may be caused by City's own negligence.

1.7 Further Responsibilities of Parties.

Both parties agree to use reasonable care and diligence to perform their respective obligations under this Agreement. Both parties agree to act in good faith to execute all instruments, prepare all documents and take all actions as may be reasonably necessary to carry out the purposes of this Agreement. Unless hereafter specified, neither party shall be responsible for the service of the other.

1.8 Additional Services.

City shall have the right at any time during the performance of the services, without invalidating this Agreement, to order extra work beyond that specified in the Scope of Services or make changes by altering, adding to or deducting from said work. No such extra work may be undertaken unless a written order is first given by the Contract Officer to the Consultant, incorporating therein any adjustment in (i) the Contract Sum for the actual costs of the extra work, and/or (ii) the time to perform this Agreement, which said adjustments are subject to the written approval of the Consultant. Any increase in compensation of up to ten percent (10%) of the Contract Sum or $25,000, whichever is less; or, in the time to perform of up to one hundred eighty (180) days, may be approved by the Contract Officer. Any greater increases, taken either separately or cumulatively, must be approved by the City Council. It is expressly understood by Consultant that the provisions of this Section shall not apply to services specifically set forth in the Scope of Services. Consultant hereby acknowledges that it accepts the risk that the services to be provided pursuant to the Scope of Services may be more costly or time consuming than Consultant anticipates and that Consultant shall not be entitled to additional compensation therefor. City may in its sole and absolute discretion have similar work done by other contractors. No claims for an increase in the Contract Sum or time for performance shall be valid unless the procedures established in this Section are followed.

1.9 Special Requirements.

Additional terms and conditions of this Agreement, if any, which are made a part hereof are set forth in the "Special Requirements" attached hereto as Exhibit "B" and incorporated herein by this reference. In the event of a conflict between the provisions of Exhibit "B" and any other provisions of this Agreement, the provisions of Exhibit "B" shall govern.

ARTICLE 2. COMPENSATION AND METHOD OF PAYMENT.

2.1 Contract Sum.

Subject to any limitations set forth in this Agreement, City agrees to pay Consultant the amounts specified in the "Schedule of Compensation" attached hereto as Exhibit "C" and incorporated herein by this reference. The total compensation, including reimbursement for actual expenses, shall not exceed Six Hundred Fifteen Thousand Seven Hundred Seventy Six Dollars and Zero Cents (**$615,776.00**) (the "Contract Sum"), unless additional compensation is approved pursuant to Section 1.8. In the event City elects to exercise its options to extend the Term pursuant to Section 3.4 hereof, the Contract Sum will increase consistent with the additional not to exceed compensation applicable to each Extension Term, as set out in in Exhibit "C."

2.2 Method of Compensation.

The method of compensation may include: (i) a lump sum payment upon completion; (ii) payment in accordance with specified tasks or the percentage of completion of the services, less contract retention; (iii) payment for time and materials based upon the Consultant's rates as specified in the Schedule of Compensation, provided that (a) time estimates are provided for the performance of sub tasks, (b) contract retention is maintained, and (c) the Contract Sum is not exceeded; or (iv) such other methods as may be specified in the Schedule of Compensation.

2.3 Reimbursable Expenses.

Compensation may include reimbursement for actual and necessary expenditures for reproduction costs, telephone expenses, and travel expenses approved by the Contract Officer in advance, or actual subcontractor expenses of an approved subcontractor pursuant to Section 4.5, and only if specified in the Schedule of Compensation. The Contract Sum shall include the attendance of Consultant at all project meetings reasonably deemed necessary by the City. Coordination of the performance of the work with City is a critical component of the services. If Consultant is required to attend additional meetings to facilitate such coordination, Consultant shall not be entitled to any additional compensation for attending said meetings.

2.4 Invoices.

Each month Consultant shall furnish to City an original invoice for all work performed and expenses incurred during the preceding month in a form approved by City's Director of Finance. By submitting an invoice for payment under this Agreement, Consultant is certifying compliance with all provisions of the Agreement. The invoice shall detail charges for all necessary and actual expenses by the following categories: labor (by sub-category), travel, materials, equipment, supplies, and sub-contractor contracts. Sub-contractor charges shall also be detailed by such categories. Consultant shall not invoice City for any duplicate services performed by more than one person.

City shall independently review each invoice submitted by the Consultant to determine whether the work performed and expenses incurred are in compliance with the provisions of this Agreement. Except as to any charges for work performed or expenses incurred by Consultant which are disputed by City, or as provided in Section 7.3, City will use its best efforts to cause Consultant to be paid within forty-five (45) days of receipt of Consultant's correct and undisputed invoice; however, Consultant acknowledges and agrees that due to City warrant run procedures, the City cannot guarantee that payment will occur within this time period. In the event any charges or expenses are disputed by City, the original invoice shall be returned by City to Consultant for correction and resubmission. Review and payment by City for any invoice provided by the Consultant shall not constitute a waiver of any rights or remedies provided herein or any applicable law.

2.5 Waiver.

Payment to Consultant for work performed pursuant to this Agreement shall not be deemed to waive any defects in work performed by Consultant.

ARTICLE 3. PERFORMANCE SCHEDULE

3.1 Time of Essence.

Time is of the essence in the performance of this Agreement.

3.2 Schedule of Performance.

Consultant shall commence the services pursuant to this Agreement upon receipt of a written notice to proceed and shall perform all services within the time period(s) established in the "Schedule of Performance" attached hereto as Exhibit "D" and incorporated herein by this reference. When requested by the Consultant, extensions to the time period(s) specified in the Schedule of Performance may be approved in writing by the Contract Officer but not exceeding one hundred eighty (180) days cumulatively.

3.3 Force Majeure.

The time period(s) specified in the Schedule of Performance for performance of the services rendered pursuant to this Agreement shall be extended because of any delays due to unforeseeable causes beyond the control and without the fault or negligence of the Consultant, including, but not restricted to, acts of God or of the public enemy, unusually severe weather, fires, earthquakes, floods, epidemics, quarantine restrictions, riots, strikes, freight embargoes, wars, litigation, and/or acts of any governmental agency, including the City, if the Consultant shall within ten (10) days of the commencement of such delay notify the Contract Officer in writing of the causes of the delay. The Contract Officer shall ascertain the facts and the extent of delay, and extend the time for performing the services for the period of the enforced delay when and if in the judgment of the Contract Officer such delay is justified. The Contract Officer's determination shall be final and conclusive upon the parties to this Agreement. In no event shall Consultant be entitled to recover damages against the City for any delay in the performance of this Agreement, however caused, Consultant's sole remedy being extension of the Agreement pursuant to this Section.

3.4 Term.

Unless earlier terminated in accordance with Article 7 of this Agreement, this Agreement shall continue in full force and effect until completion of the services but not exceeding one (1) years from the date hereof, except as otherwise provided in the Schedule of Performance (Exhibit "D").

ARTICLE 4. COORDINATION OF WORK

4.1 Representatives and Personnel of Consultant.

The following principals of Consultant ("Principals") are hereby designated as being the principals and representatives of Consultant authorized to act in its behalf with respect to the work specified herein and make all decisions in connection therewith:

Bill Zimmerman,PE, TE, PTOE	President / CEO
(Name)	(Title)

(Name)	(Title)
(Name)	(Title)

It is expressly understood that the experience, knowledge, capability and reputation of the foregoing principals were a substantial inducement for City to enter into this Agreement. Therefore, the foregoing principals shall be responsible during the term of this Agreement for directing all activities of Consultant and devoting sufficient time to personally supervise the services hereunder. All personnel of Consultant, and any authorized agents, shall at all times be under the exclusive direction and control of the Principals. For purposes of this Agreement, the foregoing Principals may not be replaced nor may their responsibilities be substantially reduced by Consultant without the express written approval of City. Additionally, Consultant shall utilize only competent personnel to perform services pursuant to this Agreement. Consultant shall make every reasonable effort to maintain the stability and continuity of Consultant's staff and subcontractors, if any, assigned to perform the services required under this Agreement. Consultant shall notify City of any changes in Consultant's staff and subcontractors, if any, assigned to perform the services required under this Agreement, prior to and during any such performance.

4.2 Status of Consultant.

Consultant shall have no authority to bind City in any manner, or to incur any obligation, debt or liability of any kind on behalf of or against City, whether by contract or otherwise, unless such authority is expressly conferred under this Agreement or is otherwise expressly conferred in writing by City. Consultant shall not at any time or in any manner represent that Consultant or any of Consultant's officers, employees, or agents are in any manner officials, officers, employees or agents of City. Neither Consultant, nor any of Consultant's officers, employees or agents, shall obtain any rights to retirement, health care or any other benefits which may otherwise accrue to City's employees. Consultant expressly waives any claim Consultant may have to any such rights.

4.3 Contract Officer.

The Contract Officer shall be Raymond Velasco, P.E., Public Works Operations Manager, or as otherwise designated by the City Manager. It shall be the Consultant's responsibility to assure that the Contract Officer is kept informed of the progress of the performance of the services and the Consultant shall refer any decisions which must be made by City to the Contract Officer. Unless otherwise specified herein, any approval of City required hereunder shall mean the approval of the Contract Officer. The Contract Officer shall have authority, if specified in writing by the City Manager, to sign all documents on behalf of the City required hereunder to carry out the terms of this Agreement.

4.4 Independent Consultant.

Neither the City nor any of its employees shall have any control over the manner, mode or means by which Consultant, its agents or employees, perform the services required herein, except as otherwise set forth herein. City shall have no voice in the selection, discharge, supervision or control of Consultant's employees, servants, representatives or agents, or in fixing their number,

compensation or hours of service. Consultant shall perform all services required herein as an independent contractor of City and shall remain at all times as to City a wholly independent contractor with only such obligations as are consistent with that role. Consultant shall not at any time or in any manner represent that it or any of its agents or employees are agents or employees of City. City shall not in any way or for any purpose become or be deemed to be a partner of Consultant in its business or otherwise or a joint venturer or a member of any joint enterprise with Consultant.

4.5 Prohibition Against Subcontracting or Assignment.

The experience, knowledge, capability and reputation of Consultant, its principals and employees were a substantial inducement for the City to enter into this Agreement. Therefore, Consultant shall not contract with any other entity to perform in whole or in part the services required hereunder without the express written approval of the City. In addition, neither this Agreement nor any interest herein may be transferred, assigned, conveyed, hypothecated or encumbered voluntarily or by operation of law, whether for the benefit of creditors or otherwise, without the prior written approval of City. Transfers restricted hereunder shall include the transfer to any person or group of persons acting in concert of more than twenty five percent (25%) of the present ownership and/or control of Consultant, taking all transfers into account on a cumulative basis. In the event of any such unapproved transfer, including any bankruptcy proceeding, this Agreement shall be void. No approved transfer shall release the Consultant or any surety of Consultant of any liability hereunder without the express consent of City.

ARTICLE 5. INSURANCE AND INDEMNIFICATION

5.1 Insurance Coverages.

The Consultant shall procure and maintain, at its sole cost and expense, in a form and content satisfactory to City, during the entire term of this Agreement including any extension thereof, the following policies of insurance which shall cover all elected and appointed officers, employees and agents of City:

(a) General Liability Insurance (Coverage Form ISO CGL CG 00 01 or equivalent). A policy of comprehensive general liability insurance written on a per occurrence basis for bodily injury, personal injury and property damage. The policy of insurance shall be in an amount not less than $1,000,000.00 per occurrence or if a general aggregate limit is used, then the general aggregate limit shall be twice the occurrence limit.

(b) Worker's Compensation Insurance. A policy of worker's compensation insurance in such amount as will fully comply with the laws of the State of California and which shall indemnify, insure and provide legal defense for the Consultant against any loss, claim or damage arising from any injuries or occupational diseases occurring to any worker employed by or any persons retained by the Consultant in the course of carrying out the work or services contemplated in this Agreement, with Employer's Liability insurance coverage limits of at least $1,000,000.00.

(c) Automotive Insurance (Coverage Form ISO CA 00 01 including "any auto" and endorsement CA 0025 or equivalent). A policy of comprehensive automobile liability

insurance written on a per occurrence for bodily injury and property damage in an amount not less than $1,000,000. Said policy shall include coverage for owned, non-owned, leased, hired cars and any automobile.

(d) Professional Liability. Professional liability insurance appropriate to the Consultant's profession, as determined by the City's Risk Manager, provided that the limits shall be no less than $1,000,000 per claim and no less than $1,000,000 general aggregate. This coverage may be written on a "claims made" basis, and must include coverage for contractual liability. The professional liability insurance required by this Agreement must be endorsed to be applicable to claims based upon, arising out of or related to services performed under this Agreement. The insurance must be maintained for at least 5 consecutive years following the completion of Consultant's services or the termination of this Agreement. During this additional 5-year period, Consultant shall annually and upon request of the City submit written evidence of this continuous coverage.

(e) Subcontractors. Consultant shall include all subcontractors as insureds under its policies or shall furnish separate certificates and certified endorsements for each subcontractor. All coverages for subcontractors shall include all of the requirements stated herein.

(f) Additional Insurance. Policies of such other insurance, as may be required in the Special Requirements in Exhibit "B".

(g) Broader Coverages and Higher Limits. Notwithstanding anything else herein to the contrary, if Consultant maintains broader coverages and/or higher limits than the minimums shown above, the City requires and shall be entitled to the broader coverages and/or higher limits maintained by Consultant.

5.2 General Insurance Requirements.

All of the above policies of insurance shall be primary insurance and shall name the City, its elected and appointed officers, employees and agents as additional insureds and any insurance maintained by City or its officers, employees or agents may apply in excess of, and not contribute with Consultant's insurance. The insurer is deemed hereof to waive all rights of subrogation and contribution it may have against the City, its officers, employees and agents and their respective insurers. Moreover, the insurance policy must specify that where the primary insured does not satisfy the self-insured retention, any additional insured may satisfy the self-insured retention.

All of said policies of insurance shall provide that said insurance may not be amended or cancelled by the insurer or any party hereto without providing thirty (30) days prior written notice by certified mail return receipt requested to the City. In the event any of said policies of insurance are cancelled, the Consultant shall, prior to the cancellation date, submit new evidence of insurance in conformance with Section 5.1 to the Contract Officer.

No work or services under this Agreement shall commence until the Consultant has provided the City with Certificates of Insurance, additional insured endorsement forms or appropriate insurance binders evidencing the above insurance coverages and said Certificates of Insurance or binders are approved by the City. City reserves the right to inspect complete, certified copies of and endorsements to all required insurance policies at any time. Any failure to comply

with the reporting or other provisions of the policies including breaches or warranties shall not affect coverage provided to City.

All certificates shall name the City as additional insured (providing the appropriate endorsement) and shall conform to the following "cancellation" notice:

> CANCELLATION:
>
> SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATED THEREOF, THE ISSUING COMPANY SHALL MAIL THIRTY (30)-DAY ADVANCE WRITTEN NOTICE TO CERTIFICATE HOLDER NAMED HEREIN.
>
> [to be initialed] _____
> Consultant Initials

City, its respective elected and appointed officers, directors, officials, employees, agents and volunteers are to be covered as additional insureds as respects: liability arising out of activities Consultant performs; products and completed operations of Consultant; premises owned, occupied or used by Consultant; or any automobiles owned, leased, hired or borrowed by Consultant. The coverage shall contain no special limitations on the scope of protection afforded to City, and their respective elected and appointed officers, officials, employees or volunteers. Consultant's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.

Any deductibles or self-insured retentions must be declared to and approved by City. At the option of City, either the insurer shall reduce or eliminate such deductibles or self-insured retentions as respects City or its respective elected or appointed officers, officials, employees and volunteers or the Consultant shall procure a bond guaranteeing payment of losses and related investigations, claim administration, defense expenses and claims. The Consultant agrees that the requirement to provide insurance shall not be construed as limiting in any way the extent to which the Consultant may be held responsible for the payment of damages to any persons or property resulting from the Consultant's activities or the activities of any person or persons for which the Consultant is otherwise responsible nor shall it limit the Consultant's indemnification liabilities as provided in Section 5.3.

In the event the Consultant subcontracts any portion of the work in compliance with Section 4.5 of this Agreement, the contract between the Consultant and such subcontractor shall require the subcontractor to maintain the same policies of insurance that the Consultant is required to maintain pursuant to Section 5.1, and such certificates and endorsements shall be provided to City.

5.3 Indemnification.

To the full extent permitted by law, Consultant agrees to indemnify, defend and hold harmless the City, its officers, employees and agents ("Indemnified Parties") against, and will hold and save them and each of them harmless from, any and all actions, either judicial, administrative,

arbitration or regulatory claims, damages to persons or property, losses, costs, penalties, obligations, errors, omissions or liabilities whether actual or threatened (herein "claims or liabilities") that may be asserted or claimed by any person, firm or entity arising out of or in connection with the negligent performance of the work, operations or activities provided herein of Consultant, its officers, employees, agents, subcontractors, or invitees, or any individual or entity for which Consultant is legally liable ("indemnitors"), or arising from Consultant's or indemnitors' reckless or willful misconduct, or arising from Consultant's or indemnitors' negligent performance of or failure to perform any term, provision, covenant or condition of this Agreement, and in connection therewith:

(a) Consultant will defend any action or actions filed in connection with any of said claims or liabilities and will pay all costs and expenses, including legal costs and attorneys' fees incurred in connection therewith;

(b) Consultant will promptly pay any judgment rendered against the City, its officers, agents or employees for any such claims or liabilities arising out of or in connection with the negligent performance of or failure to perform such work, operations or activities of Consultant hereunder; and Consultant agrees to save and hold the City, its officers, agents, and employees harmless therefrom;

(c) In the event the City, its officers, agents or employees is made a party to any action or proceeding filed or prosecuted against Consultant for such damages or other claims arising out of or in connection with the negligent performance of or failure to perform the work, operation or activities of Consultant hereunder, Consultant agrees to pay to the City, its officers, agents or employees, any and all costs and expenses incurred by the City, its officers, agents or employees in such action or proceeding, including but not limited to, legal costs and attorneys' fees.

Consultant shall incorporate similar indemnity agreements with its subcontractors and if it fails to do so Consultant shall be fully responsible to indemnify City hereunder therefore, and failure of City to monitor compliance with these provisions shall not be a waiver hereof. This indemnification includes claims or liabilities arising from any negligent or wrongful act, error or omission, or reckless or willful misconduct of Consultant in the performance of professional services hereunder. The provisions of this Section do not apply to claims or liabilities occurring as a result of City's sole negligence or willful acts or omissions, but, to the fullest extent permitted by law, shall apply to claims and liabilities resulting in part from City's negligence, except that design professionals' indemnity hereunder shall be limited to claims and liabilities arising out of the negligence, recklessness or willful misconduct of the design professional. The indemnity obligation shall be binding on successors and assigns of Consultant and shall survive termination of this Agreement.

5.4 Sufficiency of Insurer.

Insurance required by this Agreement shall be satisfactory only if issued by companies qualified to do business in California, rated "A-" or better in the most recent edition of Best Rating Guide, The Key Rating Guide or in the Federal Register, and only if they are of a financial category Class VII or better, unless such requirements are waived by the Risk Manager of the City ("Risk

Manager") due to unique circumstances. If this Agreement continues for more than 3 years duration, or in the event the risk manager determines that the work or services to be performed under this Agreement creates an increased or decreased risk of loss to the City, the Consultant agrees that the minimum limits of the insurance policies may be changed accordingly upon receipt of written notice from the Risk Manager.

ARTICLE 6. RECORDS, REPORTS, AND RELEASE OF INFORMATION

6.1 Records.

Consultant shall keep, and require subcontractors to keep, such ledgers, books of accounts, invoices, vouchers, canceled checks, reports, studies or other documents relating to the disbursements charged to City and services performed hereunder (the "books and records"), as shall be necessary to perform the services required by this Agreement and enable the Contract Officer to evaluate the performance of such services. Any and all such documents shall be maintained in accordance with generally accepted accounting principles and shall be complete and detailed. The Contract Officer shall have full and free access to such books and records at all times during normal business hours of City, including the right to inspect, copy, audit and make records and transcripts from such records. Such records shall be maintained for a period of three (3) years following completion of the services hereunder, and the City shall have access to such records in the event any audit is required. In the event of dissolution of Consultant's business, custody of the books and records may be given to City, and access shall be provided by Consultant's successor in interest. Notwithstanding the above, the Consultant shall fully cooperate with the City in providing access to the books and records if a public records request is made and disclosure is required by law including but not limited to the California Public Records Act.

6.2 Reports.

Consultant shall periodically prepare and submit to the Contract Officer such reports concerning the performance of the services required by this Agreement as the Contract Officer shall require. Consultant hereby acknowledges that the City is greatly concerned about the cost of work and services to be performed pursuant to this Agreement. For this reason, Consultant agrees that if Consultant becomes aware of any facts, circumstances, techniques, or events that may or will materially increase or decrease the cost of the work or services contemplated herein or, if Consultant is providing design services, the cost of the project being designed, Consultant shall promptly notify the Contract Officer of said fact, circumstance, technique or event and the estimated increased or decreased cost related thereto and, if Consultant is providing design services, the estimated increased or decreased cost estimate for the project being designed.

6.3 Ownership of Documents.

All drawings, specifications, maps, designs, photographs, studies, surveys, data, notes, computer files, reports, records, documents and other materials (the "documents and materials") prepared by Consultant, its employees, subcontractors and agents in the performance of this Agreement shall be the property of City and shall be delivered to City upon request of the Contract Officer or upon the termination of this Agreement, and Consultant shall have no claim for further employment or additional compensation as a result of the exercise by City of its full rights of

ownership use, reuse, or assignment of the documents and materials hereunder. Any use, reuse or assignment of such completed documents for other projects and/or use of uncompleted documents without specific written authorization by the Consultant will be at the City's sole risk and without liability to Consultant, and Consultant's guarantee and warranties shall not extend to such use, reuse or assignment. Consultant may retain copies of such documents for its own use. Consultant shall have the right to use the concepts embodied therein. All subcontractors shall provide for assignment to City of any documents or materials prepared by them, and in the event Consultant fails to secure such assignment, Consultant shall indemnify City for all damages resulting therefrom. Moreover, with respect to any documents and materials that may qualify as "works made for hire" as defined in 17 U.S.C. § 101, such documents and materials are hereby deemed "works made for hire" for the City.

6.4 Confidentiality and Release of Information.

(a) All information gained or work product produced by Consultant in performance of this Agreement shall be considered confidential, unless such information is in the public domain or already known to Consultant. Consultant shall not release or disclose any such information or work product to persons or entities other than City without prior written authorization from the Contract Officer.

(b) Consultant, its officers, employees, agents or subcontractors, shall not, without prior written authorization from the Contract Officer or unless requested by the City Attorney, voluntarily provide documents, declarations, letters of support, testimony at depositions, response to interrogatories or other information concerning the work performed under this Agreement. Response to a subpoena or court order shall not be considered "voluntary" provided Consultant gives City notice of such court order or subpoena.

(c) If Consultant, or any officer, employee, agent or subcontractor of Consultant, provides any information or work product in violation of this Agreement, then City shall have the right to reimbursement and indemnity from Consultant for any damages, costs and fees, including attorneys fees, caused by or incurred as a result of Consultant's conduct.

(d) Consultant shall promptly notify City should Consultant, its officers, employees, agents or subcontractors be served with any summons, complaint, subpoena, notice of deposition, request for documents, interrogatories, request for admissions or other discovery request, court order or subpoena from any party regarding this Agreement and the work performed there under. City retains the right, but has no obligation, to represent Consultant or be present at any deposition, hearing or similar proceeding. Consultant agrees to cooperate fully with City and to provide City with the opportunity to review any response to discovery requests provided by Consultant. However, this right to review any such response does not imply or mean the right by City to control, direct, or rewrite said response.

ARTICLE 7. ENFORCEMENT OF AGREEMENT AND TERMINATION

7.1 California Law.

This Agreement shall be interpreted, construed and governed both as to validity and to performance of the parties in accordance with the laws of the State of California. Legal actions

concerning any dispute, claim or matter arising out of or in relation to this Agreement shall be instituted in the Superior Court of the County of Los Angeles, State of California, or any other appropriate court in such county, and Consultant covenants and agrees to submit to the personal jurisdiction of such court in the event of such action. In the event of litigation in a U.S. District Court, venue shall lie exclusively in the Central District of California, in the County of Los Angeles, State of California.

7.2 Disputes; Default.

In the event that Consultant is in default under the terms of this Agreement, the City shall not have any obligation or duty to continue compensating Consultant for any work performed after the date of default. Instead, the City may give notice to Consultant of the default and the reasons for the default. The notice shall include the timeframe in which Consultant may cure the default. This timeframe is presumptively thirty (30) days, but may be extended, though not reduced, if circumstances warrant. During the period of time that Consultant is in default, the City shall hold all invoices and shall, when the default is cured, proceed with payment on the invoices. In the alternative, the City may, in its sole discretion, elect to pay some or all of the outstanding invoices during the period of default. If Consultant does not cure the default, the City may take necessary steps to terminate this Agreement under this Article. Any failure on the part of the City to give notice of the Consultant's default shall not be deemed to result in a waiver of the City's legal rights or any rights arising out of any provision of this Agreement.

7.3 Retention of Funds.

Consultant hereby authorizes City to deduct from any amount payable to Consultant (whether or not arising out of this Agreement) (i) any amounts the payment of which may be in dispute hereunder or which are necessary to compensate City for any losses, costs, liabilities, or damages suffered by City, and (ii) all amounts for which City may be liable to third parties, by reason of Consultant's acts or omissions in performing or failing to perform Consultant's obligation under this Agreement. In the event that any claim is made by a third party, the amount or validity of which is disputed by Consultant, or any indebtedness shall exist which shall appear to be the basis for a claim of lien, City may withhold from any payment due, without liability for interest because of such withholding, an amount sufficient to cover such claim. The failure of City to exercise such right to deduct or to withhold shall not, however, affect the obligations of the Consultant to insure, indemnify, and protect City as elsewhere provided herein.

7.4 Waiver.

Waiver by any party to this Agreement of any term, condition, or covenant of this Agreement shall not constitute a waiver of any other term, condition, or covenant. Waiver by any party of any breach of the provisions of this Agreement shall not constitute a waiver of any other provision or a waiver of any subsequent breach or violation of any provision of this Agreement. Acceptance by City of any work or services by Consultant shall not constitute a waiver of any of the provisions of this Agreement. No delay or omission in the exercise of any right or remedy by a non-defaulting party on any default shall impair such right or remedy or be construed as a waiver. Any waiver by either party of any default must be in writing and shall not be a waiver of any other default concerning the same or any other provision of this Agreement.

7.5 Rights and Remedies are Cumulative.

Except with respect to rights and remedies expressly declared to be exclusive in this Agreement, the rights and remedies of the parties are cumulative and the exercise by either party of one or more of such rights or remedies shall not preclude the exercise by it, at the same or different times, of any other rights or remedies for the same default or any other default by the other party.

7.6 Legal Action.

In addition to any other rights or remedies, either party may take legal action, in law or in equity, to cure, correct or remedy any default, to recover damages for any default, to compel specific performance of this Agreement, to obtain declaratory or injunctive relief, or to obtain any other remedy consistent with the purposes of this Agreement. Notwithstanding any contrary provision herein, Consultant shall file a statutory claim pursuant to Government Code Sections 905 et. seq. and 910 et. seq., in order to pursue a legal action under this Agreement.

7.7 Termination Prior to Expiration of Term.

This Section shall govern any termination of this Agreement except as specifically provided in the following Section for termination for cause. The City reserves the right to terminate this Agreement at any time, with or without cause, upon thirty (30) days' written notice to Consultant, except that where termination is due to the fault of the Consultant, the period of notice may be such shorter time as may be determined by the Contract Officer. In addition, the Consultant reserves the right to terminate this Agreement at any time, with or without cause, upon sixty (60) days' written notice to City, except that where termination is due to the fault of the City, the period of notice may be such shorter time as the Consultant may determine. Upon receipt of any notice of termination, Consultant shall immediately cease all services hereunder except such as may be specifically approved by the Contract Officer. Except where the Consultant has initiated termination, the Consultant shall be entitled to compensation for all services rendered prior to the effective date of the notice of termination and for any services authorized by the Contract Officer thereafter in accordance with the Schedule of Compensation or such as may be approved by the Contract Officer, except as provided in Section 7.3. In the event the Consultant has initiated termination, the Consultant shall be entitled to compensation only for the reasonable value of the work product actually produced hereunder. In the event of termination without cause pursuant to this Section, the terminating party need not provide the non-terminating party with the opportunity to cure pursuant to Section 7.2.

7.8 Termination for Default of Consultant.

If termination is due to the failure of the Consultant to fulfill its obligations under this Agreement, City may, after compliance with the provisions of Section 7.2, take over the work and prosecute the same to completion by contract or otherwise, and the Consultant shall be liable to the extent that the total cost for completion of the services required hereunder exceeds the compensation herein stipulated (provided that the City shall use reasonable efforts to mitigate such damages), and City may withhold any payments to the Consultant for the purpose of set-off or partial payment of the amounts owed the City as previously stated.

7.9 Attorneys' Fees.

If either party to this Agreement is required to initiate or defend or made a party to any action or proceeding in any way connected with this Agreement, the prevailing party in such action or proceeding, in addition to any other relief which may be granted, whether legal or equitable, shall be entitled to reasonable attorney's fees. Attorney's fees shall include attorney's fees on any appeal, and in addition a party entitled to attorney's fees shall be entitled to all other reasonable costs for investigating such action, taking depositions and discovery and all other necessary costs the court allows which are incurred in such litigation. All such fees shall be deemed to have accrued on commencement of such action and shall be enforceable whether or not such action is prosecuted to judgment.

ARTICLE 8. CITY OFFICERS AND EMPLOYEES: NON-DISCRIMINATION

8.1 Non-liability of City Officers and Employees.

No officer or employee of the City shall be personally liable to the Consultant, or any successor in interest, in the event of any default or breach by the City or for any amount which may become due to the Consultant or to its successor, or for breach of any obligation of the terms of this Agreement.

8.2 Conflict of Interest.

Consultant covenants that neither it, nor any officer or principal of its firm, has or shall acquire any interest, directly or indirectly, which would conflict in any manner with the interests of City or which would in any way hinder Consultant's performance of services under this Agreement. Consultant further covenants that in the performance of this Agreement, no person having any such interest shall be employed by it as an officer, employee, agent or subcontractor without the express written consent of the Contract Officer. Consultant agrees to at all times avoid conflicts of interest or the appearance of any conflicts of interest with the interests of City in the performance of this Agreement.

No officer or employee of the City shall have any financial interest, direct or indirect, in this Agreement nor shall any such officer or employee participate in any decision relating to the Agreement which affects her/his financial interest or the financial interest of any corporation, partnership or association in which (s)he is, directly or indirectly, interested, in violation of any State statute or regulation. The Consultant warrants that it has not paid or given and will not pay or give any third party any money or other consideration for obtaining this Agreement.

8.3 Covenant Against Discrimination.

Consultant covenants that, by and for itself, its heirs, executors, assigns, and all persons claiming under or through them, that there shall be no discrimination against or segregation of, any person or group of persons on account of race, color, creed, religion, sex, gender, sexual orientation, marital status, national origin, ancestry or other protected class in the performance of this Agreement. Consultant shall take affirmative action to insure that applicants are employed and that employees are treated during employment without regard to their race, color, creed, religion, sex, gender, sexual orientation, marital status, national origin, ancestry or other protected class.

8.4 Unauthorized Aliens.

Consultant hereby promises and agrees to comply with all of the provisions of the Federal Immigration and Nationality Act, 8 U.S.C.A. §§ 1101, *et seq.*, as amended, and in connection therewith, shall not employ unauthorized aliens as defined therein. Should Consultant so employ such unauthorized aliens for the performance of work and/or services covered by this Agreement, and should any liability or sanctions be imposed against City for such use of unauthorized aliens, Consultant hereby agrees to and shall reimburse City for the cost of all such liabilities or sanctions imposed, together with any and all costs, including attorneys' fees, incurred by City.

ARTICLE 9. MISCELLANEOUS PROVISIONS

9.1 Notices.

Any notice, demand, request, document, consent, approval, or communication either party desires or is required to give to the other party or any other person shall be in writing and either served personally or sent by prepaid, first-class mail, in the case of the City, to the City Manager and to the attention of the Contract Officer (with her/his name and City title), City of Carson, 701 East Carson, Carson, California 90745 and in the case of the Consultant, to the person(s) at the address designated on the execution page of this Agreement. Either party may change its address by notifying the other party of the change of address in writing. Notice shall be deemed communicated at the time personally delivered or in seventy-two (72) hours from the time of mailing if mailed as provided in this Section.

9.2 Interpretation.

The terms of this Agreement shall be construed in accordance with the meaning of the language used and shall not be construed for or against either party by reason of the authorship of this Agreement or any other rule of construction which might otherwise apply.

9.3 Counterparts.

This Agreement may be executed in any number of counterparts and each of such counterparts shall for all purposes be deemed to be an original, whether the signatures are originals, electronic, facsimiles or digital. All such counterparts shall together constitute but one and the same Agreement.

9.4 Integration; Amendment.

This Agreement including the attachments hereto is the entire, complete and exclusive expression of the understanding of the parties. It is understood that there are no oral agreements between the parties hereto affecting this Agreement and this Agreement supersedes and cancels any and all previous negotiations, arrangements, agreements and understandings, if any, between the parties, and none shall be used to interpret this Agreement. No amendment to or modification of this Agreement shall be valid unless made in writing and approved by the Consultant and by the City Council. The parties agree that this requirement for written modifications cannot be waived and that any attempted waiver shall be void.

9.5 Severability.

In the event that any one or more of the phrases, sentences, clauses, paragraphs, or sections contained in this Agreement shall be declared invalid or unenforceable by a valid judgment or decree of a court of competent jurisdiction, such invalidity or unenforceability shall not affect any of the remaining phrases, sentences, clauses, paragraphs, or sections of this Agreement which are hereby declared as severable and shall be interpreted to carry out the intent of the parties hereunder unless the invalid provision is so material that its invalidity deprives either party of the basic benefit of their bargain or renders this Agreement meaningless.

9.6 Warranty & Representation of Non-Collusion.

No official, officer, or employee of City has any financial interest, direct or indirect, in this Agreement, nor shall any official, officer, or employee of City participate in any decision relating to this Agreement which may affect his/her financial interest or the financial interest of any corporation, partnership, or association in which (s)he is directly or indirectly interested, or in violation of any corporation, partnership, or association in which (s)he is directly or indirectly interested, or in violation of any State or municipal statute or regulation. The determination of "financial interest" shall be consistent with State law and shall not include interests found to be "remote" or "non-interests" pursuant to Government Code Sections 1091 or 1091.5. Consultant warrants and represents that it has not paid or given, and will not pay or give, to any third party including, but not limited to, any City official, officer, or employee, any money, consideration, or other thing of value as a result or consequence of obtaining or being awarded any agreement. Consultant further warrants and represents that (s)he/it has not engaged in any act(s), omission(s), or other conduct or collusion that would result in the payment of any money, consideration, or other thing of value to any third party including, but not limited to, any City official, officer, or employee, as a result of consequence of obtaining or being awarded any agreement. Consultant is aware of and understands that any such act(s), omission(s) or other conduct resulting in such payment of money, consideration, or other thing of value will render this Agreement void and of no force or effect.

Consultant's Authorized Initials BB

9.7 Corporate Authority.

The persons executing this Agreement on behalf of the parties hereto warrant that (i) such party is duly organized and existing, (ii) they are duly authorized to execute and deliver this Agreement on behalf of said party, (iii) by so executing this Agreement, such party is formally bound to the provisions of this Agreement, and (iv) the entering into this Agreement does not violate any provision of any other Agreement to which said party is bound. This Agreement shall be binding upon the heirs, executors, administrators, successors and assigns of the parties.

[SIGNATURES ON FOLLOWING PAGE]

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the date and year first-above written.

CITY:

CITY OF CARSON, a municipal corporation

Lula Davis-Holmes, Mayor

ATTEST:

Dr. Khaleah K. Bradshaw, City Clerk

APPROVED AS TO FORM:
ALESHIRE & WYNDER, LLP

Sunny K. Soltani, City Attorney
[rjl]

CONSULTANT:

W.G. ZIMMERMAN ENGINEERING, INC.,
a California corporation

By:_____
Name: Bill Zimmerman
Title: President/CEO

By:_____
Name: Bill Zimmerman
Title: Secretary
Address: 7812 Edinger Avenue, Suite 302
Huntington Beach, CA 92647

Two corporate officer signatures required when Consultant is a corporation, with one signature required from each of the following groups: 1) Chairman of the Board, President or any Vice President; and 2) Secretary, any Assistant Secretary, Chief Financial Officer or any Assistant Treasurer. CONSULTANT'S SIGNATURES SHALL BE DULY NOTARIZED, AND APPROPRIATE ATTESTATIONS SHALL BE INCLUDED AS MAY BE REQUIRED BY THE BYLAWS, ARTICLES OF INCORPORATION, OR OTHER RULES OR REGULATIONS APPLICABLE TO CONSULTANT'S BUSINESS ENTITY.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the date and year first-above written.

CITY:

CITY OF CARSON, a municipal corporation

_____
Lula Davis-Holmes, Mayor

ATTEST:

_____
Dr. Khaleah K. Bradshaw, City Clerk

APPROVED AS TO FORM:
ALESHIRE & WYNDER, LLP

_____
Sunny K. Soltani, City Attorney
[rjl]

CONSULTANT:

W.G. ZIMMERMAN ENGINEERING, INC.,
a California corporation

By:_____
Name: Bill Zimmerman
Title: President/CEO

By:_____
Name: Bill Zimmerman
Title: Secretary
Address: 7812 Edinger Avenue, Suite 302
Huntington Beach, CA 92647

Two corporate officer signatures required when Consultant is a corporation, with one signature required from each of the following groups: 1) Chairman of the Board, President or any Vice President; and 2) Secretary, any Assistant Secretary, Chief Financial Officer or any Assistant Treasurer. CONSULTANT'S SIGNATURES SHALL BE DULY NOTARIZED, AND APPROPRIATE ATTESTATIONS SHALL BE INCLUDED AS MAY BE REQUIRED BY THE BYLAWS, ARTICLES OF INCORPORATION, OR OTHER RULES OR REGULATIONS APPLICABLE TO CONSULTANT'S BUSINESS ENTITY.

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy or validity of that document.

STATE OF CALIFORNIA

COUNTY OF LOS ANGELES

On _____, 2023 before me, _____, personally appeared _____, proved to me on the basis of satisfactory evidence to be the person(s) whose names(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: _____

OPTIONAL

Though the data below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent reattachment of this form.

CAPACITY CLAIMED BY SIGNER

- ☐ INDIVIDUAL
- ☐ CORPORATE OFFICER

_____
TITLE(S)

- ☐ PARTNER(S) ☐ LIMITED ☐ GENERAL
- ☐ ATTORNEY-IN-FACT
- ☐ TRUSTEE(S)
- ☐ GUARDIAN/CONSERVATOR
- ☐ OTHER_____

SIGNER IS REPRESENTING:
(NAME OF PERSON(S) OR ENTITY(IES))

_____

_____

DESCRIPTION OF ATTACHED DOCUMENT

_____
TITLE OR TYPE OF DOCUMENT

_____
NUMBER OF PAGES

_____
DATE OF DOCUMENT

_____
SIGNER(S) OTHER THAN NAMED ABOVE

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy or validity of that document.

STATE OF CALIFORNIA

COUNTY OF LOS ANGELES

On _____, 2023 before me, _____, personally appeared _____, proved to me on the basis of satisfactory evidence to be the person(s) whose names(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: _____

OPTIONAL

Though the data below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent reattachment of this form.

CAPACITY CLAIMED BY SIGNER

- ☐ INDIVIDUAL
- ☐ CORPORATE OFFICER

_____
TITLE(S)

- ☐ PARTNER(S) ☐ LIMITED ☐ GENERAL
- ☐ ATTORNEY-IN-FACT
- ☐ TRUSTEE(S)
- ☐ GUARDIAN/CONSERVATOR
- ☐ OTHER _____

SIGNER IS REPRESENTING:
(NAME OF PERSON(S) OR ENTITY(IES))

_____

_____

DESCRIPTION OF ATTACHED DOCUMENT

_____
TITLE OR TYPE OF DOCUMENT

_____
NUMBER OF PAGES

_____
DATE OF DOCUMENT

_____
SIGNER(S) OTHER THAN NAMED ABOVE

EXHIBIT "A"
SCOPE OF SERVICES

I. Consultant will perform the following Project Manager Services on an on-call basis:

STAFF AUGMENTATION:

Assist the City in executing various projects. Consultant will conduct plan reviews and project management services for various public facility projects. Consultant shall be the main point of contact with City staff in project or task development from concept to close out. Consultant may be stationed at City facilities to perform assignments and coordinate activities as directed by the Contract Officer, Director of Public Works or assigned designee.

Upon request, Consultant will conduct public workshops and have an explicit understanding of the California Public Contract Code and the City of Carson's Municipal Code efficiently and effectively.

GENERAL PROJECT MANAGEMENT STAFF AUGMENTATION SERVICES:

General services include, but are not limited to the following:

- General Contract Administration/Project Management.
- Review of conceptual and final plans along with project specifications and construction documents.
- Development and preparation of Project Studies.
- Research of various project related items such as local, State, Federal provisions, grant opportunities. Investigation and management of possible grant opportunities for Public Works projects, including grant application, reporting, and monitoring.
- Coordination with, or obtaining approvals from, various private and public agencies.
- Preparation of and/or presenting information at City Council, public workshops, or other public meetings.
- Development or review of various project related reports, diagrams, exhibits.
- Development of databases for capital improvement projects including schedules, budgets and priorities.
- Research and review of, record drawings, field investigations, site conditions, restrictions, California Environmental Quality Act (CEQA) status.

- Coordinate projects with outside agencies such as utility companies, Los Angeles County Department of Public Works, Sheriff station, Caltrans.
- Preparation of Request for Proposals (RFP).
- Coordination of Public Works projects for the bidding process.
- Management of project budgets and working closely with the City's Public Works Administrative staff.
- Review, evaluate, process, and provide approval recommendation to City staff for payments to consultants, consultants, and various agencies.
- Review, evaluate, and approve proposed changes from other consultants and consultants.
- Verification of field work such as field investigations, inspections, job walks.

II. Consultant will perform Services, if any, in accordance with project-specific Task Orders, as follows:

When the City requests proposals from on-call consultants (including the Consultant) on a project-specific Task Order, and if the City accepts Consultant's proposal, then the Task Order and Notice to Proceed shall provide in detail Consultant's Scope of Services on that Task Order. **This Agreement does not guarantee that Consultant will be selected to perform services on Task Orders. This Agreement does not provide for Consultant's compensation except for Consultant's services rendered pursuant to a Notice to Proceed on a Task Order.**

III. Consultant must perform all on-call Services in compliance with the following requirements:

A. Each task shall be indicated by a written request ("Task Order") produced by the Contract Officer with a description of the work to be performed, and the time desired for completion. All tasks shall be carried out in conformity with all provisions of this Agreement.

B. Consultant must prepare a written description of the requested tasks including all components and subtasks; the costs to perform the task ("Task Budget"), using the itemized fees in Exhibit C, Schedule of Compensation, whenever a requested task is provided for in Exhibit C; explain how the cost was determined; and, a schedule for completion of the task ("Task Completion Date"); which shall all collectively be referred to as the "Task Proposal."

C. Contract Officer shall in writing approve, modify, or reject the Task Proposal, and may issue a Notice to Proceed.

D. The task shall be performed at a cost not to exceed the Task Budget.

E. Consultant shall complete the task and deliver all deliverables to Contract Officer by the Task Completion Date.

IV. In addition to the requirements of Section 6.2 and pursuant to the Task Order's project-specific Scope of Services, the Contract Officer may require the Consultant to provide the following deliverables, as applicable:

A. Project Studies

B. Project related reports, diagrams, exhibits

C. Databases for capital improvement projects including schedules, budgets and priorities

D. RFPs

V. All work product is subject to review and acceptance by the City, and must be revised by the Consultant without additional charge to the City until found satisfactory and accepted by City.

VI. Consultant will utilize qualified personnel with the following titles to perform the Services required by the applicable Task Order. Consultant shall obtain the Contract Officer's advanced written approval when replacing any individual assigned to perform services on Task Orders:

A. Bill Zimmerman, PE, TE, PTOE, Project Manager/Traffic Engineer

B. Christopher Cordero, PE, Senior Project Engineer

C. Michael Brust, Project Engineer

D. Antonio Magaña, Senior Design Engineer

E. Jonathan Bui, EIT, Design Engineer

F. Shirley Land, LEED AP, design, project management, and funding support (subconsultant)

EXHIBIT "B"
SPECIAL REQUIREMENTS
(Superseding Contract Boilerplate)

The Agreement is hereby amended as follows (deletions shown in ~~strikethrough~~ and additions shown in ***bold italics***):

I. Section 3.4 (Term) of the Agreement is hereby amended to read in its entirety as follows:

"3.4 Term

Unless earlier terminated in accordance with Article 7 of this Agreement, this Agreement shall continue in full force and effect until completion of the services ***commencing January 1, 2024 and expiring June 30, 2026*** ~~but not exceeding one (1) years from the date hereof~~, except as otherwise provided in the Schedule of Performance (Exhibit "D"). ***The City may, at its sole discretion, elect to extend the Term by two (2) additional one-year terms (each, an "Extension Term"). The pricing to be applied for each Extension Term is listed in Exhibit "C."***"

II. Section 4.5, "Prohibition Against Subcontracting or Assignment," is hereby amended to read in its entirety as follows:

"4.5 Prohibition Against Subcontracting or Assignment

The experience, knowledge, capability and reputation of Consultant, its principals and employees were a substantial inducement for the City to enter into this Agreement. Therefore, ***with the exception of Land CM Consulting & Management which will provide design, project management, and funding support services through Shirley Land,*** Consultant shall not contract with any other entity to perform in whole or in part the services required hereunder without the express written approval of the City. In addition, neither this Agreement nor any interest herein may be transferred, assigned, conveyed, hypothecated or encumbered voluntarily or by operation of law, whether for the benefit of creditors or otherwise, without the prior written approval of City. Transfers restricted hereunder shall include the transfer to any person or group of persons acting in concert of more than twenty five percent (25%) of the present ownership and/or control of Consultant, taking all transfers into account on a cumulative basis. In the event of any such unapproved transfer, including any bankruptcy proceeding, this Agreement shall be void. No approved transfer shall release the Consultant or any surety of Consultant of any liability hereunder without the express consent of City."

EXHIBIT "C"
SCHEDULE OF COMPENSATION

I. **This Schedule of Compensation governs Consultant's compensation in the event the Consultant performs services pursuant to a Notice to Proceed on a Task Order. This Agreement does not guarantee that Consultant will be selected to perform services on Task Orders.**

The not to exceed compensation amounts are as follows:

January 1, 2024 through June 30, 2024:	$120,250.00
July 1, 2024 through June 30, 2025:	$245,310.00*
July 1, 2025 through June 30, 2026:	$250,216.00*
Total:	$615,776.00

July 1, 2026 through June 30, 2027:	$255,220.00 (extension period)*
July 1, 2027 through June 30, 2028:	$260,324.00 (extension period)*

*Amount reflects 2% increase from prior year.

II. **Consultant responding to the City's request for proposals on a project-specific Task Order shall establish a Task Budget for the Task Order, identifying the subtasks based on the time and rates of the personnel performing the subtasks, and itemizing all materials and equipment utilized and the costs thereof. If payment is to be made other than at completion of the services, then the phases of the performance and percentage of payment due shall also be shown in the Task Proposal. Consultant's proposals on Task Orders shall be based on hourly rates identical to the rates attached as Exhibit C-1.**

III. **The City will compensate Consultant for the Services performed upon submission of a valid invoice. Each invoice is to include:**

A. Line items for all personnel describing the work performed, the number of hours worked, and the hourly rate.

B. Line items for all materials and equipment properly charged to the Services.

C. Line items for all other approved reimbursable expenses claimed, with supporting documentation.

D. Line items for all approved subcontractor labor, supplies, equipment, materials, and travel properly charged to the Services.

IV. **The total compensation for the Services shall not exceed $615,776.00 as provided in Section 2.1 of this Agreement.**

V. **The Consultant's billing rates for all personnel are attached as Exhibit C-1.**

EXHIBIT "C-1"
BILLING RATES

Classification	Rate
Principal	$ 220.00/Hr
Registered Traffic Engineer	$ 215.00/Hr
Senior Project Manager (Registered)	$ 200.00/Hr
Project Manager (Registered)	$ 185.00/Hr
Senior Project Engineer (Registered)	$ 180.00/Hr
Project Engineer	$ 160.00/Hr
Senior Associate Engineer	$ 140.00/Hr
Senior Design Engineer	$ 135.00/Hr
Design Engineer	$ 130.00/Hr
CADD Manager/Senior Designer	$ 135.00/Hr
Microstation CADD/Technician	$ 135.00/Hr
Administration/Office Support	$ 90.00/Hr

Non-Labor Expenses	
Printing	Cost plus 5%
Reproduction (Blue lines)	Cost plus 5%
Other Expenses (such as sub-consultants, outside services or special equipment needs)	Cost plus 5%

EXHIBIT "D"
SCHEDULE OF PERFORMANCE

I. Consultant shall perform all Services on an on-call basis as set forth in Exhibit "A."

II. If the City selects the Consultant's proposal to perform a project-specific Task Order, the Task Order's Scope of Work/Services or the Notice to Proceed, or both, shall provide the detailed schedule of performance, and all services shall be completed timely in accordance with the approved Task Proposal and by the Task Completion Date.

AMENDMENT NO. 1

TO AGREEMENT FOR CONTRACT SERVICES

THIS AMENDMENT TO THE AGREEMENT FOR CONTRACT SERVICES ("Amendment") by and between the CITY OF CARSON, a California municipal corporation ("City"), and W.G. ZIMMERMAN ENGINEERING, INC., a California corporation ("Consultant"), is effective as of the 17th day of March, 2026. City and Consultant are sometimes hereinafter individually referred to as "Party" and hereinafter collectively referred to as the "Parties."

RECITALS

A. City and Consultant entered into that certain Agreement for Contract Services dated December 19, 2023 ("Agreement"), whereby Consultant agreed to perform certain on-call project manager services for a not-to-exceed Contract Sum of $615,776.00 over a term of two and a half (2.5) years from January 1, 2024 to June 30, 2026. The Agreement provides for two optional one (1) year extension periods with pricing for each extension term detailed in Exhibit "C."

B. City and Consultant now desire to amend the Agreement to exercise the first of its extension options and extend the Term by one (1) year to June 30, 2027, and increase the total compensation by $355,000.00 ($150,000 during the term ending June 20, 2026 and $205,000 during the first extension period) thereby bringing the Contract Sum from $615,776.00 to $970,776.00. The increased compensation provides for the continuation of services through the end of Fiscal Year 2026–27, including project and construction management, staff augmentation, and traffic control plan review services, and ensures adequate professional support to meet the City's ongoing capital project and operational needs during the first extension term.

TERMS

1. **Incorporation of Recitals**. The Recitals set forth above are incorporated into and are a part of this Amendment.

2. **Terms and Definition.** All words, terms, and phrases used or referenced in this Amendment, not expressly defined in this Amendment, shall have the same meaning ascribed to them in the Agreement.

3. **Contract Changes**. The Agreement is amended as provided herein (new text is indicated in ***bold italics*** and deleted text in ~~strikethrough~~).

A. Section 2.1 (Contract Sum) of the Agreement is hereby amended to read in its entirety as follows:

"2.1 Contract Sum.

Subject to any limitations set forth in this Agreement, City agrees to pay Consultant the amounts specified in the "Schedule of Compensation" attached hereto as Exhibit "C"

and incorporated herein by this reference. The total compensation, including reimbursement for actual expenses, shall not exceed ~~Six Hundred Fifteen Thousand Seventy Six Dollars and Zero Cents ($615,776.00)~~ ***Nine Hundred Seventy Thousand Seven Hundred Seventy Six Dollars and Zero Cents ($970,776.00)*** (the "Contract Sum"), unless additional compensation is approved pursuant to Section 1.8. In the event City elects to exercise its options to extend the Term pursuant to Section 3.4 hereof, the Contract Sum will increase consistent with the additional not to exceed compensation applicable to each Extension Term, as set out in ~~in~~ Exhibit "C."

B. Section 3.4 (Term) of the Agreement is hereby amended to read in its entirety as follows:

"3.4 Term.

Unless earlier terminated in accordance with Article 7 of this Agreement, this Agreement shall continue in full force and effect until completion of the services commencing January 1, 2024 and expiring June 30, ***2027*** ~~2026~~, except as otherwise provided in the Schedule of Performance (Exhibit "D"). The City may, at its sole discretion, elect to extend the Term by ~~two~~ ***one*** (***1***~~2~~) additional one-year terms~~s~~ (each, an "Extension Term"). The pricing to be applied for each Extension Term is listed in Exhibit "C.""

C. Section I of Exhibit C (Schedule of Compensation) of the Agreement is hereby amended to read in its entirety as follows:

"**I. This Schedule of Compensation governs Consultant's compensation in the event the Consultant performs services pursuant to a Notice to Proceed on a Task Order. This Agreement does not guarantee that Consultant will be selected to perform services on Task Orders.**

The not to exceed compensation amounts are as follows:

January 1, 2024 through June 30, 2024:	$120,250.00
July 1, 2024 through June 30, 2025:	$245,310.00~~*~~
July 1, 2025 through June 30, 2026:	***$400,216*** ~~$250,216.00*~~
July 1, 2026 through June 30, 2027:	***$205,000.00 (extension period)***
Total:	***$970,776.00*** ~~$615,776.00~~
~~July 1, 2026 through June 30, 2027:~~	~~$255,220.00 (extension period)*~~
July 1, 2027 through June 30, 2028:	$260,324.00 (extension period)~~*~~

~~*Amount reflects 2% increase from prior year.~~"

D. Section IV of Exhibit C (Schedule of Compensation) is hereby amended to read in its entirety as follows:

"IV. The total compensation for the Services shall not exceed $***970,776.00*** ~~615,776.00~~ as provided in Section 2.1 of this Agreement."

4. **Continuing Effect of Agreement.** Except as amended by this Amendment, all provisions of the Agreement shall remain unchanged and in full force and effect. From and after the date of this Amendment, whenever the term "Agreement" appears in the Agreement, it shall mean the Agreement, as amended by the Amendment to the Agreement.

5. **Affirmation of Agreement; Warranty Re Absence of Defaults.** City and Consultant each ratify and reaffirm each and every one of the respective rights and obligations arising under the Agreement. Each party represents and warrants to the other that there have been no written or oral modifications to the Agreement other than as provided herein. Each party represents and warrants to the other that the Agreement, as amended by this Amendment, is currently an effective, valid, and binding obligation.

Consultant represents and warrants to City that, as of the date of this Amendment, City is not in default of any material term of the Agreement and that there have been no events that, with the passing of time or the giving of notice, or both, would constitute a material default under the Agreement.

City represents and warrants to Consultant that, as of the date of this Amendment, Consultant is not in default of any material term of the Agreement and that there have been no events that, with the passing of time or the giving of notice, or both, would constitute a material default under the Agreement.

6. **Adequate Consideration.** The Parties hereto irrevocably stipulate and agree that they have each received adequate and independent consideration for the performance of the obligations they have undertaken pursuant to this Amendment.

7. **Authority.** The persons executing this Amendment on behalf of the parties hereto warrant that (i) such party is duly organized and existing, (ii) they are duly authorized to execute and deliver this Amendment on behalf of said party, (iii) by so executing this Amendment, such party is formally bound to the provisions of this Amendment, and (iv) the entering into this Amendment does not violate any provision of any other agreement to which said party is bound.

8. **Counterparts.** This Amendment may be executed in any number of counterparts and each of such counterparts shall for all purposes be deemed to be an original, whether the signatures are originals, electronic, facsimiles or digital. All such counterparts shall together constitute but one and the same Amendment.

[SIGNATURES ON FOLLOWING PAGE]

IN WITNESS WHEREOF, the parties hereto have executed this Amendment on the date and year first-above written.

CITY:

CITY OF CARSON, a municipal corporation

_____
Lula Davis-Holmes, Mayor

ATTEST:

_____
Dr. Khaleah K. Bradshaw, City Clerk

APPROVED AS TO FORM:

ALESHIRE & WYNDER, LLP

_____
Sunny K. Soltani, City Attorney
[alh; rjl]

CONTRACTOR:

W.G. ZIMMERMAN ENGINEERING, INC., a California corporation

By:_____
Name:
Title:

By:_____
Name:
Title:
Address: 7812 Edinger Avenue, Ste. 302
Huntington Beach, CA 92647

Two corporate officer signatures required when Contractor is a corporation, with one signature required from each of the following groups: 1) Chairman of the Board, President or any Vice President; and 2) Secretary, any Assistant Secretary, Chief Financial Officer or any Assistant Treasurer. APPROPRIATE ATTESTATIONS SHALL BE INCLUDED AS MAY BE REQUIRED BY THE BYLAWS, ARTICLES OF INCORPORATION, OR OTHER RULES OR REGULATIONS APPLICABLE TO CONTRACTOR'S BUSINESS ENTITY.

Report to Honorable Mayor and City Council

Tuesday, March 17, 2026, 5:00 PM

SPECIAL ORDERS OF THE DAY 26.

To: Honorable Mayor and City Council

From: Nathan Freeman, Director of Community and Economic Development CD Planning

Subject: CONSIDER INTRODUCING FOR FIRST READING, BY TITLE ONLY, ORDINANCE NO. 26-2606, APPROVING AN AMENDED AND RESTATED DEVELOPMENT AGREEMENT NO. 23-19 BETWEEN THE CITY OF CARSON, IMPERIAL AVALON DE, LLC, AND LENNAR HOMES OF CALIFORNIA, LLC FOR A PROPOSED MIXED-USE PROJECT AT 21207 S. AVALON BLVD. (CITY COUNCIL)

I. SUMMARY

Development Agreement No. 23-19 ("DA") was originally approved in December 2022 and entered into with Imperial Avalon, LLC for a mixed-use development project located at 21207 S. Avalon Blvd. Numerous "Minor Modifications" to the DA have been approved by the Community Development Director under the provisions of the DA since that time. Also, the DA has been partially assigned to Lennar Homes of California, LLC ("Lennar"), which purchased the western portion of the project site for development of the townhomes component of the project, whereas Imperial Avalon DE, LLC now owns the eastern portion of the project site for development of the apartment buildings component of the project.

To facilitate construction and completion of the project, the Developer is now seeking City Council adoption of an ordinance approving an amended and restated version of the DA. The proposed Amended and Restated DA, which includes an amended and restated set of project conditions of approval, would incorporate certain changes made to the DA and conditions of approval by the previously-approved Minor Modifications into one consolidated document, while also making certain other changes to technical provisions of the DA such as mortgagee protection and assignment approval requirements.

The Planning Commission heard and recommended City Council approval of an Amended and Restated DA on January 27, 2026. The proposed item before the Council this evening is to hold a public hearing as required by law and consider introduction and first reading of an ordinance that would approve the proposed Amended and Restated DA.

II. RECOMMENDATION

TAKE the following actions:

1. OPEN the public hearing, TAKE public comment, and CLOSE the public hearing; and
2. INTRODUCE for First Reading, by Title only, Ordinance No. 26-2606, "AN UNCODIFIED ORDINANCE OF THE CITY OF CARSON, CALIFORNIA APPROVING AMENDED AND RESTATED DEVELOPMENT

AGREEMENT NO. 23-19 BETWEEN THE CITY OF CARSON, IMPERIAL AVALON DE, LLC, AND LENNAR HOMES OF CALIFORNIA, LLC FOR A PROPOSED MIXED-USE PROJECT AT 21207 S. AVALON BLVD."

III. ALTERNATIVES

TAKE such other action as the City Council deems appropriate, consistent with the requirements of law.

IV. BACKGROUND

On December 13, 2022, the City adopted Ordinance No. 22-2222, approving Development Agreement No. 23-19 (Exhibit 1) between the City and Imperial Avalon LLC for a mixed-use residential and commercial project on the real property located at 21207 South Avalon Boulevard in the City ("Property"). The project consists of 764 multi-family residential units in two buildings of up to four stories each, 351 attached/detached and stacked flat townhome units of up to three stories each, 111,581 square feet of publicly accessible open space (including a minimum 22,859 square foot park), and 10,000 square feet of commercial restaurant space (the "Project").

In connection with Development Agreement No. 23-19, the City also conditionally approved the following entitlements for the Project in December 2022 (collectively, the "Original Entitlements"): (1) certification of an Environmental Impact Report (SCH No. 2021010116; the "EIR") for the Project; (2) General Plan Amendment ("GPA") No. 105-19, to change the land use designation of the Property from Regional Commercial/Low Density Residential to Urban Residential; (3) Specific Plan ("SP") No. 21-19, the Imperial Avalon Specific Plan ("IASP"), to establish the development standards and permitted uses for the Property; (4) Zone Change ("ZCC") No. 188-19, to change the Property's zoning from Commercial Automotive/RM-8-D to Imperial Avalon Specific Plan; (5) Site Plan Review and Design Review ("DOR") No. 1803-19; and (6) Vesting Tentative Tract Map ("VTTM") No. 83157.

The Original Entitlements were approved subject to Conditions of Approval. Among them, Exhibit "B" of Planning Commission Resolution No. 22-244 imposes Conditions of Approval on DOR No. 1803-19 ("DOR COAs"), and Exhibit "C" of Planning Commission Resolution No. 22-244, as amended by City Council Resolution No. 22-242, imposes Conditions of Approval on VTTM No. 83157 ("VTTM COAs").

The Development Agreement and some of the Original Entitlements, including the DOR COAs and VTTM COAs, were subsequently amended through multiple Minor Modifications requested by Imperial Avalon and approved by the City's Community Development Director pursuant to Section 12.4 of the Development Agreement, as follows (Exhibits 3-7; collectively, the "Minor Modifications"):

- A Minor Modification approved on May 24, 2023, made revisions to the Development Agreement and resolved an inconsistency between the Specific Plan and the approved Project plans regarding the required Project building setback from the 405 freeway.

- A Minor Modification approved on February 28, 2024, made revisions to the Development Agreement. This Minor Modification was approved pursuant to a Settlement Agreement and Mutual Release between the City and Imperial Avalon, which became effective on or about February 28, 2024 ("Original Settlement Agreement").

- A Minor Modification approved on June 10, 2024, made revisions to the Development Agreement, the DOR COAs, the VTTM COAs, and the Mitigation Monitoring and Reporting Program Table included as Section 4.2 in the Final EIR.

- A Minor Modification approved on May 8, 2025, made revisions to the Development Agreement.

- A Minor Modification approved on February 4, 2026, which provides for revisions to the Development Agreement, the DOR COAs, and the VTTM COAs. This Minor Modification is pursuant to an Amendment and Restatement of the Original Settlement Agreement, and replaced the Minor Modification approved on February 28, 2024.

After approval of the DA, ownership of the Property was conveyed from Imperial Avalon, LLC to Imperial Avalon DE, LLC. Lennar Homes of California, LLC, ("Lennar") purchased from Imperial Avalon DE, LLC the portion of the Property that will contain the Townhomes ("Transferred Property") and entered into a Partial Assignment and Assumption Agreement with Imperial Avalon, LLC, recorded on October 1, 2024 (Exhibit 2; "A/A Agreement"), under which Imperial Avalon assigned to Lennar and Lennar assumed from Imperial Avalon all of Imperial Avalon's rights and obligations regarding the Transferred Property, including rights and obligations under the Development Agreement, as more fully described in the A/A Agreement. The City consented to the assignment and assumption effectuated through the A/A Agreement, as required by Section 11 of the Development Agreement. Imperial Avalon DE, LLC and Lennar are referred to below collectively as the "Developer".

Current Application

In or about December of 2025, Developer submitted to the City an application to amend and restate the Development Agreement, in order to incorporate and integrate the changes made through the Minor Modifications into one consolidated document, along with other technical modifications, pursuant to Government Code Sections 65864 through 65869.5.

On January 27, 2026, the Planning Commission held a duly noticed public hearing and thereafter adopted Planning Commission Resolution No. 26-2898, recommending City Council approval of the Amended and Restated Development Agreement that was attached as Exhibits 9-10 to the Planning Commission staff report, available at: AgendaLink (Item 7.B of the Agenda).

The request is for the purpose of ease of reference and understanding of the applicable development agreement provisions as well as making certain other technical modifications which can facilitate the Developer's ability to take the necessary actions (e.g., obtaining construction loans) to complete the Project. Approval of the proposed Amended and Restated Development Agreement (Exhibit 11), which would require Council adoption of an appropriate ordinance (Exhibit 10), would do so. The provisions of the Amended and Restated Development Agreement are consistent with the general plan and applicable specific plan, as provided in the proposed ordinance and Amended and Restated Development Agreement.

The request also includes the incorporation and integration of the modifications made to the DOR COAs and VTTM COAs through the Minor Modifications, without substantive change except as stated below, into one consolidated amended and restated set of COAs, which is Exhibit D to the proposed Amended and Restated Development Agreement. The proposed amended and restated set of COAs is attached separately to this report as Exhibit 12. The additions to the original COAs are shown in bold and underlined font, while the deletions are shown in strikethrough font.

The proposed Amended and Restated Development Agreement and COAs include and integrate all of the modifications that have been previously made and approved through the Minor Modifications, except certain changes that were made to two specific COAs after the Planning Commission hearing (but not expressly included in the Planning Commission's recommendation) via the Minor Modification approved on February 4, 2026. The changes, which stated that the Project is not entitled to any Interim Development Impact Fee credits or offsets pursuant to the CMC, have been omitted from the proposed Amended and Restated Development Agreement and COAs in response to a letter from the Developer dated February 18, 2026 (Exhibit 9). The proposed Amended and Restated Development Agreement and COAs would instead allow City staff to grant Interim Development Impact Fee credits or remibursements if and to the extent that staff determines that the Project is entitled to such credits or reimbursements pursuant to the CMC.

Environmental Review

The Amended and Restated Development Agreement was adequately assessed by the Environmental Impact Report for the Project (available at: https://ci.carson.ca.us/CommunityDevelopment/ImperialAvalon.aspx) and there are no circumstances requiring additional environmental review. Specifically, no substantial changes are proposed in the Project that will require major revisions to the EIR due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects; no substantial changes have occurred with respect to the circumstances under which the Project will be undertaken which will require major revisions to the EIR due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects; and there is no new information of substantial importance, which was not known and could not have been known with the exercise of reasonable diligence at the time the EIR was certified as complete, that shows any of the following: (A) the Project will have one or more significant effects not discussed in the EIR; (B) significant effects previously examined will be substantially more severe than shown in the EIR; (C) mitigation measures or alternatives previously found not to be feasible would in fact be feasible and would substantially reduce one or more significant effects of the Project, but the Project proponents decline to adopt the mitigation measure or alternative; or (D) mitigation measures or alternatives which are considerably different from those analyzed in the EIR would substantially reduce one or more significant effects on the environment, but the Project proponents decline to adopt the mitigation measure or alternative.

Furthermore, approval of the Amended and Restated Development Agreement is covered by the common sense exemption that CEQA applies only to projects which have the potential for causing a significant effect on the environment. Here, it can be seen with certainty that there is no possibility that the amendments made to the Amended and Restated Development Agreement may have a significant effect on the environment. The amendments largely integrate modifications to the Development Agreement that were previously approved and are primarily related to the payment of fees and the provision of public benefits as well as other technical provisions such as mortgagee protection and assignment approval provisions, rather than making physical changes to the Project or Project site.

Consequently, approval of the Amended and Restated Development Agreement does not require any additional environmental review.

Public Hearing Notice

City staff duly issued notice of a City Council public hearing to consider this item as required by law. By March 7, 2026, the notice was published in a newspaper of general circulation within the City, and posted in the designated public places.

V. FISCAL IMPACT

No Fiscal Impact

VI. EXHIBITS

1. Approved Development Agreement No. 23-19 between the City and Imperial Avalon, LLC
2. A/A Agreement between Imperial Avalon, LLC and Lennar Homes of California, LLC
3. Minor Modification approved on May 24, 2023
4. Minor Modification approved on February 28, 2024
5. Minor Modification approved on June 10, 2024
6. Minor Modification approved on May 8, 2025
7. Minor Modification approved on February 4, 2026
8. PC Resolution No. 26-2898 (without attachment)
9. Letter from Developer dated February 18, 2026
10. (Draft) Ordinance No. 26-2606
11. (Draft) Amended and Restated Development Agreement No. 23-19 between the City of Carson, Imperial Avalon, LLC, and Lennar Homes of California, LLC (Exhibit A to Ordinance No. 26-2606)
12. (Draft) Amended and Restated COAs (Exhibit D to Amended and Restated Development Agreement)

Attachments

1. Imperial Avalon Development Agreement 11-16-2023 (fully executed_recorded)(1022789.1).pdf
2. 24-1001_IA-Lennar-RecordedPartialAssignmentAssumption(2081664.1).pdf
3. 23-0524_IA DA_MinorMod(1)_FullyExecuted.pdf
4. 24-0228_IA DA_MinorMod(2)-Executed.pdf
5. 6.10.2024_Imperial Avalon DA Minor Modification (1000987.1).pdf
6. 25-0508_IA DA_MinorMod(4)_Executed.pdf
7. IASP Minor Modification - 2.4.26 (2072292.3)-Executed.pdf
8. PC Resolution 26-2898 _ signed.pdf
9. 26-0218_IDIF-Credit_OffsetRequest-final.pdf
10. Imperial Avalon_Amended and Restated DA_Adopting Ordinance No. 26-2606 (2079792.3).pdf
11. Imperial Avalon_Amended Restated DA (3.11.26)(2103038.2).pdf
12. Imperial Avalon_Amended and Restated DA_Exhibit D COAs (3.11.26)(2079782.7).pdf

This page is part of your document - DO NOT DISCARD

20240361857

Recorded/Filed in Official Records
Recorder's Office, Los Angeles County,
California

06/04/24 AT 09:21AM

Pages:
0052

FEES:	0.00
TAXES:	0.00
OTHER:	0.00
PAID:	0.00

LEADSHEET

202406043260005

00024505718

014716256

SEQ:
01

DAR - Counter (Upfront Scan)

THIS FORM IS NOT TO BE DUPLICATED

E475702

RECORDING REQUESTED BY:

AND WHEN RECORDED MAIL TO:

NAME City of Carson

MAILING ADDRESS 701 E. Carson St.

CITY, STATE & ZIP CODE

Carson, CA 90745

Attention: Planning Manager

06/04/2024

20240361857

SPACE ABOVE THIS LINE RESERVED FOR RECORDER'S USE

TITLE(S)

Development Agreement - Imperial Avalon

RECORDING REQUESTED BY AND
WHEN RECORDED MAIL TO:

City of Carson
701 E Carson Street
Carson, CA 90745
Attn: Planning Manager

SPACE ABOVE THIS LINE RESERVED FOR RECORDER'S USE

DEVELOPMENT AGREEMENT

This Development Agreement ("Agreement") is entered into on the 16th day of November, 2023 ("**Execution Date**"), by and between the City of Carson, a municipal corporation of the State of California ("**City**"), and IMPERIAL AVALON, LLC, a California limited liability company ("**Developer**"). The City and Developer shall be referred to jointly within this Agreement as the "Parties" and individually as a "Party."

Signed in counterpart

RECITALS

A. *The Development Agreement Statute.* California Government Code Sections 65864 *et seq.* ("**Development Agreement Law**") authorizes cities to enter into binding development agreements with persons having a legal or equitable interest in real property for the development of such property, all for the purpose of strengthening the public planning process, encouraging private participation, and comprehensive planning and identifying the economic costs of such development.

B. *Orderly Development; Public Benefits.* The City Council finds that this Agreement is in the best public interest of the City and its residents, adopting this Agreement constitutes a present exercise of the City's police power, and this Agreement is consistent with the City's General Plan. This Agreement and the proposed Project will achieve a number of City objectives, including the orderly development of the Property and the provision of public benefits, or funds therefor, to the City and its residents.

C. *The Property.* Developer owns the property located at 21207 South Avalon Boulevard in the City of Carson, County of Los Angeles, State of California (APNs 7337-001-025, 7337-001-026, 7337-001-027, 7337-001-028, and 7337-001-029) ("**Property**"). The General Plan land use designation for the Property is Regional Commercial and Low Density Residential and the Property is zoned Commercial Automotive (CA) and RM-8-D (Design Overlay). The City is currently in the process of updating its General Plan. The Carson General Plan 2040 Update identifies the site as "Downtown Mixed Use." The Property is currently improved and in operation as a mobilehome park, known as Imperial Avalon Mobile Estates ("**Imperial Avalon**" or the "**Park**").

D. *The Park.* Developer filed an application for approval of Relocation Impact Report No. 05-20 ("**RIR**") related to Park closure pursuant to CMC Section 9128.21 in early 2020 (the "**Closure Application**"). The Closure Application was heard and conditionally approved by the City's Planning Commission on May 13, 2020, via adoption of Planning Commission Resolution No. 20-2695. Following an administrative appeal to the City Council, on July 7, 2020, the City Council adopted City Resolution No. 20-113, affirming

the Planning Commission's decision subject to imposition of added and modified conditions as set forth the "Amended Conditions of RIR No. 05-20" which are attached to said resolution ("the **RIR Conditions**"), and specifying the earliest possible date of Park closure (i.e., the earliest date when residents may be compelled to vacate the Park) as January 1, 2022, subject to issuance of the required notices of termination of tenancy (the "**Closure Approval**"). As required by the Closure Approval, Developer has executed and recorded on title to the Property a "Declaration of Lease Covenants, Conditions and Restrictions Applicable to Park Closure Pursuant to Government Code § 27281.5" (the "**Option C Covenant**"). Furthermore, Developer has agreed to provide certain enhancements to the relocation impact mitigation measures set forth in the RIR Conditions for the benefit of the displaced Park residents, which enhancements were set forth in a letter from Developer to the Park residents dated September 9, 2021, and Developer may agree to provide further enhancements at a later date (collectively, the "**Enhancements**"). Developer has not yet issued the required 6-month notice of termination of tenancy, which is a prerequisite of Park closure. As of the Effective Date hereof, some residents remain in the Park while some have vacated the Park voluntarily pursuant to early termination agreements entered into with the Developer in accordance with the RIR Conditions, and implementation/satisfaction of the RIR Conditions remains pending and underway. Developer still intends, and has the right, to issue the requisite 6-month notice of termination of tenancies and thereafter close the Park during the effective period of the Closure Approval, although the precise dates of such actions are not currently known. It is understood and was decided by the City in acting upon the Closure Application that the Closure Application and the City's review and decision thereon was exempt from California Environmental Quality Act ("**CEQA**") review and did not constitute a "project" within the meaning of CEQA. On that basis, a Notice of Exemption was filed in connection with the Closure Approval on July 17, 2020, and no CEQA-related challenges were filed within the applicable 35 day statute of limitations period.

E. *The Project.* Developer desires to re-develop the Property as a mixed-use residential and commercial development (the "**Project**"). The Project consists of 764 multi-family residential units within two buildings of up to four stories (or sixty-eight feet, six inches [68'6"] each, including at least one parking structure per building, each on their own lot on the eastern portion of the Property (the "**Apartments**"), 351 attached/detached and stacked flat townhome units of up to three stories (or thirty-eight feet, six inches [38'6"]) each, all located on another lot on the western portion of the Property (the "**Townhomes**"), for a total of 1,115 residential units and a density of 41 dwelling units per acre, 111,581 square feet of publicly accessible open space (including a minimum 22,859 square foot park), and 10,000 square feet of commercial space, all of which shall be restaurant use(s). To that end, on October 3, 2019, Developer filed a development permit application with the City (Master Redevelopment Project No. PL10044) seeking various entitlements to develop the Project (collectively, the "**Development Application**"). The City determined the Development Application complete on December 24, 2019.

F. *Project EIR and Entitlements.* The City is the lead agency, within the meaning of the California Environmental Quality Act, Public Resources Code § 21000 *et seq.* ("**CEQA**"), for purposes of conducting environmental review of the Project. The City finds and determines that all actions required of City precedent to approval of this Agreement have been duly and regularly taken. In accordance with the requirements of the California

Environmental Quality Act (Public Resources Code § 21000, *et seq.* ("**CEQA**"), appropriate studies, analyses, reports, documents, and errata were prepared and considered by the Planning Commission and the City Council. The Planning Commission, after a duly noticed public hearing on November 21, 2022, certified the Environmental Impact Report ("**EIR**") and adopted a Statement of Overriding Considerations for the Project in accordance with CEQA. The Project is identified in the EIR as Alternative 3 and is fully assessed in the EIR and the errata thereto.

G. *Project Approvals.* On the same day, the Planning Commission, after giving notice pursuant to the CMC and Government Code §§ 65090, 65091, 65092 and 65094, held a public hearing on the Development Application, and following the hearing, adopted Planning Commission Resolution No. 22-2846, which: (i) made CEQA findings and determinations as referenced above; (ii) conditionally approved Site Plan and Design Overlay Review ("**DOR**") No. 1803-19 and Vesting Tentative Tract Map ("**VTTM**") No. 83157 for the Project subject to City Council approval of General Plan Amendment ("**GPA**") No. 105-19 (changing the General Plan land use designation for the Property from Regional Commercial/Low Density Residential to Urban Residential), Specific Plan ("**SP**") No. 21-19 (Imperial Avalon Specific Plan), Zone Change ("**ZCC**") No. 188-19 (changing the Property zoning from Commercial Automotive (CA)/Residential, multifamily – 8 units per acre (RM-8) with a Design Overlay to Imperial Avalon Specific Plan [IASP]), and Development Agreement ("**DA**") No. 23-19 (this Agreement, inclusive of the Adopting Ordinance); and (iii) recommended that the City Council approve GPA No. 105-19, SP No. 21-19, ZCC No. 188-19, and DA No. 23-19 for the Project (DOR No. 1803-19, VTTM No. 83157, GPA No. 105-19, SP No. 21-19, ZCC No. 188-19, and DA No. 23-19 collectively, together with the EIR, the "**Entitlements**").

H. On December 6 , 2022, the City Council, after provision of the public notice required by law, held a public hearing to consider the Development Application and the Planning Commission's actions and recommendations thereon, and following the hearing, conditionally approved GPA No. 105-19, SP No. 21-19, ZCC No. 188-19, and DA No. 23-19 as set forth in City Council Resolution No. 22-2846. The Planning Commission and the City Council have found, on the basis of substantial evidence based on the entire administrative record, that this Agreement is consistent with all applicable plans, rules, regulations and official policies of the City.

I. *Developer's Interest in the Property.* Developer currently owns the Property and as such, possesses the requisite equitable interest in the Property under Government Code Section 65865 that allows the Parties to enter into this Agreement.

COVENANTS

NOW, THEREFORE, in consideration of the above recitals and of the mutual covenants hereinafter contained and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Parties agree as follows:

1. GENERAL DEFINITIONS.

In addition to those terms defined within the above Recitals and elsewhere within this Agreement, the following terms shall bear the meanings set forth below:

1.1 "**Adopting Ordinance**" means Ordinance No. 22-2222 approving this Agreement, introduced on December 6, 2022 and adopted on December 13, 2022.

1.2 "**Agreement**" means this Development Agreement, including all of its exhibits.

1.3 "**Annual Review**" means the annual review of the Developer's performance under this Agreement in accordance with Article 6 of this Agreement.

1.4 "**Applicable Laws**" means, collectively, the following:

a. The Project Development Approvals.

b. The Existing Land Use Regulations.

c. Subsequent Development Approvals.

d. Those Subsequent Land Use Regulations to which Developer has agreed in writing.

e. The Closure Approval and associated covenants and agreements, including without limitation the Option C Covenant and the Enhancements.

1.5 "**Approval Date**" means the date on which the City Council conducted the second reading of the Adopting Ordinance. That date is December 13, 2022.

1.6 "**CFD**" means any Community Facilities District that is applicable to the Property and formed pursuant to the Mello Roos Community Facilities Act of 1982.

1.7 "**City**" means the City of Carson, a California Charter city.

1.8 "**City Council**" means the City Council of the City of Carson.

1.9 "**CMC**" means the Carson Municipal Code.

1.10 "**Conditions of Approval**" means all conditions imposed on the Project by the City, including (without limitation) those recommended by the Los Angeles County Fire Department, as part of the approval of the Project.

1.11 "**Director**" means the City's Community Development Director, or his or her designee.

1.12 "**Developer**" means IMPERIAL AVALON, LLC, a California limited liability company, and its successors and assigns to all or any part of the Property.

1.13 "**Developer's Vested Right**" means Developer's right to complete the Project in accordance with, and to the full extent permitted under, the Applicable Laws and this Agreement, as more fully set forth in Articles IV-V of this Agreement.

1.14 **"Development"** means the improvement of the Property for the purposes of completing the structures, improvements, and facilities comprising the Project including, but not limited to: grading; the construction of infrastructure related to the Project whether located within or outside the Property; the construction of buildings and structures; and the installation of landscaping and other facilities and improvements necessary or appropriate for the Project, and the maintenance, repair, or reconstruction of any building, structure, improvement, landscaping or facility after the construction and completion thereof.

1.15 **"Development Approvals"** means all Project-specific non-legislative approvals. Development Approvals include, but are not limited to, plans, maps, permits, site plans, design guidelines, variances, conditional use permits, grading, building, and other similar permits, environmental assessments, including environmental impact reports, and any amendments, addenda or modifications to those matters. "Development Approvals" does not include (i) rules, regulations, policies, and other enactments of general application within the City, (ii) legislative enactments, or (iii) any matter where City has reserved authority under Article 5 of this Agreement. Development Approvals are not Land Use Regulations.

1.16 **"Development Plan"** means Developer's plan for completion of the Project in compliance with and to the full extent of the Project Development Approvals and Applicable Laws.

1.17 **"Effective Date"** means the date on which the Adopting Ordinance becomes effective, or thirty (30) days after the second reading of the Adopting Ordinance.

1.18 **"Entitlements"** means this Agreement, and the other Entitlements and approvals listed in Recital G.

1.19 **"Exhibit"** means an exhibit to this Agreement, unless otherwise specifically referenced to a different agreement or document. The following exhibits are incorporated into the Agreement by reference as though set forth in full:

Exhibit A	Legal description of the Property
Exhibit B	Depiction of the Property
Exhibit C	Public Open Space Areas
Exhibit D	Pedestrian Bridge

1.20 **"Existing Land Use Regulations"** means (i) all Land Use Regulations in effect on the Effective Date and (ii) any changes to Land Use Regulations enacted on or after the Approval Date and before the Effective Date for which Developer has provided its written consent to allow those changes to apply to the Project.

1.21 **"Land Use Regulations"** are laws and regulations enacted through legislative actions of the City Council. Land Use Regulations include ordinances, laws, resolutions, codes, rules, regulations, policies, requirements, guidelines or other actions of City, including but not limited to the City's General Plan and the CMC (including the Carson Zoning Ordinance, Chapter 1 of Article IX of the CMC) which affect, govern or apply to the development and use of the Property, including, without limitation, the permitted use of land, the density or intensity of use, subdivision requirements, the maximum height and size of proposed buildings, the

provisions for reservation or dedication of land for public purposes, and the design, improvement, and construction standards and specifications applicable to the Project. "Land Use Regulations" do not include (i) Development Approvals, (ii) regulations relating to the conduct of business, professions, and occupancies generally, (iii) taxes and assessments, (iv) regulations for the control and abatement of nuisances, (v) health and safety regulations, or (vi) any other matter reserved to the City pursuant to Article 5 of this Agreement.

1.22 **"Mortgage"** means a mortgage, deed of trust, or other security instrument encumbering the Property.

1.23 **"Mortgagee"** means a mortgagee of a mortgage, a beneficiary under a deed of trust or any other security device, a lender, or each of their respective successors and assigns.

1.24 **"Project"** as described this Agreement, means the development of the Property consistent with and to the full extent of the Project Development Approvals and all applicable Land Use Regulations.

1.25 **"Project Development Approvals"** means all Development Approvals, inclusive of the Entitlements and all Conditions of Approval. Project Development Approvals include, without limitation, all Development Approvals needed or desired by Developer to complete the Project, provided that those Development Approvals are consistent with Developer's Vested Right, this Agreement, and the City's General Plan and the Carson Zoning Ordinance. The Entitlements (minus this Agreement), as examples of Project Development Approvals, have been or are anticipated to be approved, subject to the Conditions of Approval, prior to or in conjunction with the approval of this Agreement.

1.26 **"Property"** means the real property described in Exhibit "A" and shown in Exhibit "B."

1.27 **"Reservation of Authority"** means the limitations, reservations, and exceptions to Developer's Vested Right set forth in Article 5 of this Agreement.

1.28 **"Subsequent Land Use Regulations"** means those Land Use Regulations which are both adopted and effective on or after the Approval Date and which are not included within the definition of Existing Land Use Regulations.

1.29 **"Subsequent Development Approvals"** means all Development Approvals issued subsequent to the Effective Date in connection with development of the Property, which shall include, without limitation, any changes to the Development Approvals.

1.30 **"Term"** shall have the meaning ascribed to it in Section 2.1, unless earlier terminated as provided in this Agreement.

2. TERM & GENERAL COVENANTS.

2.1 **Term**. The term of this Agreement (the "**Term**") starts on the Effective Date and shall expire 15 years after City's approval of the last of the Entitlements, subject to any early termination provisions described in this Agreement. The Term and expiration date of all

Entitlements and Project Development Approvals shall also be extended to 15 years consistent with the Term of this Agreement.

2.2 Binding Effect of Agreement. From and following the Effective Date, actions by the City and Developer with respect to the development of the Property for completion of the Project, including actions by the City on applications for Subsequent Development Approvals affecting the Property, shall be subject to the terms and provisions of this Agreement.

2.3 Agreement Runs with the Land. This Agreement shall be recorded and shall run with the land. Pursuant to Government Code Section 65868.5, the burdens of this Agreement and each of its provisions shall be binding upon, and the benefits of this Agreement shall inure to, all successors in interest to the Parties, including, but not limited to, all parties that enter into lease agreements with Developer for possession of any part of the Property.

2.4 Covenant Against Discrimination. The Developer covenants that, by and for itself, its heirs, executors, assigns, and all persons claiming under or through them, that there shall be no discrimination against or segregation of, any person or group of persons on account of race, color, creed, religion, sex, marital status, sexual orientation or gender preference, national origin, or ancestry in the performance of this Agreement. The Developer shall take affirmative action to ensure that employees are treated during employment without regard to their race, color, creed, religion, sex, marital status, sexual orientation or gender preference, national origin, or ancestry.

2.5 Construction Timing and Park Closure. Developer covenants that Project construction will not commence until the existing mobilehome park at the Property (i.e., the Park) has been closed and all remaining Park residents or occupants have vacated the Property.

2.6 Park Closure Application and Covenants. Developer further acknowledges that nothing in this Agreement is intended to supersede or negate the benefits committed to Park residents (current or former) approved through the separate Closure Approval or associated covenants or agreements, including the Option C Covenant and the Enhancements, which are unrelated to the Project and this Agreement.

3. DEVELOPER'S OBLIGATIONS AND COMMUNITY BENEFITS.

As consideration for the granting of Developer's Vested Right in accordance with Article 4 below and subject to the City's Reservation of Authority set forth in Article 5 below, Developer shall do all of the following:

3.1 Comprehensive Development Agreement Fee

In lieu of the Developer and the Project opting into Citywide Community Facilities District No. 2018-01 ("CFD") (estimated to have a net present value over the life of this Agreement of approximately fourteen million six hundred fifty-eight thousand three hundred sixty-two dollars ($14,658,362.00) and paying Development Impact Fees pursuant to Ordinance No. 19-1931 (estimated to be approximately thirteen million one hundred twenty-seven thousand fourteen dollars ($13,127,014.00) based on current Project features), Developer shall pay a Development Agreement Fee totaling thirty million fifteen thousand three hundred seventy-six dollars ($30,015,376.00) (the "Development Agreement Fee") (this includes an additional fee of $2,000

per residential unit multiplied by 1,115 units even if fewer units are constructed pursuant to Section 12.5 (equal to two million two hundred thirty thousand dollars ($2,230,000.00)). Developer shall have the right, in its sole and absolute discretion, to pay the Development Agreement Fee as prescribed below or cause the Development Agreement Fee contributions and payments to be made by a nonprofit entity in accordance with the terms prescribed by this Agreement. Except as otherwise provided for the Carson Park and Recreation Subsidy and the Initial DA Fee Payment in Sections 3.1.1-3.1.2, the amounts prescribed below shall be paid either by the Developer or the nonprofit entity at the City's direction toward specific programs, projects or uses within the following categories: (i) park, recreational and open space site acquisition, facility development and maintenance, (ii) City infrastructure improvements, maintenance and upgrades, and (iii) community recreational benefits and subsidies ("Development Agreement Fee Categories"). The Development Agreement Fee payments are limited to the amounts and subject to the schedule set forth below, unless the Developer and City agree to an earlier payment date, and shall be paid directly from the Developer or the nonprofit entity to the City:

3.1.1 Three hundred thousand dollars ($300,000.00) shall be due upon the Effective Date of this Agreement, and shall be used by City to subsidize Carson residents' fees and costs associated with park and recreational registration, trophies and jerseys ("Carson Park and Recreation Subsidy").

3.1.2 Five million dollars ($5,000,000.00) shall be due prior to issuance of a grading permit for the Project ("Initial DA Fee Payment"). The City shall have the option to use the Initial DA Fee Payment in whole or in part for low income housing including but not limited to maintenance and upgrades to, and assistance with the preservation of, existing mobilehome parks located throughout the City.

3.1.3. Five million dollars ($5,000,000.00) shall be due prior to issuance of a building permit for the first Townhome to be constructed within the Project.

3.1.4. Four million dollars ($4,000,000.00) shall be due prior to issuance of a building permit for the first Apartment building to be constructed within the Project, and a second payment of four million dollars ($4,000,000.00) shall be due upon issuance of a building permit for the second Apartment building to be constructed within the Project, and a third payment of four million dollars ($4,000,000.00) shall be due upon issuance of a building permit for the 50th Townhome building to be constructed within the Project.

3.1.5 Five million dollars ($5,000,000.00) shall be due within six months following issuance of a certificate of occupancy for the first Apartment building to be constructed within the Project.

3.1.6. Two million seven hundred fifteen thousand three hundred and seventy-six dollars ($2,715,376.00) shall be due prior to issuance of a building permit for the 150th Townhome to be constructed within the Project.

3.2 Nonprofit Entity

In the event that the payments outlined in Section 3.1 are made by a nonprofit, such nonprofit will be formed pursuant to Internal Revenue Code Section 501(c)(3) and will be authorized to manage and distribute Development Agreement Fee funds for the purposes described

in Section 3.1 ("Nonprofit"). Developer shall provide City with copies of all documents related to the creation and ongoing operation of the Nonprofit, including but not limited to the governing instruments, the application(s) for tax exemption under federal and state law, any exemption approvals, and annual tax forms. City shall not be obligated to review and/or approve any such documents or filings. Developer is solely responsible for the accuracy and timely filing of all such documents and shall obtain its own tax advice.

Developer shall comply with all federal and state laws governing the creation and operation of the Nonprofit. If Developer receives notice from the IRS or State of a suspension or revocation of nonprofit status or any other issue, Developer shall inform City immediately of the notice and the affirmative steps Developer will take to cure any suspension or revocation or other issue.

City does not represent or warrant that the management and distribution of Development Agreement Fee funds by the Nonprofit is authorized by federal or state law. Developer and its successors shall be jointly and severally liable with the Nonprofit for payment of the Development Agreement Fee in accordance with this Agreement. If the Nonprofit fails to make Development Agreement Fee payments, or if the Nonprofit's exempt status is suspended or revoked, Developer shall make the Development Agreement Fee payments prior to the issuance of the permits and certificates described in Section 3.1.

3.3 Affordable Housing Benefit

The City, by its General Plan and state law, is committed to increasing its supply of affordable housing. Prior to the issuance of a certificate of occupancy for the first Apartment building constructed on the Property, the Developer, or a related/affiliated entity approved by the Director and jointly and severally liable with Developer (and subject to Section 3.3.4 below), shall perform one of the following affordable housing public benefit options, the selection of which shall be in its sole and absolute discretion: (i) commit, via execution and recordation on title to the Property of a deed restriction in a form acceptable to the City Attorney, to reserve at least 125 units of lower income housing, including 41 units of Extremely Low Income (<30% of Area Median Income ["**AMI**"]), 41 units of Very Low Income (30-50% AMI), and 43 units of Low Income (51-80% AMI) (all of the foregoing affordable housing categories collectively, "**Lower Income Housing**," or "**LIH**"), onsite within the Project; (ii) commit, via execution and recordation on title to the below-referenced (in this Section and Sections 3.3.1 - 3.3.2) offsite-location of a deed restriction in a form acceptable to the City Attorney, to construct or convert (from existing units) 125 units of new LIH at an off-site location elsewhere in the City, which off-site location is subject to approval of the Director, and which units must be in excess of any affordable housing requirements otherwise required for the project site within which they will be constructed; or (iii) pay an in lieu affordable housing fee equal to $11.61 per square foot of the Project's gross residential floor area for the Apartments and Townhomes. If in any case where the Developer provides only a portion of the 125 Lower Income Housing units referenced above, Developer may satisfy the balance of the affordable housing obligation by paying a proportionately-reduced in lieu fee payment. For example, if Developer provides seventy-five (75) percent of the 125 Lower Income units, then the balance of the affordable housing obligation may be satisfied by paying twenty-five (25) percent of the required in lieu fee payment.

3.3.1 Should Developer or the related/affiliated entity elect to satisfy the affordable housing obligation set forth in Section 3.3(ii) above by constructing or converting 125 units of new

LIH offsite at another Director-approved location within the City ("**Offsite Affordable Units**"), Developer or the affiliated/related entity shall have five years from the Effective Date of this Agreement to either: (i) in the case of construction, obtain a building permit and commence construction within said timeframe, and thereafter diligently pursue the construction to completion as determined by the Director in his reasonable discretion; or (ii) in the case of conversion, fully complete the conversion of the Offsite Affordable Units such that the units are ready and approved for occupancy (with the deed restriction in place as required above). Developer shall not satisfy this obligation by converting any existing housing units that are rented at or below Lower Income Housing levels (i.e., that are already affordable to any household at or below 80% AMI), even if such existing units are not deed restricted. If Developer elects to convert existing units, evidence must be provided to the Director for approval in the form of rent history demonstrating that the existing units to be converted are all above all the Lower Income Housing restricted rent levels at the time of conversion.

3.3.2 For any avoidance of doubt, if Developer or its related/affiliated entity elects to construct the Offsite Affordable Units within "Cell 1" of the District at South Bay Specific Plan area, then the 125 Offsite Affordable Units must be in excess of the current State Surplus Land Act requirement that 25 percent of the total number of units be constructed on that property for affordable housing. Should Developer or the related/affiliated entity elect to provide Section 3.3(ii) OffSite Affordable Units but fail to comply with any of the applicable timing requirements set forth in Section 3.3.1, then Developer or the related/affiliated entity shall, within thirty (30) days of such failure, pay the City the applicable affordable housing in lieu fee set forth in Section 3.3(iii) above.

3.3.3 If the Developer ever fails to pay the in-lieu affordable housing fee within thirty (30) days of it becoming due, whether such fee becomes due pursuant to Section 3.3(iii) or Section 3.3.2, a daily penalty of one thousand dollars ($1,000.00) shall be assessed subject to the notice and cure provisions of Section 7.2 of this Agreement.

3.3.4 The Developer shall remain fully and ultimately responsible to perform any obligation undertaken by a related/affiliated entity pursuant to this Section 3.3.

3.4 Senior and Veteran Housing.

3.4.1. Prior to issuance of a Certificate of Occupancy, the Developer shall prepare, submit to the City for review, and implement a veterans and senior citizen marketing and outreach program for the Project's Apartment units, subject to the prior written approval of the Director, which approval shall not be unreasonably withheld, conditioned or delayed. Developer shall exclusively market the Project's Apartment units to veterans and their families as well as senior citizens (over the age of 55) who currently reside within the City or the general South Bay area for a period of sixty (60) days prior to the units being offered for rent to the general public ("Exclusive Pre-Lease Period"). During this Exclusive Pre-Lease Period, Developer shall make best efforts to lease units to local veterans and their family members and senior citizens provided that all such applicants meet generally applicable leasing qualifications and criteria imposed by Developer. Nothing in this Agreement shall require that any of the Project Apartment units be actually occupied by local veterans or their family members. Further, nothing in this Agreement requires more than 83 of the total 1,115 units to be leased to senior citizens at a given time .

3.4.2. Commencing two years after issuance of a certificate of occupancy for the second Apartment building, Developer shall demonstrate to the City on an annual basis that at least eighty-three (83) of the Project's Apartment units are rented to senior citizens (defined as fifty-five (55) years or older) ("Project Senior Obligation"). The Developer shall demonstrate it is meeting the Project Senior Obligation by providing rental information or other form of occupancy verification confirming that seniors are renting at least 83 of the Project Apartment units. For every unit less than 83 that is not rented to a senior citizen as defined in this Section 3.4.2, Developer shall provide the City a payment equivalent to the average in place amount of an equivalent floorplan market rate unit occupied in the Project ("Project Senior Obligation Payment"). The Project Senior Obligation Payment shall be used for low income and senior housing services throughout the City.

3.5 Apartment and Townhome Enhanced Sustainability and Environmental Benefits. Developer shall agree to incorporate the following enhanced sustainability and environmental benefits into construction of the Apartments and Townhomes for the Project. In recognition of the enhanced environmental benefits provided by the Project Apartments and Townhomes through this Section 3.5, the City shall subject the Project Apartments and Townhomes to the 2019 California Building Standards Code as applicable to and/or adopted by the City pursuant to CMC Article VIII, provided Developer submits a conceptual design package to the City's Building & Safety Department on the City Building & Safety Department's Online Plan check (BSOP) website prior to January 1, 2023. The conceptual design package shall consist of a schematic set of development and design plans for all disciplines with sufficient detail for the City to undertake zoning compliance review, but shall not be required to include landscaping, structural, energy, accessibility, mechanical, electrical and/or plumbing related plans and design, provided it is within the City's legal discretion to deem such submittal complete as necessary to facilitate such grandfathering under applicable state and local law. A full set of construction plans with all disciplines shall be submitted prior to January 1, 2024 for the Apartments and Townhomes. If the Building & Safety plan check application validity period of one year plus the two six-month extension periods thereafter expire prior to issuance of the required permits/approvals (expected to include, without limitation, rough grading approval and building pad/foundation permits), then the plans will expire and will be required to meet the code in effect at the time of such expiration, and new plan check fees will be required.

a. **Photovoltaic Panels.** Developer shall incorporate approximately 35,000 square feet (total) photovoltaic panels located on the rooftop of the Project parking structure for the Apartments and shall provide conduit and wiring for an additional twenty thousand (20,000) square feet of Apartment building rooftop to accommodate potential future solar panel installation.

b. **Enhanced Electric Vehicle Charging Stations ("EVCS").** Developer shall equip a total of fifty percent (50%) of the Project parking spaces with an EVCS benefit, as follows: (a) fifteen percent (15%) of the total Project parking spaces shall be full EVCS, with EV chargers installed; and (b) thirty-five percent (35%) of the total Project parking spaces shall have conduit and wiring to allow for future EVCS installation. The electrical panel for all buildings shall be designed such that it can accommodate full EVCS for 50% of parking spaces for the Project. EVCS spaces shall be assigned and managed in accordance with the parking management plan required per the Conditions of Approval, which may require the Developer to convert the EVCS parking spaces that are initially only provided with conduit and wiring into full EVCS parking spaces (with chargers installed) incrementally over time based on tenant need.

All Townhomes shall have 240 volt NEMA 14-50 installed in the garage. All Townhomes shall be have conduit and wiring for future solar installations.

c. **Mechanical Dwelling Unit System Efficiency Benefit.** The Project provides a mechanical dwelling unit system with a Seasonal Energy Efficiency Ratio ("SEER") of 15.

d. **Lighting Occupancy Sensors and Fenestration Energy Efficiency.** Notwithstanding any other provision of this Section 3.5, the Project shall: (i) provide state of the art occupancy sensors consistent with the California Energy Code in place at the time the time of Project permitting; and (ii) purchase and install windows and exterior façade materials consistent with the California Energy Code requirements in place at the time of Project permitting.

3.6. Publicly Accessible, Privately Maintained Open Space. Developer shall make the Project open space areas identified on Exhibit C attached to this Agreement ("**Public Open Space Areas**"), which total approximately 111,581 square feet, accessible to the public during the hours of 7:00 a.m. to 7:00 p.m. Developer shall be fully responsible for all maintenance, care and upkeep of the Public Open Space Areas through the life of the Project; this obligation shall survive any termination or expiration of this Agreement.

3.7. Publicly Accessible Pedestrian Bridge. Developer shall work with the City to design, construct and maintain a pedestrian bridge at Developer's sole cost and conceptually identified on Exhibit D attached to this Agreement, subject to City Engineer approval, to allow for pedestrian and bicycle access over the Torrance Lateral Flood Control Channel (BI 1232–Line A) from the Project site to the District at South Bay Specific Plan area. Developer shall also be responsible to pay for any permits, air rights, and all other costs associated with delivering a functional and complete bridge. All applicable codes including but not limited to building and fire codes shall be adhered to. The pedestrian bridge shall be accessible to the public at all times. Construction of the pedestrian bridge is contingent upon the Parties' ability to obtain all necessary approvals, easements, rights, and permits from any Federal, State or local governmental agency with permitting or approval authority over the pedestrian bridge, including but not limited to the Los Angeles County Flood Control District and the United States Army Corps of Engineers. Developer shall make, and shall demonstrate to the Director upon request, reasonable best efforts to obtain the required approvals and permits and to construct the pedestrian bridge prior to issuance of the first building permit for the Project, or within five years of the Effective Date of this Agreement, whichever is later. If, by such time, the Parties have made substantial progress toward securing the necessary approvals and permits or with construction of the bridge, as determined by the Director, then the Director may grant extensions of time as may be necessary to allow for completion of securing the necessary approvals and permits and/or completion of construction of the bridge, provided Director determines for each extension that Developer has been diligently pursuing securing the necessary permits and approvals and completion of construction without delay and is continuing to make substantial progress. If the Parties are unable to obtain all necessary approvals and permits in order to construct the pedestrian bridge or fail to complete construction of the bridge timely in accordance with this provision, then the Developer (or its nonprofit entity described in Section 3.1, subject to the requirements of Section 3.2), prior to issuance of the first building permit for the Project, or within five years of the Effective Date of this Agreement, whichever is later, constructed as part of the Project, shall make a cash

contribution of four million dollars ($4,000,000) to City, to be used for the purpose of providing an enhanced art walk leading from the Project site to the District at South Bay Specific Plan and/or other making other pedestrian improvements in the vicinity of the Project site as determined by the City. This sum shall be additional to the Development Agreement Fee. If the Developer ever fails to pay the $4,000,000 within thirty (30) days of it becoming due, then subject to the notice and cure provisions of Section 7.2 of this Agreement, liquidated damages in the amount of one thousand dollars ($1,000.00) per day that any portion of the payment is outstanding shall be assessed, as the Parties agree that is such event the determination of actual damages for the delay in performance of this obligation would be extremely difficult or impractical to determine. The Developer shall be responsible to reimburse the City for all costs of the maintenance, care, and upkeep of the pedestrian bridge through the life of the Project; this obligation shall survive any termination or expiration of this Agreement.

3.8 Restaurant and Kitchen Timing. Developer agrees that the restaurant space to be included in the Project's approximately 10,000 square feet (including outdoor/patio space) of ground floor commercial area must include a fully built out kitchen prior to issuance of a certificate of occupancy for the last residential building constructed within the Project.

3.9 Art Benefit. Prior to issuance of the first building permit for the Townhomes and prior to issuance of building permits for each of the two Apartment buildings, the Developer shall pay a public art fee equal to one percent (1%) of the total building valuation for all Townhomes and each of the two Apartment buildings (i.e., all Project buildings) as determined by the City's Building Official in accordance with the Marshall-Swift Valuation Guide per the City Building Official's standard practice ("**Project Art Fee**").

In lieu of paying the Project Art Fee, Developer may incorporate on-site art, including but not limited to art within the exterior north side of the Project facing the 405 freeway, to the satisfaction of the Director, in which case Developer shall submit a Project art plan, valuation, and implementation plan to the Director prior to issuance of the first Project building permit. Unless otherwise approved by the Director pursuant to the art implementation plan, Developer's on-site art which corresponds to a particular building shall be installed prior to issuance of a certificate of occupancy for the corresponding building, and art that does not correspond to any particular building shall be installed within six months following issuance of the certificate of occupancy for the first Apartment building constructed as part of the Project. Individual art valuations shall be submitted for each Project building prior to issuance of building permits for the respective buildings. Should the value of Developer's onsite art be less than one percent (1%) of the total building valuation for the entire Project as described above, then Developer shall pay the City the difference in its entirety prior to issuance of the certificate of occupancy for the 150th Townhome constructed as part of the Project.

3.10 Traffic Signal. Developer shall fund and install a new traffic signal at the Project entry location on Avalon Boulevard between the I-405 interchange and 213th Street, in accordance with plans approved by the City's Director of Public Works or his or her designee, which shall include approval of the projected costs. Developer will be eligible for reimbursement of up to 50% of the approved costs of the new traffic signal by City upon completion of the comprehensive redevelopment of the Kott site (located to the east of the Property, north of E. 213th St. and east of Avalon Blvd. to the I-405 freeway). Developer shall submit plans for the traffic signal with an

estimate of the cost prior to issuance of the first building permit issued for the Project and shall complete installation prior to issuance of the first Project certificate of occupancy.

3.11 Carson and Avalon 405 Interchange Landscaping Improvement. Prior to issuance of the certificate of occupancy for the second Apartment building or any Townhome, Developer or Developer's Nonprofit identified in Section 3.2 shall provide up to one million dollars ($1,000,000.00) in matching funds ("Matching Funds") for landscaping upgrades and improvements for the I-405 interchange at Carson Street and Avalon Boulevard ("I-405 Interchange Upgrades"). Prior to receiving the Matching Funds, the City must provide Developer a concept plan detailing how the I-405 Interchange Upgrades will be implemented, a budget and evidence that the City is in possession dedicated funds equal or greater than the Matching Funds.

3.12 **Purple Pipe.** Developer shall install recycled water purple pipe onsite and shall coordinate the tie-in of the onsite recycled water purple pipe infrastructure for future connections to offsite purple pipe infrastructure extensions as such connections become available. Notwithstanding any other provision of this Agreement, this Section 3.12 shall supersede and prevail over the Condition of Approval of VTTM No. 83157 pertaining to purple pipe to the extent of a conflict.

4. DEVELOPMENT OF THE PROPERTY.

4.1 Scope of Developer's Vested Right. Subject to the Reservation of Authority set forth in Article 5, Developer shall have the vested right to develop the Project in accordance with and to the full extent permitted under the Applicable Laws and this Agreement ("**Developer's Vested Right**").

4.2 Effect of Agreement on Land Use Regulations. Except as otherwise provided under the terms of this Agreement, the rules, regulations and official policies governing permitted uses of the Property, the density and intensity of use of the Property, the maximum height and size of proposed buildings, and the design, improvement and construction standards and specifications applicable to the Development of the Property, shall be as set forth in the Existing Land Use Regulations which were in full force and effect as of the Effective Date of this Agreement, subject to the terms of this Agreement.

4.3 Rights under State and Federal Law. Developer shall retain all rights it has under state and federal law, including, but not limited to, Developer's rights under Government Code Section 65865.2, which provides that subsequent discretionary actions shall not prevent development of the Property for the uses and to the density or intensity of development set forth in the Project Development Approvals.

4.4 Apportionment. Developer shall have the right to apportion the uses, intensities, and densities of the Project between itself and any subsequent owners, upon the sale, transfer, or assignment of all or any portion of the Property, so long as such apportionment is consistent with the Applicable Laws and this Agreement.

4.5 Lesser Development. Except as otherwise provided in this Agreement: without amending this Agreement, Developer shall have the right to elect to develop and construct upon all or any portion of the Property a Project of lesser height or building size than

that permitted by the Project Development Approvals provided that the Project otherwise complies with the Project Development Approvals and this Agreement.

4.6 Project Development Approvals; Subsequent Development Approvals. The Project Development Approvals for the Project may require the processing of Subsequent Development Approvals. Subject to the provisions of Section 4.7 below, the City shall accept for processing, review and action all applications for Subsequent Development Approvals, and such applications shall be processed in the normal manner for processing such matters in accordance with the Existing Land Use Regulations. The parties acknowledge that subject to the Existing Land Use Regulations, under no circumstances shall City be obligated in any manner to approve any Subsequent Development Approval, or to approve any Subsequent Development Approval with or without any particular condition. However, unless otherwise requested by Developer, City shall not, without good cause, amend or rescind any Subsequent Development Approvals respecting the Property after such approvals have been granted by the City. Processing of Subsequent Development Approvals or changes in the Project Development Approvals made pursuant to Developer's application shall not require an amendment to this Agreement. This Agreement shall not prevent City from denying or conditionally approving any application for a Subsequent Development Approval on the basis of the Existing Land Use Regulations.

4.7 Role of Project Development Approvals. Except as provided within this Agreement, the Project Development Approvals shall exclusively control the uses of the Property, the density or intensity of use, the maximum height and size of proposed buildings, the provisions for reservation or dedication of land for public purposes and the design, improvement, and construction standards and specifications applicable to the Project. Pursuant to Government Code Section 66452.6, the term of any tentative map for the Property or any portion thereof, if any, filed within the term of this Agreement shall automatically be extended for the term of this Agreement, as amended by the Project Development Approvals. In addition, Developer shall have the right to commence Project construction of both Apartment buildings within the Project prior to the recordation of an approved final subdivision map No. 83157. However, the approved final subdivision map must be recorded prior to occurrence of either of the following: (i) issuance of any building permits for the Townhomes; (ii) issuance of a certificate of occupancy for either of the Apartment buildings. Neither the Apartment lots nor the Apartment buildings may be individually sold prior recordation of the approved final subdivision map No. 83157. Any tentative map prepared for the Project subdivision will comply with Government Code Section 66473.7.

4.8 Moratorium. Notwithstanding any other provision of this Agreement, no future amendment of any existing City ordinance or resolution or any subsequent ordinance, resolution or moratorium, enacted either by the City Council or by voter approved initiative, that purports to impose or result in a limitation on the Project, imposed by City, shall apply to govern, or regulate the Project or development or use of the Property during the Term. In the event of any such subsequent action by City, Developer shall continue to be entitled to apply for and receive Development Approvals in accordance with the Existing Land Use Regulations, subject only to the exercise of the City's Reservation of Authority set forth herein.

4.9 Maintaining Property. The Property must at all times be maintained and generally kept in a clean condition, in accordance with the CMC and the City's code enforcement regulations.

5. CITY'S RESERVATION OF AUTHORITY.

Notwithstanding Developer's Vested Right, the Project is subject to the following Subsequent Land Use Regulations:

5.1 City's Discretion Under Applicable Laws. In considering future applications, if any, for a Subsequent Development Approval, the City may exercise its regulatory discretion to the extent permitted by the Applicable Laws.

5.2 Uniform Codes. Changes adopted by the International Conference of Building Officials, or other similar body, as part of the then most current versions of the Uniform Building Code, Uniform Fire Code, Uniform Plumbing Code, Uniform Mechanical Code, or National Electrical Code, or other such Uniform Codes, and also adopted by City as Subsequent Land Use Regulations, but only if: (i) the Project is not subjected to the 2019 codes pursuant to Section 3.5 of this Agreement; and (ii) such changes are applicable City-wide.

5.3 Emergencies. Emergency rules, regulations, laws, and ordinances within the City's police power that would limit the exercise of Developer's Vested Right ("**Conflicting Emergency Regulations**"), provided that the Conflicting Emergency Regulations:

a. Result from a sudden, unexpected emergency declared by the President of the United States, Governor of California, County Board of Supervisors and applicable to incorporated areas, including the City, or the City Council;

b. Address a clear and imminent danger, with no effective reasonable alternative available that would have a lesser adverse effect on Developer's Vested Right;

c. Do not primarily or disproportionately impact the development of the Project; and

d. Are based upon findings of necessity established by a preponderance of the evidence at a public hearing.

5.4 Laws of Other Jurisdictions. Other public agencies not subject to control by City may possess authority to regulate aspects of the Project. This Agreement does not limit the authority of such other public agencies. Therefore:

a. Federal, state, county, and multi-jurisdictional laws and regulations (the "**Additional Regulations**"), including regional impact fees, which City is required to enforce against the Property or the Project, except if the Additional Regulations are for the purpose of mitigating a significant or potentially significant impact that has already been mitigated pursuant to the Project's EIR.

b. If an Additional Regulation is enacted after the Effective Date and prevents or precludes compliance with one or more of the provisions of this Agreement, those provisions shall be modified or suspended as may be necessary to comply with the Additional Regulation. In that event, this

Agreement shall remain in full force and effect to the extent it is not inconsistent with the Additional Regulation and to the extent that the suspension or modification necessitated by the Additional Regulation does not deny one of the Parties its primary benefits under this Agreement.

c. Developer shall apply in a timely manner for such other permits and approvals that are lawfully required by other governmental or quasi-governmental agencies in order to allow the Project to be constructed. City shall provide Developer reasonable cooperation in Developer's efforts to obtain such permits and approvals. The Parties shall cooperate and use reasonable efforts in coordinating the implementation of the Development with other public agencies, if any, having jurisdiction over the Property or the Project.

5.5 Modification or Suspension by Federal or State Laws. In the event that Federal or State laws or regulations, enacted after the Effective Date of this Agreement, prevent or preclude compliance with one or more of the provisions of this Agreement, such provisions of this Agreement shall be modified or suspended as may be necessary to comply with such Federal or State laws or regulations, and this Agreement shall remain in full force and effect to the extent it is not inconsistent with such laws or regulations and to the extent such laws or regulations do not render such remaining provision impractical to enforce.

5.6 Employment Outreach for Local Residents. A goal of the City with respect to this Project and other major projects within the City is to foster employment opportunities for Carson residents. To that end, Developer covenants that with respect to the construction, operation and maintenance of the Project, the Developer shall make reasonable efforts to cause all solicitations for full or part-time, new or replacement, employment relating to the construction, operation and maintenance of the Project to be advertised in such a manner as to target local City residents and shall make other reasonable efforts at local employment outreach as the City shall approve. Developer shall also notify the City of jobs available at the Project such that the City may inform City residents of job availability at the Project. Developer will inform its purchasers and lessees of the provisions of these requirements. Nothing in this paragraph shall require Developer to offer employment to individuals who are not otherwise qualified for such employment. Without limiting the generality of the foregoing, the provisions of this Section 5.6 are not intended, and shall not be construed, to benefit or be enforceable by any person whatsoever other than City.

5.7 Prevailing Wages. Developer's cost of developing the Project and constructing all of the on-site and off-site improvements, if any, at or about the Property required to be constructed for the Project shall be borne by Developer. Developer is aware of the laws of the State governing the payment of prevailing wages on public projects and will comply with same and will defend, hold harmless, and indemnify City in the event Developer fails to do so. As the City is not providing any direct or indirect financial assistance to Developer, the Project should not be considered to be a "public work" "paid for in whole or in part out of public funds," as described in California Labor Code Section 1720. Accordingly, it is believed by the parties that Developer is not required to pay prevailing wages in connection with any aspect of the Development or the construction of the Project. However, to the extent that (contrary to the parties' intent) it is determined that Developer was required to pay prevailing wage and has not

paid prevailing wages for any portion of the Project, Developer shall defend, indemnify, and hold the City (which, for purposes of this section, shall include its related agencies, officers, employees, agents and assigns) harmless from and against any and all increase in construction costs, or other liability, loss, damage, costs, or expenses (including reasonable attorneys' fees and court costs) arising from or as a result of any action or determination that Developer failed to pay prevailing wages in connection with the construction of the Project. City shall reasonably cooperate with Developer regarding any action by Developer hereunder challenging any determination that the Project is subject to the payment of prevailing wages. Notwithstanding the foregoing, the City retains the right to settle or abandon the matter without Developer's consent as to the City's liabilities or rights only, but should it do so, City shall waive the indemnification herein provided such waiver occurs prior to the issuance of any judgment in the matter.

5.8 Fees, Taxes, and Assessments.

a. **Processing Fees.** The Developer shall pay all processing fees and charges of every kind and nature imposed by City to cover the estimated actual costs to City of processing applications for Project Development Approvals, including but not limited to, City Attorney fees incurred by City for the review, preparation and negotiation of the Entitlements, inclusive of this Agreement, at a rate of $495 per hour for partners and $395 per hour for associates, and for monitoring compliance with any Project Development Approvals granted or issued, in accordance with the Reimbursement and Indemnification Agreement entered into by and between the Parties effective December 16, 2019, and as amended and restated pursuant to the First Amended Reimbursement and Indemnification Agreement entered into by and between the Parties effective June 1, 2022, and as the same may be amended from time to time by mutual agreement of the Parties.

b. **Permit Fees.** Except as expressly provided in this Agreement, Developer shall pay all standard permit fees and other fees and charges which are standard and uniformly-applied to similar projects in the City.

c. **Master Community Facilities District.** On November 7, 2018, the City formed a Master CFD entitled City of Carson Community Facilities District No. 2018-01 (Maintenance and Services) (the "**Master CFD**") for the purpose of funding the maintenance of public infrastructure within the area of the Master CFD which is within the City's jurisdictional boundaries (the "**Services**"). In light of the substantial Developer contributions towards infrastructure, parks and other public benefits as set forth in Article 3 of this Agreement secured through payment of the Development Agreement Fee, it is understood that the City will not annex the Property or the Project into the Master CFD for the life of the Project. This provision shall survive the Term of the Agreement.

d. **Development Impact Fee.** In light of the substantial Developer contributions towards infrastructure, parks and other public benefits as set forth in Article 3 of this Agreement secured through payment of the

Development Agreement Fee, it is understood that the City will not assess Development Impact Fees pursuant to Ordinance No. 19-1931. Accordingly, the Parties understand, acknowledge and agree that no credits or reimbursements will be available to Developer pursuant to Ordinance No. 19-1931 or any provision of the CMC (as may be amended) to offset, reduce or refund any portion of the Development Agreement Fee.

e. **General Charges**. Nothing herein shall prohibit the application of the following, if lawfully imposed upon the Property, excluding any existing or future CFD:

(i) Additional Taxes, Fee, and Charges. Developer, or Developer's Project occupants, shall pay all normal and customary taxes, fees, and charges applicable to all permits necessary for the Project, and any taxes, fees, and charges hereafter imposed by City, which are standard and uniformly-applied to similar properties in the City.

(ii) Developer , or Developer's Project occupants, shall be obligated to pay any fees or taxes, and increases thereof, imposed on a City-wide basis such as business license fees or taxes, sales or use taxes, transient occupancy taxes, utility taxes, and public safety taxes;

(iii) Developer, or Developer's Project occupants, shall be obligated to pay any fees imposed pursuant to any Uniform Code.

(iv) Developer, or Developer's Project occupants, shall be obligated to pay any utility fees and charges, including amended rates thereof, for City services such as electrical utility charges, water rates, and sewer rates.

5.9 Inconsistencies. It is expressly agreed that in the event of any inconsistency between the provisions or conditions of the Existing Land Use Regulations or Conditions of Approval and the provisions of this Agreement, the provisions of this Agreement shall govern. The conditions of such Existing Land Use Regulations and Conditions of Approval shall be interpreted insofar as possible to prevent such inconsistency, and in the event this Agreement is silent concerning an issue, the conditions of the Existing Land Use Regulations and Conditions of Approval shall govern. As between several instruments and regulations governing the Project, in the event of a clear and explicit conflict which cannot be resolved through interpretation, the following interpretive priorities shall apply: (i) the terms of this Agreement shall prevail over the provisions of the Existing Land Use Regulations and Project Development Approvals except where the Conditions of Approval are more restrictive, in which event the Conditions of Approval shall prevail; (ii) the terms of the Project Development Approvals shall prevail over the terms of the Existing Land Use Regulations, except where such Existing Land Use Regulations are legally preemptive; and (iii) the terms of the Project Development Approvals shall take priority over the provisions of the CEQA instruments and EIR approved in conjunction with the Project, except where the EIR is legally preemptive.

6. ANNUAL REVIEW.

6.1 Timing of Annual Review. Pursuant to Government Code Section 65865.1, at least once during every twelve (12) month period of the Term, City shall review the good faith compliance of Developer with the terms of this Agreement ("**Annual Review**"). No failure on the part of City to conduct or complete an Annual Review as provided herein shall have any impact on the validity of this Agreement, nor shall it be deemed a breach on the part of Developer. The cost of the Annual Review shall be borne by Developer and Developer shall pay the actual and reasonable costs incurred by the City for such review.

6.2 Special Review. The City Council may, in its sole and absolute discretion, order a special review of compliance with this Agreement at any time at City's sole cost ("**Special Review**"). Developer shall cooperate with the City in the conduct of such Special Reviews.

6.3 Standards for Annual Review. During the Annual Review, Developer shall demonstrate good faith compliance with the terms of this Agreement. "**Good faith compliance**" shall be established if Developer is in substantial compliance with the material terms and conditions of this Agreement.

6.4 Procedure. Each party shall have a reasonable opportunity to assert matters which it believes have not been undertaken in accordance with the Agreement, to explain the basis for such assertion, and to receive from the other party a justification of its position on such matters. The procedure for an Annual Review or Special Review shall be as follows:

a. As part of either an Annual Review or Special Review, within ten (10) days of a request for information by the City, the Developer shall deliver to the City all information and supporting documents reasonably requested by City (i) regarding the Developer's performance under this Agreement demonstrating that the Developer has complied in good faith with the terms of this Agreement, and (ii) as required by the Existing Land Use Regulations.

b. The City Manager, or his/her designee, shall prepare and submit to Developer a written report on the performance of this Agreement and identify any perceived deficiencies in Developer's performance of this Agreement. The Developer may submit written responses to the report and Developer's written response shall be included in the City Manager's report. If the City Manager determines that the Developer has substantially complied with the terms and conditions of this Agreement, the Annual or Special Review shall be concluded.

c. If any deficiencies are noted, or if requested by a Councilmember, a public hearing shall be held before the City Council at which the Council will review the City Manager's report. The report to Council shall be made at a regularly-scheduled City Council meeting occurring as soon as possible, subject to the requirements of the Brown Act, after the commencement of the Annual or Special Review process outlined in this Section 6.4. If the City Council finds and determines, based on substantial evidence, that the

Developer has not substantially complied with the terms and conditions of this Agreement for the period under review, the City may declare a default by the Developer in accordance with Article 7.

d. Neither party hereto shall be deemed in breach if the reason for non-compliance is due to a "force majeure" as defined in, and subject to the provisions of, Section 13.11.

6.5 Certificate of Agreement Compliance. If, at the conclusion of an Annual Review or a Special Review, Developer is found to be in compliance with this Agreement, City shall, upon written request by Developer, issue a Certificate of Agreement Compliance ("**Certificate**") to Developer stating that after the most recent Annual Review or Special Review and based upon the information known or made known to the City Manager, Planning Commission, and City Council that (i) this Agreement remains in effect and (ii) Developer is in compliance. The Certificate, whether issued after an Annual Review or Special Review, shall be in recordable form, shall contain information necessary to communicate constructive record notice of the finding of compliance. Developer shall at its cost record the Certificate with the County Recorder. Additionally, Developer may at any time request from the City a Certificate stating, in addition to the foregoing, which obligations under this Agreement have been fully satisfied with respect to the Property, or any lot or parcel within the Property.

6.6 Review Process Not a Prerequisite to Declaring a Default. Neither the Annual Review nor Special Review procedure is a prerequisite to either party declaring a default and initiating the default and cure procedure in Article 7. In other words, either party may declare a default at any time without first undertaking the Annual Review or Special Review process.

6.7 Public Hearings. The public hearing prescribed by Section 6.4 is independent of, and in addition to, any further hearing procedures relating to defaults and remedies prescribed in Article 7 below. Thus, if the City Council finds that the Developer has not substantially complied with the terms and conditions of this Agreement as part of a review process pursuant to Section 6.4 and determines to declare a default, the City Council is still required to follow the notice/cure process (Section 7.2) and the termination hearing process (Section 7.4) before terminating this Agreement.

7. DEFAULTS AND REMEDIES.

7.1 Remedies Available. The parties acknowledge and agree that other than the termination of this Agreement pursuant to Article 7, specific performance, injunctive and declaratory relief are the only remedies available for the enforcement of this Agreement and knowingly, intelligently, and willingly waive any and all other remedies otherwise available in law or equity. Accordingly, and not by way of limitation, and except as otherwise provided in this Agreement, Developer shall not be entitled to any money damages from City by reason of any default under this Agreement. Further, Developer shall not bring an action against City nor obtain any judgment for damages for a regulatory taking, inverse condemnation, unreasonable exactions, reduction in value of property, delay in undertaking any action, or asserting any other liability for any matter or for any cause which existed or which the Developer knew of or should have known of prior to the time of entering into this Agreement, Developer's sole remedies being as specifically provided above. Developer acknowledges that such remedies are adequate to

protect Developer's interest hereunder and the waiver made herein is made in consideration of the obligations assumed by the City hereunder.

7.2 Declaration of Default & Opportunity to Cure.

a. Rights of Non-Defaulting Party after Default. The parties acknowledge that both parties shall have hereunder all legal and equitable remedies as provided by law following the occurrence of a default or to enforce any covenant or agreement herein except as provided in Section 7.1. Before this Agreement may be terminated or action may be taken to obtain judicial relief the party seeking relief ("**Non-Defaulting Party**") shall comply with the notice and cure provisions of this Section 7.2.

b. Notice and Opportunity to Cure. A Non-Defaulting Party in its discretion may elect to declare a default under this Agreement in accordance with the procedures hereinafter set forth for any failure or breach of the other party ("**Defaulting Party**") to perform any material duty or obligation of the Defaulting Party under the terms of this Agreement. However, the Non-Defaulting Party must provide written notice to the Defaulting Party setting forth the nature of the breach or failure and the actions, if any, required by the Defaulting Party to cure such breach or failure (the "**Default Notice**"). The Defaulting Party shall be deemed in Default under this Agreement, if the breach or failure can be cured, but the Defaulting Party has failed to take such actions and cure such default within thirty (30) days after the date of such notice or ten (10) days for monetary defaults (or such lesser time as may be specifically provided in this Agreement). However, if such non-monetary Default cannot be cured within such thirty (30) day period, and if and, as long as the Defaulting Party does each of the following:

(i) Notifies the Non-Defaulting Party in writing with a reasonable explanation as to the reasons the asserted default is not curable within the thirty (30) day period;

(ii) Notifies the Non-Defaulting Party of the Defaulting Party's proposed cause of action to cure the default;

(iii) Promptly commences to cure the default within the thirty (30) day period;

(iv) Makes periodic reports to the Non-Defaulting Party as to the progress of the program of cure; and

(v) Diligently prosecutes such cure to completion.

Then the Defaulting Party shall not be deemed in breach of this Agreement.

7.3 Termination Notice. Upon receiving a Default Notice, should the Defaulting Party fail to timely cure any default, or fail to diligently pursue such cure as prescribed above, the Non-Defaulting Party may seek termination of this Agreement, in which case the Non-

Defaulting Party shall provide the Defaulting Party with a written notice of intent to terminate this Agreement ("**Termination Notice**"). The Termination Notice shall state that the Non-Defaulting Party will elect to terminate this Agreement within thirty (30) days and state the reasons therefor (including a copy of any specific charges of default or a copy of the Default Notice) and a description of the evidence upon which the decision to terminate is based. Once the Termination Notice has been issued, the Non-Defaulting Party's election to terminate this Agreement will only be rescinded if so determined by the City Council pursuant to Section 7.4.

7.4 Hearing Opportunity Prior to Termination. If Developer is the Defaulting Party pursuant to Section 7.3, then the City's Termination Notice to Developer shall additionally specify that Developer has the right to a hearing prior to the City's termination of any Agreements ("**Termination Hearing**"). The Termination Hearing shall be scheduled as an open public hearing item at a regularly-scheduled City Council meeting within thirty (30) days of the Termination Notice, subject to any legal requirements including but not limited to the Ralph M. Brown Act, Government Code Sections 54950-54963. At said Termination Hearing, Developer shall have the right to present evidence to demonstrate that it is not in default and to rebut any evidence presented in favor of termination. Based upon substantial evidence presented at the Termination Hearing, the Council may, by adopted resolution, act as follows:

a. Decide to terminate this Agreement; or

b. Determine that Developer is innocent of a default and, accordingly, dismiss the Termination Notice and any charges of default; or

c. Impose conditions on a finding of default and a time for cure, such that Developer's fulfillment of said conditions will waive or cure any default.

Findings of a default or a conditional default must be based upon substantial evidence supporting the following two findings: (i) that a default in fact occurred and has continued to exist without timely cure, and (ii) that such default has caused or will cause a material breach of this Agreement and/or a substantial negative impact upon public health, safety and welfare, the environment, or such other interests that the City and public may have in the Project.

7.5 Rights and Duties Following Termination. Upon the termination of this Agreement, no party shall have any further right or obligation hereunder except with respect to (i) any obligations to have been performed prior to said termination, (ii) any default in the performance of the provisions of this Agreement which has occurred prior to said termination, or (iii) the indemnification provisions of Article 8. Termination of this Agreement pursuant to this Section 7 shall automatically terminate the Project Development Approvals.

7.6 Waiver of Breach. By not challenging any Development Approval within ninety (90) days of the action of City enacting the same, Developer shall be deemed to have waived any claim that any condition of approval is improper or that the action, as approved, constitutes a breach of the provisions of this Agreement.

7.7 Interest on Monetary Default. In the event Developer fails to perform any monetary obligation under this Agreement, Developer shall pay interest thereon at the rate of six

and one-half percent (6.5%) per annum from and after the due date of said monetary obligation until payment is actually received by City.

8. THIRD PARTY LITIGATION.

8.1 Indemnity Obligations on Third-Party Claims

a. Developer hereby agrees to indemnify, defend, and hold City, its officers, agents, employees, members of its City Council and any commission, partners and representatives ("**City Indemnitees**") harmless from any and all claims, actions, suits, damages, liabilities, and any other actions or proceedings (whether legal, equitable, declaratory, administrative, or adjudicatory in nature) (collectively, "**Claims**"), asserted against City or City Indemnitees arising out of or in connection with this Agreement, including, without limitation, (i) City's approval of this Agreement and all documents related to any of the Project Development Approvals, Conditions of Approval, permits, or other entitlements for the Project and issues related thereto (including, without limitation, City's determinations regarding CEQA compliance and/or any other development incentives granted to the Project), (ii) the development of the Project, (iii) liability for damage or claims for damage for personal injury including death and claims for property damage which may arise from, or are attributable to, Developer's (or Developer's contractors, subcontractors, agents, employees or other persons acting on Developer's behalf ("**Developer's Representatives**")) performance of its obligations under this Agreement and/or the negligence or misconduct of Developer or of Developer's Representatives which relate to the Project or the Property, and (iv) Developer's failure to comply with any applicable federal, state or local law, rule, or regulation, including, but not limited to, those relating to industrial hygiene or to environmental conditions on, under or about the Property, such as (without limitation) soil and groundwater conditions.

b. The City shall provide the Developer with notice of the pendency of such Claims within ten (10) days of being served or otherwise notified of such Claims and shall request that the Developer defend such action. The Developer may utilize the City Attorney's office or use legal counsel of its choosing, but shall reimburse the City for any necessary legal cost incurred by City. In all cases, City shall have the right to utilize the City Attorney's office in any legal action. The Developer shall provide a deposit in the amount of 100% of the City's estimate, in its sole and absolute discretion, of the cost of litigation, including the cost of any award of attorney's fees. If the Developer fails to provide the deposit, and after compliance with the provisions of this Section 8.1, the City may abandon the action and the Developer shall pay all costs resulting therefrom and City shall have no liability to the Developer. The Developer's obligation to pay the cost of the action, including judgment, shall extend until judgment. After judgment in a trial court, the parties must mutually agree as to whether any appeal will be taken or defended. City agrees that it shall fully cooperate with the

Developer in the defense of any matter in which the Developer is defending and/or holding the City harmless.

8.2 Hold Harmless: Developer's Construction, and Other Activities. The Developer shall defend, save and hold the City and its elected and appointed boards, commissions, officers, agents, and employees harmless from any and all claims, costs (including attorneys' fees) and liability for any damages, personal injury or death, which may arise, directly or indirectly, from the Developer's or the Developer's agents, contractors, subcontractors, agents, or employees' Project construction activities and operations under this Agreement, whether such Project construction activities and operations be by the Developer or by any of the Developer's agents, contractors or subcontractors or by any one or more persons directly or indirectly employed by or acting as agent for the Developer or any of the Developer's agents, contractors or subcontractors. Nothing herein shall be construed to mean that the Developer shall hold the City harmless and/or defend it from any claims arising from, or alleged to arise from, the sole negligence or gross or willful misconduct of the City's officers, employees, agents, contractors of subcontractors.

8.3 Loss and Damage. City shall not be liable for any damage to property of Developer or of others located on the Property, nor for the loss of or damage to any property of Developer or of others by theft or otherwise. City shall not be liable for any injury or damage to persons or property resulting from fire, explosion, steam, gas, electricity, water, rain, dampness or leaks from any part of the Property or from the pipes or plumbing, or from the street, or from any environmental or soil contamination or hazard, or from any other latent or patent defect in the soil, subsurface or physical condition of the Property, or by any other cause of whatsoever nature. Nothing herein shall be construed to mean that the Developer shall bear liability for the sole negligence or gross or willful misconduct of the City's officers, employees, agents, contractors or subcontractors.

8.4 Non-liability of City Officers and Employees. No official, agent, contractor, or employee of the City shall be personally liable to the Developer, or any successor in interest, in the event of any default or breach by the City or for any amount which may become due to the Developer or to its successor, or for breach of any obligation of the terms of this Agreement.

8.5 Conflict of Interest. No officer or employee of the City shall have any financial interest, direct or indirect, in this Agreement nor shall any such officer or employee participate in any decision relating to this Agreement which affects the financial interest of any corporation, partnership or association in which he or she is, directly or indirectly, interested, in violation of any state statute or regulation.

8.6 Survival of Indemnity Obligations. All indemnity provisions set forth in this Agreement shall survive expiration or sooner termination of this Agreement for any reason other than a default by City.

9. INSURANCE.

9.1 Types of Insurance.

a. **Public Liability Insurance.** Prior to commencement and until completion of construction of improvements by Developer on the Property, Developer

shall, at its sole cost and expense, keep or cause to be kept in force, for the mutual benefit of City and Developer, comprehensive broad form general public liability insurance against claims and liability for personal injury or death arising from the use, occupancy, disuse or condition of the Property, improvements or adjoining areas or ways, affected by such use of the Property or for property damage. Such policy shall provide protection of at least $5,000,000 for bodily injury or death to any one person, at least $5,000,000 for any one accident or occurrence, and at least $5,000,000 for property damage, and $10,000,000 in the aggregate.

b. **Worker's Compensation**. To the extent Developer and its contractors utilize employees for any portion of the Project, Developer and such contractors shall also furnish or cause to be furnished to City evidence reasonably satisfactory to it that Developer and any contractor with whom Developer has contracted for the performance of any work for which Developer is responsible hereunder carries workers' compensation insurance as required by law.

c. **Automobile Liability Insurance**. Developer shall ensure that all contractors with whom Developer has contracted for the performance of any work for which Developer is responsible hereunder maintains automobile insurance at least as broad as Insurance Services Office form CA 00 01 covering bodily injury and property damage for all activities of the Developer arising out of or in connection with work to be performed under this Agreement, including coverage for any owned, hired, non-owned or rented vehicles, in an amount not less than $5,000,000 combined single limit for each accident.

d. **Pollution Liability Insurance**. Environmental Impairment Liability Insurance shall be written on a Contractor's Pollution Liability form or other form acceptable to City providing coverage for liability arising out of sudden, accidental and gradual pollution and remediation. The policy limit shall be no less than $5,000,000 dollars per claim and $10,000,000 in the aggregate. All activities contemplated in this Agreement shall be specifically scheduled on the policy as "covered operations." The policy shall provide coverage for the hauling of waste from the Project site to the final disposal location, including non-owned disposal sites.

e. **Builder's Risk Insurance.** Builder's Risk (Course of Construction) insurance utilizing an "All Risk" (Special Perils) coverage form, with limits equal to the completed value of the project and no coinsurance penalty provisions or provisional limit provisions. The policy must include: (1) coverage for any ensuing loss from faulty workmanship, nonconforming work, omission or deficiency in design or specifications; (2) coverage against machinery accidents and operational testing; (3) coverage for removal of debris, and insuring the buildings, structures, machinery, equipment, materials, facilities, fixtures and all other properties constituting a part of the project; (4) ordinance or law coverage for contingent

rebuilding, demolition, and increased costs of construction; (5) transit coverage (unless insured by the supplier or receiving contractor), with sub-limits sufficient to insure the full replacement value of any key equipment item; (6) ocean marine cargo coverage insuring any project materials or supplies, if applicable; (7) coverage with sub-limits sufficient to insure the full replacement value of any property or equipment stored either on or off the project site or any staging area. The City and Developer shall each be included as Loss Payee for their respective insurable interest.

f. **Professional Liability Insurance.** Professional liability insurance appropriate to the profession for any design work. This coverage may be written on a "claims made" basis, and must include coverage for contractual liability. The professional liability insurance required by this Agreement must be endorsed to be applicable to claims based upon, arising out of or related to services performed under this Agreement. The insurance must be maintained for at least 5 consecutive years following the completion of the services or the termination of this Agreement. During this additional 5-year period, Developer shall annually and upon request of the City submit written evidence of this continuous coverage.

g. **Other Insurance**. Developer may procure and maintain any insurance not required by this Agreement, but all such insurance shall be subject to all of the provisions hereof pertaining to insurance and shall be for the benefit of City and Developer. Developer shall ensure that all contractors and sub-contractors maintain the required minimum insurance coverages, or shall include the contractors and subcontractors under its insurance.

h. **Renegotiation of Policy Limits.** In the event the Developer in good faith determines and submits substantial evidence to the City that any of the foregoing policy limits or required coverage provisions are unreasonable and not consistent with the prevailing insurance market at the relevant time, the City will reconsider such policy limit(s) or required coverage provision(s) in good faith, and may, but is not required to, approve a modification to same, which approval may be given by the City Manager or designee.

9.2 Insurance Policy Form, Sufficiency, Content, and Insurer. All insurance required by express provisions hereof shall be carried only by responsible insurance companies licensed and admitted to do business by California, rated "A" or better in the most recent edition of Best Rating Guide, The Key Rating Guide or in the Federal Register, and only if they are of a financial category Class VIII or better, unless waived by City. All such policies shall be non-assessable and shall contain language, to the extent obtainable, to the effect that (i) any loss shall be payable notwithstanding any act of negligence of City or Developer that might otherwise result in the forfeiture of the insurance, (ii) the insurer waives the right of subrogation against City and against City's agents and representatives; (iii) the policies are primary and noncontributing with any insurance that may be carried by City; and (iv) the policies cannot be canceled or materially changed except after thirty (30) days' written notice by the insurer to City or City's designated representative. Developer shall furnish City with copies of all such policies

promptly on receipt of them or with certificates evidencing the insurance. City shall be named as an additional insured on all policies of insurance required to be procured by the terms of this Agreement, except for all insurance required by Developer's contractors, both City and Developer shall be named as an additional insured. Moreover, the insurance policy must specify that where the primary insured does not satisfy the self-insured retention, any additional insured may satisfy the self-insured retention. In the event the City's Risk Manager determines that the use, activities or condition of the Property, improvements or adjoining areas or ways, affected by such use of the Property under this Agreement creates an increased or decreased risk of loss to the City, Developer agrees that the minimum limits of the insurance policies required by Section 9.1 may be changed accordingly upon receipt of written notice from the City's Risk Manager; provided that Developer shall have the right to appeal a determination of increased coverage to the City Council of City within ten (10) days of receipt of notice from the City's Risk Manager.

9.3 Failure to Maintain Insurance and Proof of Compliance. Developer shall deliver to City, in the manner required for notices, copies of certificates of all insurance policies together with endorsements required hereunder together with evidence satisfactory to City of payment required for procurement and maintenance of each policy within the following time limits:

a. For insurance required above, within thirty (30 days) after the Effective Date.

b. For any renewal or replacement of a policy already in existence, at least ten (10) days before the expiration or termination of the existing policy.

c. If Developer fails or refuses to procure or maintain insurance as required hereby or fails or refuses to furnish City with required proof that that insurance has been procured and is in force and paid for, such failure or refusal shall be a default hereunder.

9.4 Waiver of Subrogation. Developer agrees that it shall not make any claim against, or seek to recover from City or its agents, servants, or employees, for any loss or damage to Developer or to any person or property, except as specifically provided hereunder and Developer shall give notice to any insurance carrier of the foregoing waiver of subrogation, and obtain from such carrier, a waiver of right to recovery against City, its agents and employees.

9.5 Broader Coverages and Higher Limits. Notwithstanding anything else herein to the contrary, if Developer maintains broader coverages and/or higher limits than the minimums shown above, the City requires and shall be entitled to the broader coverages and/or higher limits maintained by Developer.

10. MORTGAGEE PROTECTION.

10.1 Except as otherwise provided by Applicable Laws and this Agreement, the Parties agree that this Agreement shall not prevent or limit Developer, in any manner, at Developer's sole discretion, from encumbering the Property or any portion thereof or any improvement thereon by any mortgage, deed, of trust or other security device securing financing with respect to the Property. City acknowledges that the lenders providing such financing may

require certain Agreement interpretations, modifications, and estoppel certificates and City agrees upon request, from time to time, to communicate and meet with Developer and representatives of such lenders to negotiate in good faith any such estoppel certificates and/or requests for interpretation or modification. Subject to compliance with applicable laws, City will not unreasonably withhold its consent to any such requested estoppel certificate, interpretation or modification provided City determines such estoppel certificate, interpretation or modification is consistent with the intent and purposes of this Agreement. Any Mortgagee of the Property shall be entitled to the rights and privileges set forth in this Article 10.

10.2 Neither entering into this Agreement nor a breach of this Agreement shall defeat, render invalid, diminish or impair the lien of any mortgage on the Property made in good faith and for value, unless otherwise required by law.

10.3 The Mortgagee of any Mortgage or deed of trust encumbering the Property, or any part thereof, where Mortgagee has submitted a request in writing to the City in the manner specified herein for giving notices, shall be entitled to receive written notification from City of any default by Developer in the performance of Developer's obligations under this Agreement.

10.4 If City timely receives a request from a Mortgagee requesting a copy of any notice of default given to Developer under the terms of this Agreement, City shall provide a copy of that notice to the Mortgagee within ten (10) days of sending the notice of default to Developer. The Mortgagee shall have the right, but not the obligation, to cure the default during the period that is the longer of (i) the remaining cure period allowed such party under this Agreement, or (ii) sixty (60) days.

10.5 Any Mortgagee who comes into possession of the Property, or any part thereof, pursuant to foreclosure of the Mortgage or deed of trust, or deed in lieu of such foreclosure, shall take the Property, or part thereof, subject to the terms of this Agreement.

11. ASSIGNMENTS.

11.1 The experience, knowledge, capability and reputation of Developer, its principals, employees and affiliates were a substantial inducement for the City to enter into this Agreement. The Developer may sell, transfer, lease or assign this Agreement, the Property, or any part thereof (such sale, transfer, lease or assignment shall be referred to as an "**Assignment**") with the prior written consent of the Community Development Director, which consent may not be unreasonably withheld, after providing reasonable documentation and evidence demonstrating that the person or entity to whom any of the rights or privileges granted herein are to be sold, transferred, leased, assigned, hypothecated, encumbered, merged, or consolidated, meets the following criteria: (i) the transferee has the financial strength and capability to perform its obligations under the Agreement, (ii) reasonably satisfactory evidence that the transferee has the experience and expertise to operate the Project, including reasonably satisfactory evidence that the transferee has experience with operations and projects with a similar scale of this Project; and (iii) reasonably satisfactory evidence that the transferee's key principals have no felony convictions. The proposed transferee shall execute and deliver to the City an assumption agreement assuming Developer's Project obligations, which assumption agreement shall be in a form approved by the City Manager and City Attorney.

11.2 City Consideration of Requested Assignment. The City agrees that it will not unreasonably withhold, condition, or delay approval of a request for approval of an Assignment required pursuant to this Article 11, provided that:

a. Developer delivers written notice to the City requesting that approval prior to the completion of the Assignment (the "**Consent Request**"); and

b. The Assignment is not completed until either (i) City has provided its written consent or (ii) sixty (60) days have passed after delivery by Developer to City of the Consent Request without the City having rejected the Consent Request in writing.

c. The Consent Request shall be accompanied by (i) a proposed draft of the Assignment and Assumption Agreement described in Section 11.3, in a form acceptable to the City Attorney and City Manager, and (ii) evidence regarding the proposed assignee's development and/or operational qualifications and experience and its financial commitments and resources in sufficient detail to enable the City to evaluate the proposed assignee's ability to complete the Project.

11.3 Assignments Permitted Without City's Consent. Notwithstanding any other provision of this Agreement, Assignments related to the following property conveyances and other transactions shall not require City consent:

a. The granting of easements or permits to facilitate construction of the Project or any public improvements.

b. The granting of easements or permits for utility purposes.

c. Transactions for financing purposes, including the grant of a deed of trust to secure the funds necessary, but not to exceed the amounts reasonably required, for land acquisition, construction, and/or permanent financing of any portion of the Project.

d. The acquisition of some or all of the Property by a Mortgagee in its capacity as a Mortgagee, such as through foreclosure or a deed in lieu of foreclosure.

e. A sale or transfer resulting from, or in connection with, a reorganization as contemplated by the provisions of the Internal Revenue Code of 1986, as amended or otherwise, in which the ownership interests of a corporation are assigned directly or by operation of law to a person or persons, firm or corporation which acquires the control of the voting capital stock of such corporation or all or substantially all of the assets of such corporation.

f. A sale or transfer between members of the same family, or transfers to a trust, testamentary or otherwise, in which the beneficiaries consist primarily of family members of the trustor, or transfers to a corporation or partnership in which the family members or shareholders of the transferor own at least

ten percent (10%) of the present equity ownership and/or at least fifty percent (50%) of the voting control of Developer.

g. If Developer is a trust, corporation, real estate investment trust, or partnership, a transfer of stock or other interests, provided there is no material change in the actual management and control of Developer.

h. Transactions with any member, partner, officer, employee, or affiliate of Developer or any trust or family member, provided that, following the transaction, the management of Developer on the Effective Date shall, subject to normal and customary business practices and personnel changes, remain the primary Developer representative(s) for purposes of communication with the City.

11.4 Effect of Assignment. Unless otherwise stated within the Assignment, upon an Assignment:

a. The assignee shall be liable for the performance of all remaining obligations of Developer with respect to those portions of the Property which are transferred (the "**Transferred Property**"), but shall have no obligations with respect to any portions of the Property not conveyed (the "**Retained Property**").

b. The owner of the Retained Property shall be liable for the performance of all obligations of Developer with respect to the Retained Property, but shall have no further obligations with respect to the Transferred Property.

c. The Assignee's exercise, use, and enjoyment of the Transferred Property shall be subject to the terms of this Agreement to the same extent as if the Assignee were the Developer.

12. AMENDMENT AND MODIFICATION.

12.1 Initiation of Amendment. Either party may propose an amendment to this Agreement.

12.2 Procedure. Except as set forth in Section 12.4, the procedure for proposing and adopting an amendment to this Agreement shall be the same as the procedure required for entering into this Agreement in the first instance as set forth in Government Code Section 65867.

12.3 Consent. Except as expressly provided in this Agreement, no cancellation of or amendment to all or any provision of this Agreement shall be effective unless set forth in writing and signed by duly authorized representatives of each of the parties hereto and recorded in the Official Records of Los Angeles County.

12.4 Administrative Minor Project Modifications. Notwithstanding any other provision and/or condition of approval contained in any Development Approvals, including any processes set forth in Chapter 5 of the Specific Plan, Minor Modifications to this Agreement, the Project, and/or the Development plans shall be made ministerially, with the approval of the

Director. Such "**Minor Modifications**" shall be defined as any modifications to this Agreement, the Project and/or the Development plans that do not (i) change the proposed uses analyzed for the Project in the EIR or permitted for the Project in the Project Development Approvals and this Agreement, (ii) constitute a prohibited modification under Section 12.5, (iii) increase building heights within the Property in comparison to what is identified in the Project Development Approvals and this Agreement, (iv) reduce the number of parking stalls identified in the Project Development Approvals by more than five (5) percent, (v) substantially deviate from the approved architectural design, as determined by the Community Development Director in his or her reasonable discretion, and/or (vi) reduce the amount of publicly accessible open space below 111,581 square feet.

12.5 Prohibited Modifications. Notwithstanding any provision of this Agreement or the Specific Plan, none of the following shall be permitted with respect to the Project during the Term of this Agreement:; (i) any modification to the square footage of the commercial space (10,000); (ii) any use of the commercial space other than restaurant space; or (iii) any reduction in the amount of publicly accessible open space below 111,581 square feet, except that a reduction of no more than 2.5% of the non-park open space area may be permitted if necessary based on Building Standards Code requirements as identified/required during the plan check process. No reduction to the square footage of the park (22,859 sq. ft.) shall be permitted.

12.6 Hearing Rights Protected. Notwithstanding the foregoing, City will process any change to this Agreement consistent with state law and will hold public hearings thereon if so required by state law and the parties expressly agree nothing herein is intended to deprive any party or person of due process of law.

12.7 Effect of Amendment to Development Agreement. Except as expressly set forth in writing in any such amendment, an amendment to this Agreement will not alter, affect, impair, modify, waive, or otherwise impact any other rights, duties, or obligations of either party under this Agreement.

12.8 Timing of Development. The California Supreme Court held in *Pardee Construction Co. v. City of Camarillo*, 37 Cal.3d 465 (1984), that failure of the parties in that case to provide for the timing of development resulted in a later adopted initiative restricting the timing of development to prevail over the parties' agreement. It is the intent of Developer and City to cure that deficiency by expressly acknowledging and providing that any Subsequent Land Use Regulations that purports to limit over time the rate or timing of development or to alter the sequencing of development phases (whether adopted or imposed by the City Council or through the initiative or referendum process) shall not apply to the Property or the Project and shall not prevail over this Agreement. In particular, but without limiting any of the foregoing, no numerical restriction shall be placed by the City on the amount of total square feet or the number of buildings, structures, residential units that can be built each year on the Property except as expressly provided in this Agreement.

13. MISCELLANEOUS PROVISIONS.

13.1 Recordation. The City Clerk shall cause a copy of this Agreement to be recorded against the Property with the County Recorder within ten (10) calendar days after the Execution Date. The failure of the City to sign and/or record this Agreement shall not affect the validity of this Agreement.

13.2 Notices. Notices and correspondence required or permitted by this Agreement shall be in writing and either personally delivered or sent by registered, certified, or overnight mail or delivery service. Notices shall be deemed received upon personal delivery or on the second business day after registered, certified, or overnight mailing or delivery, or email if such email notice is acknowledged as received by the receiving party. Notices shall be addressed as follows:

To City:
City of Carson
701 East Carson Street
Carson, California 90745
Attn: Planning Manager

With copy to:
Aleshire & Wynder
18881 Von Karman Avenue, Suite 1700
Irvine, CA 92612
Fax: 949-223-1180
Attn: Sunny Soltani

To Developer:
Imperial Avalon, LLC
4276 Katella Avenue, #231
Los Alamitos, CA 90720
Attn: Darren Embry

Rand, Paster & Nelson, LLP
633 W. Fifth Street, 64th Floor
Los Angeles, CA 90071
Attn: Dave Rand

A Party may change its address by giving written notice to the other Party. Thereafter, Notices shall be addressed and transmitted to the new address.

13.3 Estoppel Certificates. Either Party (or a Mortgagee) may at any time deliver written notice to the other Party requesting an Estoppel Certificate stating:

a. The Agreement is in full force and effect and is a binding obligation of the Parties;

b. The Agreement has not been amended or modified or, if so amended, identifying the amendments; and

c. There are no existing defaults under the Agreement to the actual knowledge of the Party signing the Estoppel Certificate.

A Party receiving a request for an Estoppel Certificate shall provide a signed certificate to the requesting Party within thirty (30) days after receipt of the request. The City Manager may sign Estoppel Certificates on behalf of the City. An Estoppel Certificate may be relied on by assignees and Mortgagees.

13.4 Operating Memoranda. The provisions of this Agreement require a close degree of cooperation between City and Developer. During the Term of this Agreement, clarifications to this Agreement and the Applicable Laws may be appropriate with respect to the details of performance of the City and Developer. If and when from time to time during the Term of this Agreement, the City and Developer agree that such clarifications are necessary or appropriate, they shall effectuate such clarification through operating memoranda approved in writing by the City and Developer, which after execution, shall be attached hereto and become part of this Agreement and the same may be further clarified from time to time as necessary with future written approval by the City and Developer. Operating memoranda are mere ministerial clarifications and therefore public notices, hearings and CEQA compliance shall not be required unless otherwise provided by applicable law. The authority to enter into such operating memoranda is delegated to the Community Development Director who is hereby authorized to execute any operating memoranda hereunder without future action or approval by the City Council.

13.5 Project as a Private Undertaking. It is specifically understood and agreed by the Parties that the Project is a private development, that neither Party is acting as the agent of the other in any respect, and that each Party is an independent contracting entity with respect to this Agreement. The only relationship between City and Developer is that of a government entity regulating the development of property owned by a private party. City agrees that by its approval of, and entering into, this Agreement that it is not taking any action which would transform this private Development into a "public work" project, and that nothing herein shall be interpreted to convey upon Developer any benefit which would transform Developer's private project into a public work project, it being understood that this Agreement is entered into by City and Developer upon the exchange of consideration described in this Agreement, including the Recitals to this Agreement, and that City is receiving by and through this Agreement the full measure of benefit in exchange for the burdens placed on Developer by this Agreement, including but not limited to Developer's obligation to provide the public improvements set forth herein.

13.6 Eminent Domain. No provision of this Agreement shall be construed to limit or restrict the exercise by City of its power of eminent domain.

13.7 Entire Agreement. This Agreement represents the entire agreement of the Parties with respect to the subject matter of this Agreement. No testimony or evidence of any such representations, understandings or covenants shall be admissible in any proceeding of any kind or nature to interpret or determine the terms or conditions of this Agreement.

13.8 Further Actions and Instruments. Each of the Parties shall cooperate with and provide reasonable assistance to the other to the extent necessary to implement this Agreement.

13.9 Severability. If any term, provision, covenant or condition of this Agreement shall be determined invalid, void or unenforceable, the remainder of this Agreement shall not be affected thereby to the extent such remaining provisions are not rendered impractical to perform taking into consideration the purposes of this Agreement.

13.10 Covenant Not To Sue. The parties to this Agreement, and each of them, agree that this Agreement and each term hereof is legal, valid, binding, and enforceable. The parties

to this Agreement, and each of them, hereby covenant and agree that each of them will not commence, maintain, or prosecute any claim, demand, cause of action, suit, or other proceeding against any other party to this Agreement, in law or in equity, or based on any allegation or assertion in any such action, that this Agreement or any term hereof is void, invalid, or unenforceable.

13.11 Force Majeure. Neither Party shall be deemed to be in default where failure or delay in performance of any of its obligations under this Agreement is caused by earthquakes, other acts of God, fires, wars, terrorism, riots or similar hostilities, strikes, and other labor difficulties beyond the Party's control, government regulations, pandemics, government-ordered quarantine, court actions (such as restraining orders or injunctions), or other causes beyond the Party's reasonable control. If any such events shall occur, the term of this Agreement and the time for performance shall be extended for the duration of the impacts on the Project of each such event.

13.12 Waiver. All waivers of performance must be in a writing signed by the Party granting the waiver. Failure by a Party to insist upon the strict performance of any provision of this Agreement shall not be a waiver of future performance of the same or any other provision of this Agreement.

13.13 Time of Essence. Time is of the essence in the performance of the provisions of this Agreement as to which time is an element.

13.14 Governing Law and Venue. This Agreement shall be governed and interpreted in accordance with California law, with venue for any litigation concerning this Agreement in Los Angeles, California.

13.15 Interpretation. This Agreement shall be construed as a whole according to its fair language and common meaning to achieve the objectives and purposes of the parties hereto, and the rule of construction to the effect that ambiguities are to be resolved against the drafting party or in favor of City shall not be employed in interpreting this Agreement, all parties having been represented by counsel in the negotiation and preparation hereof.

13.16 Corporate Authority. The person(s) executing this Agreement on behalf of each of the parties hereto represent and warrant that (i) such party, if not an individual, is duly organized and existing, (ii) they are duly authorized to execute and deliver this Agreement on behalf of said party, (iii) by so executing this Agreement such party is formally bound to the provisions of this Agreement, and (iv) the entering into this Agreement does not violate any provision of any other agreement to which such party is bound.

13.17 Attorneys' Fees. If either party to this Agreement is required to initiate or defend litigation against the other party, the prevailing party in such action or proceeding, in addition to any other relief which may be granted, whether legal or equitable, shall be entitled to reasonable attorneys' fees. Attorneys' fees shall include attorneys' fees on any appeal, and, in addition, a party entitled to attorney's fees shall be entitled to all other reasonable costs for investigating such action, taking depositions and discovery and all other necessary costs the court allows which are incurred in such litigation. All such fees shall be deemed to have accrued on commencement of such action and shall be enforceable whether or not such action is prosecuted to a final judgment.

13.18 Recitals. The recitals in this Agreement constitute part of this Agreement and each party shall be entitled to rely on the truth and accuracy of each recital as an inducement to enter into this Agreement.

13.19 No Brokers. City and Developer represent and warrant to the other that neither has employed any broker and/or finder to represent its interest in this transaction. Each party agrees to indemnify and hold the other free and harmless from and against any and all liability, loss, cost, or expense (including court costs and reasonable attorney's fees) in any manner connected with a claim asserted by any individual or entity for any commission or finder's fee in connection with this Agreement arising out of agreements by the indemnifying party to pay any commission or finder's fee.

13.20 Joint and Several Liability. In the event Developer should sell, transfer, lease or assign this Agreement, the Property, or any part thereof, Developer shall bear ultimate responsibility for all obligations, conditions, and restrictions set forth under this Agreement, it being understood that both Developer and any transferee, assignee, or lessee shall be jointly and severally liable.

13.21 Compliance with Laws. Developer must comply with all applicable provisions of federal, state and local laws and regulations, including the City's Municipal Code.

13.22 Counterparts. This Agreement may be executed by the Parties in counterparts, which together shall have the same effect as if each of the Parties had executed the same instrument.

[SIGNATURES ON FOLLOWING PAGE(S)]

IN WITNESS WHEREOF, the Parties hereto have executed this Agreement on the day and year first set forth above.

CITY

CITY OF CARSON a municipal corporation

Lula Davis-Holmes, Mayor

ATTEST

Dr. Khaleah K. Bradshaw, City Clerk

APPROVED AS TO FORM
ALESHIRE & WYNDER, LLP

Sunny K. Soltani, City Attorney

DEVELOPER

IMPERIAL AVALON, LLC, a California limited liability company

By:_____
Name: Jason Illouz
Title: manager

By:_____
Name:
Title:

If Developer is a limited liability company, any one of the following options will satisfy City's signature requirements pursuant to the Corporations Code. Option A: One signature required from each of the following groups: 1) Chairman of the Board, President or any Vice President; and 2) Secretary, any Assistant Secretary, Chief Financial Officer or any Assistant Treasurer. Option B: Signatures required from two managers unless the LLC is managed by one manager per its articles of organization, in which case only one signature from that manager is required. Option C: One signature required from any member unless the LLC is manager-managed per its articles of organization. Option D: One signature required from any manager if the LLC is manager-managed per its articles of organization. DEVELOPER'S SIGNATURES SHALL BE DULY NOTARIZED, AND APPROPRIATE ATTESTATIONS SHALL BE INCLUDED AS MAY BE REQUIRED BY THE BYLAWS, ARTICLES OF ORGANIZATION, OR OTHER RULES OR REGULATIONS APPLICABLE TO DEVELOPER'S BUSINESS ENTITY.

IN WITNESS WHEREOF, the Parties hereto have executed this Agreement on the day and year first set forth above.

CITY

CITY OF CARSON a municipal corporation

Lula Davis-Holmes, Mayor

ATTEST

Dr. Khaleah K. Bradshaw, City Clerk

APPROVED AS TO FORM
ALESHIRE & WYNDER, LLP

Sunny K. Soltani, City Attorney

DEVELOPER

IMPERIAL AVALON, LLC, a California limited liability company

By:_____
Name:
Title:

By:_____
Name:
Title:

If Developer is a limited liability company, any one of the following options will satisfy City's signature requirements pursuant to the Corporations Code. Option A: One signature required from each of the following groups: 1) Chairman of the Board, President or any Vice President; and 2) Secretary, any Assistant Secretary, Chief Financial Officer or any Assistant Treasurer. Option B: Signatures required from two managers unless the LLC is managed by one manager per its articles of organization, in which case only one signature from that manager is required. Option C: One signature required from any member unless the LLC is manager-managed per its articles of organization. Option D: One signature required from any manager if the LLC is manager-managed per its articles of organization. DEVELOPER'S SIGNATURES SHALL BE DULY NOTARIZED, AND APPROPRIATE ATTESTATIONS SHALL BE INCLUDED AS MAY BE REQUIRED BY THE BYLAWS, ARTICLES OF ORGANIZATION, OR OTHER RULES OR REGULATIONS APPLICABLE TO DEVELOPER'S BUSINESS ENTITY.

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT **CIVIL CODE § 1189**

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California)
County of Los Angeles)

On Nov. 16, 2023 before me, Joy Simarago, Notary Public,
Date *Here Insert Name and Title of the Officer*

personally appeared Lula Mae Davis-Holmes
Name(s) of Signer(s)

,

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/~~are~~ subscribed to the within instrument and acknowledged to me that ~~he~~/she/~~they~~ executed the same in ~~his~~/her/~~their~~ authorized capacity(~~ies~~), and that by ~~his~~/her/~~their~~ signature(~~s~~) on the instrument the person(~~s~~), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

JOY SIMARAGO
Notary Public - California
Los Angeles County
Commission # 2428866
My Comm. Expires Dec 2, 2026

Signature Joy Simarago
Signature of Notary Public

Place Notary Seal Above

OPTIONAL

Though this section is optional, completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document
Title or Type of Document: Development Agreement Document Date: Nov. 14, 2023
Number of Pages: 48 including this sheet Signer(s) Other Than Named Above: 1) Dr. Khaleah K. Bradshaw 2) Sunny K. Soltani 3) Jason Iloulian

Capacity(ies) Claimed by Signer(s)

Signer's Name: Lula Mae Davis-Holmes	Signer's Name:
☐ Corporate Officer — Title(s):	☐ Corporate Officer — Title(s):
☐ Partner — ☐ Limited ☐ General	☐ Partner — ☐ Limited ☐ General
☑ Individual ☐ Attorney in Fact	☐ Individual ☐ Attorney in Fact
☐ Trustee ☐ Guardian or Conservator	☐ Trustee ☐ Guardian or Conservator
☐ Other:	☐ Other:
Signer Is Representing: City of Carson	Signer Is Representing:

©2014 National Notary Association • www.NationalNotary.org • 1-800-US NOTARY (1-800-876-6827) Item #5907

IN WITNESS WHEREOF, the Parties hereto have executed this Agreement on the day and year first set forth above.

CITY

CITY OF CARSON a municipal corporation

_____

Lula Davis-Holmes, Mayor

ATTEST

_____

Dr. Khaleah K. Bradshaw, City Clerk

APPROVED AS TO FORM
ALESHIRE & WYNDER, LLP

_____

Sunny K. Soltani, City Attorney

DEVELOPER

IMPERIAL AVALON, LLC, a California limited liability company

By: _____
Name: Jason Elliott
Title: Manager

By: _____
Name:
Title:

If Developer is a limited liability company, any one of the following options will satisfy City's signature requirements pursuant to the Corporations Code. Option A: One signature required from each of the following groups: 1) Chairman of the Board, President or any Vice President; and 2) Secretary, any Assistant Secretary, Chief Financial Officer or any Assistant Treasurer. Option B: Signatures required from two managers unless the LLC is managed by one manager per its articles of organization, in which case only one signature from that manager is required. Option C: One signature required from any member unless the LLC is manager-managed per its articles of organization. Option D: One signature required from any manager if the LLC is manager-managed per its articles of organization. DEVELOPER'S SIGNATURES SHALL BE DULY NOTARIZED, AND APPROPRIATE ATTESTATIONS SHALL BE INCLUDED AS MAY BE REQUIRED BY THE BYLAWS, ARTICLES OF ORGANIZATION, OR OTHER RULES OR REGULATIONS APPLICABLE TO DEVELOPER'S BUSINESS ENTITY.

CALIFORNIA ACKNOWLEDGMENT CIVIL CODE § 1189

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of Los Angeles }

On November 13th 2023 before me, Alexander N Smith, Notary Public,
Date *Here Insert Name and Title of the Officer*

personally appeared Jason Illovian
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

ALEXANDER N. SMITH
Notary Public - California
Los Angeles County
Commission # 2353568
My Comm. Expires Apr 1, 2025

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature _____
Signature of Notary Public

Place Notary Seal and/or Stamp Above

OPTIONAL

Completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: _____

Document Date: _____ Number of Pages: _____

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____	Signer's Name: _____
☐ Corporate Officer – Title(s): _____	☐ Corporate Officer – Title(s): _____
☐ Partner – ☐ Limited ☐ General	☐ Partner – ☐ Limited ☐ General
☐ Individual ☐ Attorney in Fact	☐ Individual ☐ Attorney in Fact
☐ Trustee ☐ Guardian or Conservator	☐ Trustee ☐ Guardian or Conservator
☐ Other: _____	☐ Other: _____
Signer is Representing: _____	Signer is Representing: _____

©2019 National Notary Association

EXHIBIT "A"

PROPERTY LEGAL DESCRIPTION

THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE CITY OF CARSON IN THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AND IS DESCRIBED AS FOLLOWS:

LOT 1 OF TRACT NO. 71206, IN THE CITY OF CARSON, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 1400, PAGES 1 TO 6 OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

EXCEPT THEREFROM PORTIONS OF SAID LAND ALL MINERALS, OIL, GAS, AND OTHER HYDROCARBON SUBSTANCES LYING BELOW THE SURFACE OF SAID LAND, AS EXCEPTED IN DEED RECORDED DECEMBER 08, 1960 AS INSTRUMENT NO. 1520 OFFICIAL RECORDS, AND IN DEED RECORDED MAY 18, 1959 AS INSTRUMENT NO. 590 OFFICIAL RECORDS.

APN: 7337-001-025

APN: 7337-001-026

APN: 7337-001-027

APN: 7337-001-028

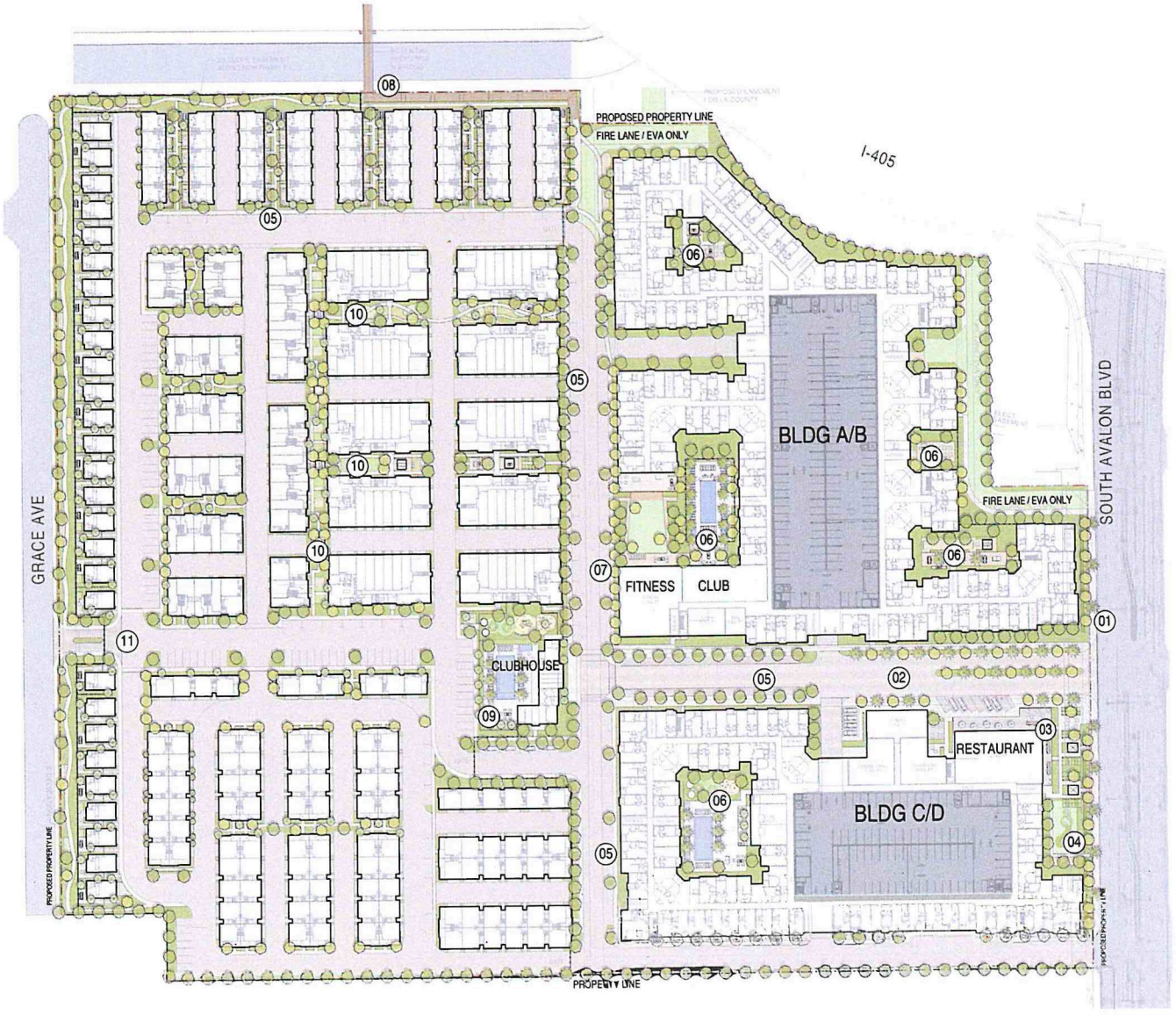
APN: 7337-001-029

EXHIBIT "B"

DEPICTION OF THE PROPERTY

EXHIBIT "B"

DEPICTION OF THE PROPERTY



01 IMPROVED STREETSCAPE WITH SIDEWALK AND STREET TREES PER CITY OF CARSON PUBLIC WORKS STANDARDS

02 SOUTH AVALON ENTRY DRIVE

03 RESTAURANT PATIO AREA

04 AVALON BLVD PARK

05 PARALLEL PARKING

06 RESIDENTIAL COURTYARD

07 STREETSCAPE WITH SHADED LANDSCAPE PARKWAYS AND PARALLEL PARKING

08 PEDESTRIAN BRIDGE CONNECTION

09 COMMUNITY CLUBHOUSE

10 TOWNHOME PEDESTRIAN PASEOS

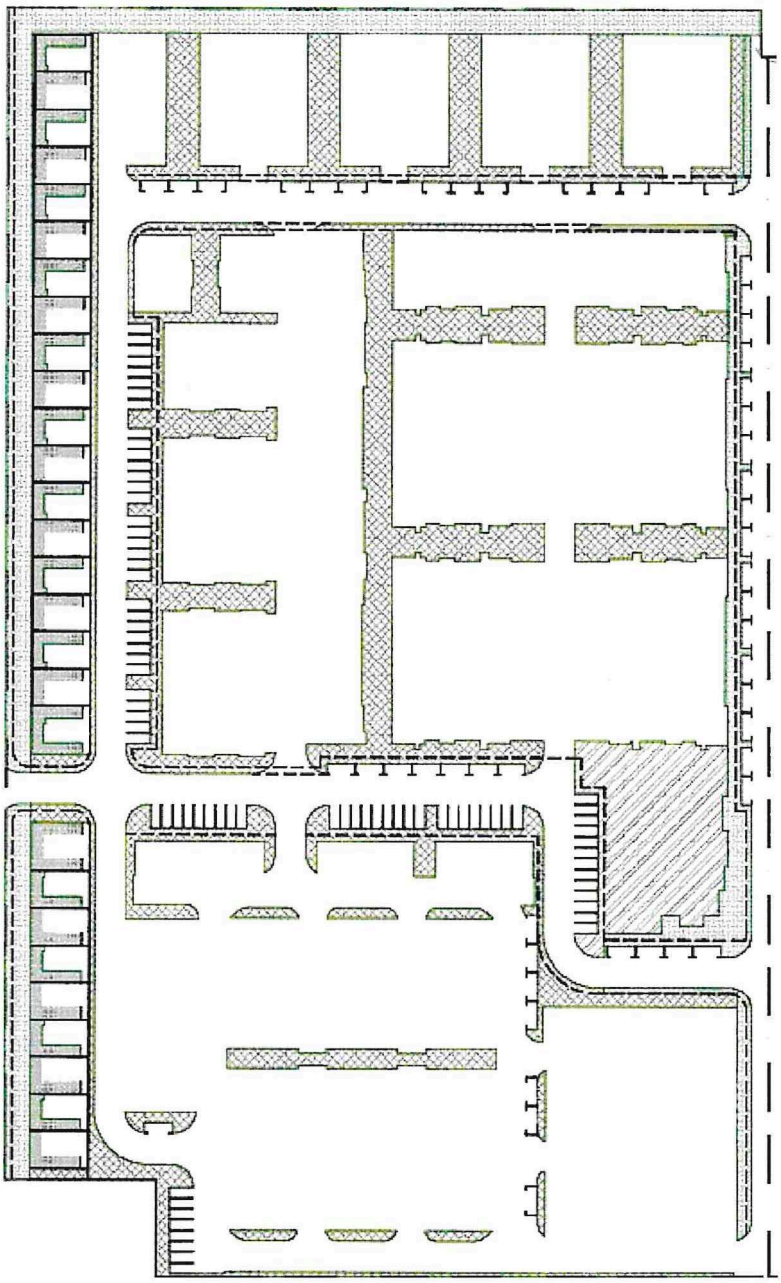
11 GRACE AVENUE ENTRY DRIVE

EXHIBIT "C"

PUBLIC OPEN SPACE AREAS

EXHIBIT "C1"

PUBLIC OPEN SPACE AREAS



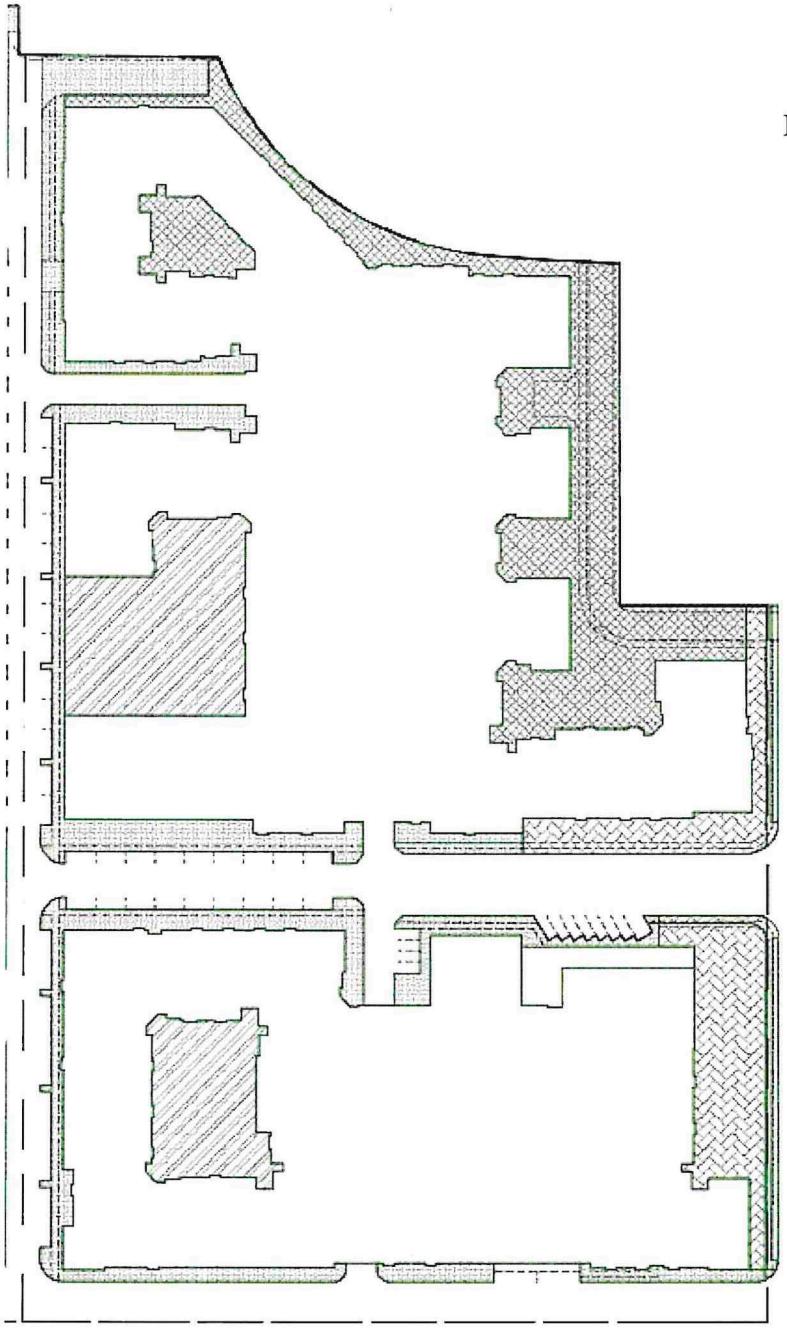
WEST PORTION - TOWNHOMES

PRIVATE OPEN SPACE					
PRODUCT	PLAN	UNIT	AREA (S.F.)		TOTAL (S.F.)
A	1	14	714	Backyard+Deck	9,996
	2	14	712	Backyard+Deck	9,968
B	1	27	168	Patio 8x21	4,536
	2	18	188	Patio 8x23.5	3,384
C	1	62	55	Deck	3,410
	2	44	57	Deck	2,508
D	1	10	52	Deck	520
	2	10	69	Deck	690
	3	21	70	Deck	1,470
	4	21	61	Deck	1,281
E	1	20	87	Deck	1,740
	2	20	79	Deck	1,580
	3	20	100	Deck	2,000
	4	10	108	Patio	1,080
	5	40	118	Deck	4,720
	Total	351			48,883

OPEN SPACE CALCULATIONS		
LOT AREA: 666,717 S.F.	S.F.	AC
LANDSCAPE/EASEMENT PUBLICALLY ACCESSIBLE COMMON OPEN SPACE	45,867.5	1.05
LANDSCAPE/COMMON OPEN SPACE NON-PUBLICALLY ACCESSIBLE COMMON OPEN SPACE	92,153.4	2.12
RECREATION AREA/CLUBHOUSE NON-PUBLICALLY ACCESSIBLE RECREATION OPEN SPACE	17,499.1	0.40
PRIVATE OPEN SPACE/BACKYARD/PATIO/DECK NON-PUBLICALLY ACCESSIBLE OPEN SPACE	48,883.0	1.12
TOTAL	204,403.0	4.69

EXHIBIT "C2"

PUBLIC OPEN SPACE AREAS



LEGEND

- PUBLICALLY ACCESSIBLE COMMON OPEN SPACE
- PUBLICALLY ACCESSIBLE PARK / PLAZA
- NON-PUBLICALLY ACCESSIBLE COMMON OPEN SPACE
- NON-PUBLICALLY ACCESSIBLE RECREATION OPEN SPACE

EAST PORTION - MIXED-USE BUILDINGS A/B & C/D

OPEN SPACE CALCULATIONS

LOT AREA: 518,522 S.F.

BLDG/ OTHER	UNIT COUNT	PRIVATE (DECKS)	COMMON			TOTAL PROJECT
			PUBLIC ACCESS*	NON-PUBLIC	TOTAL COM.	
A-B	464	22,092	24,409	62,044	86,453	108,545
C-D	300	13,564	18,445	11,738	30,183	43,747
PARK	0		22,859		22,859	22,859
TOTAL	764	35,656	65,713	73,782	139,495	175,151

* Public Accessible Open Space includes EVA and all exterior space up to site boundary or fencing, but excludes all drives and surface parking.

	0 -1 BEDROOMS			2- 3 BEDROOMS				public Private & Common	Provided by Public Common
	UNITS	Req'd O.S./Unit	Req'd O.S.	UNITS	Req'd O.S./Unit	Req'd O.S.	TOTAL REQ'D		
A-B	311	125	38,875	153	150	22,950	61,825	84,136	65,713
C-D	223	125	27,875	77	150	11,550	39,425	25,302	
TOTAL			66,750			34,500	**101,250**	**109,438**	**175,151**
									PROVIDED

LOT AREA (SF)	518,522	15%	77,778
			REQUIRED

EXHIBIT "D"

PEDESTRIAN BRIDGE

EXHIBIT "D1"

PEDESTRIAN BRIDGE

ELEVATION

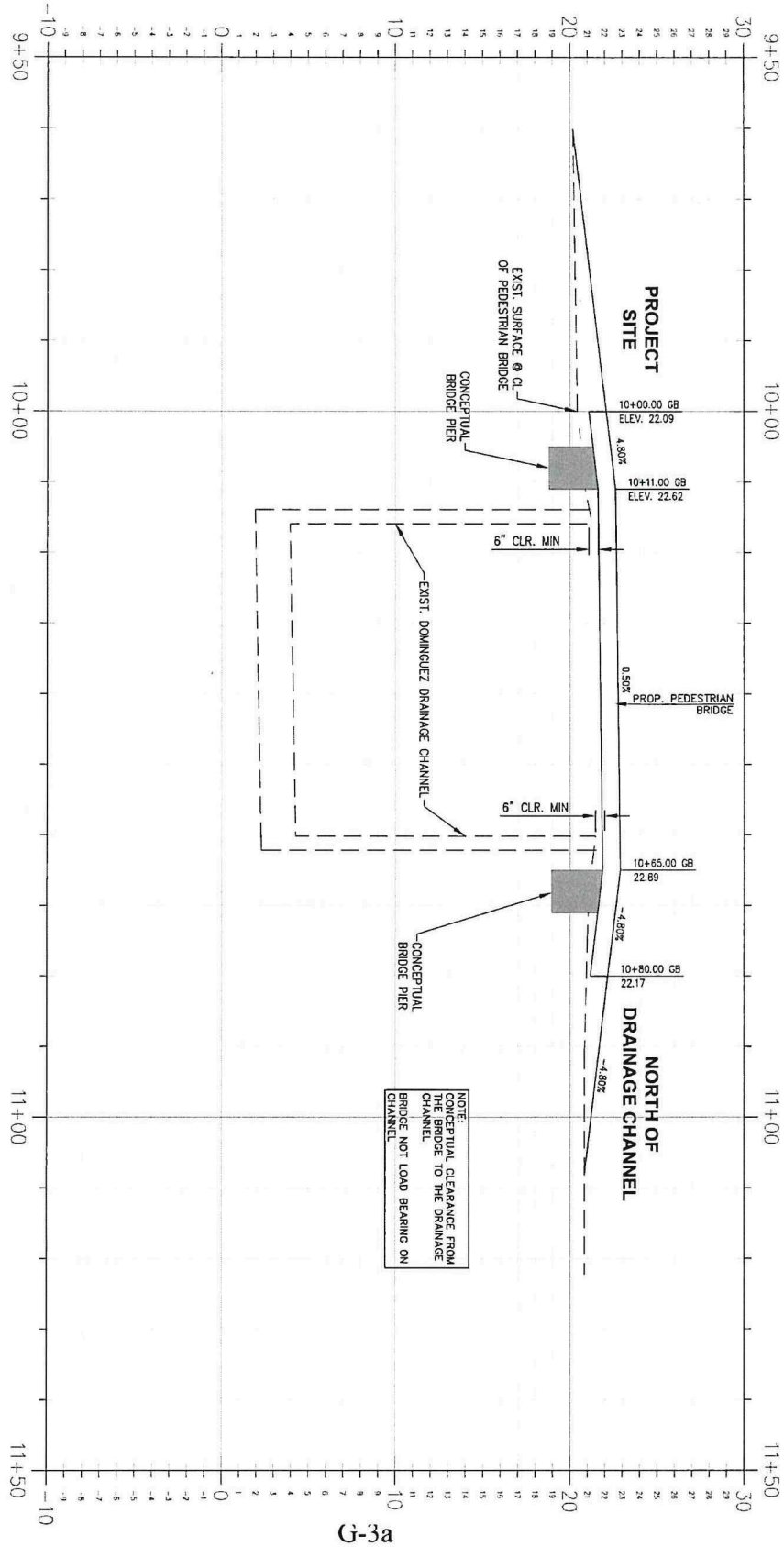
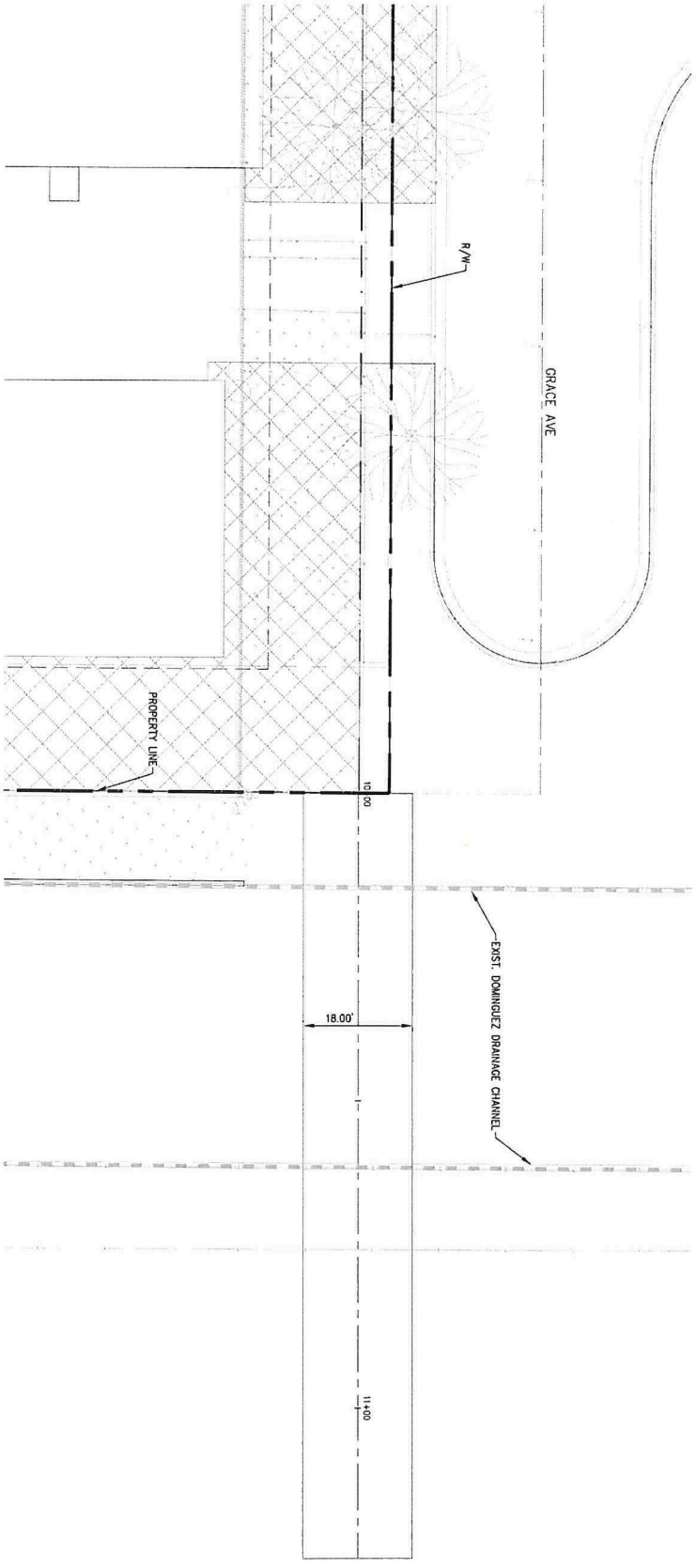


EXHIBIT "D2"

PEDESTRIAN BRIDGE



This page is part of your document - DO NOT DISCARD

20240669399

Pages: 0021

Recorded/Filed in Official Records
Recorder's Office, Los Angeles County, California

10/01/24 AT 08:00AM

FEES:	77.00
TAXES:	0.00
OTHER:	0.00
PAID:	77.00

LEADSHEET

202410010120036

00024839628

014920848

SEQ:
01

SECURE - 8:00AM

THIS FORM IS NOT TO BE DUPLICATED

E441953

09198336rec

RECORDING REQUESTED BY
AND WHEN RECORDED MAIL TO:

Imperial Avalon, LLC
659 North Robertson Blvd
West Hollywood, CA 90069
Attn: Chris Trueblood

SPACE ABOVE THIS LINE RESERVED FOR RECORDER'S USE

APNs: 7337-001-025, 7337-001-026, 7337-001-027, 7337-001-028, and 7337-001-029

PARTIAL ASSIGNMENT AND ASSUMPTION AGREEMENT

THIS PARTIAL ASSIGNMENT AND ASSUMPTION AGREEMENT ("**Agreement**") is effective as of the date of the Effective Date, by and between **Imperial Avalon, LLC**, a California limited liability company ("**Assignor**"), and **Lennar Homes of California, LLC**, a California limited liability company ("**Assignee**"). Assignor and Assignee shall be collectively referred to herein as the "**Parties**" or individually as a "**Party**".

RECITALS

A. Assignor is the owner of that real property located at 21207 South Avalon Boulevard in the City of Carson ("**City**"), County of Los Angeles, State of California, and more particularly described in **Exhibit A** attached hereto ("**Property**").

B. On or about December 6, 2022, the City Council of the City ("**City Council**") conditionally approved a mixed-use residential and commercial development on the Property (the "**Project**"), which approvals included, without limitation, Vesting Tentative Tract Map No. 83157 ("**VTTM 83157**").

C. The approved Project consists of 764 multi-family residential units within two buildings to be constructed on the two lots on the eastern portion of the Property, which lots will be comprised of future Lots 1 and 2 when the final map (the "***Final Map***") for VTTM 83157 is recorded (the "**Apartments**"); 351 attached units all to be located on a separate lot on the western portion of the Property, which lot will be comprised of future Lot 3 of the Final Map (the "**Townhomes**"); 111,581 square feet of publicly accessible open space (including a minimum 22,859 square foot park); and 10,000 square feet of commercial space, all of which shall be restaurant use(s) and located within future Lots 1 and 2 of the Final Map.

D. On or about December 6, 2022, City and Assignor entered into a Development Agreement pertaining to the Project, recorded in the Official Records of Los Angeles County on June 4, 2024 as Document No. 20240361857, as modified from time to time (the "**Development Agreement**").

☑ Recorded concurrently "in connection with" a transfer subject to the imposition of Documentary Transfer Tax - GC 27388.1 (a) (2)

Order: 932504947 Page 2 of 21 Requested By: crcusi, Printed: 8/6/2025 3:53 PM
Doc: CALOSA:2024 00669399

E. Minor Modifications to the Development Agreement have been issued by the City on May 24, 2023, February 28, 2024, and June 10, 2024 (each a "**Minor Modification**" collectively the "**Minor Modifications**").

F. Assignor intends to sell that portion of the Property (i.e., future Lot 3 of the Final Map) that will contain the Townhomes to Assignee (the "**Transferred Property**" or "**For-Sale Development Site**"). The remaining portion of the Property not conveyed to Assignee (i.e., future Lots 1 and 2 of the Final Map), which will contain the Apartments in two Apartment buildings, shall be referred to herein as the "**Retained Property**" or "**Mixed-Use Development Site**". The Transferred Property is described and depicted in **Exhibit B** attached hereto.

G. In connection with the purchase and sale of the Transferred Property, from and after the Effective Date: (i) Assignor desires to assign to Assignee all of Assignor's rights, duties, and obligations under the Development Agreement with respect to the Transferred Property and the Townhomes, except as otherwise provided in Sections 1.3 and 1.4 hereto (the "**Assigned Rights and Obligations**"); and (ii) Assignee desires to accept and assume Assignor's rights, duties, and obligations under the Development Agreement with respect to the Transferred Property and the Townhomes, except as otherwise provided in Sections 1.3 and 1.4 hereto (the "**Assumed Rights and Obligations**"). The Assigned Rights and Obligations and the Assumed Rights and Obligations are referred to collectively herein as the "**Transferred Property Rights and Obligations.**" Assignor desires to retain and remain fully and solely responsible for all of Assignor's rights, duties, and obligations under the Development Agreement with respect to the Retained Property and the Apartments, except as otherwise provided in Sections 1.3 and 1.4, hereto (the "**Retained Property Rights and Obligations**"), and Assignee is agreeable to same. For the avoidance of doubt, the Parties intend that Development Agreement provisions of general applicability (e.g., insurance and indemnification obligations) shall be deemed part of both the Transferred Property Rights and Obligations, to the extent they may have applicability in connection with the Transferred Property and/or the Townhomes (except as otherwise provided in Sections 1.3 and 1.4 hereto), and the Retained Property Rights and Obligations, to the extent they may have applicability in connection with the Retained Property and/or the Apartments (except as otherwise provided in Sections 1.3 and 1.4 hereto).

H. Any assignment and assumption of the Development Agreement is subject to the requirements stated in Section 11 of the Development Agreement governing assignments.

NOW, THEREFORE, in consideration of the promises and covenants set forth herein, and for other good and valuable consideration, receipt of which is hereby acknowledged, the parties agree as follows:

ARTICLE 1

ASSIGNMENT AND ASSUMPTION OF THE TRANSFERRED PROPERTY RIGHTS AND OBLIGATIONS

1.1. **Assignment.** Assignor assigns to Assignee, as of the Effective Date, all of Assignor's rights, title and interest in and to the Transferred Property Rights and Obligations.

Order: 932504947 Page 3 of 21 Requested By: crcusi, Printed: 8/6/2025 3:53 PM
Doc: CALOSA:2024 00669399

1.2. **Assumption**. As of the Effective Date, Assignee accepts Assignor's assignment of the Assigned Rights and Obligations and assumes the Assumed Rights and Obligations. From and after the Effective Date, Assignee shall keep and perform all covenants, conditions and provisions of the Development Agreement, as modified by the Minor Modifications, relating to the Transferred Property Rights and Obligations, and Assignor shall retain and remain responsible for performing all covenants, conditions and provisions of the Development Agreement, as modified by the Minor Modifications, relating to the Retained Property Rights and Obligations.

1.3. **Ongoing Financial Commitments.** In accordance with Development Agreement Section 3.1-Comprehensive Development Agreement Fee, the Parties agree that Assignor shall retain sole and full responsibility for compliance with the Development Agreement requirements related to the ongoing financial commitments to the City set forth in Development Agreement Section 3.1 (as amended by the Minor Modification approval letter dated February 28, 2024, and as may be further amended), including but not limited to the "Carson Park and Recreation Subsidy" and the "Annual Payments." This Agreement will be recorded pursuant to Section 1.7 below, which satisfies the requirement to record a memorandum outlining the ongoing financial obligations under the Development Agreement in the event of a transfer as set forth in Development Agreement Section 3.1.1 (as modified by the February 28, 2024 Minor Modification).

1.4. **Division of Certain Rights and Obligations**. The rights and obligations described in those certain sections of the Development Agreement stated below (and associated general provisions, to the extent they may have applicability in connection with same as noted in Recital G) are assigned and assumed or retained as follows and incorporated into or omitted from the Transferred Property Rights and Obligations, as applicable.

1.4.1. Development Agreement Section 3.6 - Publicly Accessible, Privately Maintained Open Space. Assignee shall comply with the requirements related to the Public Open Space Areas defined and identified in Section 3.6 and on Exhibit C to the Development Agreement with respect those Public Open Space Areas on the Transferred Property. Assignor shall comply with the requirements related to the Public Open Space Areas defined and identified in Section 3.6 and on Exhibit C to the Development Agreement with respect to those Public Open Space Areas on the Retained Property.

1.4.2. Development Agreement Section 3.7 – Existing Pedestrian Bridge. Assignor shall be solely responsible for complying with all requirements related to any improvements or contributions required under Development Agreement Section 3.7.

1.4.3. Development Agreement Section 3.8 - Restaurant and Kitchen Timing. Assignor shall be solely responsible for the complying with all requirements related to the restaurant and kitchen spaces required under Development Agreement Section 3.8.

1.4.4. Development Agreement Section 3.9 - Art Benefit. Assignor shall be solely responsible for compliance with Development Agreement Section 3.9(a). Assignee shall be solely responsible for compliance with Development Agreement Section 3.9(b).

1.4.5. Development Agreement Section - 3.10 Traffic Signal. Assignee shall be solely responsible for fulfilling all requirements related to funding and installing a new traffic signal as described in Development Agreement Section 3.10.

1.5. **Reimbursement Agreement**. Assignor entered into that certain Reimbursement and Indemnification Agreement with the City, dated December 16, 2019, as amended by the First Amended Reimbursement and Indemnification Agreement dated June 1, 2022, under which Assignor is required to reimburse the City for certain Project-related costs ("**Assignor Reimbursement Agreement**"). Upon the Effective Date, or promptly thereafter, Assignee shall enter into a separate reimbursement and indemnification agreement with the City, the form and terms of which shall be substantially the same as those of the Assignor Reimbursement Agreement except that the scope of said separate agreement shall be limited to the Transferred Property and the Townhomes, including requiring Assignee to reimburse the City for all Project-related costs related to the Transferred Property for which Assignor would otherwise be required to reimburse the City under the Assignor Reimbursement Agreement ("**Assignee Reimbursement Agreement**"). Until the Assignee Reimbursement Agreement becomes effective, Assignee shall reimburse Assignor for all payments made by Assignor to City under the Assignor Reimbursement Agreement that are related to the Transferred Property within 30 days of receipt of an invoice from Assignor. Any amount remaining unpaid on and after the 31st day following receipt of an invoice from Assignor shall bear interest at a rate of six and one-half percent (6.5%) per annum until payment is received by Assignor.

1.6. **Effective Date**. For purposes of this Agreement, the "**Effective Date**" shall be the later to occur of: (1) the date on which the deed from Assignor to Assignee or Assignee's land bank (provided that in connection with a deed to Assignee's land bank Assignee has an option to acquire the Transferred Property from such land bank) for the Transferred Property is recorded in the Office of the Recorder of the County of Los Angeles; and (2) the date this Agreement is executed by all Parties and approved by the City as evidenced by the full execution of the City's representatives in the form entitled City of Carson's Consent, attached hereto as **Exhibit C**.

1.7. **Recordation**. Within thirty (30) days from the Effective Date, this Agreement shall be recorded in the Los Angeles County Clerk Recorder's office. This Agreement shall be recorded against both the Retained Property and the Transferred Property.

ARTICLE 2

RIGHTS AND REMEDIES

2.1. **Assignor's Release; No Assignor Liability or Default for Assignee Breach**. In accordance with Section 11.4 of the Development Agreement, Assignor shall be released from the Development Agreement with respect to the Transferred Property Rights and Obligations as of the Effective Date. As of the Effective Date, any default or breach by Assignee under the Development Agreement following the Effective Date with respect to the Transferred Property Rights and Obligations ("**Assignee Breach**") shall not constitute a breach or default by Assignor under the Development Agreement with respect to the Retained Property Rights and Obligations and shall not result in (a) any remedies imposed against Assignor, including without limitation any remedies authorized pursuant to Section 7 of the Development Agreement, or (b) modification or termination of the Development Agreement with respect to the Retained Property Rights and Obligations.

Assignor shall, however, maintain sole and full liability and responsibility after the Effective Date for any potential breach or default under the Development Agreement relative to the Transferred Property Rights and Obligations that may have occurred prior to the Effective Date, subject to the default and cure provisions set forth in Section 7 of the Development Agreement.

2.2. **No Assignee Liability or Default for Assignor Breach**. As of the Effective Date, any default or breach by Assignor under the Development Agreement prior to or after the Effective Date ("**Assignor Breach**") shall not constitute a breach or default by Assignee under the Development Agreement relative to the Transferred Property Rights and Obligations, and shall not result in (a) any remedies imposed against Assignee, including without limitation any remedies authorized pursuant to Paragraph Section 7 of the Development Agreement, or (b) modification or termination of the Development Agreement with respect to the Transferred Property.

ARTICLE 3

PERIODIC REVIEW OF COMPLIANCE

3.1. **Assignor Responsibilities.** In accordance with Section 6 of the Development Agreement, Assignor shall participate in the annual review of the Development Agreement conducted pursuant to Section 65865.1 of the California Government Code, and any Special Review ordered by the City Council pursuant to Section 6.2 of the Development Agreement, with respect to (1) both the Retained Property Rights and Obligations and the Transferred Property Rights and Obligations prior to the Effective Date, (2) and the Retained Property Rights and Obligations after the Effective Date, and Assignee shall have no responsibility therefor.

3.2. **Assignee Responsibilities.** In accordance with Section 6 of the Development Agreement, Assignee shall participate in the annual review of the Development Agreement conducted pursuant to Section 65865.1 of the California Government Code, and any Special Review ordered by the City Council pursuant to Section 6.2 of the Development Agreement, with respect to the Transferred Property Rights and Obligations after the Effective Date, and Assignor shall have no responsibility therefor.

ARTICLE 4

AMENDMENT OF THE DEVELOPMENT AGREEMENT

4.1. **Assignor**. Assignor shall not request, process or consent to any amendment or modification to the Development Agreement directly related to the Transferred Property or the Transferred Property Rights and Obligations without Assignee's prior written consent, which consent shall not be withheld unreasonably. The foregoing notwithstanding, Assignor may process any amendment or modification that does not directly affect the Transferred Property, and, if necessary, Assignee shall consent thereto and execute all documents necessary to accomplish said amendment, provided that said amendment and/or modification does not directly affect the Transferred Property or any of Assignee's Transferred Property Rights and Obligations pursuant to the Development Agreement.

4.2. **Assignee**. Assignee shall not request, process or consent to any amendment or modification to the Development Agreement directly related to the Retained Property or the

Assignor's remaining rights and obligations pursuant to the Development Agreement without Assignor's prior written consent, which consent shall not be withheld unreasonably. The foregoing notwithstanding, Assignee may process any amendment or modification that does not directly affect the Retained Property, and, if necessary, Assignor shall consent thereto and execute all documents necessary to accomplish said amendment, provided that said amendment does not directly affect the Retained Property or any of Assignor's remaining rights and obligations pursuant to the Development Agreement.

ARTICLE 5

GENERAL PROVISIONS

5.1. **Recitals**. The recitals in this Agreement constitute part of this Agreement and each Party shall be entitled to rely on the truth and accuracy of each recital as an inducement to enter into this Agreement.

5.2. **Notices**. All notices, invoices and other communications required or permitted under this Agreement shall be made in writing, and shall be delivered either personally (including by private courier), by certified mail, postage prepaid and return receipt requested, or by nationally recognized overnight courier service to the following addresses, or to such other addresses as the parties may designate in writing from time to time:

If to Assignor:
Imperial Avalon, LLC
659 North Robertson Blvd
West Hollywood, CA 90069
Attention: Chris Trueblood

With a copy to:
Dave Rand
Rand Paster Nelson
633 West Fifth Street, Suite 5880
Los Angeles, CA 90071
Email: dave@rpnllp.com

If to Assignee:
Lennar Homes of California, LLC
2000 Fivepoint, 3rd Floor
Irvine, CA 92618
Attention: JR Jones | Email: JR.Jones@lennar.com

With a copy to:
Deverich & Gillman LLP
20 Pacifica, Suite 320
Irvine, California 92618
Attention: Christopher D. Downs | Email: cdowns@dgllp.com

Notices personally delivered shall be deemed received upon delivery. Notices delivered by certified mail as provided above shall be deemed received on actual delivery. Notices delivered by courier service as provided above shall be deemed received twenty-four (24) hours after the date of deposit. From and after the Effective Date and until further written notice from Assignee to the City pursuant to the terms of the Development Agreement, Assignee hereby designates as its notice address for notices sent by the City pursuant to Section 13.2 of the Development Agreement, the notice address set forth above.

5.3. **Estoppel Certificates**. Within ten (10) business days after receipt of a written request from time to time, either Party shall execute and deliver to the other, or to an auditor or prospective lender or purchaser, a written statement certifying to that Party's actual knowledge: (a) that the Development Agreement is unmodified and in full force and effect (or, if there have been modifications, that the Development Agreement is in full force and effect, and stating the date and nature of such modifications); (b) that there are no current defaults under the Development Agreement by the City and either Assignor or Assignee, as the case may be (or, if defaults are asserted, so describing with reasonable specificity) and that there are no conditions which, with the passage of time or the giving of notice, or both, would constitute a default; (c) that this Agreement is unmodified and in full force and effect (or, if there have been modifications, that this Agreement is in full force and effect, and stating the date and nature of such modifications); and (d) such other matters as may be reasonably requested.

5.4. **Attorneys' Fees**. In the event of any legal or equitable proceeding in connection with this Agreement, the prevailing Party in such proceeding shall be entitled to recover its reasonable costs and expenses, including without limitation reasonable attorneys' fees, costs and disbursements paid or incurred in good faith at the arbitration, pre-trial, trial and appellate levels, and in enforcing any award or judgment granted pursuant thereto.

5.5. **No Waiver**. No delay or omission by either Party in exercising any right, remedy, election or option accruing upon the noncompliance or failure of performance by the other Party under the provisions of this Agreement shall constitute an impairment or waiver of any such right, remedy, election or option. No alleged waiver shall be valid or effective unless it is set forth in a writing executed by the Party against whom the waiver is claimed. A waiver by either Party of any of the covenants, conditions or obligations to be performed by the other Party shall not be construed as a waiver of any subsequent breach of the same or any other covenants, conditions or obligations.

5.6. **Headings**. The descriptive headings of the respective paragraphs of this Agreement are inserted for convenience only and shall not affect the construction or interpretation of the provisions of this Agreement.

5.7. **Amendment**. This Agreement may be amended only by a written agreement signed by both Assignor and Assignee.

5.8. **Successors and Assigns**. This Agreement runs with the land and shall be binding on and inure to the benefit of the parties and their respective successors and assigns.

5.9. **No Joint Venture**. Nothing contained herein shall be construed as creating a joint venture, agency, or any other relationship between the parties hereto other than that of assignor and assignee.

5.10. **Severability**. If any term or provision of this Agreement or the application thereof to any person or circumstance is found by a court of competent jurisdiction to be invalid or unenforceable, the remainder of this Agreement, or the application of such term or provision to persons or circumstances other than those as to which it is held invalid or unenforceable, shall not be affected thereby, and each remaining term and provision of this Agreement shall be valid and enforceable to the full extent permitted by law; provided that, if the invalidation or unenforceability would deprive either Assignor or Assignee of material benefits derived from this Agreement or make performance under this Agreement unreasonably difficult, then Assignor and Assignee shall meet and confer and shall make good faith efforts to modify this Agreement in a manner that is acceptable to Assignor, Assignee, and the City.

5.11. **Governing Law**. This Agreement shall be governed by and construed in accordance with the laws of the State of California.

5.12. **Third Party Beneficiaries**. Assignor and Assignee acknowledge that the City is a third party beneficiary of the terms and conditions of this Agreement to the extent necessary for City to enforce the terms and conditions of the Development Agreement. This Agreement shall not be deemed or construed to confer any rights, title, or interest, including without limitation any third party beneficiary status or right to enforce any provision of this Agreement, upon any person or entity other than Assignor, Assignee, and the City.

5.13. **Time of the Essence**. Time is of the essence in the performance by each Party of its obligations under this Agreement.

5.14. **Authority**. Each Party to this Agreement represents and warrants that the person or persons executing this Agreement on such Party's behalf has the authority to bind his or her respective Party to the performance of its obligations hereunder and that all necessary board of directors', shareholders', partners,' and other approvals have been obtained.

5.15. **Term**. The term of this Agreement shall commence on the Effective Date and shall expire upon the expiration or earlier termination of the Development Agreement, subject to any obligations under the Development Agreement that expressly survive the expiration or termination of the Development Agreement. Upon the expiration or earlier termination of this Agreement, the Parties shall have no further rights or obligations hereunder, except with respect to any obligation to have been performed prior to such expiration or termination or with respect to any default in the performance of the provisions of this Agreement that occurred prior to such expiration or termination or with respect to any obligations that are specifically set forth as surviving this Agreement or the Development Agreement.

5.16. **Counterparts**. This Agreement may be executed in one or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument. Signature pages may be detached from the counterparts and attached to a single copy of this Agreement to physically form one document.

5.17. **Default**. Any failure by either Party to perform any material term or provision of this Agreement shall constitute a default (a) if such defaulting Party does not cure such failure within thirty (30) days following written notice of default from the other Party, where such failure is of a nature that can be cured within such thirty (30) day period, or (b) if such default is not of a nature that

can be cured within such thirty (30) day period, if the defaulting Party does not within such thirty (30) day period commerce substantial efforts to cure such failure, or thereafter does not within a reasonable time prosecute to completion with diligence the curing of such failure. Any notice of default given hereunder shall be given in the same manner as provided in Section 5.2 hereof and shall specify in detail the nature of the failures in performance that the noticing party claims and the manner in which such failure can be satisfactorily cured.

5.18. **Entire Agreement**. This Agreement sets forth the entire understanding of the Parties hereto with respect to the subject matter hereof and may not be altered, amended, changed, waived, terminated, or modified in any respect or particular unless the same shall be in writing and signed by each of the parties hereto.

[remainder of page left intentionally blank – signature pages follow]

IN WITNESS WHEREOF, Assignor and Assignee have executed this Agreement by proper persons thereunto duly authorized, to be effective as of the Effective Date.

ASSIGNOR:

IMPERIAL AVALON, LLC

By: _____
Name Printed: Jason Elloulin
Title: Manager

ASSIGNEE:

LENNAR HOMES OF CALIFORNIA, LLC

Signed in Counterpart
By: _____
Name Printed: _____
Title: _____

[NOTARY ACKNOWLEDGEMENTS ATTACHED]

Order: 932504947
Doc: CALOSA:2024 00669399

Requested By: crcusi, Printed: 8/6/2025 3:53 PM

IN WITNESS WHEREOF, Assignor and Assignee have executed this Agreement by proper persons thereunto duly authorized, to be effective as of the Effective Date.

ASSIGNOR:

IMPERIAL AVALON, LLC

Signed in Counterpart

By: _____

Name Printed: _____

Title: _____

ASSIGNEE:

LENNAR HOMES OF CALIFORNIA, LLC

By: _____

Name Printed: Gary Jones

Title: Vice President

[NOTARY ACKNOWLEDGEMENTS ATTACHED]

EXHIBIT A TO ASSIGNMENT AND ASSUMPTION OF DEVELOPMENT AGREEMENT

Description of the Property

All that certain real property situated in the County of Los Angeles, State of California, described as follows:

LOTS 1, 2 AND 3 OF TRACT NO. 83157, IN THE CITY OF CARSON, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 1449 PAGES 48 TO 52 OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

SUBJECT TO EASEMENTS, COVENANTS, CONDITIONS, RESTRICTIONS, RESERVATIONS, RIGHTS-OF-WAY, AND OTHER MATTERS OF RECORDS, IF ANY

FORMERLY DESCRIBED AS:

LOT 1 OF TRACT NO. 71206, IN THE CITY OF CARSON, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 1400 PAGES 1 TO 6 OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

EXCEPT THEREFROM PORTIONS OF SAID LAND ALL MINERALS, OIL, GAS, AND OTHER HYDROCARBON SUBSTANCES LYING BELOW THE SURFACE OF SAID LAND, AS EXCEPTED IN DEED RECORDED DECEMBER 8, 1960 AS INSTRUMENT NO. 1520 AND IN DEED RECORDED MAY 18, 1959 AS INSTRUMENT NO. 590, BOTH OF OFFICIAL RECORDS.

Assessor's Parcel Number: 7337-001-025, -026, -027,-028, -029

EXHIBIT B TO ASSIGNMENT AND ASSUMPTION OF DEVELOPMENT AGREEMENT

Description and Depiction of the Transferred Property

[SEE ATTACHED]

Order: 932504947
Doc: CALOSA:2024 00669399

Page 14 of 21

Requested By: crcusi, Printed: 8/6/2025 3:53 PM

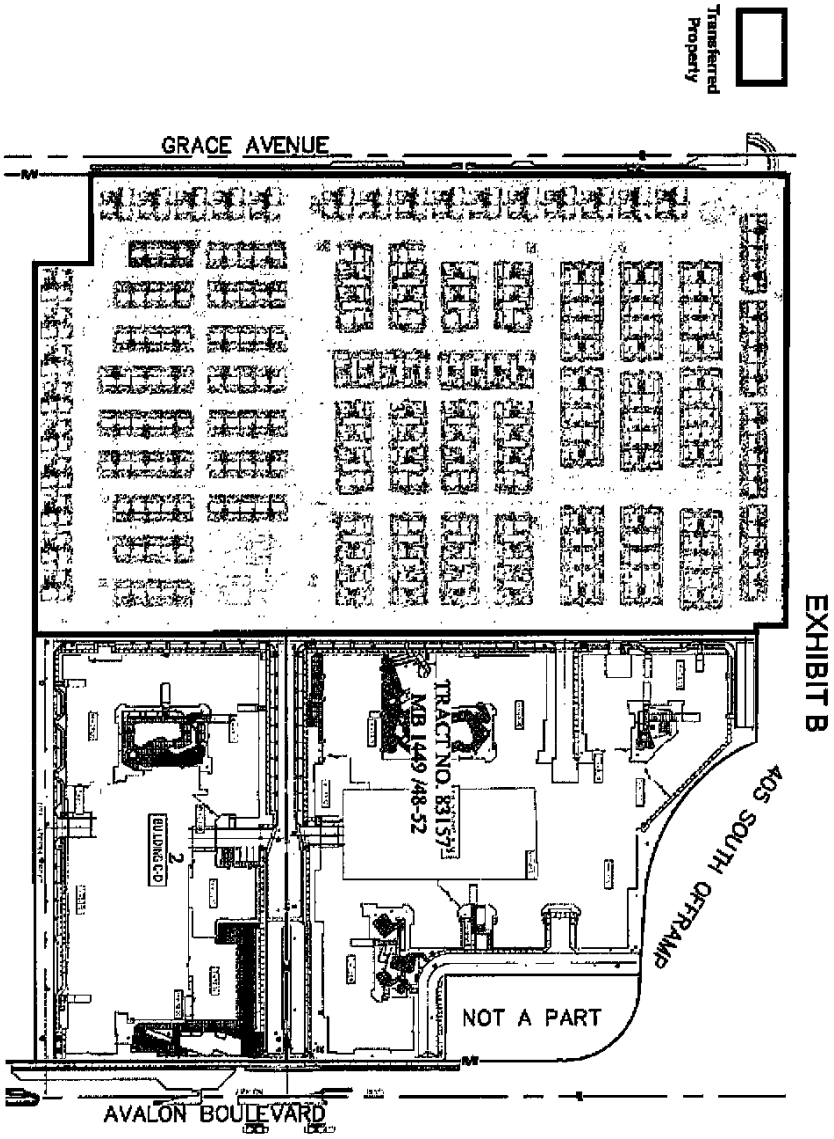


EXHIBIT B
-2-

01007.0580/998151.4

LEGAL DESCRIPTION

LOT 3 OF TRACT NO. 83157, IN THE CITY OF CARSON, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS RECORDED IN BOOK 1449 PAGES 48 THROUGH 52, INCLUSIVE OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

SUBJECT TO: EASEMENTS, COVENANTS, CONDITIONS, RESTRICTIONS, RESERVATIONS, RIGHTS, RIGHTS-OF-WAY, AND OTHER MATTERS OF RECORDS, IF ANY.

PREPARED UNDER THE DIRECTION OF:

09/06/2024

CHRISTOPHER JONES, PLS 8193
chris.jones@kpff.com

LICENSED LAND SURVEYOR CHRISTOPHER R. JONES No. 8193 STATE OF CALIFORNIA

kpff

700 South Flower St., Suite 2100
Los Angeles, CA 90017
O: 213.418.0201
F: 213.266.5294
www.kpff.com

EXHIBIT "A"
LOT 3

IMPERIAL AVALON
CITY OF CARSON/ COUNTY OF LOS ANGELES/ STATE OF CALIFORNIA

REV.:	
DATE:	09-05-2024
DRAWN BY:	CS
CHECKED BY:	DB
PROJECT NO.	2200829.04
SHEET:	2

Order: 932504947 Page 16 of 21 Requested By: crcusi, Printed: 8/6/2025 3:53 PM
Doc: CALOSA:2024 00669399

EXHIBIT C TO ASSIGNMENT AND ASSUMPTION OF DEVELOPMENT AGREEMENT

City of Carson's Consent

Pursuant to Section 11 of the Development Agreement, the City of Carson hereby consents to the assignment and assumption of the Transferred Property Rights and Obligations as set forth in the Partial Assignment and Assumption Agreement to which this Exhibit is attached and agrees to the terms and conditions set forth herein.

CITY OF CARSON,
a municipal corporation of the State of California

By: _____
Name: Saied Naaseh **aka Saied Naaseh Shahry**
Its: Community Development Director

APPROVED AS TO FORM:

By: _____
Name: Sunny K. Soltani **aka Sanaz Khalifeh Soltani**
Its: City Attorney

01007 0580/998151.4

Order: 932504947 Page 17 of 21 Requested By: crcusi, Printed: 8/6/2025 3:53 PM
Doc: CALOSA:2024 00669399

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California)
County of Los Angeles)

On September 11 2024, before me, Alexander N Smith, Notary Public, personally appeared Jason Illoulian, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/~~are~~ subscribed to the within instrument and acknowledged to me that he/~~she~~/~~they~~ executed the same in his/~~her~~/~~their~~ authorized capacity(~~ies~~), and that by his/~~her~~/~~their~~ signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature

ALEXANDER N. SMITH
Notary Public - California
Los Angeles County
Commission # 2353568
My Comm. Expires Apr 1, 2025

NOTARY

01007.0580/998151.4

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California)
County of ORANGE)

On SEPTEMBER 27, 2024, before me, TERESA M. WILKINSON, Notary Public, personally appeared GARY JONES, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Teresa M. Wilkinson

TERESA M. WILKINSON
COMM. #2394778
Notary Public · California
Orange County
My Comm. Expires Feb. 23, 2026

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California)
County of _____)

On _____, before me, _____, Notary Public, personally appeared _____, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature:_____

NOTARY

01007.0580/998151.4

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California)
County of Los Angeles)

On Sept. 12, 2024 before me, Joy Simarago, Notary Public, personally appeared Saied Naaseh Shahry, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/~~are~~ subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity(~~ies~~), and that by his/~~her/their~~ signature(~~s~~) on the instrument the person(~~s~~), or the entity upon behalf of which the person(~~s~~) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

JOY SIMARAGO
Notary Public - California
Los Angeles County
Commission # 2428866
My Comm. Expires Dec 2, 2026

Signature Joy Simarago

NOTARY

01007.0580/9981514

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT **CIVIL CODE § 1189**

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California)
County of Orange)

On 9-12-2024 before me, CARRIE E. STRAND, Notary Public
Date *Here Insert Name and Title of the Officer*

personally appeared Sanaz Khalifeh Soltani
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

CARRIE E. STRAND
Notary Public - California
Orange County
Commission # 2354448
My Comm. Expires Apr 14, 2025

Signature Carrie E. Strand
Signature of Notary Public

Place Notary Seal Above

OPTIONAL

Though this section is optional, completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: _____ Document Date: _____

Number of Pages: _____ Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name:	Signer's Name:
☐ Corporate Officer — Title(s):	☐ Corporate Officer — Title(s):
☐ Partner — ☐ Limited ☐ General	☐ Partner — ☐ Limited ☐ General
☐ Individual ☐ Attorney in Fact	☐ Individual ☐ Attorney in Fact
☐ Trustee ☐ Guardian or Conservator	☐ Trustee ☐ Guardian or Conservator
☐ Other:	☐ Other:
Signer is Representing:	Signer is Representing:

©2014 National Notary Association • www.NationalNotary.org • 1-800-US NOTARY (1-800-876-6827) Item #5907

CITY OF CARSON

May 24, 2023

Mr. Dave Rand
Rand Paster & Nelson, LLP
633 West Fifth Street
64th Floor
Los Angeles, CA 90071

Imperial Avalon, LLC
4276 Katella Avenue, #231
Los Alamitos, CA 90720
Attn: Darren Embry

Re: Imperial Avalon Specific Plan Development Agreement – Minor Modification Application Request Approval

Dear Mr. Rand:

The City of Carson ("City") is in receipt of your letter dated March 23, 2023 requesting minor modifications to Development Agreement No. 23-19 on behalf of Imperial Avalon LLC, the applicant (the "Applicant") of a proposed mixed use development project consisting of 764 multifamily units, 351 townhomes and 10,000 square feet of commercial uses at 21207 South Boulevard in the City.

In accordance with Development Agreement Section 12.4, which permits the Community Development Director to ministerially grant certain "Minor Project Modifications" to the "Agreement, the Project and/or the Development plans," we have reviewed your requested modifications and hereby grant the following Minor Modifications for the following provisions of the Development Agreement. In addition, this Minor Modification approval also clarifies that the required Project building setback along the subject property's 405 freeway fronting property line is actually 10 feet, as identified on the approved Project plans, as opposed to the 30 feet referenced in the Specific Plan (Specific Plan No. 21-19).

1. **Recital G.**

The following corrects the reference in Recital G to Planning Commission Resolution No. 22-244:

"*Project Approvals.* On the same day, the Planning Commission, after giving notice pursuant to the CMC and Government Code §§ 65090, 65091, 65092 and 65094, held a public hearing on the Development Application, and following the hearing, adopted Planning Commission Resolution No. 22-244~~846~~, which: (i) made CEQA findings and determinations as referenced above; (ii) conditionally approved Site Plan and Design Overlay Review ("**DOR**") No. 1803-19 and Vesting Tentative Tract Map ("**VTTM**") No. 83157 for the Project subject to City Council approval of General Plan Amendment ("**GPA**") No. 105-19 (changing the General Plan land use designation for the Property from Regional Commercial/Low Density Residential to Urban Residential), Specific Plan ("**SP**") No. 21-19 (Imperial Avalon Specific Plan), Zone Change ("**ZCC**") No. 188-19 (changing the Property zoning from Commercial Automotive (CA)/Residential, multifamily – 8 units per acre (RM-8) with a Design Overlay to Imperial Avalon Specific Plan [IASP]), and Development Agreement ("**DA**") No. 23-19 (this

Agreement, inclusive of the Adopting Ordinance); and (iii) recommended that the City Council approve GPA No. 105-19, SP No. 21-19, ZCC No. 188-19, and DA No. 23-19 for the Project (DOR No. 1803-19, VTTM No. 83157, GPA No. 105-19, SP No. 21-19, ZCC No. 188-19, and DA No. 23-19 collectively, together with the EIR, the "**Entitlements**")."

2. Recital H.

The following change further clarifies the actions taken by the City Council as set forth in adopted City Council Resolution No's. 22-242 and 22-243 and Ordinance No's. 22-2221 and 22-2222, including with respect to CEQA.

"On December 6 , 2022, the City Council, after provision of the public notice required by law, held a public hearing to consider the Development Application and the Planning Commission's actions and recommendations thereon.~~, and f~~Following the hearing, the City Council: (i) adopted ~~conditionally approved GPA No. 105-19, SP No. 21-19, ZCC No. 188-19, and DA No. 23-19 as set forth in~~ City Council Resolution No. 22-~~1846~~242, making, ratifying and affirming the CEQA findings and the actions of the Planning Commission related to certification of the EIR with respect to approval of the VTTM and making findings pursuant to CEQA Guidelines Sections 15162-15164, and modifying, pursuant to CMC Section 9173.4(c)(2)(b), the decision of the Planning Commission adopting Planning Commission Resolution No. 22-244 with respect to the conditions of approval of the VTTM, pursuant to Developer's appeal; (ii) adopted City Council Resolution No. 22-243, making, ratifying and affirming the CEQA findings and the actions of the Planning Commission related to certification of the EIR with respect to approval of the GPA, and approving the GPA; (iii) introduced, and subsequently, on December 13, 2023, adopted, Ordinance No. 22-2221, making, ratifying and affirming the CEQA findings and the actions of the Planning Commission related to certification of the EIR with respect to approval of the SP and ZCC, conditionally approving the SP, and approving the ZCC; and (iv) introduced, and subsequently, on December 13, 2023, adopted, Ordinance No. 22-2222, making, ratifying and affirming the CEQA findings and the actions of the Planning Commission related to certification of the EIR with respect to approval of the DA, and approving the DA. The Planning Commission and the City Council have found, on the basis of substantial evidence based on the entire administrative record, that this Agreement is consistent with all applicable plans, rules, regulations and official policies of the City."

3. Section 4.7, "Role of Project Development Approvals."

Section 4.7 of the Development Agreement is hereby modified to permit construction of either the townhome and/or the multifamily components of the Project prior to recordation of the final subdivision map, subject to the following requirements.

"4.7 Role of Project Development Approvals. Except as provided within this Agreement, the Project Development Approvals shall exclusively control the uses of the Property, the density or intensity of use, the maximum height and size of proposed buildings, the provisions for reservation or dedication of land for public purposes and the design, improvement, and construction standards and specifications applicable to the Project. Pursuant to Government Code Section 66452.6, the term of any tentative map for the Property or any portion thereof, if any, filed within the term of this Agreement shall automatically be extended for the term of this Agreement, as amended by the Project Development Approvals. In addition, Developer shall have the right to commence Project construction of both Apartment buildings and the Townhomes within the Project prior to the recordation of an approved final subdivision map No. 83157 if applicable permits have been issued and all other applicable conditions of approval and Development Agreement provisions are met. However, the

approved final subdivision map must be recorded prior to issuance of any certificates of occupancy (temporary or otherwise) for the Project, and prior to any occupancy of the Project. Following recordation of the final subdivision map, temporary certificates of occupancy shall be issued if buildings or units are deemed to have satisfied all applicable fire-life safety components and systems to safely occupy the completed areas as determined by the Building Official. ~~building permits for the Townhomes; (ii) issuance of a certificate of occupancy for either of the Apartment buildings.~~ No final certificates of occupancy shall be issued prior to satisfaction of (without limitation) all conditions of approval that are required to be completed "Prior to Issuance of Occupancy Permits" and all applicable Development Agreement provisions. ~~occurrence of either of the following: (i) issuance of any building permits for the Townhomes; (ii) issuance of a certificate of occupancy for either of the Apartment buildings.~~ Neither the Apartment lots nor the Apartment buildings may be individually sold prior recordation of the approved final subdivision map No. 83157. Any tentative map prepared for the Project subdivision will comply with Government Code Section 66473.7."

4. **Section 9.3, "Failure to Maintain Insurance and Proof of Compliance."**

The Development Agreement is further modified to require proof of insurance prior to issuance of the first permit authorizing ground disturbing activity as specified below, rather than 30 days from the Agreement's effective date, except for professional liability insurance, for which the deadline to submit proof of the required insurance shall be August 1, 2023.

"**9.3: Failure to Maintain Insurance and Proof of Compliance.** Developer shall deliver to City, in the manner required for notices, copies of certificates of all insurance policies together with endorsements required hereunder together with evidence satisfactory to City of payment required for procurement and maintenance of each policy within the following time limits:

a. For insurance required above except for professional liability insurance, ~~within thirty (30 days) after the Effective Date~~ prior to issuance of the first permit requiring or authorizing any construction or ground disturbance for the Project. For the avoidance of doubt, removal and disassembly of the Park clubhouse structure and/or Park coaches, without demolition of foundation or slab, is not included in the preceding sentence. For professional liability insurance, by August 1, 2023.

b. For any renewal or replacement of a policy already in existence, at least ten (10) days before the expiration or termination of the existing policy.

c. If Developer fails or refuses to procure or maintain insurance as required hereby or fails or refuses to furnish City with required proof that that insurance has been procured and is in force and paid for, such failure or refusal shall be a default hereunder."

5. **Specific Plan I-405 Setback Requirement.**

The City also desires to resolve an inconsistency between the required Project building setback fronting the 405 freeway (as measured from the property line) as specified in Table 4 of the Specific Plan and the 10-foot setback identified on the approved Project plans. In accordance with Development Agreement Section 12.4, the City therefore grants the following Minor Modification to clarify that Specific Plan Table 4 requires a 10-foot (rather than a 30-foot) building setback from the Project's I-405 fronting property line consistent with the approved Project plans.

Table 4: Building Separation Setback Requirements

SETBACK FROM	MINIMUM
…	
I-405 Ramp	~~30 ft.~~ 10 ft.

In accordance with Development Agreement Section 12.4, this hereby effectuates the minor modifications set forth above, which were requested and are agreed to by the Applicant. Additionally, Applicant expressly acknowledges and agrees that the indemnification provisions of the Development Agreement (Article 8) and the Specific Plan conditions of approval (Condition No. 10) shall extend to and encompass the minor modifications made hereby. Except as amended hereby, the provisions of the Development Agreement and Specific Plan shall remain unchanged and in full force and effect.

Sincerely,

Saied Naaseh
Director of Community Development
City of Carson

ACKNOWLEDGED AND AGREED:

DEVELOPER
IMPERIAL AVALON, LLC, a California limited liability company

By:_____
Name: Jason Illoulian
Title: Manager

CITY OF CARSON

February 28, 2024

Mr. Dave Rand
Rand Paster & Nelson, LLP
633 West Fifth Street, Suite 5880
Los Angeles, CA 90071

Imperial Avalon, LLC
659 North Robertson
West Hollywood, CA 90069
Attn: Chris Trueblood

Re: Imperial Avalon Specific Plan Development Agreement-Minor Modification Application Request Approval

Dear Mr. Rand:

The City of Carson ("City") is in receipt of your letter dated December 4, 2023 requesting minor modifications to Development Agreement No. 23-19 on behalf of Imperial Avalon LLC, the applicant (the "Applicant") of a proposed mixed use development project consisting of 764 multifamily units, 351 townhomes and 10,000 square feet of commercial uses at 21207 South Avalon Boulevard in the City.

In accordance with Development Agreement Section 12.4, which permits the Community Development Director to ministerially grant "Minor Project Modifications" to the "Agreement, the Project and/or the Development Plans," we have reviewed your requested modifications and hereby grant Minor Modifications for the following provisions of the Development Agreement.

(i) Section 3.1 is modified to as follows:

In lieu of the Developer and the Project opting into Citywide Community Facilities District No. 2018-01 ("CFD") (estimated to have a net present value over the life of this Agreement of approximately fourteen million six hundred fifty-eight thousand three hundred sixty-two dollars ($14,658,362.00) and paying Development Impact Fees pursuant to Ordinance No. 19-1931 (estimated to be approximately thirteen million one hundred twenty-seven thousand fourteen dollars ($13,127,014.00) based on current Project features), Developer shall pay a Development Agreement Fee totaling thirteen million, one hundred twenty seven thousand, and fourteen dollars ($13,127,014.00) (the "Development Agreement Fee") (this includes an additional fee of $2,000 per residential unit multiplied by 1,115 units even if fewer units are constructed pursuant to Section 12.5 (equal to two million two hundred thirty thousand dollars ($2,230,000.00) and includes all applicable City permit and processing fees related to the Project). However, Developer shall not be entitled to a reimbursement of any permit

and plan check fees paid before or as of the Effective Date of the Settlement Agreement and Mutual Release entered into between Developer and City ("Settlement Agreement.") Developer shall pay all permit and plan check fees related to any Project change that requires (a) an amendment to the Development Agreement or (b) a new development agreement. Furthermore, this Agreement shall not affect, excuse or modify Developer's obligation to reimburse the City for costs and fees, including attorneys' fees, incurred by the City as set forth in the First Amended Reimbursement and Indemnification Agreement By and Between City of Carson and Imperial Avalon, LLC, as the same may be amended from time to time by the Parties ("Reimbursement Agreement"), Developer expressly acknowledges the Reimbursement Agreement's definition of "City Costs" includes the cost of any consultants retained by the City to review and evaluate any permits, plans and Development Approvals for the Project. Developer shall have the right, in its sole and absolute discretion, to pay the Development Agreement Fee as prescribed below or cause the Development Agreement Fee contributions and payments to be made by a nonprofit entity in accordance with the terms prescribed by this Agreement. Except as otherwise provided for the Carson Park and Recreation Subsidy in Sections 3.1.1, the amounts prescribed below shall be paid either by the Developer or the nonprofit entity at the City's direction toward specific programs, projects or uses within the following categories: (i) park, recreational and open space site acquisition, facility development and maintenance, (ii) City infrastructure improvements, maintenance and upgrades, and (iii) community recreational benefits and subsidies ("Development Agreement Fee Categories"). The Development Agreement Fee payments are limited to the amounts and subject to the schedule set forth below, unless the Developer and City agree to an earlier payment date, and shall be paid directly from the Developer or the nonprofit entity to the City:

3.1.1 Three hundred thousand dollars ($300,000.00) shall be due upon the Effective Date of this Agreement, and shall be used by City to subsidize Carson residents' fees and costs associated with park and recreational registration, trophies and jerseys ("Carson Park and Recreation Subsidy").

Twelve Million, Eight Hundred Twenty Seven Thousand and Fourteen Dollars ($12,827,014.00) shall be due when the second Apartment building is constructed and paid subject to the following payment schedule for annual installments in the amount of one hundred twenty nine thousand five hundred sixty five dollars and eighty cents ($129,565.80) each: the first payment is due 548 days after the issuance of a certificate of occupancy for the second Apartment building and annually thereafter for ninety eight (98) years (for a total of 99 payments). Payment of the installment payments after the first installment payment shall be due on the anniversary date of the

first installment payment ("Annual Payments").

Developer's obligations to pay the annual installment payments set forth in this Section 3.1.1 shall survive and continue in effect and be binding on the Property and subsequent owners notwithstanding the expiration or termination of any other provisions of this Agreement. In the event of a sale of any portion of the Property, and in addition to City's rights under Article 11 of the Development Agreement and prior to or concurrent with City's consent to any assignment or transfer of the Development Agreement as described in Article 11, Developer shall record a Memorandum outlining the ongoing financial commitments stated in this Section 3.1.1. If any annual installment payment is not paid in full by the annual payment due date ("Defaulted Annual Payment") without demand or notice by City (i) Developer shall pay to the City a late fee of one-thousand dollars ($1,000.00) per day until the Defaulted Annual Payment is paid in full, and (ii) City may exercise all rights and remedies and to maintain any action in law or equity to enforce the terms and covenants of this Agreement.

3.1.2 ~~Five million dollars ($5,000,000.00) shall be due prior to issuance of a grading permit for the Project ("Initial DA Fee Payment"). The City shall have the option to use the Initial DA Fee Payment in whole or in part for low-income housing including but not limited to maintenance and upgrades to, and assistance with the preservation of, existing mobilehome parks located throughout the City.~~

3.1.3 ~~Five million dollars ($5,000,000.00) shall be due prior to issuance of a building permit for the first Townhome to be constructed with the Project~~.

3.1.4 ~~Four million dollars ($4,000,000.00) shall be due prior to issuance of a building permit for the first Apartment building to be constructed within the Project, and a second payment of four million dollars ($4,000,000.00) shall be due upon issuance of a building permit for the second Apartment building to be constructed ,within the Project, and a third payment of four million dollars ($4,000,000.00) shall be due upon issuance of a building permit for the 50th Townhome building to be constructed within the Project.~~

3.1.5 ~~Five million dollars ($5,000,000.00) shall be due within six months following issuance of a certificate of occupancy for the first Apartment building to be constructed within the Project.~~

3.1.6 ~~Two million seven hundred fifteen thousand three hundred and seventy-six dollars ($2,715,376.00) shall be due prior to issuance of a building permit for the 150th Townhome to be constructed within the Project.~~

(ii) Section 3.3 "Affordable Housing Benefit" is deleted in its entirety and replaced with "Intentionally Omitted.

(iii) Section 3.5 "Apartment and Townhome Enhanced Sustainability and Environmental Benefits" is modified as follows:

Developer shall agree to incorporate the following enhanced sustainability and environmental benefits into construction of the Apartments and Townhomes for the Project. In recognition of the enhanced environmental benefits provided by the Project Apartments and Townhomes through this Section 3.5, the City shall subject the Project Apartments and Townhomes to the 2019 California Building Standards Code as applicable to and/or adopted by the City pursuant to CMC Article VIII, provided Developer submits a conceptual design package to the City's Building & Safety Department on the City Building & Safety Department's Online Plan check (BSOP) website prior to January 1, 2023. The conceptual design package shall consist of a schematic set of development and design plans for all disciplines with sufficient detail for the City to undertake zoning compliance review, but shall not be required to include landscaping, structural, energy, accessibility, mechanical, electrical and/or plumbing related plans and design, provided it is within the City's legal discretion to deem such submittal complete as necessary to facilitate such grandfathering under applicable state and local law. A full set of construction plans with all disciplines shall be submitted prior to January 1, 2024 for the Apartments and Townhomes. ~~If the Building & Safety plan check application validity period of one year plus the two six month extension periods thereafter expire prior to issuance of the required permits/approvals (expected to include, without limitation, rough grading approval and building pad/foundation permits), then the plans will expire and will be required to meet the code in effect at the time of such expiration, and new plan check fees will be required.~~ Upon submittal of the full set of construction drawings, the Project shall be subject to the 2019 California Building Standards Code for the Term of this Agreement as specified in Section 2.1.

It is further acknowledged that Developer submitted the necessary construction documents to the City's Building & Safety Department on or before December 11, 2023, prior to the January 1, 2024 deadline, and has therefore fully satisfied the requirements as set forth above in this modified Section 3.5 to subject the entire Project (Townhomes and Apartments) to the 2019 California Building Standards Code for the duration of the Term of the Agreement.

(iv) Section 3.7 "Publicly Accessible Pedestrian Bridge" is deleted in its entirety.

(v) A new Section 3.7 entitled "Existing Pedestrian Bridge" is added which states

the following:

Immediately following approval of the Minor Modification of the Development Agreement, Developer and City shall immediately commence good faith negotiations on improving the existing bridge that crosses the Dominguez Channel and connects Avalon Boulevard with Lenardo Boulevard ("Bridge") . Such negotiations will focus on improvements to the Bridge that will a) create and enhance the pedestrian access between Avalon Boulevard and Lenardo Boulevard; and b) improve the aesthetic appearance of the Bridge and the pedestrian connection between Avalon Boulevard and Lenardo Boulevard. Subject to any requisite approvals from any authority with jurisdiction over the Bridge, such improvements will include, but are not limited to, the following:

(4) removing the existing "PEDESTRIANS PROHIBITED" sign to allow for pedestrian access;
(5) restriping, or otherwise improving the aesthetic appearance of the Bridge;
(6) improving the pedestrian experience between Avalon Boulevard and Lenardo Boulevard through the installation of new landscaping and amenities such as additional wayfinding signage, etc. or other aesthetic improvements; (collectively, the "Improvements").

Developer shall contribute an aggregate amount up to but not to exceed one hundred and twenty-five thousand dollars ($125,000), unless otherwise agreed to by Developer and City in a separate agreement, towards the Improvement no later than five (5) years from the Effective Date of this Agreement.

(v) Section 3.11 "Carson and Avalon 405 Interchange Landscaping Improvement" is deleted in its entirety and replaced with "Intentionally Omitted.".

(vi) Section 3.12 "Purple Pipe" is deleted in its entirety and replaced with "Intentionally Omitted".

(vii) Section 4.7. "Role of Project Development Approvals", as amended by the approved May 24, 2023 Minor Modification, is further amended as follows:

Except as provided within this Agreement, the Project Development Approvals shall exclusively control the uses of the Property, the density or intensity of use, the maximum height and size of proposed buildings, the provisions for reservation or dedication of land for public purposes and the design, improvement, and construction standards and specifications applicable to the Project. Pursuant to Government Code Section 66452.6, the term of any tentative map for the Property or any portion thereof, if any, filed within the term of this Agreement shall automatically be extended for the term of this Agreement, as amended by the Project Development Approvals. In addition, Developer shall have the right to commence Project construction of both the

Apartment buildings and the Townhomes within the Project prior to the recordation of an approved final subdivision map No. 83157 if applicable permits have been issued and all other applicable conditions of approval and Development Agreement provisions are met. However, the approved final subdivision map must be recorded prior to issuance of any certificates of occupancy (temporary or otherwise) for the Project and prior to any occupancy of the Project. Following recordation of the final subdivision map, Temporary certificates of occupancy shall be issued if buildings or units are deemed to have satisfied all applicable fire-life safety components and systems to safely occupy the completed areas as determined by the Building Official. ~~No final certificates of occupancy shall be issued prior to satisfaction of (without limitation) all conditions of approval that are required to be completed "Prior to Issuance of Occupancy Permits" and all applicable Development Agreement provisions.~~

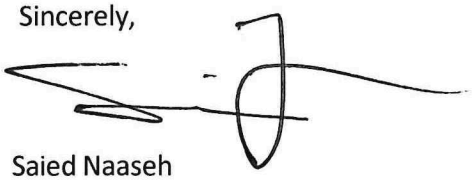
~~Neither the Apartment lots nor the Apartment buildings may be individually sold prior to recordation of the approved final subdivision map No. 83157.~~ To support development of the Project, which may be completed in phases, the City hereby agrees that final certificates of occupancy shall also be issued for each individual Project phase. The anticipated phases consist of: (i) the Townhome component, (ii) the first Apartment building and (iii) the second Apartment building, respectively. Any tentative map prepared for the Project subdivision will comply with Government Code Section 66473.7

B. Within thirty (30) days after the closing of the loan Developer obtains to fund the development of the Project, the Developer shall record with the Los Angeles County Recorder's Office the Minor Modification signed by the Community Development Director and provide to the City a copy of the recorded Minor Modification bearing a recording stamp affixed by the Los Angeles County Recorder's Office.

***

In accordance with Development Agreement Section 12.4, this hereby modifies and memorializes the changes requested by the Applicant and identified above.

Sincerely,



Saied Naaseh
Director of Community Development
City of Carson

CITY OF CARSON

June 10, 2024

Mr. Dave Rand
Rand Paster & Nelson, LLP
633 West Fifth Street, Suite 5880
Los Angeles, CA 90071

Imperial Avalon, LLC
4276 Katella Avenue, #231
Los Alamitos, CA 90720
Attn: Darren Embry

Re: Imperial Avalon Mixed-Use Project – Approval of Minor Modifications to Development Agreement, Conditions of Approval, and MMRP

Dear Mr. Rand:

Imperial Avalon LLC (the "Applicant") has requested to further modify the proposed mixed use development project consisting of 764 multifamily units, 351 townhomes, and 10,000 square feet of commercial uses at 21207 South Avalon Boulevard ("Property") in the City of Carson ("City") (the "Project").

In the interest of ensuring flexibility in the midst of a challenging economic environment, and to allow for potential transfer of the Townhome portion of the Property to an experienced residential single family home builder, the City agrees to issue a Minor Modification to the Development Agreement and related Project conditions of approvals as set forth below. In addition, certain technical changes to the Project conditions of approval are necessary to reflect that the City no longer contracts with the County of Los Angeles for subdivision map condition clearance related purposes. Thus, these changes will reflect that the City (through its outside third party consultant, Transtech) will now be primarily responsible for clearing subdivision related conditions of approval.

Therefore, in accordance with Section 12.4 of Development Agreement No. 23-19, as modified ("Development Agreement"), which permits the Community Development Director to ministerially grant "Minor Project Modifications" to the "Agreement, the Project and/or the Development Plans," we have reviewed the requested modifications and hereby grant Minor Modifications for the following provisions of (1) the Development Agreement; (2) the Conditions of Approval for Imperial Avalon Site Plan and Design Review No. DOR 1803-19, Exhibit "B" of Planning Commission Resolution No. 22-2846 ("DOR COAs"); (3) the Conditions of Approval for Imperial Avalon Vesting Tentative Tract Map 83157, Exhibit "C" of Planning Commission Resolution No. 22-2846 ("VTTM COAs"); and (4) the Mitigation Monitoring and Reporting Program Table included as Section 4.2 in the Final Environmental Impact Report for the Project (SCH# 2021010116) ("MMRP"), which were incorporated into the Project.

Deleted text is in ~~strikethrough~~ and added text is in **bold underline** where existing language is referenced.

Revisions to Development Agreement

1. Section 3.9 of the Development Agreement, entitled "Art Benefit," is deleted and replaced in its entirety with the following:

"**3.9 Art Benefit.**

a. **Apartments.** Prior to issuance of **any certificates of occupancy** ~~the first building permit for the Townhomes and prior to issuance of building permits~~ for each of the two Apartment buildings, the Developer shall pay a public art fee equal to one percent (1%) of the total building valuation ~~for all Townhomes and each of the two~~ **for the respective** Apartment buildings ~~(i.e., all Project buildings)~~ as determined by the City's Building Official in accordance with the Marshall-Swift Valuation Guide per the City Building Official's standard practice ("~~Project~~ **Apartment** Art Fee").

In lieu of paying the **Apartment** ~~Project~~ Art Fee, Developer may incorporate on-site art **("Apartment Art")**, including but not limited to art within the exterior north side of the Project facing the 405 freeway, to the satisfaction of the Director, in which case Developer shall submit a ~~Project~~ **Apartment** Art plan, valuation, and implementation plan to the Director prior to issuance of the first ~~Project building permit~~ **certificate of occupancy for the respective Apartment building**. Unless otherwise approved by the Director pursuant to the **Apartment** Art implementation plan, Developer's on-site **Apartment** art which corresponds to a particular building shall be installed prior to the issuance of a **final** certificate of occupancy for the respective buildings~~, and art that does not correspond to any particular building shall be installed within six months following issuance of the certificate of occupancy for the first Apartment building constructed as part of the Project.~~ Individual art valuations shall be submitted for each ~~Project~~ building ~~prior to issuance of building permits for the respective buildings~~. Should the value of Developer's onsite **Apartment** art be less than one percent (1%) of the total building valuation for **each of the two Apartment buildings, respectively,** ~~the entire Project as described above~~, then Developer shall pay the City the difference in its entirety prior to issuance of the **final** certificate of occupancy for the ~~150th Townhome constructed as part of the Project~~ **respective Apartment building**.

b. **Townhomes.** Prior to issuance of **any certificates of occupancy** ~~the first building permit~~ for the Townhomes ~~and prior to issuance of building permits for each of the two Apartment buildings~~, the Developer shall pay a public art fee equal to one percent (1%) of the total building valuation for all Townhomes ~~and each of the two Apartment buildings (i.e., all Project buildings)~~ as determined by the City's Building Official in accordance with the Marshall-Swift Valuation Guide per the City Building Official's standard practice ("~~Project~~ **Townhome** Art Fee").

In lieu of paying the **Townhome** ~~Project~~ Art Fee, Developer may incorporate on-site art **("Townhome Art")**, including but not limited to art within the exterior north side of the Project facing the 405 freeway, to the satisfaction of the Director, in which case Developer shall submit a ~~Project~~ **Townhome** Art plan, valuation, and implementation plan to the Director prior to issuance of the first ~~Project building permit~~ **certificate of occupancy for the Townhomes**.

Unless otherwise approved by the Director pursuant to the **Townhome** Art implementation plan, Developer's on-site **Townhome** art ~~which corresponds to a particular building~~ shall be installed prior to the issuance of a **final** certificate of occupancy for the **Townhomes** ~~respective buildings and art that does not correspond to any particular building shall be installed within six months following issuance of the certificate of occupancy for the first Apartment building constructed as part of the Project. Individual art valuations shall be submitted for each Project building prior to issuance of building permits for the respective buildings~~. Should the value of Developer's onsite **Townhome** art be less than one percent (1%) of the total building valuation for **Townhomes** ~~the entire Project as described above~~, then Developer shall pay the City the difference in its entirety prior to issuance of the certificate of occupancy for the 150th Townhome constructed as part of the Project.

2. Subsection (i) is hereby added to Section 9.1 of the Development Agreement, entitled "Types of Insurance," and shall read as follows:

"i. **Partial Transfer of Property**. In the event Developer transfers ownership of any portion of the Property ("Transferred Property"), Developer and the owner of the Transferred Property shall each be responsible for compliance with this Section 9, but shall only be required to insure their respective parcels, rather than the entire Property. To the extent Developer or owner of the Transferred Property perform work on portions of the Property not owned by them, then such party shall be responsible to comply with Section 9 for the full extent of the work area until the work is completed."

3. The following is hereby added to Section 3.10 of the Development Agreement, entitled "**Traffic Signal**," and shall read as follows:

"In addition to the traffic signal at the Project entry location on Avalon Boulevard between the I-405 interchange and 213th Street, Developer is responsible to signalize the currently stop-controlled Grace Avenue/213th Street intersection per MMRP PDF-TRA-2 ("Grace Avenue/213th Street Signalization"). In lieu of signalizing the intersection, Developer may pay an in-lieu fee of Seven Hundred and Fifty Thousand Dollars ($750,000) to the City. The in-lieu fee shall be payable as follows: One Hundred Thousand Dollars ($100,000) shall be due prior to issuance of any Building Permit for the Project and Six Hundred and Fifty Thousand Dollars ($650,000) shall be due prior to issuance of any Certificate of Occupancy for the Project in order to satisfy the requirement. The amount prescribed shall be used by the City to upgrade the Grace Avenue/213th Street intersection."

Revisions to DOR COAs

1. DOR COA 16 is modified as follows:

"Adequate measures shall be taken to eliminate odors during the grading operations ~~as a result of the site being a former landfill~~ to the satisfaction of the Community Development Director."

2. DOR COA 19 is modified as follows:

"Prior to issuance of ~~any~~ building permits **for the Apartments**, the Applicant shall provide **onsite** landscape plans **for the Apartments** to the Planning Division for review and approval ~~for all areas of the site~~. **Prior to issuance of building permits for the Townhomes, the Applicant shall provide onsite landscape plans for the Townhomes to the Planning Division for review and approval**. ~~In lieu of installation of the entire landscaping on the site prior to issuance of occupancy permits, t~~The Community Development Director ~~may~~ **shall** approve a phased landscape installation plan **as submitted by the developer of the Townhome and/or Apartment component of the project** to ~~require~~ **allow** a phased installation of landscaping prior to issuance of occupancy permits of various portions of the project."

3. DOR COA 20 is modified as follows:

"Installation, maintenance, and repair of all **onsite** landscaping shall be the responsibility of the Applicant **for each phase**. ~~All landscaping shall be installed prior to issuance of any occupancy permits. The Community Development Director may approve a phased installation of the landscaping.~~"

4. DOR COA 28 is modified as follows:

"Prior to the issuance of any building permits **for the Apartments**, the applicant shall submit a Wall and Fence Plan **for the Apartments** to the Planning Division for review and approval by the Planning and Building Divisions ~~for all areas of the site~~. **Prior to the issuance of any building permits**

for the Townhomes, the applicant shall submit a Wall and Fence Plan for the Townhomes to the Planning Division for review and approval by the Planning and Building Divisions. The plans shall indicate materials colors and height of proposed and existing walls and fences and shall include a cross section of walls and fences indicating adjacent grades. Walls shall be consistent with the requirements of the Specific Plan. In lieu of construction of ~~all~~ walls and fences ~~on the site~~ prior to issuance of any occupancy permits, the Community Development Director ~~may~~ **shall** approve a phased construction plan for the walls and fences **as submitted by the developer of the Townhome and/or Apartment component of the project to allow for phased construction of all walls and fences** prior to issuance of occupancy permits of various portions of the project."

5. DOR COA 31 is modified as follows:

"Two sets of **onsite** lighting plans **for the Apartments** are to be drawn, stamped, and signed by a licensed lighting consultant **or an electrical engineer** and submitted and approved by the Planning Division prior to the issuance of building permits **for the Apartments**. **Two sets of onsite lighting plans for the Townhomes are to be drawn, stamped, and signed by a licensed lighting consultant or an electrical engineer and submitted and approved by the Planning Division prior to the issuance of building permits for the Townhomes**. In lieu of installation of all lights on the site prior to issuance of any occupancy permits, the Community Development Director ~~may~~ **shall** approve a phased installation plan **as submitted by the developer of the Townhome and/or Apartment component of the project to allow** for the **phased installation of** lights prior to issuance of occupancy permits of various portions of the project."

6. DOR COA 33 is modified as follows:

"Prior to issuance of any ~~building~~ **certificates of occupancy** ~~permits~~ **for the Apartments**, the Applicant shall submit a Comprehensive Sign Program **for the Apartments** consistent with the Specific Plan and Development Agreement. **Prior to issuance of any certificates of occupancy for the Townhomes, the Applicant shall submit a Comprehensive Sign Program for the Townhomes consistent with the Specific Plan and Development Agreement. The Comprehensive Sign Program shall reflect a consistent design aesthetic between the Apartments and the Townhomes.**

7. DOR COA 34 is modified as follows:

"Prior to issuance of ~~building~~ **any certificates of occupancy** ~~permits~~, the Applicant shall provide plans to the Planning Division for approval of entry monument signage consistent with the Comprehensive Sign Program."

8. DOR COA 35 is modified as follows:

"Prior to issuance of ~~building~~ **any certificates of occupancy** ~~permits~~ **for the Apartments**, the Applicant shall provide plans to the Planning Division for approval of Directional/wayfinding signage consistent with the Comprehensive Sign Program **for the Apartments**. **Prior to issuance of any certificates of occupancy for the Townhomes, the Applicant shall provide plans to the Planning Division for approval of Directional/wayfinding signage consistent with the Comprehensive Sign Program for the Townhomes**."

9. DOR COA 36 is modified as follows:

"~~All signs shall be installed prior of any issuance of occupancy permits.~~ In lieu of installation of all signage on the site prior to issuance of any occupancy permits, the Community Development Director ~~may~~ **shall** approve a phased installation plan **as submitted by the developer of the Townhome and/or**

Apartment component of the project to allow for the **phased installation of** signs prior to issuance of occupancy permits of various portions of the project."

10. DOR COA 44 is modified as follows:

"The Applicant shall comply with all conditions and requirements imposed in connection with recordation of the Final Tract Map by the County of Los Angeles Department of Public Works and/or the ~~County of Los Angeles Department of Public Works~~ **City**, as approved by the City Engineer."

11. DOR COA 50 is modified as follows:

"All infrastructure necessary to serve the ~~Project~~ **Townhomes** (water, sewer, storm drain, and street improvements) **shall be in operation prior to issuance of any certificates of occupancy for the Townhomes. All infrastructure necessary to serve either Apartment building (water, sewer, storm drain, and street improvements) shall be in operation prior to the issuance of certificates of occupancy for the respective Apartment building.** ~~shall be in operation prior to the issuance of Certificate of Occupancy of any building~~."

12. DOR COA 54 is modified as follows:

"Applicant shall submit digital copies of SUSMP/LID/NPDES/Grading Plans ~~concurrently~~ to City of Carson, Engineering Services Department ~~and Los Angeles County Building & Safety Division~~."

Revisions to VTTM COAs

1. VTTM COA 10 is modified as follows:

"No demolition or grading permits shall be issued prior to Vesting Tentative Tract Map clearance by City of Carson Building & Safety. ~~Los Angeles County Department of Public Works~~.

2. VTTM COA 17 is modified as follows:

"Adequate measures shall be taken to eliminate odors during the grading operations ~~as a result of the site being a former landfill~~ to the satisfaction of the Community Development Director."

3. VTTM COA 31 is modified as follows:

"A Construction bond for all work to be done within the public right of way shall be submitted and approved by Engineering Division prior to ~~approval of the Final Map~~ **issuance of building permits for the Project**. **No offsite work shall take place prior to posting the Construction bond.**"

4. VTTM COA 33 is modified as follows:

"CC&R's (covenants, conditions, and restrictions) **or REAs (reciprocal easement and maintenance agreements)** to address drainage responsibilities are required."

5. VTTM COA 41 is modified as follows:

"The Developer shall submit drainage/grading plans, prepared by a registered Civil Engineer, to ~~Los Angeles County Department of Public Works (LACDPW)~~ **City of Carson Building&Safety** and obtain approvals to the satisfaction of ~~LACDPW~~ **City of Carson Building&Safety**.

6. VTTM COA 44 is modified as follows:

"The Developer shall send a print of the development map to the County Sanitation District, to request for annexation. The request for annexation **for the Townhomes must be approved (and annexation granted) prior to issuance of any certificates of occupancy for the Townhomes. The request for annexation for either of the Apartment buildings** must be approved **(and annexation granted)** prior to ~~Final Map approval~~ **issuance of any certificates of occupancy for the respective Apartment Building**."

7. VTTM COA 63 is modified as follows:

"The Developer shall annex the area to the L.A. County Lighting Maintenance District, for the purpose of operating and maintaining the streetlights to be installed **but only for offsite streetlights in the public right of way**. The annexation shall be to the satisfaction of L.A. County and shall be completed prior to the issuance of **final** Certificate**s** of Occupancy. Additional streetlight installation or upgrade to existing streetlights may be required as part of the annexation."

8. VTTM COA 65 is modified as follows:

"Prior to the issuance of Building Permit the proposed development is subject to the following:

a) Per City of Carson ordinance 5809 developer shall comply with all applicable Low Impact Development (LID) requirements and shall include Best Management Practices necessary to control storm water pollution from construction activities and facility operations to the satisfaction of the City Engineer.

b) Developer shall apply for a Construction Activities Stormwater General Permit from the State Water Resources Control Board.

c) Developer shall provide a copy of an approved SWPPP stamped by **the City and/or the** Los Angeles County Building and Safety Division along with WDID number.

d) Developer shall provide contact information of the Qualified Storm Water Developer (QSD) and/or Qualified SWPPP (Storm Water Pollution Prevention Plan) Developer (QSP) of the site to **Roland Jen** via E-mail **RJen**@Carson.ca.us

e) Developer shall submit digital copies of the LID/NPDES/Grading Plans, hydrology and Hydraulic analysis concurrently to City of Carson, Engineering Services Department and Building & Safety Division. Deliver copy to **Roland Jen** via E-mail **RJen**@Carson.ca.us

f) Developer shall complete, sign and return the Stormwater Planning Program LID Plan Checklist form and return to City of Carson Engineering Services Division.

9. VTTM COA 71 is modified as follows:

"Comply with the approved hydrology study, or the latest revision, to the satisfaction of **City of Carson Building&Safety.** ~~Public Works~~"

10. VTTM COA 73 is modified as follows:

"The final map must be approved by the **City of Carson Building&Safety's designated geotechnical expert** ~~Geotechnical and Materials Engineering Division (GMED)~~ to assure that all geotechnical requirements have been properly depicted."

11. VTTM COA 74 is modified as follows:

"Submit a grading plan **to the City of Carson Building&Safety** for approval. Also, acknowledgment and/or approval from all easement holders may be required."

12. VTTM COA 75 is modified as follows:

"Prior to approval of the grading plan, provide approval of the latest hydrology study ~~by~~ **to** the City **of Carson Building&Safety**."

13. VTTM COA 77 is modified as follows:

"**In order to ensure access to the Townhomes from Avalon Blvd through the Apartment lots, the rough grading of the site shall be completed for the entire Property. Notwithstanding the foregoing, the inspection and signoff of individual rough-graded pads for the Townhomes and/or either Apartment lot, respectively, can be obtained for individual rough-graded pads during the rough-grading effort.** Prior to approval of the grading plan, provide approval of any permits and/or letter of non-jurisdiction from all State and Federal Agencies as applicable. These agencies may include; the State of California Regional Water Quality Control Board, the State of California Department of Fish and Wildlife, the State of California Department of Conservation, the California Geologic Energy Management, and the Army Corps of Engineers."

14. VTTM COA 87 is modified as follows:

"Prior to **any** ~~final~~ **certificates of occupancy** ~~map approval~~, enter into an agreement with the **local**-franchised cable TV operator (if an area is served) to permit the installation of cable in a common utility trench or provide documentation that steps to provide cable TV to the proposed subdivision have been initiated."

15. VTTM COA 89 is modified as follows:

"Comply with the street lighting conditions as stipulated in the enclosed memorandum dated February 1, 2022, from Los Angeles County Public Works, Traffic Safety and Mobility Division (Street Lighting Section), and/or any of the City's street lighting requirements. **Per the memorandum, the County Lighting Districts cannot assume responsibility for streetlights located within gated communities or on roadways designated as a private or private-future street.**"

16. VTTM COA 94 is modified as follows:

"~~Remove existing buildings prior to final map approval.~~ Demolition permits and final sign-off from the building inspector are required from the local Building and Safety office."

17. VTTM COA 97 is modified as follows:

"The ~~project area~~ **installation of new street lights in the public right of way** will ~~be~~ required ~~to~~ **annexation into** ~~be annexed to~~ the County Lighting Maintenance District serving the City of Carson.

Therefore, submit a street lighting plan showing existing **offsite** streetlight**s in the right of way** for the annexation process prior to **issuance of any** certificate**s** of occupancy."

18. VTTM COA 98 is modified as follows:

"Upon submittal of street lighting plans(s) (**offsites** ~~subdivision~~ only), the applicant shall comply with conditions of annexation in order for the light districts to pay for the future operation and maintenance of the streetlights. The annexation and the levy of assessment require the approval of the Board of Supervisors prior to Public Works approving street lighting plans. It is the sole responsibility of the owner/developer of the project to have all street lighting plans approved prior to ~~the map recordation~~ **the issuance of any certificates of occupancy**. The required street lighting improvements shall be the sole responsibility of the owner/developer of the project and the installation must be accepted per approved plans. If phasing of the project is approved, the required street lighting improvements shall be the sole responsibility of the owner/developer of the project and will be made a condition of approval to be in place for each phase."

19. VTTM COA 99 is modified as follows:

"Provide business/property owners name, mailing address, site address, Accessor Parcel Number, and Parcel Boundaries in Auto CADD format to be developed to Street Lighting Section **for any new street lights in the public right of way prior to issuance of any certificates of occupancy**."

20. VTTM COA 100 is modified as follows:

"Submit map of the proposed project including any roadways condition for streetlights to Street Lighting Section **for any new street lights in the public right of way prior to issuance of final certificates of occupancy**. Contact Street Lighting Section for map requirements and/or questions at (626) 300-4726."

21. VTTM COA 101 is modified as follows:

"~~The area~~ **Prior to issuance of any certificates of occupancy, any new offsite street lights** must be annexed into the lighting district and all streetlight**s** in the project, or the approved phase of the project, must be constructed according to **City** ~~Public Works~~ approved plans. The contractor shall submit one complete set of "as-built" plans. The lighting district can assume the responsibility for the operation and maintenance of the **offsite** streetlights by July 1st of any given year, proved the above conditions are met, all streetlight**s** in the project, or approved project phase, have been constructed per **City** ~~Public Works~~ approved plan and energized and the owner/developer has requested a transfer of billing **for offsite street lights** at least by January 1st of the previous year. The transfer of billing could be delayed one or more years if the above conditions are not met."

22. VTTM COA 102 is deleted in its entirety and replaced with "Intentionally Omitted."

Revisions to MMRP

1. Mitigation Measure PDF-HAZ-1, "Soil Management Plan," is modified as follows, on the grounds that the Los Angeles County Health Hazardous Materials Division (HHMD) is not accepting voluntary submittals of Soil Management Plans, so this mitigation measure is infeasible as originally written:

Mitigation Measure	Implementation Timing	Agency Responsible for Monitoring
PDF-HAZ-1. Soil Management Plan. The Project Applicant shall prepare a Soil Management Plan that is submitted and approved by the ~~Los Angeles County Health Hazardous Materials Division (HHMD)~~ **City**. The Soil Management Plan shall be prepared by a qualified environmental consultant, consistent with the findings of the June 17, 2019 AEC Phase I and II Environmental Site Assessment, or any updates to that report. • During construction, the contractor shall implement the Soil Management Plan. If unidentified or suspected contaminated soil or groundwater evidenced by stained soil, noxious odors, or other factors, is encountered during site preparation or construction activities on any portion of the Project site, the contractor shall stop in the excavation area of potential contamination and notify **the Los Angeles County Health Hazardous Materials Division** (HHMD). Following oversight from HHMD, the applicant shall retain a qualified professional to collect soil samples to confirm the type and extent of contamination if deemed necessary by HHMD. • If contamination is confirmed to be present, any further ground disturbing activities within areas of identified or suspected contamination shall be conducted according to a site-specific health and safety plan, prepared by a California state licensed professional. The contractor shall follow all procedural direction given by HHMD and in accordance with the Soil Management Plan to ensure that suspect soils are isolated, protected from runoff, and disposed of in accordance with transport laws and the requirements of the licensed receiving facility. • If contaminated soil or groundwater is encountered and identified constituents exceed human health risk levels, ground disturbing activities shall not recommence within the contaminated areas until remediation is complete and a "no further action" letter is obtained from the appropriate regulatory agency or direction is otherwise given that construction can commence. The Project Applicant shall submit the "no further action" letter or equivalent notification to the City prior to resumption of any ground disturbing activity on the relevant portion of the Project site.	**Approval of Soil Management Plan** Prior to issuance of grading permit(s) **Implementation of Soil Management Plan** During any ground disturbing activities	~~Los Angeles County Health Hazardous Materials Division~~/City of Carson/ **Los Angeles County Health Hazardous Materials Division (Only If Needed)**

In accordance with Development Agreement Section 12.4, this hereby modifies and memorializes the changes requested by the Applicant and identified above.

Sincerely,

Saied Naaseh
Director of Community Development
City of Carson

CITY OF CARSON

May 8, 2025

Mr. Dave Rand
Rand Paster & Nelson, LLP
633 West Fifth Street
Suite 5880
Los Angeles, CA 90071

Imperial Avalon, LLC
4276 Katella Avenue, #231
Los Alamitos, CA 90720
Attn: Darren Embry

Re: Imperial Avalon Mixed-Use Project – Approval of Minor Modifications to Development Agreement

Dear Mr. Rand:

Imperial Avalon LLC (the "Applicant") has requested to further modify the proposed mixed use development project consisting of 764 multifamily units, 351 townhomes, and 10,000 square feet of commercial uses at 21207 South Avalon Boulevard ("Property") in the City of Carson ("City") (the "Project").

In accordance with Development Agreement Section 12.4, which permits the Community Development Director to ministerially grant certain "Minor Project Modifications" to the "Agreement, the Project and/or the Development plans," we have reviewed your requested modifications and hereby grant the following Minor Modifications to the following provision of the Development Agreement.

Deleted text is in ~~strikethrough~~ and added text is in **bold underline**.

Revisions to Development Agreement

1. Subsection (a) of Section 3.5, entitled "Apartment and Townhome Enhanced Sustainability and Environmental Benefits," is hereby revised as follows:

~~"a. **Photovoltaic Panels.** Developer shall incorporate approximately 35,000 square feet (total) photovoltaic panels located on the rooftop of the Project parking structure for the Apartments and shall provide conduit and wiring for an additional twenty thousand (20,000) square feet of Apartment building rooftop to accommodate potential future solar panel installation.~~

a. Refrigerant Requirements and Additional EVCS Requirements for Apartments.

(i) Notwithstanding the first paragraph of Section 3.5, the Apartments shall comply with Sections 1104.6.1 through 1104.6.2.4, inclusive,

of the 2022 California Mechanical Code ("CMC") (including the July 1, 2024 Supplement), attached to the Minor Modification dated May 8, 2025, as Exhibit A, which specify the type of refrigerant to be used for air conditioning systems and provide enhanced environmental benefits as compared to the requirements of the 2019 CMC.

(ii) In addition to the 15% of Apartment building parking spaces requiring full EVCS with EV chargers installed under subsection 3.5(b), an additional five percent (5%) of the Apartment parking spaces (otherwise required to only have conduit and wiring for future EVCS installation under subsection 3.5(b)) shall have full EVCS with EV chargers installed.

(iii) Notwithstanding any other provision of this subsection 3.5(a), the Apartments shall comply with the 2019 California Building Code requirements, including requirements related to providing conduit to ensure the Apartments are solar-ready for future installations. Where there are inconsistencies between the requirements of this Agreement and the 2019 California Building Code, Developer shall comply with the requirements of the 2019 California Building Code with the Los Angeles County Amendments.

(iv) This subsection 3.5(a) does not alter or modify any requirement applicable to the Townhomes."

***

In accordance with Development Agreement Section 12.4, this hereby modifies and memorializes the changes requested by the Applicant and identified above.

Sincerely,

Saied Naaseh
Director of Community Development
City of Carson

Exhibit A

Excerpts from 2022 California Mechanical Code (including the July 1, 2024 Supplement)

1104.6 Group A2L Refrigerants for Human Comfort. *High-probability systems using Group A2L refrigerants for human comfort applications shall comply with this section. [ASHRAE 15:7.6]*

1104.6.1 Refrigerant Concentration Limits. *Occupied spaces shall comply with the releasable charge limitations of the equipment listing and ASHRAE 15. Unoccupied spaces with refrigerant containing equipment, not including continuous piping or tubing, shall comply with the releasable charge limitations of the equipment listing or Section 1104.6.4. {ASHRAE 15:7.6.1-7.6.1.2}*

1104.6.2 Listing and Installation Requirements. *Refrigeration systems shall be listed and shall be installed in accordance with listing, the manufacturer's instructions, and any markings on the equipment restricting the installation. [ASHRAE 15:7.6.2]*

1104.6.2.1 Nameplate. *The nameplate required by Section 1115.5 shall include a symbol indicating that a flammable refrigerant is used, as specified by the product listing. [ASHRAE 15:7.6.2.1]*

1104.6.2.2 Labeling. *A label indicating a flammable refrigerant is used shall be placed adjacent to service ports and other locations where service involving components containing refrigerant is performed, as specified by the product listing. [ASHRAE 15:7.6.2.2]*

1104.6.2.3 Refrigerant Detection Systems. *Refrigerant detection systems shall be in accordance with the listing and ASHRAE 15.*

1104.6.2.4 Refrigerant Concentration Above Limit. *When the refrigerant detection system senses a refrigerant exceeding its setpoint, the following actions shall be taken:*

(1) The supply air fan of the equipment shall activate with a minimum airflow rate specified by the manufacturer.

(2) Turn off the compressor and all other electrical devices, excluding the control power transformers, control systems, and the supply air fan. The supply air fan shall continue to operate for at least five minutes after the refrigerant detection system has sensed a drop in the refrigerant concentration below the value specified in Section 1104.6.6(b).

Exception: The compressor operation shall not be turned off when the compressor operation reduces the leak rate or the total amount of released refrigerant to the indoor space.

(3) Any device that controls airflow located within the product or in ductwork that supplies air to the occupied space shall be fully open. Any device that controls airflow shall be listed.

(4) Mitigation action required by the equipment listing shall be initiated {ASHRAE 15:7.6.2.4}

CITY OF CARSON

February 4, 2026

Mr. Dave Rand
Rand Paster & Nelson, LLP
633 West Fifth Street
Suite 5880
Los Angeles, CA 90071

Imperial Avalon, LLC
659 North Robertson
West Hollywood, CA 90069
Attn: Chris Trueblood

RE: Imperial Avalon Specific Plan Development Agreement – Minor Modification Approval

Mr. Rand,

As you know, the City of Carson ("City") and Imperial Avalon LLC ("Developer") entered into an Amended and Restated Settlement Agreement and Mutual Release ("Amended Settlement Agreement") on or about January 12, 2026, concerning Development Agreement No. 23-19 ("Development Agreement") for a proposed mixed use development project at 21207 South Boulevard in the City. Furthermore, Exhibit "B" of Planning Commission Resolution No. 22-244 imposes Conditions of Approval on Imperial Avalon Site Plan and Design Review No. DOR 1803-19 ("DOR COAs"), and Exhibit "C" of Planning Commission Resolution No. 22-244 imposes Conditions of Approval on Imperial Avalon Vesting Tentative Tract Map 83157 ("VTTM COAs"). Section 12.4 of the Development Agreement permits the Community Development Director to ministerially grant "Minor Project Modifications" to the "Agreement, the Project and/or the Development Plans." The City hereby grants Minor Modifications to the Development Agreement, DOR COAs, and VTTM COAs, as stated below.

The Minor Modifications granted below are an amendment and restatement of the Minor Modifications approved by the City on February 28, 2024 ("February 28, 2024, Minor Modifications"). As of the date of this letter, the February 28, 2024, Minor Modifications shall be null and void and such modifications shall be replaced in their entirety with the Minor Modifications in this letter.

Section 3.1, "Comprehensive Development Agreement Fee," is deleted in its entirety and replaced with the following:

> "3.1 Carson Park and Recreation Subsidy. Three Hundred Thousand Dollars ($300,000) shall be due from Developer to City upon the Effective Date of this Agreement, and shall be used by City to subsidize Carson residents' fees and costs associated with park and recreational registration, trophies and jerseys "Carson Park and Recreation Subsidy"). As of the effective date of the January 2026 Minor Modification to this Agreement, Developer and City acknowledge and agree that this obligation has been satisfied."

Section 3.2, "Nonprofit Entity," is deleted in its entirety.

Section 3.3, "Affordable Housing Benefit," is deleted in its entirety.

The first paragraph of Section 3.5, "Apartment and Townhome Enhanced Sustainability and Environmental Benefits," is modified as follows:

> Developer shall agree to incorporate the following enhanced sustainability and environmental benefits into construction of the Apartments and Townhomes for the Project. In recognition of the enhanced environmental benefits provided by the Project Apartments and Townhomes through this Section 3.5, the City shall subject the Project Apartments and Townhomes to the 2019 California Building Standards Code as applicable to and/or adopted by the City pursuant to CMC Article VIII, provided Developer submits a conceptual design package to the City's Building & Safety Department on the City Building & Safety Department's Online Plan check (BSOP) website prior to January 1, 2023. The conceptual design package shall consist of a schematic set of development and design plans for all disciplines with sufficient detail for the City to undertake zoning compliance review, but shall not be required to include landscaping, structural, energy, accessibility, mechanical, electrical and/or plumbing related plans and design, provided it is within the City's legal discretion to deem such submittal complete as necessary to facilitate such grandfathering under applicable state and local law. A full set of construction plans with all disciplines shall be submitted prior to January 1, 2024 for the Apartments and Townhomes. ~~If the Building & Safety plan check application validity period of one year plus the two six-month extension periods thereafter expire prior to issuance of the required permits/approvals (expected to include, without limitation, rough grading approval and building pad/foundation permits), then the plans will expire and will be required to meet the code in effect at the time of such expiration, and new plan check fees will be required.~~ **Upon submittal of the full set of construction drawings, the Project shall be subject to the 2019 California Building Standards Code for the Term of this Agreement as specified in Section 2.1. It is further acknowledged that Developer submitted the necessary construction documents to the City's Building & Safety Department on or before December 11, 2023, prior to the January 1, 2024 deadline, and has therefore fully satisfied the requirements as set forth above in this modified Section 3.5 to subject the entire Project (Townhomes and Apartments) to the 2019 California Building Standards Code for the duration of the Term of the Agreement.**

Section 3.7, "Publicly Accessible Pedestrian Bridge," is deleted and replaced in its entirety with the following:

> "**3.7 Existing Pedestrian Bridge.** Immediately following approval of the Minor Modification of the Development Agreement, Developer and City shall immediately commence good faith negotiations on improving the existing bridge that crosses the Dominguez Channel and connects Avalon Boulevard with Lenardo Boulevard ("Bridge"). Such negotiations will focus on improvements to the Bridge that will a) create and enhance the pedestrian access between Avalon Boulevard and Lenardo Boulevard; and b) improve the aesthetic appearance of the Bridge and the pedestrian connection between Avalon Boulevard and Lenardo Boulevard. Subject to any requisite approvals from any authority with jurisdiction over the Bridge, such improvements will include, but are not limited to, the following:
>
> (1) removing the existing "PEDESTRIANS PROHIBITED" sign to allow for pedestrian access;
>
> (2) restriping, or otherwise improving the aesthetic appearance of the Bridge;

(3) improving the pedestrian experience between Avalon Boulevard and Lenardo Boulevard through the installation of new landscaping and amenities such as additional wayfinding signage, etc. or other aesthetic improvements (collectively, the "**Improvements**").

Developer shall contribute an aggregate amount up to but not to exceed one hundred and twenty-five thousand dollars ($125,000), unless otherwise agreed to by Developer and City in a separate agreement, towards the Improvement no later than five (5) years from the Effective Date of this Agreement."

Section 3.11, "Carson and Avalon 405 Interchange Landscaping Improvement," is deleted in its entirety.

Section 3.12, "Purple Pipe," is deleted in its entirety.

Section 4.7, "Role of Project Development Approvals," as amended by the approved May 24, 2023, Minor Modification, is further amended as follows:

Except as provided within this Agreement, the Project Development Approvals shall exclusively control the uses of the Property, the density or intensity of use, the maximum height and size of proposed buildings, the provisions for reservation or dedication of land for public purposes and the design, improvement, and construction standards and specifications applicable to the Project. Pursuant to Government Code Section 66452.6, the term of any tentative map for the Property or any portion thereof, if any, filed within the term of this Agreement shall automatically be extended for the term of this Agreement, as amended by the Project Development Approvals. In addition, Developer shall have the right to commence Project construction of both the Apartment buildings and the Townhomes within the Project prior to the recordation of an approved final subdivision map No. 83157 if applicable permits have been issued and all other applicable conditions of approval and Development Agreement provisions are met. However, the approved final subdivision map must be recorded prior to issuance of any certificates of occupancy (temporary or otherwise) for the Project and prior to any occupancy of the Project. Following recordation of the final subdivision map, Temporary certificates of occupancy shall be issued if buildings or units are deemed to have satisfied all applicable fire-life safety components and systems to safely occupy the completed areas as determined by the Building Official. ~~No final certificates of occupancy shall be issued prior to satisfaction of (without limitation) all conditions of approval that are required to be completed "Prior to Issuance of Occupancy Permits" and all applicable Development Agreement provisions. Neither the Apartment lots nor the Apartment buildings may be individually sold prior to recordation of the approved final subdivision map No. 83157.~~ **To support development of the Project, which may be completed in phases, the City hereby agrees that final certificates of occupancy shall also be issued for each individual Project phase. The anticipated phases consist of: (i) the Townhome component, (ii) the first Apartment building and (iii) the second Apartment building, respectively.** Any tentative map prepared for the Project subdivision will comply with Government Code Section 66473.7.

Subsections (c) and (d) of Section 5.8, "Fees, Taxes, and Assessment," are amended as follows:

c. **Master Community Facilities District.** On November 7, 2018, the City formed a Master CFD entitled City of Carson Community Facilities District No. 2018-01 (Maintenance and Services) (the "**Master CFD**") for the purpose of funding the maintenance of public infrastructure within the area of the Master CFD which is within the City's jurisdictional boundaries (the "**Services**") **including areas that voluntarily annex into the Master CFD**. ~~In light of the substantial Developer contributions towards infrastructure, parks and other public benefits as set forth in Article 3 of this Agreement secured through payment of the Development Agreement Fee, it is understood that~~ **The Parties agree that** the City will not **require** annex**ation** the Property or the Project into the Master CFD for the life of the Project. This provision shall survive the Term of the Agreement.

d. **Development Impact Fee.** ~~In light of the substantial Developer contributions towards infrastructure, parks and other public benefits as set forth in Article 3 of this Agreement secured through payment of the Development Agreement Fee, it is understood that the City will not assess~~ **Developer shall be required to pay any** Development Impact Fees **that would normally be required in the execution of the Project** pursuant to **City** Ordinance No. 19-1931. **In accordance with State law and Carson Municipal Code Section 11504, the City has determined that Developer shall not be required to pay Development Impact Fees for any Townhome or Apartment building until the issuance of a certificate of occupancy for the specific Townhome or Apartment building or up to twelve (12) months following the issuance of the building permit for the specific Townhome or Apartment building, whichever occurs first. The deferred Development Impact Fee payments will be based on the fees in effect at the time of actual payment, including any applicable fee offsets Developer might be entitled under the Carson Municipal Code. Developer's obligation for payment of Development Impact Fees is as more particularly detailed in DOR Condition of Approval No. 59 and VTTM Condition of Approval No. 103. This provision is intended to be, and shall be implemented so as to be, consistent with the requirements of Government Code Section 66007, and is not intended to confer a unique or special benefit on the Project that it would not otherwise be entitled to under State law and the Carson Municipal Code.** ~~Accordingly, the Parties understand, acknowledge and agree that no credits or reimbursements will be available to Developer pursuant to Ordinance No. 19-1931 or any provision of the CMC (as may be amended) to offset, reduce or refund any portion of the Development Agreement Fee.~~

DOR COA 17 is amended as follows:

~~The Development Agreement Fee and all other fees~~ **Fees** shall be paid in appropriate times as specified in the Development Agreement and the Conditions of Approval.

DOR COA 59 is replaced with the following:

Interim Development Impact Fee: In accordance with Article XI (Interim Development Impact Fee Program) of the Carson Municipal Code ("CMC"), the applicant, property owner, and/or successor to whom this project approval is assigned ("Developer") shall be responsible for payment of one-time interim development impact fees ("IDIF") at the applicable rate detailed below for each unit of residential development constructed for the project. If the project increases or decreases in regards to the number of units constructed, the total IDIF amount will be adjusted accordingly at the applicable rate.

Per CMC 11504, the IDIF shall be paid prior to the issuance of a certificate of occupancy for the specific Townhome or Apartment building or up to twelve (12) months following the issuance of the building permit for the specific Townhome or Apartment building, whichever occurs first, and the applicable IDIF rate (detailed below) shall be that in effect at the time of such payment, unless the timing or requirements of payment is modified by applicable State Law. No certificate of occupancy shall be issued prior to the full payment of the required IDIF amount, which payment shall be made in one lump sum installment. IDIF amounts/rates are subject to adjustment every July 1st based on State of California Construction Cost Index (Prior March to Current March Adjustment), per CMC Section 11500.

IDIF amounts/rates for residential development have been set at $16,918.01 per unit (1 bedroom or studio) and $21,147.52 (All Other) per unit for Fiscal Year 2025-26, effective July 1, 2025, through June 30, 2026. Affordable Housing Units are exempted from IDIF.

None of the proposed project units are exempt from IDIF, and the proposed project is not eligible for any fee credits, reimbursements or other offsets pursuant to CMC Article XI. Based on the above-specified rates, the Developer would be responsible for a total payment of IDIF in the amount of $21,325,155.94 for the proposed project, calculated as follows: (538 units [1 bedroom or studio] X $16,918.01 per unit = $9,101,889.38) + (578 units [All Other] X $21,147.52 per unit = $12,223,266.56) = $21,325,155.94.

However, if the IDIF for the project is not paid in 2025-26 fiscal year (i.e., by June 30, 2026), a new IDIF rate/amount will apply for the period of July 1, 2026, through June 30, 2027, based on the IDIF rate for Fiscal Year 2026-27, and so on for subsequent fiscal year(s). The fee for Fiscal Year 2026-2027 IDIF has not yet been determined.

To understand the requirements in more detail, please visit the City's IDIF webpage at: https://ci.carson.ca.us/communitydevelopment/IDIFProgram.aspx and/or contact James Nguyen at jnguyen@carsonca.gov or 310-952-1700 ext. 1310.

Notice of Imposition of Interim Development Impact Fees; Right to Protest
Pursuant to CMC Section 11503, Developer is hereby notified of the IDIF imposed on the project, as described and in the amount stated above. In accordance with Government Code Section 66020, Developer may protest the imposition of the IDIF on the project by complying with the requirements set forth in CMC 11900. Any such protest shall be filed at the time of the approval or conditional approval of a development, as that phrase is defined in CMC 11901(A).

If you have any questions or comments regarding this notice, please contact James Nguyen at jnguyen@carsonca.gov or (310) 952-1700 ext. 1310.

VTTM COA 18 is amended as follows:

~~The Development Agreement Fee and all other fees~~ **Fees** shall be paid in appropriate times as specified in the Development Agreement and the Conditions of Approval.

VTTM COA 103 is replaced with the following:

Interim Development Impact Fee: In accordance with Article XI (Interim Development Impact Fee Program) of the Carson Municipal Code ("CMC"), the applicant, property owner, and/or successor to whom this project approval is assigned ("Developer") shall be responsible for payment of one-time interim development impact fees ("IDIF") at the applicable rate detailed below for each unit of residential development constructed for the project. If the project increases or decreases in regards to the number of units constructed, the total IDIF amount will be adjusted accordingly at the applicable rate.

Per CMC 11504, the IDIF shall be paid prior to the issuance of a certificate of occupancy for the specific Townhome or Apartment building or up to twelve (12) months following the issuance of the building permit for the specific Townhome or Apartment building, whichever occurs first, and the applicable IDIF rate (detailed below) shall be that in effect at the time of such payment, unless the timing or requirements of payment is modified by applicable State Law. No certificate of occupancy shall be issued prior to the full payment of the required IDIF amount, which payment shall be made in one lump sum installment. IDIF amounts/rates are subject to adjustment every July 1st based on State of California Construction Cost Index (Prior March to Current March Adjustment), per CMC Section 11500.

IDIF amounts/rates for residential development have been set at $16,918.01 per unit (1 bedroom or studio) and $21,147.52 (All Other) per unit for Fiscal Year 2025-26, effective July 1, 2025, through June 30, 2026. Affordable Housing Units are exempted from IDIF.

None of the proposed project units are exempt from IDIF, and the proposed project is not eligible for any fee credits, reimbursements or other offsets pursuant to CMC Article XI. Based on the above-specified rates, the Developer would be responsible for a total payment of IDIF in the amount of **$21,325,155.94** for the proposed project, calculated as follows: (538 units [1 bedroom or studio] X $16,918.01 per unit = $9,101,889.38) + (578 units [All Other] X $21,147.52 per unit = $12,223,266.56) = $21,325,155.94.

However, if the IDIF for the project is not paid in 2025-26 fiscal year (i.e., by June 30, 2026), a new IDIF rate/amount will apply for the period of July 1, 2026, through June 30, 2027, based on the IDIF rate for Fiscal Year 2026-27, and so on for subsequent fiscal year(s). The fee for Fiscal Year 2026-2027 IDIF has not yet been determined.

To understand the requirements in more detail, please visit the City's IDIF webpage at: https://ci.carson.ca.us/communitydevelopment/IDIFProgram.aspx and/or contact James Nguyen at jnguyen@carsonca.gov or 310-952-1700 ext. 1310.

Notice of Imposition of Interim Development Impact Fees; Right to Protest

Pursuant to CMC Section 11503, Developer is hereby notified of the IDIF imposed on the project, as described and in the amount stated above. In accordance with Government Code Section 66020, Developer may protest the imposition of the IDIF on the project by complying with the requirements set forth in CMC 11900. Any such protest shall be filed at the time of the approval or conditional approval of a development, as that phrase is defined in CMC 11901(A).

If you have any questions or comments regarding this notice, please contact James Nguyen at jnguyen@carsonca.gov or (310) 952-1700 ext. 1310.

***

In accordance with Development Agreement Section 12.4, this hereby modifies and memorializes the changes identified above. The Minor Modifications made herein shall be binding on the Developer and on Developer's successors and assigns.

Sincerely,

City of Carson

ACKNOWLEDGED AND AGREED:

DEVELOPER

IMPERIAL AVALON, LLC, a California limited liability company

By: _____
Name: Jason Illoulian
Title: Manager

CITY OF CARSON

PLANNING COMMISSION

RESOLUTION NO. 26-2898

A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF CARSON RECOMMENDING THE CARSON CITY COUNCIL APPROVE AMENDED AND RESTATED DEVELOPMENT AGREEMENT NO. 23-19 BETWEEN THE CITY OF CARSON, IMPERIAL AVALON, LLC, AND LENNAR HOMES OF CALIFORNIA, LLC FOR A MIXED-USE PROJECT LOCATED AT 21207 SOUTH AVALON BOULEVARD

WHEREAS, California Government Code Sections 65864 *et seq.* authorize the City of Carson ("City") to enter into binding development agreements with persons having a legal or equitable interest in real property for the development of such property in order to establish certain development rights, for the purpose of strengthening the public planning process, encouraging private participation and comprehensive planning and identifying the economic costs of such development; and

WHEREAS, on December 13, 2022, the City adopted Ordinance No. 22-2222, approving Development Agreement No. 23-19 ("Development Agreement") between the City and Imperial Avalon LLC ("Imperial Avalon") for a mixed-use residential and commercial project on the real property located at 21207 South Avalon Boulevard in the City ("Property"). The Development Agreement was recorded in the Official Records of Los Angeles County on June 4, 2024, as Document No. 20240361857. The project consists of 764 multi-family residential units in two buildings of up to four stories each, 351 attached/detached and stacked flat townhome units of up to three stories each, 111,581 square feet of publicly accessible open space (including a minimum 22,859 square foot park), and 10,000 square feet of commercial restaurant space (the "Project"); and

WHEREAS, the City also conditionally approved the following entitlements for the Project in December 2022 (collectively, the "Original Entitlements"): (1) certification of an Environmental Impact Report (SCH No. 2021010116; the "EIR") for the Project; (2) General Plan Amendment ("GPA") No. 105-19, to change the land use designation of the Property from Regional Commercial/Low Density Residential to Urban Residential; (3) Specific Plan ("SP") No. 21-19, the Imperial Avalon Specific Plan ("IASP"), to establish the development standards and permitted uses for the Property; (4) Zone Change ("ZCC") No. 188-19, to change the Property's zoning from Commercial Automotive/RM-8-D to Imperial Avalon Specific Plan; (5) Site Plan Review and Design Review ("DOR") No. 1803-19; and (6) Vesting Tentative Tract Map ("VTTM") No. 83157; and

WHEREAS, Exhibit "B" of Planning Commission Resolution No. 22-244 imposes Conditions of Approval on the DOR No. 1803-19 ("DOR COAs"), and Exhibit "C" of Planning Commission Resolution No. 22-244, as amended by City Council Resolution No. 22-242, imposes Conditions of Approval on VTTM No. 83157 ("VTTM COAs"); and

WHEREAS, the Development Agreement and some of the Original Entitlements, including the DOR COAs and VTTM COAs, were subsequently amended through multiple Minor Modifications requested by Imperial Avalon and approved by the City pursuant to Section 12.4 of the Development Agreement, as follows (collectively, the "Approved Minor Modifications"):

- A Minor Modification approved on May 24, 2023, made revisions to the Development Agreement and resolved an inconsistency between the Specific Plan and the approved Project plans regarding the required Project building setback from the 405 freeway.

- A Minor Modification approved on February 28, 2024, made revisions to the Development Agreement. This Minor Modification was approved pursuant to a Settlement Agreement and Mutual Release between the City and Imperial Avalon, which became effective on or about February 28, 2024 ("Original Settlement Agreement").

- A Minor Modification approved on June 10, 2024, made revisions to the Development Agreement, the DOR COAs, the VTTM COAs, and the Mitigation Monitoring and Reporting Program Table included as Section 4.2 in the Final EIR ("MMRP").

- A Minor Modification approved on May 8, 2025, made revisions to the Development Agreement.

- A Minor Modification approved on _____, made revisions to the Development Agreement, the DOR COAs, and the VTTM COAs. This Minor Modification was approved pursuant to an Amendment and Restatement of the Original Settlement Agreement, which became effective on _____, and replaced the Minor Modification approved on February 28, 2024; and

WHEREAS, Lennar Homes of California, LLC, ("Lennar") purchased from Imperial Avalon the portion of the Property that will contain the Townhomes ("Transferred Property") and entered into a Partial Assignment and Assumption Agreement with Imperial Avalon, recorded on October 1, 2024 ("A/A Agreement"), under which Imperial Avalon assigned to Lennar and Lennar assumed from Imperial Avalon all of Imperial Avalon's rights and obligations regarding the Transferred Property, including rights and obligations under the Development Agreement, as more fully described in the A/A Agreement. As shown in Exhibit C of the A/A Agreement, the City consented to the assignment and assumption effectuated through the A/A Agreement, as required by Section 11 of the Development Agreement. Imperial Avalon and Lennar are referred to herein below as the "Developer"; and

WHEREAS, in or about December of 2025, Developer submitted to the City an application to amend and restate the Development Agreement, in order to incorporate and integrate the changes made through the Approved Minor Modifications into one consolidated document, with no new substantive modifications, pursuant to Government Code Sections 65864 through 65869.5 ("Amended and Restated Development Agreement"); and

WHEREAS, after notice of the time, place and purpose of a public hearing was duly given, the City's Planning Commission held a public hearing and heard testimony and considered all

factors both oral and written on the 27th day of January, 2026, to consider Developer's application for the Amended and Restated Development Agreement. Having done so, the Planning Commission now sees fit and intends to recommend City Council adoption of an appropriate ordinance to approve the Amended and Restated Development Agreement; and

WHEREAS, all legal prerequisites to the adoption of this Resolution have occurred.

NOW, THEREFORE, THE PLANNING COMMISSION OF THE CITY OF CARSON, CALIFORNIA, HEREBY FINDS, RESOLVES AND ORDERS AS FOLLOWS:

SECTION 1. The Planning Commission finds that the foregoing recitals are true and correct, and the same are incorporated herein by this reference as findings of fact.

SECTION 2. The Planning Commission finds that Amended and Restated Development Agreement was adequately assessed by the EIR and that there are no circumstances requiring additional environmental review. Specifically, no substantial changes are proposed in the Project that will require major revisions to the EIR due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects; no substantial changes have occurred with respect to the circumstances under which the Project will be undertaken which will require major revisions to the EIR due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects; and there is no new information of substantial importance, which was not known and could not have been known with the exercise of reasonable diligence at the time the EIR was certified as complete, that shows any of the following: (A) the Project will have one or more significant effects not discussed in the EIR; (B) significant effects previously examined will be substantially more severe than shown in the EIR; (C) mitigation measures or alternatives previously found not to be feasible would in fact be feasible and would substantially reduce one or more significant effects of the Project, but the Project proponents decline to adopt the mitigation measure or alternative; or (D) mitigation measures or alternatives which are considerably different from those analyzed in the EIR would substantially reduce one or more significant effects on the environment, but the Project proponents decline to adopt the mitigation measure or alternative.

Furthermore, the approval of the Amended and Restated Development Agreement is covered by the common sense exemption that CEQA applies only to projects which have the potential for causing a significant effect on the environment. Here, it can be seen with certainty that there is no possibility that the amendments made to the Amended and Restated Development Agreement may have a significant effect on the environment because the amendments simply integrate modifications to the Development Agreement that were previously approved and are primarily related to the payment of fees and the provision of public benefits, rather than making physical changes to the Project or Project site.

Consequently, the Planning Commission finds that approval of the Amended and Restated Development Agreement does not require any additional environmental review.

SECTION 3. The Planning Commission hereby finds as follows:

A. The Amended and Restated Development Agreement merely incorporates and integrates the changes made through the Approved Minor Modifications into one consolidated document. It does not make or effect any new substantive changes to the Development Agreement or the Project, as all substantive changes that are reflected in the Amended and Restated Development Agreement as compared to the original Development Agreement have been previously approved through the Approved Minor Modifications.

B. The Amended and Restated Development Agreement is consistent with the provisions of Government Code Sections 65864 through 65869.5.

C. The Amended and Restated Development Agreement provides for a project that is located within an area suitable for the proposed use and is in conformance with the General Plan as amended by GPA No. 105-19, and the Imperial Avalon Specific Plan (SP No. 21-19), which is also the zoning designation for the Property pursuant to Zone Change (ZCC) No. 188-19, which changed the zoning map designation for the Property from Commercial Automotive/RM-8-D to Imperial Avalon Specific Plan.

D. The Amended and Restated Development Agreement provides for a public convenience through significant monetary benefits which will contribute directly or indirectly to programs and services designed to provide for the health, safety and welfare of the public, thereby exhibiting good land use practices. The Agreement specifies the Community Benefits in Article 3. The Project will also be required to pay Development Impact Fees as provided in Section 5.8(d) of the Agreement.

E. The Amended and Restated Development Agreement will not be detrimental to the public's health, safety and general welfare, nor will it adversely affect the orderly development or property values for the Property or areas surrounding it.

F. The Amended and Restated Development Agreement is in compliance with the procedures established by the City as required by Government Code Section 65865(c).

G. The Amended and Restated Development Agreement in Article 6 provides for an annual review to ensure good faith compliance with the terms of the Agreement, as required in Section 65865.1 of the Government Code.

H. The Amended and Restated Development Agreement specifies the contents required by Government Code Section 65865.2, including without limitation the 15-year term in Section 2.1 and other project details in Recital F.

I. The Amended and Restated Development Agreement includes conditions, terms, restrictions and requirements for development of the Property in Article 4 (without limitation) and as permitted in Section 65865.2 of the Government Code.

J. The Amended and Restated Development Agreement contains provisions in Article 7 for termination of the Agreement prior to expiration of its term.

K. The Amended and Restated Development Agreement provides for amendment or cancellation in whole or in part, by mutual consent of the parties to the Agreement or their successors in interest, as required in Section 65868 of the Government Code.

L. The Amended and Restated Development Agreement is in the best public interest of the City and its residents and will achieve a number of City objectives including ensuring compatibility of the development and use of the site with surrounding uses, providing much needed housing in a variety of housing types, and helping achieve a sustainable balance of residential and non-residential development and a balance of traffic circulation through the City, in furtherance of General Plan goals and objectives.

M. The Amended and Restated Development Agreement supports General Plan goal LU-6: A sustainable balance of residential and nonresidential development and a balance of traffic circulation throughout the City. The Project promotes a balanced mix of residential development and ground floor, pedestrian-serving commercial restaurant uses. The Project provides for the inclusion of commercial restaurant uses that would provide easy access to a variety of foods within close proximity to existing and future residential communities. Consistent with policy LU-6.3, the Specific Plan specifically promotes a mixed-use zone that encourages pedestrian-oriented mobility. For the same reasons, the Amended and Restated Development Agreement also supports SP No. 21-19.

N. The Amended and Restated Development Agreement supports General Plan goal LU-7: adjacent land uses that are compatible with one another. The proposed development of the Project, with its gradual sensitive transition toward the western edge of the Property, is compatible with the adjacent single-family residential Grace Avenue neighborhood. For the same reasons, the Amended and Restated Development Agreement also supports SP No. 21-19.

O. The Amended and Restated Development Agreement supports General Plan goal LU-8: Promote mixed-use development where appropriate. The Project is proposed as part of the City's ongoing effort to develop new mixed-use corridors. The Property is located within close proximity to the Carson Street mixed-use corridor and The District at South Bay proposed development. For the same reasons, the Agreement also supports SP No. 21-19.

P. The Amended and Restated Development Agreement supports General Plan goal LU-15: promote development in Carson which reflects the "Livable Communities" concepts. The Project encourages the location of housing, jobs, shopping, services, and other activities within easy walking distance of each other. By providing the potential for a variety of housing types, various multifamily unit types which may include senior housing, and for-sale townhome units, the Project also supports Policy LU-15.2 which seeks to maintain a diversity of housing types to enable citizens from a wide range of economic levels and age groups to live in Carson. For the same reasons, the Amended and Restated Development Agreement also supports SP No. 21-19.

Q. The Amended and Restated Development Agreement supports General Plan Housing Element Goal 2: encourage the development of a variety of housing to meet needs of the broad spectrum of the community, with a particular emphasis on multifamily housing, and Goal 4: Promote housing opportunities for lower-income households and seniors. By providing a mix

of unit types ranging from studios to four-bedroom homes, the project facilitates diversity of housing types and prices, supporting a wide variety of housing needs and promoting a multi-generational community. Additionally, the Project supports Goal 4 by providing an exclusive pre-lease period for seniors and establishing a quota for units rented to seniors, recognizing that senior populations benefit from various types of housing models and from providing independent senior housing to meet the diverse needs of Carson's and the region's aging population.

R. The Amended and Restated Development Agreement provides, in Section 4.7, that any tentative map prepared for the Project subdivision will comply with Government Code Section 66473.7.

S. The provisions of the Amended and Restated Development Agreement are consistent with the General Plan, as amended by GPA No. 105-19, and all applicable specific plans.

SECTION 4. Based on the foregoing, the Planning Commission hereby recommends that the City Council adopt an appropriate ordinance to approve the Amended and Restated Development Agreement, which is attached hereto as Exhibit "A" and incorporated herein by this reference.

SECTION 5. This Resolution shall be effective immediately upon its adoption.

SECTION 6. The Secretary of the Planning Commission shall certify to the adoption of this Resolution.

PASSED, APPROVED and **ADOPTED** this 27th day of January 2026.

DIANNE THOMAS
CHAIRPERSON

ATTEST:

LAURA GONZALEZ
SECRETARY

IMPERIAL AVALON, LLC

Darren Embry
(323) 481-9178
darren@faring.com

February 18, 2026

Via Email

Mr. Nathan Freeman
Director of Community & Economic Development
City of Carson
nfreeman@carsonca.gov

Re: Imperial Avalon Specific Plan — Request for Interim Development Impact Fee Credit Offsets

---

Dear Mr. Freeman:

On behalf of Imperial Avalon, LLC ("Applicant"), we respectfully submit this request for confirmation that Development Impact Fee ("DIF") credits and offsets available under the Carson Municipal Code will be incorporated into the final Interim Development Impact Fee ("IDIF") calculations associated with the proposed **Amended and Restated Development Agreement No. 23-19 ("A&R DA")** for the Imperial Avalon / Envision Carson mixed-use development ("Project").

Consistent with the most recent hearing, City of Carson's Planning Commission adopted Resolution No. 26-2898 recommending City Council approval of the A&R DA, including confirmation in Section D that the Project must:

"...pay Development Impact Fees as provided in Section 5.8(d) of the Development Agreement."

Section 5.8(d) of the Development Agreement requires payment of Development Impact Fees pursuant to City Ordinance No. 19-1931 and Carson Municipal Code Section 11504, while expressly providing that the fees in effect at the time of payment shall apply, **including any applicable fee offsets to which the Developer may be entitled under the Carson Municipal Code.**

The referenced offsets are governed by **Carson Municipal Code Chapter 8 (Credits and Reimbursements)**, including Section 11800 addressing fee credits based on demolition and new construction.

Based on the methodology set forth in CMC 11800.A.3.b., the Applicant calculates qualifying fee credits as follows, and detailed on Exhibit A:

Total Eligible Credits: $4,244,608.41

Applying these credits to the Project's current IDIF calculations produces:

- **Total IDIF obligation:** $21,299,778.91
- **Less eligible credits:** ($4,244,608.41)
- **Net IDIF: $17,055,170.50**

If the applicable IDIF rates are adjusted prior to payment, the corresponding credit values would be adjusted proportionally using the same methodology.

We appreciate the City's continued coordination on this matter and look forward to working with staff to finalize any necessary Development Agreement language in time for City Council consideration at the anticipated March 3, 2026 meeting.

Sincerely,

Darren Embry

Darren Embry
Vice President of Community Development
obo Imperial Avalon, LLC

Attachments: Exhibit A

EXHIBIT A

Interim Development Impact Fee (IDIF)
Credit / Offset Calculation Worksheet

Project: Imperial Avalon / Envision Carson Mixed-Use Development (Specific Plan)

Location: 21207 South Avalon Boulevard, Carson, CA

Prepared For: City of Carson — Community & Economic Development Department

Prepared By: Imperial Avalon, LLC (Applicant)

Date: February 18, 2026

A. Eligible Demolition-Based Fee Credits (Carson Municipal Code Section 11800.A.3.b)

The following credit calculation summarizes the Applicant's requested fee credits/offsets associated with prior demolition/removal of existing residential units, as calculated under the methodology cited above.

Total DIF per Unit	Administrative Portion	Adjusted DIF per Unit	Eligible Units (Demolished)	Total Credits
$16,918.01	$1,812.64	$15,105.37	1	$15,105.37
$21,147.52	$2,265.81	$18,881.71	224	$4,229,503.04
TOTAL			**225**	**$4,244,608.41**

Note: If IDIF/DIF rates are adjusted prior to payment, credit values should be recalculated using the same methodology so credits adjust proportionally with the applicable rates.

B. Project IDIF Calculation (Gross)

Component	IDIF Amount
Townhomes (TH) — 351 units (all 2+ BR)	$7,422,779.52
Apartments AB — 465 units (313 Studio/1BR; 152 all other)	$8,509,760.17
Apartments CD — 299 units (226 Studio/1BR; 73 all other)	$5,367,239.22
TOTAL IDIF (Gross)	**$21,299,778.91**

C. Net IDIF After Credits

TOTAL IDIF (Gross)	$21,299,778.91
Less: Eligible Credits / Offsets (Section A)	($4,244,608.41)
NET IDIF	**$17,055,170.50**

Reference: Carson Municipal Code Chapter 8 (Credits and Reimbursements), including Section 11800 (Fee Credits).

ORDINANCE NO. 26-2606

AN UNCODIFIED ORDINANCE OF THE CITY OF CARSON, CALIFORNIA APPROVING AMENDED AND RESTATED DEVELOPMENT AGREEMENT NO. 23-19 BETWEEN THE CITY OF CARSON, IMPERIAL AVALON DE, LLC, AND LENNAR HOMES OF CALIFORNIA, LLC FOR A PROPOSED MIXED-USE PROJECT AT 21207 S. AVALON BLVD.

WHEREAS, California Government Code Sections 65864 *et seq*. authorize the City of Carson ("City") to enter into binding development agreements with persons having a legal or equitable interest in real property for the development of such property in order to establish certain development rights, for the purpose of strengthening the public planning process, encouraging private participation and comprehensive planning and identifying the economic costs of such development; and

WHEREAS, on December 13, 2022, the City adopted Ordinance No. 22-2222, approving Development Agreement No. 23-19 ("Development Agreement") between the City and Imperial Avalon, LLC, for a mixed-use residential and commercial project on the real property located at 21207 South Avalon Boulevard in the City of Carson ("City") and legally described in Exhibit "A" hereto ("Property"). The Development Agreement was recorded in the Official Records of Los Angeles County on June 4, 2024, as Document No. 20240361857. The project consists of 764 multi-family residential units in two buildings of up to four stories each, 351 attached/detached and stacked flat townhome units of up to three stories each, 111,581 square feet of publicly accessible open space (including a minimum 22,859 square foot park), and 10,000 square feet of commercial restaurant space (the "Project"); and

WHEREAS, City has also conditionally approved the following entitlements for the Project (collectively, the "Original Entitlements"): (1) certification of an Environmental Impact Report (SCH No. 2021010116; the "EIR") for the Project; (2) General Plan Amendment ("GPA") No. 105-19, to change the land use designation of the Property from Regional Commercial/Low Density Residential to Urban Residential; (3) Specific Plan ("SP") No. 21-19, the Imperial Avalon Specific Plan ("IASP"), to establish the development standards and permitted uses for the Property; (4) Zone Change ("ZCC") No. 188-19, to change the Property's zoning from Commercial Automotive/RM-8-D to Imperial Avalon Specific Plan; (5) Site Plan Review and Design Review ("DOR") No. 1803-19; and (6) Vesting Tentative Tract Map ("VTTM") No. 83157; and

WHEREAS, Exhibit "B" of Planning Commission Resolution No. 22-244 imposes Conditions of Approval on the DOR No. 1803-19 ("DOR COAs"), and Exhibit "C" of Planning Commission Resolution No. 22-244, as amended by City Council Resolution No. 22-242, imposes Conditions of Approval on VTTM No. 83157 ("VTTM COAs"). Exhibit "C" of City Council Ordinance No. 22-2221 imposes Conditions of Approval on SP No. 21-19; and

WHEREAS, the Development Agreement and some of the Original Entitlements, including the DOR COAs and VTTM COAs, were subsequently amended through Minor

Modifications requested by Imperial Avalon and approved by the City pursuant to Section 12.4 of the Development Agreement, as follows (collectively, the "Approved Minor Modifications"):

- A Minor Modification approved on May 24, 2023, made revisions to the Development Agreement and resolved an inconsistency between the Specific Plan and the approved Project plans regarding the required Project building setback from the 405 freeway.

- A Minor Modification approved on February 28, 2024, made revisions to the Development Agreement. This Minor Modification was approved pursuant to a Settlement Agreement and Mutual Release between the City and Imperial Avalon, which became effective on or about February 28, 2024 ("Original Settlement Agreement").

- A Minor Modification approved on June 10, 2024, made revisions to the Development Agreement, the DOR COAs, the VTTM COAs, and the Mitigation Monitoring and Reporting Program Table included as Section 4.2 in the Final EIR ("MMRP").

- A Minor Modification approved on May 8, 2025, made revisions to the Development Agreement.

- A Minor Modification approved on February 4, 2026, made revisions to the Development Agreement, the DOR COAs, and the VTTM COAs. This Minor Modification was approved pursuant to an Amended and Restated Settlement Agreement and Mutual Release (amending and restating the Original Settlement Agreement), which became effective on January 12, 2026, and replaced the Minor Modification approved on February 28, 2024; and

WHEREAS, Lennar Homes of California, LLC ("Lennar") purchased the portion of the Property that will contain the Townhomes ("Transferred Property") and entered into a Partial Assignment and Assumption Agreement with Imperial Avalon, LLC recorded on October 1, 2024 ("A/A Agreement"), under which Imperial Avalon, LLC assigned to Lennar and Lennar assumed from Imperial Avalon, LLC all of Imperial Avalon, LLC's rights and obligations regarding the Transferred Property, including rights and obligations under the Development Agreement, as more fully described in the A/A Agreement. As shown in Exhibit C of the A/A Agreement, the City consented to the assignment and assumption effectuated through the A/A Agreement, as required by Section 11 of the Development Agreement; and

WHEREAS, when the City approved the Development Agreement, the Property was owned by Imperial Avalon, LLC, a California limited liability company, which thereafter transferred ownership of the Property to Imperial Avalon DE, LLC, a Delaware limited liability company. Imperial Avalon DE, LLC and Lennar are referred to herein below as the "Developer"; and

WHEREAS, in or about December of 2025, Developer submitted to the City an application to amend and restate the Development Agreement pursuant to Government Code Sections 65864 through 65869.5 ("Amended and Restated Development Agreement"); and

WHEREAS, after notice of the time, place and purpose of a public hearing was duly given,

the City's Planning Commission held a public hearing and heard testimony and considered all factors both oral and written on January 27, 2026, to consider Developer's application for the Amended and Restated Development Agreement. Following such public hearing, the Planning Commission recommended that the City Council approve the Amended and Restated Development Agreement; and

WHEREAS, after notice of the time, place and purpose of a public hearing was duly given, the City Council held a public hearing on March 17, 2026, to consider Developer's application for the Amended and Restated Development Agreement, and following such hearing, during which the City Council heard testimony and considered all factors both oral and written, the City Council now desires by this Ordinance to approve the Amended and Restated Development Agreement (hereafter, "Agreement") after findings of consistency with the City's General Plan; and

WHEREAS, all legal prerequisites to the adoption of this Ordinance have occurred.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF CARSON DOES HEREBY ORDAIN AS FOLLOWS:

Section 1. The above recitals are true and correct and are hereby incorporated into this Ordinance as set forth herein.

Section 2. The City Council finds that the Agreement was adequately assessed by the EIR and that there are no circumstances requiring additional environmental review. Specifically, no substantial changes are proposed in the Project that will require major revisions to the EIR due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects; no substantial changes have occurred with respect to the circumstances under which the Project will be undertaken which will require major revisions to the EIR due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects; and there is no new information of substantial importance, which was not known and could not have been known with the exercise of reasonable diligence at the time the EIR was certified as complete, that shows any of the following: (A) the Project will have one or more significant effects not discussed in the EIR; (B) significant effects previously examined will be substantially more severe than shown in the EIR; (C) mitigation measures or alternatives previously found not to be feasible would in fact be feasible and would substantially reduce one or more significant effects of the Project, but the Project proponents decline to adopt the mitigation measure or alternative; or (D) mitigation measures or alternatives which are considerably different from those analyzed in the EIR would substantially reduce one or more significant effects on the environment, but the Project proponents decline to adopt the mitigation measure or alternative.

Furthermore, the approval of the Agreement is covered by the common sense exemption that CEQA applies only to projects which have the potential for causing a significant effect on the environment. Here, it can be seen with certainty that there is no possibility that the amendments made to the Development Agreement may have a significant effect on the environment. The amendments largely integrate modifications to the Development Agreement that were previously approved and are primarily related to the payment of fees and the provision of public benefits as well as other technical provisions such as mortgagee protection and assignment approval

provisions, rather than making physical changes to the Project or Project site.

Consequently, the City Council finds that the approval of the Agreement does not require any additional environmental review.

Section 3. Based upon all oral and written reports and presentations made by City staff, Developer, and members of the public, including any attachments and exhibits, the City Council hereby finds that:

a) The Agreement is consistent with the provisions of Government Code Sections 65864 through 65869.5.

b) The Agreement provides for a project that is located within an area suitable for the proposed use and is in conformance with the General Plan as amended by GPA No. 105-19, and the Imperial Avalon Specific Plan (SP No. 21-19), which is also the zoning designation for the Property pursuant to Zone Change (ZCC) No. 188-19, which changed the zoning map designation for the Property from Commercial Automotive/RM-8-D to Imperial Avalon Specific Plan.

c) The Agreement provides for a public convenience through significant monetary benefits which will contribute directly or indirectly to programs and services designed to provide for the health, safety and welfare of the public, thereby exhibiting good land use practices. The Agreement specifies the Community Benefits in Article 3. The Project will also be required to pay Development Impact Fees as provided in Section 5.8(d) of the Agreement.

d) The Agreement will not be detrimental to the public's health, safety and general welfare, nor will it adversely affect the orderly development or property values for the subject property or areas surrounding it.

e) The Agreement is in compliance with the procedures established by the City as required by Government Code Section 65865(c).

f) The Agreement in Article 6 provides for an annual review to ensure good faith compliance with the terms of the Agreement, as required in Section 65865.1 of the Government Code.

g) The Agreement specifies the contents required by Government Code Section 65865.2, including without limitation the 15-year term of the Agreement in Section 2.1 and other project details in Recital F.

(h) The Agreement includes conditions, terms, restrictions and requirements for development of the subject property in Article 4 (without limitation) and as permitted in Section 65865.2 of the Government Code.

(i) The Agreement contains provisions in Article 7 for termination of the Agreement prior to expiration of its term.

(j) The Agreement provides for amendment or cancellation in whole or in part, by mutual consent of the parties to the Agreement or their successors in interest, as required in Section 65868 of the Government Code.

(k) The Agreement is in the best public interest of the City and its residents and will achieve a number of City objectives including ensuring compatibility of the development and use of the site with surrounding uses, providing much needed housing in a variety of housing types, and helping achieve a sustainable balance of residential and non-residential development and a balance of traffic circulation through the City, in furtherance of General Plan goals and objectives.

(l) The Agreement supports General Plan goal LU-6: A sustainable balance of residential and nonresidential development and a balance of traffic circulation throughout the city. The project promotes a balanced mix of residential development and ground floor, pedestrian-serving commercial restaurant uses. The project provides for the inclusion of commercial restaurant uses that would provide easy access to a variety of foods within close proximity to existing and future residential communities. Consistent with policy LU-6.3, the Specific Plan specifically promotes a mixed-use zone that encourages pedestrian-oriented mobility. For the same reasons, the Agreement also supports SP No. 21-19.

(m) The Agreement supports General Plan goal LU-7: adjacent land uses that are compatible with one another. The proposed development of the project, with its gradual sensitive transition toward the western edge of the subject property, is compatible with the adjacent single-family residential Grace Avenue neighborhood. For the same reasons, the Agreement also supports SP No. 21-19.

(n) The Agreement supports General Plan goal LU-8: Promote mixed-use development where appropriate. The project is proposed as part of the City's ongoing effort to develop new mixed-use corridors. This site is located within close proximity to the Carson Street mixed-use corridor and The District at South Bay proposed development. For the same reasons, the Agreement also supports SP No. 21-19.

(o) The Agreement supports General Plan goal LU-15: promote development in Carson which reflects the "Livable Communities" concepts. The project encourages the location of housing, jobs, shopping, services, and other activities within easy walking distance of each other. By providing the potential for a variety of housing types, various multifamily unit types which may include senior housing, and for-sale townhome units, the project also supports Policy LU-15.2 which seeks to maintain a diversity of housing types to enable citizens from a wide range of economic levels and age groups to live in Carson. For the same reasons, the Agreement also supports SP No. 21-19.

(p) The Agreement supports General Plan Housing Element Goal 2: encourage the development of a variety of housing to meet needs of the broad spectrum of the community, with a particular emphasis on multifamily housing, and Goal 4: Promote housing opportunities for lower-income households and seniors. By providing a mix of unit types ranging from studios to four-bedroom homes, the project facilitates diversity of housing types and prices, supporting a wide variety of housing needs and promoting a multi-generational community. Additionally, the project supports Goal 4 by providing an exclusive pre-lease period for seniors and establishing a quota for units rented to seniors, recognizing that senior populations benefit from various types of housing models and from providing independent senior housing to meet the diverse needs of Carson's and the region's aging population.

(q) The Agreement provides, in Section 4.7, that any tentative map prepared for the Project subdivision will comply with Government Code Section 66473.7.

(r) The provisions of the Agreement are consistent with the General Plan, as amended by GPA No. 105-19, and all applicable specific plans.

Section 4. Based on the aforementioned findings, the City Council hereby approves the Agreement, a copy of which is attached hereto as Exhibit "B" and incorporated herein by this reference, and authorizes its execution by the Mayor and all action necessary to comply with its terms.

Section 5. This Ordinance shall take effect on the 30th day following its adoption by the City Council. However, if and when the Agreement should terminate pursuant to Article 7 thereof, this Ordinance will automatically terminate concurrently therewith without any action needing to be taken by the City Council.

Section 6. Pursuant to Government Code Section 65868.5, the City Clerk of the City shall record a copy of said Development Agreement with the County Recorder within 10 days after execution thereof.

Section 7. The City Council declares that, should any provision, section, paragraph, sentence or word of this Ordinance be rendered or declared invalid by any final court action in a court of competent jurisdiction or by reason of any preemptive legislation, the remaining provisions, sections, paragraphs, sentences or words of this Ordinance as hereby adopted shall remain in full force and effect.

Section 8. The Mayor, City Manager, and City Clerk or their designees, are authorized and directed to take such actions and execute such documents and certifications as may be necessary to implement and effect execution, recordation and enforcement of this Ordinance and the Agreement.

Section 9. The City Clerk of the City of Carson shall certify to the passage and adoption of this Ordinance and shall cause the same to be published in a newspaper of general circulation, printed and published within the City of Carson in accordance with the provisions of the Government Code.

[signatures on the following page]

PASSED, APPROVED and **ADOPTED** this ___day of _____, 2026.

_____
Lula Davis-Holmes, Mayor

ATTEST:

_____
Dr. Khaleah K. Bradshaw, City Clerk

APPROVED AS TO FORM

_____
Sunny K. Soltani, City Attorney

EXHIBIT "A"

PROPERTY LEGAL DESCRIPTION

THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE CITY OF CARSON IN THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AND IS DESCRIBED AS FOLLOWS:

LOT 1 OF TRACT NO. 71206, IN THE CITY OF CARSON, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 1400, PAGES 1 TO 6 OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

EXCEPT THEREFROM PORTIONS OF SAID LAND ALL MINERALS, OIL, GAS, AND OTHER HYDROCARBON SUBSTANCES LYING BELOW THE SURFACE OF SAID LAND, AS EXCEPTED IN DEED RECORDED DECEMBER 08, 1960 AS INSTRUMENT NO. 1520 OFFICIAL RECORDS, AND IN DEED RECORDED MAY 18, 1959 AS INSTRUMENT NO. 590 OFFICIAL RECORDS.

APN: 7337-001-025
APN: 7337-001-026
APN: 7337-001-027
APN: 7337-001-028
APN: 7337-001-029

EXHIBIT "B"

AMENDED AND RESTATED DEVELOPMENT AGREEMENT NO. 23-19

SEE ATTACHED

RECORDING REQUESTED BY AND
WHEN RECORDED MAIL TO:

City of Carson
701 E Carson Street
Carson, CA 90745
Attn: Planning Manager

SPACE ABOVE THIS LINE RESERVED FOR RECORDER'S USE

DRAFT

AMENDED AND RESTATED DEVELOPMENT AGREEMENT

This Amended and Restated Development Agreement ("**Agreement**") is entered into on the ____ day of _____, 2026 ("**Execution Date**"), by and between the City of Carson, a municipal corporation of the State of California ("**City**"), IMPERIAL AVALON DE, LLC, a California limited liability company ("**Imperial Avalon**"), and LENNAR HOMES OF CALIFORNIA, LLC, a California limited liability company ("**Lennar**"). Imperial Avalon and Lennar are referred to collectively in this Agreement as "**Developer**". The City and Developer shall be referred to jointly within this Agreement as the "Parties" and individually as a "Party."

RECITALS

A. *The Development Agreement Statute.* California Government Code Sections 65864 *et seq*. ("**Development Agreement Law**") authorizes cities to enter into binding development agreements with persons having a legal or equitable interest in real property for the development of such property, all for the purpose of strengthening the public planning process, encouraging private participation, and comprehensive planning and identifying the economic costs of such development.

B. *Orderly Development; Public Benefits.* The City Council finds that this Agreement is in the best public interest of the City and its residents, adopting this Agreement constitutes a present exercise of the City's police power, and this Agreement is consistent with the City's General Plan. This Agreement and the proposed Project will achieve a number of City objectives, including the orderly development of the Property and the provision of public benefits, or funds therefor, to the City and its residents.

C. *The Property.* Developer owns the property located at 21207 South Avalon Boulevard in the City of Carson, County of Los Angeles, State of California (APNs 7337-001-025, 7337-001-026, 7337-001-027, 7337-001-028, and 7337-001-029) ("**Property**"). At the time of the approval of the Original DA, the General Plan land use designation for the Property

was Regional Commercial and Low Density Residential and the Property was zoned Commercial Automotive (CA) and RM-8-D (Design Overlay).

D. *Developer's Interest in the Property*. When the City approved the Original DA, the Property was owned by Imperial Avalon, LLC, a California limited liability company, which thereafter transferred ownership of the Property to Imperial Avalon DE, LLC. Developer currently owns the Property and as such, possesses the requisite equitable interest in the Property under Government Code Section 65865 that allows the Parties to enter into this Agreement.

E. *The Park*. At the time of the approval of the Original DA, the Property was improved and in operation as a mobilehome park, known as Imperial Avalon Mobile Estates ("**Park**"). Imperial Avalon filed an application for approval of Relocation Impact Report No. 05-20 ("**RIR**") related to Park closure pursuant to CMC Section 9128.21 in early 2020 (the "**Closure Application**"). The Closure Application was heard and conditionally approved by the City's Planning Commission on May 13, 2020, via adoption of Planning Commission Resolution No. 20-2695. Following an administrative appeal to the City Council, on July 7, 2020, the City Council adopted City Resolution No. 20-113, affirming the Planning Commission's decision subject to imposition of added and modified conditions as set forth in the "Amended Conditions of RIR No. 05-20" which are attached to said resolution ("the **RIR Conditions**"), and specifying the earliest possible date of Park closure (i.e., the earliest date when residents may be compelled to vacate the Park) as January 1, 2022, subject to issuance of the required notices of termination of tenancy (the "**Closure Approval**"). As required by the Closure Approval, Developer has executed and recorded on title to the Property a "Declaration of Lease Covenants, Conditions and Restrictions Applicable to Park Closure Pursuant to Government Code § 27281.5" (the "**Option C Covenant**"). Furthermore, Developer agreed to provide certain enhancements to the relocation impact mitigation measures set forth in the RIR Conditions for the benefit of the displaced Park residents, which enhancements were set forth in a letter from Imperial Avalon to the Park residents dated September 9, 2021, without limitation (collectively, the "**Enhancements**"). At the time of the approval of the Original DA, Developer had not yet issued the required 6-month notice of termination of tenancy, which was a prerequisite of Park closure. As of the Effective Date thereof, some residents remained in the Park while some had vacated the Park voluntarily pursuant to early termination agreements entered into with the Developer in accordance with the RIR Conditions, and implementation/satisfaction of the RIR Conditions remained pending and underway. Developer still intended, and had the right, to issue the requisite 6-month notice of termination of tenancies and thereafter close the Park during the effective period of the Closure Approval, and later did so. It is understood and was decided by the City in acting upon the Closure Application that the Closure Application and the City's review and decision thereon was exempt from the California Environmental Quality Act ("**CEQA**") review and did not constitute a "project" within the meaning of CEQA. On that basis, a Notice of Exemption was filed in connection with the Closure Approval on July 17, 2020, and no CEQA-related challenges were filed within the applicable 35 day statute of limitations period. The Parties acknowledge that closure of the Park has occurred in accordance with the Original DA and other documents, regulations and authorities, although certain rights and obligations remain in effect related to the small number of

former Park residents who selected Option C under the RIR Conditions and the Option C Covenant and thereby acquired a right of tenancy in the Project.

F. *The Project.* Developer desires to re-develop the Property as a mixed-use residential and commercial development (the "**Project**"). The Project consists of 764 multi-family residential units within two buildings of up to four stories (or sixty-eight feet, six inches [68'6"] each, including at least one parking structure per building, each on their own lot on the eastern portion of the Property (the "**Apartments**"), 351 attached/detached and stacked flat townhome units of up to three stories (or thirty-eight feet, six inches [38'6"]) each, all located on another lot on the western portion of the Property (the "**Townhomes**"), for a total of 1,115 residential units and a density of 41 dwelling units per acre, 111,581 square feet of publicly accessible open space (including a minimum 22,859 square foot park), and 10,000 square feet of commercial space, all of which shall be restaurant use(s). To that end, on October 3, 2019, Imperial Avalon filed a development permit application with the City (Master Redevelopment Project No. PL10044) seeking various entitlements to develop the Project (collectively, the "**Development Application**"). The City determined the Development Application was complete on December 24, 2019.

G. *Project EIR and Entitlements.* The City is the lead agency, within the meaning of the CEQA, for purposes of conducting environmental review of the Project. The City has found and determined that all actions required of City precedent to approval of the Original DA were duly and regularly taken. In accordance with the requirements of CEQA, appropriate studies, analyses, reports, documents, and errata were prepared and considered by the Planning Commission and the City Council. The Planning Commission, after a duly noticed public hearing on November 21, 2022, certified the Environmental Impact Report ("**EIR**") and adopted a Statement of Overriding Considerations for the Project in accordance with CEQA. The Project is identified in the EIR as Alternative 3 and is fully assessed in the EIR and the errata thereto.

H. *Original Planning Commission Approvals.* On the same day, the Planning Commission, after giving notice pursuant to the CMC and Government Code §§ 65090, 65091, 65092 and 65094, held a public hearing on the Development Application, and following the hearing, adopted Planning Commission Resolution No. 22-244, which: (i) made CEQA findings and determinations as referenced above; (ii) conditionally approved Site Plan and Design Overlay Review ("**DOR**") No. 1803-19 and Vesting Tentative Tract Map ("**VTTM**") No. 83157 for the Project subject to City Council approval of General Plan Amendment ("**GPA**") No. 105-19 (changing the General Plan land use designation for the Property from Regional Commercial/Low Density Residential to Urban Residential), Specific Plan ("**SP**") No. 21-19 (Imperial Avalon Specific Plan), Zone Change ("**ZCC**") No. 188-19 (changing the Property zoning from Commercial Automotive (CA)/Residential, multifamily – 8 units per acre (RM-8) with a Design Overlay to Imperial Avalon Specific Plan [IASP]), and Development Agreement No. 23-19 ("**Original DA**") (inclusive of the Adopting Ordinance); and (iii) recommended that the City Council approve GPA No. 105-19, SP No. 21-19, ZCC No. 188-19, and DA No. 23-19 for the Project (DOR No. 1803-19, VTTM No. 83157, GPA No. 105-19, SP No. 21-19, ZCC No. 188-19, and DA No. 23-19 collectively, together with the EIR, the "**Entitlements**").

I. *Original City Council Approvals*. On December 6, 2022, the City Council, after provision of the public notice required by law, held a public hearing to consider the Development Application and the Planning Commission's actions and recommendations thereon. Following the hearing, the City Council: (i) adopted City Council Resolution No. 22-242, making, ratifying and affirming the CEQA findings and the actions of the Planning Commission related to certification of the EIR with respect to approval of the VTTM and making findings pursuant to CEQA Guidelines Sections 15162-15164, and modifying, pursuant to CMC Section 9173.4(c)(2)(b), the decision of the Planning Commission adopting Planning Commission Resolution No. 22-244 with respect to the conditions of approval of the VTTM, pursuant to Developer's appeal; (ii) adopted City Council Resolution No. 22-243, making, ratifying and affirming the CEQA findings and the actions of the Planning Commission related to certification of the EIR with respect to approval of the GPA, and approving the GPA; (iii) introduced, and subsequently, on December 13, 2022, adopted, Ordinance No. 22-2221, making, ratifying and affirming the CEQA findings and the actions of the Planning Commission related to certification of the EIR with respect to approval of the SP and ZCC, conditionally approving the SP, and approving the ZCC; and (iv) introduced, and subsequently, on December 13, 2022, adopted, Ordinance No. 22-2222, making, ratifying and affirming the CEQA findings and the actions of the Planning Commission related to certification of the EIR with respect to approval of the Original DA, and approving the Original DA.

J. *Original Conditions of Approval*. Exhibit "B" of Planning Commission Resolution No. 22-244 imposes Conditions of Approval on Imperial Avalon Site Plan and Design Review No. DOR 1803-19 ("**DOR COAs**"), and Exhibit "C" of Planning Commission Resolution No. 22-244, as amended by City Council Resolution No. 22-242, imposes Conditions of Approval on Imperial Avalon Vesting Tentative Tract Map 83157 ("**VTTM COAs**"). Exhibit "C" of City Council Ordinance No. 22-2221 imposes Conditions of Approval on SP No. 21-19 ("**SP COAs**").

K. *Modifications to the Original Entitlements.* The Original Entitlements were subsequently amended through Minor Modifications requested by Imperial Avalon and approved by the City pursuant to Section 12.4 of the Original DA, as follows (collectively, the "**Approved Minor Modifications**"):

- A Minor Modification approved on May 24, 2023, made revisions to the Original DA and resolved an inconsistency between the Specific Plan and the approved Project plans regarding the required Project building setback from the 405 freeway.

- A Minor Modification approved on February 28, 2024, made revisions to the Original DA. This Minor Modification was approved pursuant to a Settlement Agreement and Mutual Release between the City and Imperial Avalon, which became effective on or about February 28, 2024 ("**Original Settlement Agreement**").

- A Minor Modification approved on June 10, 2024, made revisions to the Original DA, the DOR COAs, the VTTM COAs, and the Mitigation Monitoring and Reporting Program Table included as Section 4.2 in the Final EIR ("**MMRP**").

- A Minor Modification approved on May 8, 2025, made revisions to the Original DA.

- A Minor Modification approved on February 4, 2026 made revisions to the Original DA, the DOR COAs, and the VTTM COAs. This Minor Modification was approved pursuant to an Amended and Restated Settlement Agreement and Mutual Release (amending and restating the Original Settlement Agreement), which became effective on January 12, 2026.

L. *Sale of Portion of the Property*. Lennar purchased from Imperial Avalon the portion of the Property that will contain the Townhomes ("**Lennar Transferred Property**") and entered into a Partial Assignment and Assumption Agreement with Imperial Avalon, recorded on October 1, 2024 ("**A/A Agreement**"), under which Imperial Avalon assigned to Lennar and Lennar assumed from Imperial Avalon all of Imperial Avalon's rights and obligations regarding the Lennar Transferred Property, including rights and obligations under this Agreement, as more fully described in the A/A Agreement. As shown in Exhibit C of the A/A Agreement, the City consented to the assignment and assumption effectuated through the A/A Agreement, as required by Section 11 of this Agreement.

M. *Application for Amended and Restated Development Agreement.* In or about December of 2025, Developer submitted to the City an application to amend and restate the Original DA, in order to incorporate changes made through the Approved Minor Modifications and to make other revisions to the Original DA contained in this Agreement.

N. *Approval of Amended and Restated Development Agreement*. On January 27, 2026, in accordance with Development Agreement Law, the Planning Commission held a duly noticed public hearing and adopted Resolution 26-2898, recommending that the City Council approve this Agreement. On _____, 2026, the City Council introduced, and subsequently, on _____, 2026, adopted, Ordinance No. 26-2606, making CEQA findings and approving this Agreement. The Planning Commission and the City Council have found, on the basis of substantial evidence based on the entire administrative record, that this Agreement is consistent with all applicable plans, rules, regulations and official policies of the City.

O. *Carson Park and Recreation Subsidy*. The Original DA, in Section 3.1.1, required Developer to pay to the City Three Hundred Thousand Dollars ($300,000) to be used by City to subsidize Carson residents' fees and costs associated with park and recreational registration, trophies, and jerseys ("**Carson Park and Recreation Subsidy**"). City and Developer acknowledge and agree that Developer has paid the Carson Park and Recreation Subsidy to the City in full as of the Execution Date of this Agreement. This provision is omitted from Article 3 of this Agreement only because it has already been satisfied; nothing herein shall be construed to retroactively rescind, remove or otherwise affect the validity of the original obligation in any way.

P. *Developer's Interest in the Property*. Developer currently owns the Property and as such, possesses the requisite equitable interest in the Property under Government Code Section 65865 that allows the Parties to enter into this Agreement.

Q. *Effect on Original DA and Approved Minor Modifications*. The Parties intend that this Agreement, upon taking effect, shall do the following:

(1) This Agreement shall supersede the Original DA and all amendments to the Original DA made through the Approved Minor Modifications.

(2) Exhibit D shall supersede the DOR COAs and the VTTM COAs, including all revisions made to the DOR COAs and VTTM COAs through the Approved Minor Modifications. Exhibit D also includes the SP COAs, which have not been modified.

(3) Amendments made by the Approved Minor Modifications to Specific Plan No. 21-19 and the MMRP shall remain in full force and effect.

COVENANTS

NOW, THEREFORE, in consideration of the above recitals and of the mutual covenants hereinafter contained and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Parties agree as follows:

1. GENERAL DEFINITIONS.

In addition to those terms defined within the above Recitals and elsewhere within this Agreement, the following terms shall bear the meanings set forth below:

1.1 "**Adopting Ordinance**" means Ordinance No. 22-2222 approving the Original DA, introduced on December 6, 2022, and adopted on December 13, 2022.

1.2 "**Agreement**" means this Amended and Restated Development Agreement, including all of its exhibits.

1.3 "**Annual Review**" means the annual review of the Developer's performance under this Agreement in accordance with Article 6 of this Agreement.

1.4 "**Applicable Laws**" means, collectively, the following:

a. The Project Development Approvals.

b. The Existing Land Use Regulations**.**

c. Subsequent Development Approvals.

d. Those Subsequent Land Use Regulations to which Developer has agreed in writing.

e. The Closure Approval and associated covenants and agreements, including without limitation the Option C Covenant and the Enhancements.

1.5 "**Approval Date**" means the date on which the City Council conducted the second

reading of the Adopting Ordinance. That date is December 13, 2022.

1.6 "**CFD**" means any Community Facilities District that is applicable to the Property and formed pursuant to the Mello Roos Community Facilities Act of 1982.

1.7 **"City**" means the City of Carson, a California Charter city.

1.8 "**City Council**" means the City Council of the City of Carson.

1.9 "**CMC**" means the Carson Municipal Code.

1.10 "**Conditions of Approval**" means all conditions imposed on the Project by the City, as amended by this Agreement, including (without limitation) those recommended by the Los Angeles County Fire Department, as part of the approval of the Project.

1.11 "**Director**" means the City's Community Development Director, or his or her designee.

1.12 "**Developer**" means IMPERIAL AVALON DE, LLC, a California limited liability company, LENNAR HOMES OF CALIFORNIA, LLC, a California limited liability company, and their successors and assigns to all or any part of the Property. The respective rights and obligations of Imperial Avalon DE, LLC, and Lennar Homes of California, LLC, under this Agreement are further clarified in the A/A Agreement, including any amendments thereto.

1.13 "**Developer's Vested Right**" means Developer's right to complete the Project in accordance with, and to the full extent permitted under, the Applicable Laws and this Agreement, as more fully set forth in Articles IV-V of this Agreement.

1.14 **"Development"** means the improvement of the Property for the purposes of completing the structures, improvements, and facilities comprising the Project including, but not limited to: grading; the construction of infrastructure related to the Project whether located within or outside the Property; the construction of buildings and structures; and the installation of landscaping and other facilities and improvements necessary or appropriate for the Project, and the maintenance, repair, or reconstruction of any building, structure, improvement, landscaping or facility after the construction and completion thereof.

1.15 "**Development Approvals**" means all Project-specific non-legislative approvals. Development Approvals include, but are not limited to, plans, maps, permits, site plans, design guidelines, variances, conditional use permits, grading, building, and other similar permits, environmental assessments, including environmental impact reports, and any amendments, addenda or modifications to those matters. "Development Approvals" does not include (i) rules, regulations, policies, and other enactments of general application within the City, (ii) legislative enactments, or (iii) any matter where City has reserved authority under Article 5 of this Agreement. Development Approvals are not Land Use Regulations.

1.16 "**Development Plan**" means Developer's plan for completion of the Project in compliance with and to the full extent of the Project Development Approvals and Applicable Laws.

1.17 "**Effective Date**" means the date on which the Adopting Ordinance became effective, or thirty (30) days after the second reading of the Adopting Ordinance.

1.18 "**Entitlements**" means this Agreement, and the other Entitlements and approvals listed in Recital H.

1.19 "**Exhibit**" means an exhibit to this Agreement, unless otherwise specifically referenced to a different agreement or document. The following exhibits are incorporated into the Agreement by reference as though set forth in full:

Exhibit A	Legal description of the Property
Exhibit B	Depiction of the Property
Exhibit C	Public Open Space Areas
Exhibit D	Amended and Restated COAs
Exhibit E	Excerpts from 2022 California Mechanical Code (Including the July 1, 2024 Supplement)

1.20 "**Existing Land Use Regulations**" means (i) all Land Use Regulations in effect on the Effective Date and (ii) any changes to Land Use Regulations enacted on or after the Approval Date and before the Effective Date for which Developer has provided its written consent to allow those changes to apply to the Project.

1.21 "**Land Use Regulations**" are laws and regulations enacted through legislative actions of the City Council. Land Use Regulations include ordinances, laws, resolutions, codes, rules, regulations, policies, requirements, guidelines or other actions of City, including but not limited to the City's General Plan and the CMC (including the Carson Zoning Ordinance, Chapter 1 of Article IX of the CMC) which affect, govern or apply to the development and use of the Property, including, without limitation, the permitted use of land, the density or intensity of use, subdivision requirements, the maximum height and size of proposed buildings, the provisions for reservation or dedication of land for public purposes, and the design, improvement, and construction standards and specifications applicable to the Project. "Land Use Regulations" do not include (i) Development Approvals, (ii) regulations relating to the conduct of business, professions, and occupancies generally, (iii) taxes and assessments, (iv) regulations for the control and abatement of nuisances, (v) health and safety regulations, or (vi) any other matter reserved to the City pursuant to Article 5 of this Agreement.

1.22 **"Mortgage**" means a (i) mortgage, deed of trust, or other security instrument encumbering the Property or (ii) a pledge agreement encumbering the membership interests in a Developer.

1.23 "**Mortgagee**" means a mortgagee of a mortgage, a beneficiary under a deed of trust, a pledgee of a pledge agreement, or any other security device, a lender, or each of their respective successors and assigns.

1.24 "**Project**" as described this Agreement, means the development of the Property consistent with and to the full extent of the Project Development Approvals and all applicable Land Use Regulations.

1.25 "**Project Development Approvals**" means all Development Approvals, inclusive of the Entitlements and all Conditions of Approval. Project Development Approvals include, without limitation, all Development Approvals needed or desired by Developer to complete the Project, provided that those Development Approvals are consistent with Developer's Vested Right, this Agreement, and the City's General Plan and the Carson Zoning Ordinance.

1.26 "**Property**" means the real property described in Exhibit "A" and shown in Exhibit "B."

1.27 "**Reservation of Authority**" means the limitations, reservations, and exceptions to Developer's Vested Right set forth in Article 5 of this Agreement.

1.28 "**Subsequent Land Use Regulations**" means those Land Use Regulations which are both adopted and effective on or after the Approval Date and which are not included within the definition of Existing Land Use Regulations.

1.29 "Subsequent Development Approvals" means all Development Approvals issued subsequent to the Effective Date in connection with development of the Property, which shall include, without limitation, any changes to the Development Approvals.

1.30 "**Term**" shall have the meaning ascribed to it in Section 2.1, unless earlier terminated as provided in this Agreement.

2. TERM & GENERAL COVENANTS.

2.1 Term. The term of this Agreement (the "**Term**") starts on the Effective Date and shall expire 15 years after December 13, 2022, subject to any early termination provisions described in this Agreement. The Term and expiration date of all Entitlements and Project Development Approvals shall also be extended to 15 years consistent with the Term of this Agreement.

2.2 Binding Effect of Agreement. From and following the Effective Date, actions by the City and Developer with respect to the development of the Property for completion of the Project, including actions by the City on applications for Subsequent Development Approvals affecting the Property, shall be subject to the terms and provisions of this Agreement.

2.3 Agreement Runs with the Land. This Agreement shall be recorded and shall run with the land. Pursuant to Government Code Section 65868.5, the burdens of this Agreement and each of its provisions shall be binding upon, and the benefits of this Agreement shall inure to, all successors in interest to the Parties, including, but not limited to, all parties that enter into lease agreements with Developer for possession of any part of the Property.

2.4 Covenant Against Discrimination. The Developer covenants that, by and for itself, its heirs, executors, assigns, and all persons claiming under or through them, that there shall be no discrimination against or segregation of, any person or group of persons on account of race, color, creed, religion, sex, marital status, sexual orientation or gender preference, national origin, or ancestry in the performance of this Agreement. The Developer shall take affirmative action to ensure that employees are treated during employment without regard to their race, color, creed,

religion, sex, marital status, sexual orientation or gender preference, national origin, or ancestry.

2.5 Construction Timing and Park Closure. Developer covenants that Project construction will not commence until the existing mobilehome park at the Property (i.e., the Park) has been closed and all remaining Park residents or occupants have vacated the Property. As of the date of this Agreement, Developer and City acknowledge and agree that the Park has been closed and all Park residents or occupants have vacated the Property.

2.6 Park Closure Application and Covenants. Developer further acknowledges that nothing in this Agreement is intended to supersede or negate the benefits committed to Park residents (current or former) approved through the separate Closure Approval or associated covenants or agreements, including the Option C Covenant and the Enhancements, which are unrelated to the Project and this Agreement.

2.7 Original DA and Approved Minor Modifications.

2.7.1 From and after the effective date of the City ordinance approving this Amended and Restated Development Agreement, the Original DA and all revisions to the Original DA made in the Approved Minor Modifications shall be void and of no further force or effect, and shall be superseded by this Agreement, which is intended as an amendment and restatement of the Original DA.

2.7.2 From and after the effective date of the City ordinance approving this Amended and Restated Development Agreement, the DOR COAs and VTTM COAs and all revisions to the DOR COAs and VTTM COAs made in the Approved Minor Modifications shall be replaced in their entirety by the Amended and Restated DOR COAs and Amended and Restated VTTM COAs in Exhibit D of this Agreement.

2.7.3 Notwithstanding section 2.7.1 and 2.7.2, all revisions to Specific Plan No. 21-19 and the MMRP made through the Approved Minor Modifications shall remain in full force and effect.

3. DEVELOPER'S OBLIGATIONS AND COMMUNITY BENEFITS.

As consideration for the granting of Developer's Vested Right in accordance with Article 4 below and subject to the City's Reservation of Authority set forth in Article 5 below, Developer shall do all of the following:

3.1 Senior and Veteran Housing.

3.1.1 Prior to issuance of a Certificate of Occupancy, the Developer shall prepare, submit to the City for review, and implement a veterans and senior citizen marketing and outreach program for the Project's Apartment units, subject to the prior written approval of the Director, which approval shall not be unreasonably withheld, conditioned or delayed. Developer shall exclusively market the Project's Apartment units to veterans and their families as well as senior citizens (over the age of 55) who currently reside within the City or the general South Bay area for a period of sixty (60) days prior to the units being offered for rent to the general public ("Exclusive Pre-Lease Period"). During this Exclusive Pre-Lease Period, Developer shall make best efforts to

lease units to local veterans and their family members and senior citizens provided that all such applicants meet generally applicable leasing qualifications and criteria imposed by Developer. Nothing in this Agreement shall require that any of the Project Apartment units be actually occupied by local veterans or their family members. Further, nothing in this Agreement requires more than 83 of the total 1,115 units to be leased to senior citizens at a given time.

3.1.2 Commencing two years after issuance of a certificate of occupancy for the second Apartment building, Developer shall demonstrate to the City on an annual basis that at least eighty-three (83) of the Project's Apartment units are rented to senior citizens (defined as fifty-five (55) years or older) ("Project Senior Obligation"). The Developer shall demonstrate it is meeting the Project Senior Obligation by providing rental information or other form of occupancy verification confirming that seniors are renting at least 83 of the Project Apartment units.

3.2 Apartment and Townhome Enhanced Sustainability and Environmental Benefits. Developer shall agree to incorporate the following enhanced sustainability and environmental benefits into construction of the Apartments and Townhomes for the Project. In recognition of the enhanced environmental benefits provided by the Project Apartments and Townhomes through this Section 3.2, the City shall subject the Project Apartments and Townhomes to the 2019 California Building Standards Code as applicable to and/or adopted by the City pursuant to CMC Article VIII, provided Developer submits a conceptual design package to the City's Building & Safety Department on the City Building & Safety Department's Online Plan check (BSOP) website prior to January 1, 2023. The conceptual design package shall consist of a schematic set of development and design plans for all disciplines with sufficient detail for the City to undertake zoning compliance review, but shall not be required to include landscaping, structural, energy, accessibility, mechanical, electrical and/or plumbing related plans and design, provided it is within the City's legal discretion to deem such submittal complete as necessary to facilitate such grandfathering under applicable state and local law. A full set of construction plans with all disciplines shall be submitted prior to January 1, 2024 for the Apartments and Townhomes. Upon submittal of the full set of construction drawings, the Project shall be subject to the 2019 California Building Standards Code for the Term of this Agreement as specified in Section 2.1. It is further acknowledged that Developer submitted the necessary construction documents to the City's Building & Safety Department on or before December 11, 2023, prior to the January 1, 2024 deadline, and has therefore fully satisfied the requirements as set forth above in this Section 3.2 to subject the entire Project (Townhomes and Apartments) to the 2019 California Building Standards Code for the duration of the Term of the Agreement.

a. **Refrigerant Requirements and Additional EVCS Requirements for Apartments.**

(i) Notwithstanding the first paragraph of Section 3.2, the Apartments shall comply with Sections 1104.6.1 through 1104.6.2.4, inclusive, of the 2022 California Mechanical Code ("CMC") (including the July 1, 2024 Supplement), attached hereto as Exhibit E, which specify the type of refrigerant to be used for air conditioning systems and provide enhanced environmental benefits as compared to the requirements of the 2019 CMC.

(ii) In addition to the 15% of Apartment building parking spaces requiring full EVCS with EV chargers installed under subsection 3.2(b), an additional five percent (5%) of the Apartment parking spaces (otherwise required to only have conduit and wiring for future EVCS installation under subsection 3.2(b)) shall have full EVCS with EV chargers installed.

(iii) Notwithstanding any other provision of this subsection 3.2(a), the Apartments shall comply with the 2019 California Building Code requirements, including requirements related to providing conduit to ensure the Apartments are solar-ready for future installations. Where there are inconsistencies between the requirements of this Agreement and the 2019 California Building Code, Developer shall comply with the requirements of the 2019 California Building Code with the Los Angeles County Amendments.

(iv) This subsection 3.2(a) does not alter or modify any requirement applicable to the Townhomes.

b. **Enhanced Electric Vehicle Charging Stations ("EVCS").** Developer shall equip a total of fifty percent (50%) of the Project parking spaces with an EVCS benefit, as follows: (a) fifteen percent (15%) of the total Project parking spaces shall be full EVCS, with EV chargers installed; and (b) thirty-five percent (35%) of the total Project parking spaces shall have conduit and wiring to allow for future EVCS installation. The electrical panel for all buildings shall be designed such that it can accommodate full EVCS for 50% of parking spaces for the Project. EVCS spaces shall be assigned and managed in accordance with the parking management plan required per the Conditions of Approval, which may require the Developer to convert the EVCS parking spaces that are initially only provided with conduit and wiring into full EVCS parking spaces (with chargers installed) incrementally over time based on tenant need. All Townhomes shall have 240 volt NEMA 14-50 installed in the garage. All Townhomes shall have conduit and wiring for future solar installations.

c. **Mechanical Dwelling Unit System Efficiency Benefit.** The Project provides a mechanical dwelling unit system with a Seasonal Energy Efficiency Ratio ("SEER") of 15.

d. **Lighting Occupancy Sensors and Fenestration Energy Efficiency.** Notwithstanding any other provision of this Section 3.2, the Project shall: (i) provide state of the art occupancy sensors consistent with the California Energy Code in place at the time the time of Project permitting; and (ii) purchase and install windows and exterior façade materials consistent with the California Energy Code requirements in place at the time of Project permitting.

3.3 Publicly Accessible, Privately Maintained Open Space. Developer shall make the Project open space areas identified on Exhibit C attached to this Agreement ("**Public Open Space Areas**"), which total approximately 111,581 square feet, accessible to the public during the hours of 7:00 a.m. to 7:00 p.m. Developer shall be fully responsible for all maintenance, care and upkeep of the Public Open Space Areas through the life of the Project; this obligation shall survive

any termination or expiration of this Agreement.

3.4 Existing Pedestrian Bridge. Developer and City shall immediately commence good faith negotiations on improving the existing bridge that crosses the Dominguez Channel and connects Avalon Boulevard with Lenardo Boulevard ("Bridge"). Such negotiations will focus on improvements to the Bridge that will a) create and enhance the pedestrian access between Avalon Boulevard and Lenardo Boulevard; and b) improve the aesthetic appearance of the Bridge and the pedestrian connection between Avalon Boulevard and Lenardo Boulevard. Subject to any requisite approvals from any authority with jurisdiction over the Bridge, such improvements will include, but are not limited to, the following:

(1) removing the existing "PEDESTRIANS PROHIBITED" sign to allow for pedestrian access;

(2) restriping, or otherwise improving the aesthetic appearance of the Bridge;

(3) improving the pedestrian experience between Avalon Boulevard and Lenardo Boulevard through the installation of new landscaping and amenities such as additional wayfinding signage, etc. or other aesthetic improvements (collectively, the "**Improvements**").

Developer shall contribute an aggregate amount up to but not to exceed one hundred and twenty-five thousand dollars ($125,000), unless otherwise agreed to by Developer and City in a separate agreement, towards the Improvement no later than five (5) years from the Effective Date.

3.5 Restaurant and Kitchen Timing. Developer agrees that the restaurant space to be included in the Project's approximately 10,000 square feet (including outdoor/patio space) of ground floor commercial area must include a fully built out kitchen prior to issuance of a certificate of occupancy for the last residential building constructed within the Project.

3.6 Art Benefit.

a. **Apartments.** Prior to issuance of any certificates of occupancy for each of the two Apartment buildings, the Developer shall pay a public art fee equal to one percent (1%) of the total building valuation for the respective Apartment buildings as determined by the City's Building Official in accordance with the Marshall-Swift Valuation Guide per the City Building Official's standard practice ("Apartment Art Fee").

In lieu of paying the Apartment Art Fee, Developer may incorporate on-site art ("Apartment Art"), including but not limited to art within the exterior north side of the Project facing the 405 freeway, to the satisfaction of the Director, in which case Developer shall submit an Apartment Art plan, valuation, and implementation plan to the Director prior to issuance of the first certificate of occupancy for the respective Apartment building.

Unless otherwise approved by the Director pursuant to the Apartment Art implementation plan, Developer's on-site Apartment Art which corresponds to a particular building shall be installed prior to issuance of a final certificate of occupancy for the respective building. Individual

art valuations shall be submitted for each building. Should the value of Developer's onsite Apartment Art be less than one percent (1%) of the total building valuation for each of the two Apartment buildings, respectively, then Developer shall pay the City the difference in its entirety prior to issuance of the final certificate of occupancy for the respective Apartment building.

b. **Townhomes.** Prior to issuance of any certificates of occupancy for the Townhomes, the Developer shall pay a public art fee equal to one percent (1%) of the total building valuation for all Townhomes as determined by the City's Building Official in accordance with the Marshall-Swift Valuation Guide per the City Building Official's standard practice ("Townhome Art Fee").

In lieu of paying the Townhome Art Fee, Developer may incorporate on-site art ("Townhome Art"), including but not limited to art within the exterior north side of the Project facing the 405 freeway, to the satisfaction of the Director, in which case Developer shall submit a Townhome Art plan, valuation, and implementation plan to the Director prior to issuance of the first certificate of occupancy for the Townhomes.

Unless otherwise approved by the Director pursuant to the Townhome Art implementation plan, Developer's on-site Townhome Art shall be installed prior to issuance of a final certificate of occupancy for the Townhomes. Should the value of Developer's onsite Townhome Art be less than one percent (1%) of the total building valuation for Townhomes, then Developer shall pay the City the difference in its entirety prior to issuance of the certificate of occupancy for the 150th Townhome constructed as part of the Project.

3.7 Traffic Signal. Developer shall fund and install a new traffic signal at the Project entry location on Avalon Boulevard between the I-405 interchange and 213th Street, in accordance with plans approved by the City's Director of Public Works or his or her designee, which shall include approval of the projected costs. Developer will be eligible for reimbursement of up to 50% of the approved costs of the new traffic signal by City upon completion of the comprehensive redevelopment of the Kott site (located to the east of the Property, north of E. 213th St. and east of Avalon Blvd. to the I-405 freeway). Developer shall submit plans for the traffic signal with an estimate of the cost prior to issuance of the first building permit issued for the Project and shall complete installation prior to issuance of the first Project certificate of occupancy.

In addition to the traffic signal at the Project entry location on Avalon Boulevard between the I-405 interchange and 213th Street, Developer is responsible to signalize the currently stop-controlled Grace Avenue/213th Street intersection per MMRP PDF-TRA-2 ("Grace Avenue/213th Street Signalization"). In lieu of signalizing the intersection, Developer may pay an in-lieu fee of Seven Hundred and Fifty Thousand Dollars ($750,000) to the City. The in-lieu fee shall be payable as follows: One Hundred Thousand Dollars ($100,000) shall be due prior to issuance of any Building Permit for the Project and Six Hundred and Fifty Thousand Dollars ($650,000) shall be due prior to issuance of any Certificate of Occupancy for the Project in order to satisfy the requirement. The amount prescribed shall be used by the City to upgrade the Grace Avenue/213th Street intersection.

4 DEVELOPMENT OF THE PROPERTY.

4.1 Scope of Developer's Vested Right. Subject to the Reservation of Authority set forth in Article 5, Developer shall have the vested right to develop the Project in accordance with and to the full extent permitted under the Applicable Laws and this Agreement ("**Developer's Vested Right**").

4.2 Effect of Agreement on Land Use Regulations. Except as otherwise provided under the terms of this Agreement, the rules, regulations and official policies governing permitted uses of the Property, the density and intensity of use of the Property, the maximum height and size of proposed buildings, and the design, improvement and construction standards and specifications applicable to the Development of the Property, shall be as set forth in the Existing Land Use Regulations which were in full force and effect as of the Effective Date, subject to the terms of this Agreement.

4.3 Rights under State and Federal Law. Developer shall retain all rights it has under state and federal law, including, but not limited to, Developer's rights under Government Code Section 65865.2, which provides that subsequent discretionary actions shall not prevent development of the Property for the uses and to the density or intensity of development set forth in the Project Development Approvals.

4.4 Apportionment. Developer shall have the right to apportion the uses, intensities, and densities of the Project between itself and any subsequent owners, upon the sale, transfer, or assignment of all or any portion of the Property, so long as such apportionment is consistent with the Applicable Laws and this Agreement.

4.5 Lesser Development. Except as otherwise provided in this Agreement: without amending this Agreement, Developer shall have the right to elect to develop and construct upon all or any portion of the Property a Project of lesser height or building size than that permitted by the Project Development Approvals provided that the Project otherwise complies with the Project Development Approvals and this Agreement.

4.6 Project Development Approvals; Subsequent Development Approvals. The Project Development Approvals for the Project may require the processing of Subsequent Development Approvals. Subject to the provisions of Section 4.7 below, the City shall accept for processing, review and action all applications for Subsequent Development Approvals, and such applications shall be processed in the normal manner for processing such matters in accordance with the Existing Land Use Regulations. The parties acknowledge that subject to the Existing Land Use Regulations, under no circumstances shall City be obligated in any manner to approve any Subsequent Development Approval, or to approve any Subsequent Development Approval with or without any particular condition. However, unless otherwise requested by Developer, City shall not, without good cause, amend or rescind any Subsequent Development Approvals respecting the Property after such approvals have been granted by the City. Processing of Subsequent Development Approvals or changes in the Project Development Approvals made pursuant to Developer's application shall not require an amendment to this Agreement. This Agreement shall not prevent City from denying or conditionally approving any application for a Subsequent Development Approval on the basis of the Existing Land Use Regulations.

4.7 Role of Project Development Approvals. Except as provided within this

Agreement, the Project Development Approvals shall exclusively control the uses of the Property, the density or intensity of use, the maximum height and size of proposed buildings, the provisions for reservation or dedication of land for public purposes and the design, improvement, and construction standards and specifications applicable to the Project. Pursuant to Government Code Section 66452.6, the term of any tentative map for the Property or any portion thereof, if any, filed within the term of this Agreement shall automatically be extended for the term of this Agreement, as amended by the Project Development Approvals. In addition, Developer shall have the right to commence Project construction of both Apartment buildings and the Townhomes within the Project prior to the recordation of an approved final subdivision map No. 83157 if applicable permits have been issued and all other applicable conditions of approval and Development Agreement provisions are met. However, the approved final subdivision map must be recorded prior to issuance of any certificates of occupancy (temporary or otherwise) for the Project, and prior to any occupancy of the Project. Following recordation of the final subdivision map, temporary certificates of occupancy shall be issued if buildings or units are deemed to have satisfied all applicable fire-life safety components and systems to safely occupy the completed areas as determined by the Building Official. To support development of the Project, which may be completed in phases, the City hereby agrees that final certificates of occupancy shall also be issued for each individual Project phase. The anticipated phases consist of: (i) the Townhome component, (ii) the first Apartment building and (iii) the second Apartment building, respectively. Any tentative map prepared for the Project subdivision will comply with Government Code Section 66473.7.

4.8 Moratorium. Notwithstanding any other provision of this Agreement, no future amendment of any existing City ordinance or resolution or any subsequent ordinance, resolution or moratorium, enacted either by the City Council or by voter approved initiative, that purports to impose or result in a limitation on the Project, imposed by City, shall apply to govern, or regulate the Project or development or use of the Property during the Term. In the event of any such subsequent action by City, Developer shall continue to be entitled to apply for and receive Development Approvals in accordance with the Existing Land Use Regulations, subject only to the exercise of the City's Reservation of Authority set forth herein.

4.9 Maintaining Property. The Property must at all times be maintained and generally kept in a clean condition, in accordance with the CMC and the City's code enforcement regulations.

5. CITY'S RESERVATION OF AUTHORITY.

Notwithstanding Developer's Vested Right, the Project is subject to the following Subsequent Land Use Regulations:

5.1 City's Discretion Under Applicable Laws. In considering future applications, if any, for a Subsequent Development Approval, the City may exercise its regulatory discretion to the extent permitted by the Applicable Laws.

5.2 Uniform Codes. Changes adopted by the International Conference of Building Officials, or other similar body, as part of the then most current versions of the Uniform Building Code, Uniform Fire Code, Uniform Plumbing Code, Uniform Mechanical Code, or National Electrical Code, or other such Uniform Codes, and also adopted by City as Subsequent Land Use

Regulations, but only if: (i) the Project is not subjected to the 2019 codes pursuant to Section 3.2 of this Agreement; and (ii) such changes are applicable City-wide.

5.3 Emergencies. Emergency rules, regulations, laws, and ordinances within the City's police power that would limit the exercise of Developer's Vested Right ("**Conflicting Emergency Regulations**"), provided that the Conflicting Emergency Regulations:

a. Result from a sudden, unexpected emergency declared by the President of the United States, Governor of California, County Board of Supervisors and applicable to incorporated areas, including the City, or the City Council;

b. Address a clear and imminent danger, with no effective reasonable alternative available that would have a lesser adverse effect on Developer's Vested Right;

c. Do not primarily or disproportionately impact the development of the Project; and

d. Are based upon findings of necessity established by a preponderance of the evidence at a public hearing.

5.4 Laws of Other Jurisdictions. Other public agencies not subject to control by City may possess authority to regulate aspects of the Project. This Agreement does not limit the authority of such other public agencies. Therefore:

a. Federal, state, county, and multi-jurisdictional laws and regulations (the "**Additional Regulations**"), including regional impact fees, which City is required to enforce against the Property or the Project, except if the Additional Regulations are for the purpose of mitigating a significant or potentially significant impact that has already been mitigated pursuant to the Project's EIR.

b. If an Additional Regulation is enacted after the Effective Date and prevents or precludes compliance with one or more of the provisions of this Agreement, those provisions shall be modified or suspended as may be necessary to comply with the Additional Regulation. In that event, this Agreement shall remain in full force and effect to the extent it is not inconsistent with the Additional Regulation and to the extent that the suspension or modification necessitated by the Additional Regulation does not deny one of the Parties its primary benefits under this Agreement.

c. Developer shall apply in a timely manner for such other permits and approvals that are lawfully required by other governmental or quasi-governmental agencies in order to allow the Project to be constructed. City shall provide Developer reasonable cooperation in Developer's efforts to obtain such permits and approvals. The Parties shall cooperate and use reasonable efforts in coordinating the implementation of the Development with other public agencies, if any, having jurisdiction over the Property or

the Project.

5.5 Modification or Suspension by Federal or State Laws. In the event that Federal or State laws or regulations, enacted after the Effective Date, prevent or preclude compliance with one or more of the provisions of this Agreement, such provisions of this Agreement shall be modified or suspended as may be necessary to comply with such Federal or State laws or regulations, and this Agreement shall remain in full force and effect to the extent it is not inconsistent with such laws or regulations and to the extent such laws or regulations do not render such remaining provision impractical to enforce.

5.6 Employment Outreach for Local Residents. A goal of the City with respect to this Project and other major projects within the City is to foster employment opportunities for Carson residents. To that end, Developer covenants that with respect to the construction, operation and maintenance of the Project, the Developer shall make reasonable efforts to cause all solicitations for full or part-time, new or replacement, employment relating to the construction, operation and maintenance of the Project to be advertised in such a manner as to target local City residents and shall make other reasonable efforts at local employment outreach as the City shall approve. Developer shall also notify the City of jobs available at the Project such that the City may inform City residents of job availability at the Project. Developer will inform its purchasers and lessees of the provisions of these requirements. Nothing in this paragraph shall require Developer to offer employment to individuals who are not otherwise qualified for such employment. Without limiting the generality of the foregoing, the provisions of this Section 5.6 are not intended, and shall not be construed, to benefit or be enforceable by any person whatsoever other than City.

5.7 Prevailing Wages. Developer's cost of developing the Project and constructing all of the on-site and off-site improvements, if any, at or about the Property required to be constructed for the Project shall be borne by Developer. Developer is aware of the laws of the State governing the payment of prevailing wages on public projects and will comply with same and will defend, hold harmless, and indemnify City in the event Developer fails to do so. As the City is not providing any direct or indirect financial assistance to Developer, the Project should not be considered to be a "public work" "paid for in whole or in part out of public funds," as described in California Labor Code Section 1720. Accordingly, it is believed by the parties that Developer is not required to pay prevailing wages in connection with any aspect of the Development or the construction of the Project. However, to the extent that (contrary to the parties' intent) it is determined that Developer was required to pay prevailing wage and has not paid prevailing wages for any portion of the Project, Developer shall defend, indemnify, and hold the City (which, for purposes of this section, shall include its related agencies, officers, employees, agents and assigns) harmless from and against any and all increase in construction costs, or other liability, loss, damage, costs, or expenses (including reasonable attorneys' fees and court costs) arising from or as a result of any action or determination that Developer failed to pay prevailing wages in connection with the construction of the Project. City shall reasonably cooperate with Developer regarding any action by Developer hereunder challenging any determination that the Project is subject to the payment of prevailing wages. Notwithstanding the foregoing, the City retains the right to settle or abandon the matter without Developer's consent as to the City's liabilities or rights only, but should it do so, City shall waive the indemnification herein provided such waiver occurs prior to the issuance of any judgment in the matter.

5.8 Fees, Taxes, and Assessments.

a. **Processing Fees**. The Developer shall pay all processing fees and charges of every kind and nature imposed by City to cover the estimated actual costs to City of processing applications for Project Development Approvals, including but not limited to, City Attorney fees incurred by City for the review, preparation and negotiation of the Entitlements, inclusive of this Agreement, at a rate of $495 per hour for partners and $395 per hour for associates, and for monitoring compliance with any Project Development Approvals granted or issued, in accordance with the Reimbursement and Indemnification Agreement entered into by and between the Parties effective December 16, 2019, and as amended and restated pursuant to the First Amended Reimbursement and Indemnification Agreement entered into by and between the Parties effective June 1, 2022, and as the same may be amended from time to time by mutual agreement of the Parties.

b. **Permit Fees**. Except as expressly provided in this Agreement, Developer shall pay all standard permit fees and other fees and charges which are standard and uniformly-applied to similar projects in the City.

c. **Master Community Facilities District.** On November 7, 2018, the City formed a Master CFD entitled City of Carson Community Facilities District No. 2018-01 (Maintenance and Services) (the "**Master CFD**") for the purpose of funding the maintenance of public infrastructure within the area of the Master CFD which is within the City's jurisdictional boundaries (the "**Services**") including areas that voluntarily annex into the Master CFD. The Parties agree that the City will not require annexation of the Property or the Project into the Master CFD for the life of the Project. This provision shall survive the Term of the Agreement.

d. **Development Impact Fee.** Developer shall be required to pay any Development Impact Fees that would normally be required in the execution of the Project pursuant to City Ordinance No. 19-1931. In accordance with Carson Municipal Code Section 11504, the City has determined that Developer shall not be required to pay Development Impact Fees for any Townhome or Apartment building until the issuance of a certificate of occupancy for the specific Townhome or Apartment building or up to twelve (12) months following the issuance of the building permit for the specific Townhome or Apartment building, whichever occurs first. The deferred Development Impact Fee payments will be based on the fees in effect at the time of actual payment, including any applicable fee credits or reimbursements to which Developer might be entitled under the Carson Municipal Code. Developer's obligation for payment of Development Impact Fees is as more particularly detailed in DOR Condition of Approval No. 59 and VTTM Condition of Approval No. 103. This provision is intended to be, and shall be implemented so as to be, consistent with the requirements of Government Code Section 66007, and is not intended to

confer a unique or special benefit on the Project that it would not otherwise be entitled to under state law and the Carson Municipal Code.

e. **General Charges**. Nothing herein shall prohibit the application of the following, if lawfully imposed upon the Property, excluding any existing or future CFD:

(i) Additional Taxes, Fee, and Charges. Developer, or Developer's Project occupants, shall pay all normal and customary taxes, fees, and charges applicable to all permits necessary for the Project, and any taxes, fees, and charges hereafter imposed by City, which are standard and uniformly-applied to similar properties in the City.

(ii) Developer, or Developer's Project occupants, shall be obligated to pay any fees or taxes, and increases thereof, imposed on a City-wide basis such as business license fees or taxes, sales or use taxes, transient occupancy taxes, utility taxes, and public safety taxes;

(iii) Developer, or Developer's Project occupants, shall be obligated to pay any fees imposed pursuant to any Uniform Code.

(iv) Developer, or Developer's Project occupants, shall be obligated to pay any utility fees and charges, including amended rates thereof, for City services such as electrical utility charges, water rates, and sewer rates.

5.9 Inconsistencies. It is expressly agreed that in the event of any inconsistency between the provisions or conditions of the Existing Land Use Regulations or Conditions of Approval and the provisions of this Agreement, the provisions of this Agreement shall govern. The conditions of such Existing Land Use Regulations and Conditions of Approval shall be interpreted insofar as possible to prevent such inconsistency, and in the event this Agreement is silent concerning an issue, the conditions of the Existing Land Use Regulations and Conditions of Approval shall govern. As between several instruments and regulations governing the Project, in the event of a clear and explicit conflict which cannot be resolved through interpretation, the following interpretive priorities shall apply: (i) the terms of this Agreement shall prevail over the provisions of the Existing Land Use Regulations and Project Development Approvals except where the Conditions of Approval are more restrictive, in which event the Conditions of Approval shall prevail; (ii) the terms of the Project Development Approvals shall prevail over the terms of the Existing Land Use Regulations, except where such Existing Land Use Regulations are legally preemptive; and (iii) the terms of the Project Development Approvals shall take priority over the provisions of the CEQA instruments and EIR approved in conjunction with the Project, except where the EIR is legally preemptive.

6. ANNUAL REVIEW.

6.1 Timing of Annual Review. Pursuant to Government Code Section 65865.1, at least once during every twelve (12) month period of the Term, City shall review the good faith compliance of Developer with the terms of this Agreement ("**Annual Review**"). No failure on the

part of City to conduct or complete an Annual Review as provided herein shall have any impact on the validity of this Agreement, nor shall it be deemed a breach on the part of Developer. The cost of the Annual Review shall be borne by Developer and Developer shall pay the actual and reasonable costs incurred by the City for such review.

6.2 Special Review. The City Council may, in its sole and absolute discretion, order a special review of compliance with this Agreement at any time at City's sole cost ("**Special Review**"). Developer shall cooperate with the City in the conduct of such Special Reviews.

6.3 Standards for Annual Review. During the Annual Review, Developer shall demonstrate good faith compliance with the terms of this Agreement. "**Good faith compliance**" shall be established if Developer is in substantial compliance with the material terms and conditions of this Agreement.

6.4 Procedure. Each party shall have a reasonable opportunity to assert matters which it believes have not been undertaken in accordance with the Agreement, to explain the basis for such assertion, and to receive from the other party a justification of its position on such matters. The procedure for an Annual Review or Special Review shall be as follows:

a. As part of either an Annual Review or Special Review, within ten (10) days of a request for information by the City, the Developer shall deliver to the City all information and supporting documents reasonably requested by City (i) regarding the Developer's performance under this Agreement demonstrating that the Developer has complied in good faith with the terms of this Agreement, and (ii) as required by the Existing Land Use Regulations.

b. The City Manager, or his/her designee, shall prepare and submit to Developer a written report on the performance of this Agreement and identify any perceived deficiencies in Developer's performance of this Agreement. The Developer may submit written responses to the report and Developer's written response shall be included in the City Manager's report. If the City Manager determines that the Developer has substantially complied with the terms and conditions of this Agreement, the Annual or Special Review shall be concluded.

c. If any deficiencies are noted, or if requested by a Councilmember, a public hearing shall be held before the City Council at which the Council will review the City Manager's report. The report to Council shall be made at a regularly-scheduled City Council meeting occurring as soon as possible, subject to the requirements of the Brown Act, after the commencement of the Annual or Special Review process outlined in this Section 6.4. If the City Council finds and determines, based on substantial evidence, that the Developer has not substantially complied with the terms and conditions of this Agreement for the period under review, the City may declare a default by the Developer in accordance with Article 7.

d. Neither party hereto shall be deemed in breach if the reason for non-compliance is due to a "force majeure" as defined in, and subject to the provisions of, Section 13.11.

6.5 Certificate of Agreement Compliance. If, at the conclusion of an Annual Review or a Special Review, Developer is found to be in compliance with this Agreement, City shall, upon written request by Developer, issue a Certificate of Agreement Compliance ("**Certificate**") to Developer stating that after the most recent Annual Review or Special Review and based upon the information known or made known to the City Manager, Planning Commission, and City Council that (i) this Agreement remains in effect and (ii) Developer is in compliance. The Certificate, whether issued after an Annual Review or Special Review, shall be in recordable form, shall contain information necessary to communicate constructive record notice of the finding of compliance. Developer shall at its cost record the Certificate with the County Recorder. Additionally, Developer may at any time request from the City a Certificate stating, in addition to the foregoing, which obligations under this Agreement have been fully satisfied with respect to the Property, or any lot or parcel within the Property.

6.6 Review Process Not a Prerequisite to Declaring a Default. Neither the Annual Review nor Special Review procedure is a prerequisite to either party declaring a default and initiating the default and cure procedure in Article 7. In other words, either party may declare a default at any time without first undertaking the Annual Review or Special Review process.

6.7 Public Hearings. The public hearing prescribed by Section 6.4 is independent of, and in addition to, any further hearing procedures relating to defaults and remedies prescribed in Article 7 below. Thus, if the City Council finds that the Developer has not substantially complied with the terms and conditions of this Agreement as part of a review process pursuant to Section 6.4 and determines to declare a default, the City Council is still required to follow the notice/cure process (Section 7.2) and the termination hearing process (Section 7.4) before terminating this Agreement.

7. DEFAULTS AND REMEDIES.

7.1 Remedies Available. The parties acknowledge and agree that other than the termination of this Agreement pursuant to Article 7, specific performance, injunctive and declaratory relief are the only remedies available for the enforcement of this Agreement and knowingly, intelligently, and willingly waive any and all other remedies otherwise available in law or equity. Accordingly, and not by way of limitation, and except as otherwise provided in this Agreement, Developer shall not be entitled to any money damages from City by reason of any default under this Agreement. Further, Developer shall not bring an action against City nor obtain any judgment for damages for a regulatory taking, inverse condemnation, unreasonable exactions, reduction in value of property, delay in undertaking any action, or asserting any other liability for any matter or for any cause which existed or which the Developer knew of or should have known of prior to the time of entering into this Agreement, Developer's sole remedies being as specifically provided above. Developer acknowledges that such remedies are adequate to protect Developer's interest hereunder and the waiver made herein is made in consideration of the obligations assumed by the City hereunder.

7.2 Declaration of Default & Opportunity to Cure.

a. Rights of Non-Defaulting Party after Default. The parties acknowledge that both parties shall have hereunder all legal and equitable remedies as provided by law following the occurrence of a default or to enforce any covenant or agreement herein except as provided in Section 7.1. Before this Agreement may be terminated or action may be taken to obtain judicial relief the party seeking relief ("**Non-Defaulting Party**") shall comply with the notice and cure provisions of this Section 7.2.

b. Notice and Opportunity to Cure. A Non-Defaulting Party in its discretion may elect to declare a default under this Agreement in accordance with the procedures hereinafter set forth for any failure or breach of the other party ("**Defaulting Party**") to perform any material duty or obligation of the Defaulting Party under the terms of this Agreement. However, the Non-Defaulting Party must provide written notice to the Defaulting Party setting forth the nature of the breach or failure and the actions, if any, required by the Defaulting Party to cure such breach or failure (the "**Default Notice**"). The Defaulting Party shall be deemed in Default under this Agreement, if the breach or failure can be cured, but the Defaulting Party has failed to take such actions and cure such default within thirty (30) days after the date of such notice or ten (10) days for monetary defaults (or such lesser time as may be specifically provided in this Agreement). However, if such non-monetary Default cannot be cured within such thirty (30) day period, and if and, as long as the Defaulting Party does each of the following:

(i) Notifies the Non-Defaulting Party in writing with a reasonable explanation as to the reasons the asserted default is not curable within the thirty (30) day period;

(ii) Notifies the Non-Defaulting Party of the Defaulting Party's proposed cause of action to cure the default;

(iii) Promptly commences to cure the default within the thirty (30) day period;

(iv) Makes periodic reports to the Non-Defaulting Party as to the progress of the program of cure; and

(v) Diligently prosecutes such cure to completion.

Then the Defaulting Party shall not be deemed in breach of this Agreement.

7.3 Termination Notice. Upon receiving a Default Notice, should the Defaulting Party fail to timely cure any default, or fail to diligently pursue such cure as prescribed above, the Non-Defaulting Party may seek termination of this Agreement, in which case the Non-Defaulting Party shall provide the Defaulting Party with a written notice of intent to terminate this Agreement ("**Termination Notice**"). The Termination Notice shall state that the Non-Defaulting Party will

elect to terminate this Agreement within thirty (30) days and state the reasons therefor (including a copy of any specific charges of default or a copy of the Default Notice) and a description of the evidence upon which the decision to terminate is based. Once the Termination Notice has been issued, the Non-Defaulting Party's election to terminate this Agreement will only be rescinded if so determined by the City Council pursuant to Section 7.4.

7.4 Hearing Opportunity Prior to Termination. If Developer is the Defaulting Party pursuant to Section 7.3, then the City's Termination Notice to Developer shall additionally specify that Developer has the right to a hearing prior to the City's termination of any Agreements ("**Termination Hearing**"). The Termination Hearing shall be scheduled as an open public hearing item at a regularly-scheduled City Council meeting within thirty (30) days of the Termination Notice, subject to any legal requirements including but not limited to the Ralph M. Brown Act, Government Code Sections 54950-54963. At said Termination Hearing, Developer shall have the right to present evidence to demonstrate that it is not in default and to rebut any evidence presented in favor of termination. Based upon substantial evidence presented at the Termination Hearing, the Council may, by adopted resolution, act as follows:

a. Decide to terminate this Agreement; or

b. Determine that Developer is innocent of a default and, accordingly, dismiss the Termination Notice and any charges of default; or

c. Impose conditions on a finding of default and a time for cure, such that Developer's fulfillment of said conditions will waive or cure any default.

Findings of a default or a conditional default must be based upon substantial evidence supporting the following two findings: (i) that a default in fact occurred and has continued to exist without timely cure, and (ii) that such default has caused or will cause a material breach of this Agreement and/or a substantial negative impact upon public health, safety and welfare, the environment, or such other interests that the City and public may have in the Project.

7.5 Rights and Duties Following Termination. Upon the termination of this Agreement, no party shall have any further right or obligation hereunder except with respect to (i) any obligations to have been performed prior to said termination, (ii) any default in the performance of the provisions of this Agreement which has occurred prior to said termination, or (iii) the indemnification provisions of Article 8. Termination of this Agreement pursuant to this Section 7 shall automatically terminate the Project Development Approvals.

7.6 Waiver of Breach. By not challenging any Development Approval within ninety (90) days of the action of City enacting the same, Developer shall be deemed to have waived any claim that any condition of approval is improper or that the action, as approved, constitutes a breach of the provisions of this Agreement.

7.7 Interest on Monetary Default. In the event Developer fails to perform any monetary obligation under this Agreement, Developer shall pay interest thereon at the rate of six and one-half percent (6.5%) per annum from and after the due date of said monetary obligation until payment is actually received by City.

8. THIRD PARTY LITIGATION.

8.1 Indemnity Obligations on Third-Party Claims

a. Developer hereby agrees to indemnify, defend, and hold City, its officers, agents, employees, members of its City Council and any commission, partners and representatives ("**City Indemnitees**") harmless from any and all claims, actions, suits, damages, liabilities, and any other actions or proceedings (whether legal, equitable, declaratory, administrative, or adjudicatory in nature) (collectively, "**Claims**"), asserted against City or City Indemnitees arising out of or in connection with this Agreement, including, without limitation, (i) City's approval of this Agreement and all documents related to any of the Project Development Approvals, Conditions of Approval, permits, or other entitlements for the Project and issues related thereto (including, without limitation, City's determinations regarding CEQA compliance and/or any other development incentives granted to the Project), (ii) the development of the Project, (iii) liability for damage or claims for damage for personal injury including death and claims for property damage which may arise from, or are attributable to, Developer's (or Developer's contractors, subcontractors, agents, employees or other persons acting on Developer's behalf ("**Developer's Representatives**")) performance of its obligations under this Agreement and/or the negligence or misconduct of Developer or of Developer's Representatives which relate to the Project or the Property, and (iv) Developer's failure to comply with any applicable federal, state or local law, rule, or regulation, including, but not limited to, those relating to industrial hygiene or to environmental conditions on, under or about the Property, such as (without limitation) soil and groundwater conditions.

b. The City shall provide the Developer with notice of the pendency of such Claims within ten (10) days of being served or otherwise notified of such Claims and shall request that the Developer defend such action. The Developer may utilize the City Attorney's office or use legal counsel of its choosing, but shall reimburse the City for any necessary legal cost incurred by City. In all cases, City shall have the right to utilize the City Attorney's office in any legal action. The Developer shall provide a deposit in the amount of 100% of the City's estimate, in its sole and absolute discretion, of the cost of litigation, including the cost of any award of attorney's fees. If the Developer fails to provide the deposit, and after compliance with the provisions of this Section 8.1, the City may abandon the action and the Developer shall pay all costs resulting therefrom and City shall have no liability to the Developer. The Developer's obligation to pay the cost of the action, including judgment, shall extend until judgment. After judgment in a trial court, the parties must mutually agree as to whether any appeal will be taken or defended. City agrees that it shall fully cooperate with the Developer in the defense of any matter in which the Developer is defending and/or holding the City harmless.

8.2 Hold Harmless: Developer's Construction, and Other Activities. The Developer shall defend, save and hold the City and its elected and appointed boards, commissions, officers, agents, and employees harmless from any and all claims, costs (including attorneys' fees) and liability for any damages, personal injury or death, which may arise, directly or indirectly, from the Developer's or the Developer's agents, contractors, subcontractors, agents, or employees' Project construction activities and operations under this Agreement, whether such Project construction activities and operations be by the Developer or by any of the Developer's agents, contractors or subcontractors or by any one or more persons directly or indirectly employed by or acting as agent for the Developer or any of the Developer's agents, contractors or subcontractors. Nothing herein shall be construed to mean that the Developer shall hold the City harmless and/or defend it from any claims arising from, or alleged to arise from, the sole negligence or gross or willful misconduct of the City's officers, employees, agents, contractors of subcontractors.

8.3 Loss and Damage. City shall not be liable for any damage to property of Developer or of others located on the Property, nor for the loss of or damage to any property of Developer or of others by theft or otherwise. City shall not be liable for any injury or damage to persons or property resulting from fire, explosion, steam, gas, electricity, water, rain, dampness or leaks from any part of the Property or from the pipes or plumbing, or from the street, or from any environmental or soil contamination or hazard, or from any other latent or patent defect in the soil, subsurface or physical condition of the Property, or by any other cause of whatsoever nature. Nothing herein shall be construed to mean that the Developer shall bear liability for the sole negligence or gross or willful misconduct of the City's officers, employees, agents, contractors or subcontractors.

8.4 Non-liability of City Officers and Employees. No official, agent, contractor, or employee of the City shall be personally liable to the Developer, or any successor in interest, in the event of any default or breach by the City or for any amount which may become due to the Developer or to its successor, or for breach of any obligation of the terms of this Agreement.

8.5 Conflict of Interest. No officer or employee of the City shall have any financial interest, direct or indirect, in this Agreement nor shall any such officer or employee participate in any decision relating to this Agreement which affects the financial interest of any corporation, partnership or association in which he or she is, directly or indirectly, interested, in violation of any state statute or regulation.

8.6 Survival of Indemnity Obligations. All indemnity provisions set forth in this Agreement shall survive expiration or sooner termination of this Agreement for any reason other than a default by City.

9. INSURANCE.

9.1 Types of Insurance.

a. **Public Liability Insurance**. Prior to commencement and until completion of construction of improvements by Developer on the Property, Developer shall, at its sole cost and expense, keep or cause to be kept in force, for the mutual benefit of City and Developer, comprehensive broad form general

public liability insurance against claims and liability for personal injury or death arising from the use, occupancy, disuse or condition of the Property, improvements or adjoining areas or ways, affected by such use of the Property or for property damage. Such policy shall provide protection of at least $5,000,000 for bodily injury or death to any one person, at least $5,000,000 for any one accident or occurrence, and at least $5,000,000 for property damage, and $10,000,000 in the aggregate.

b. **Worker's Compensation**. To the extent Developer and its contractors utilize employees for any portion of the Project, Developer and such contractors shall also furnish or cause to be furnished to City evidence reasonably satisfactory to it that Developer and any contractor with whom Developer has contracted for the performance of any work for which Developer is responsible hereunder carries workers' compensation insurance as required by law.

c. **Automobile Liability Insurance**. Developer shall ensure that all contractors with whom Developer has contracted for the performance of any work for which Developer is responsible hereunder maintains automobile insurance at least as broad as Insurance Services Office form CA 00 01 covering bodily injury and property damage for all activities of the Developer arising out of or in connection with work to be performed under this Agreement, including coverage for any owned, hired, non-owned or rented vehicles, in an amount not less than $5,000,000 combined single limit for each accident.

d. **Pollution Liability Insurance**. Environmental Impairment Liability Insurance shall be written on a Contractor's Pollution Liability form or other form acceptable to City providing coverage for liability arising out of sudden, accidental and gradual pollution and remediation. The policy limit shall be no less than $5,000,000 dollars per claim and $10,000,000 in the aggregate. All activities contemplated in this Agreement shall be specifically scheduled on the policy as "covered operations." The policy shall provide coverage for the hauling of waste from the Project site to the final disposal location, including non-owned disposal sites.

e. **Builder's Risk Insurance.** Builder's Risk (Course of Construction) insurance utilizing an "All Risk" (Special Perils) coverage form, with limits equal to the completed value of the project and no coinsurance penalty provisions or provisional limit provisions. The policy must include: (1) coverage for any ensuing loss from faulty workmanship, nonconforming work, omission or deficiency in design or specifications; (2) coverage against machinery accidents and operational testing; (3) coverage for removal of debris, and insuring the buildings, structures, machinery, equipment, materials, facilities, fixtures and all other properties constituting a part of the project; (4) ordinance or law coverage for contingent rebuilding, demolition, and increased costs of construction; (5) transit

coverage (unless insured by the supplier or receiving contractor), with sub-limits sufficient to insure the full replacement value of any key equipment item; (6) ocean marine cargo coverage insuring any project materials or supplies, if applicable; (7) coverage with sub-limits sufficient to insure the full replacement value of any property or equipment stored either on or off the project site or any staging area**.** The City and Developer shall each be included as Loss Payee for their respective insurable interest.

f. **Professional Liability Insurance.** Professional liability insurance appropriate to the profession for any design work. This coverage may be written on a "claims made" basis, and must include coverage for contractual liability. The professional liability insurance required by this Agreement must be endorsed to be applicable to claims based upon, arising out of or related to services performed under this Agreement. The insurance must be maintained for at least 5 consecutive years following the completion of the services or the termination of this Agreement. During this additional 5-year period, Developer shall annually and upon request of the City submit written evidence of this continuous coverage.

g. **Other Insurance**. Developer may procure and maintain any insurance not required by this Agreement, but all such insurance shall be subject to all of the provisions hereof pertaining to insurance and shall be for the benefit of City and Developer. Developer shall ensure that all contractors and sub-contractors maintain the required minimum insurance coverages, or shall include the contractors and subcontractors under its insurance.

h. **Renegotiation of Policy Limits.** In the event the Developer in good faith determines and submits substantial evidence to the City that any of the foregoing policy limits or required coverage provisions are unreasonable and not consistent with the prevailing insurance market at the relevant time, the City will reconsider such policy limit(s) or required coverage provision(s) in good faith, and may, but is not required to, approve a modification to same, which approval may be given by the City Manager or designee.

i. **Partial Transfer of Property.** In the event Developer transfers ownership of any portion of the Property ("Transferred Property"), Developer and the owner of the Transferred Property shall each be responsible for compliance with this Section 9, but shall only be required to insure their respective parcels, rather than the entire Property. To the extent Developer or owner of the Transferred Property perform work on portions of the Property not owned by them, then such party shall be responsible to comply with Section 9 for the full extent of the work area until the work is completed.

9.2 Insurance Policy Form, Sufficiency, Content, and Insurer. All insurance required by express provisions hereof shall be carried only by responsible insurance companies licensed and admitted to do business by California, rated "A" or better in the most recent edition of

Best Rating Guide, The Key Rating Guide or in the Federal Register, and only if they are of a financial category Class VIII or better, unless waived by City. All such policies shall be non-assessable and shall contain language, to the extent obtainable, to the effect that (i) any loss shall be payable notwithstanding any act of negligence of City or Developer that might otherwise result in the forfeiture of the insurance, (ii) the insurer waives the right of subrogation against City and against City's agents and representatives; (iii) the policies are primary and noncontributing with any insurance that may be carried by City; and (iv) the policies cannot be canceled or materially changed except after thirty (30) days' written notice by the insurer to City or City's designated representative. Developer shall furnish City with copies of all such policies promptly on receipt of them or with certificates evidencing the insurance. City shall be named as an additional insured on all policies of insurance required to be procured by the terms of this Agreement, except for all insurance required by Developer's contractors, both City and Developer shall be named as an additional insured. Moreover, the insurance policy must specify that where the primary insured does not satisfy the self-insured retention, any additional insured may satisfy the self-insured retention. In the event the City's Risk Manager determines that the use, activities or condition of the Property, improvements or adjoining areas or ways, affected by such use of the Property under this Agreement creates an increased or decreased risk of loss to the City, Developer agrees that the minimum limits of the insurance policies required by Section 9.1 may be changed accordingly upon receipt of written notice from the City's Risk Manager; provided that Developer shall have the right to appeal a determination of increased coverage to the City Council of City within ten (10) days of receipt of notice from the City's Risk Manager.

9.3 Failure to Maintain Insurance and Proof of Compliance. Developer shall deliver to City, in the manner required for notices, copies of certificates of all insurance policies together with endorsements required hereunder together with evidence satisfactory to City of payment required for procurement and maintenance of each policy within the following time limits:

a. For insurance required above except for professional liability insurance, prior to issuance of the first permit requiring or authorizing any construction or ground disturbance for the Project. For the avoidance of doubt, removal and disassembly of the Park clubhouse structure and/or Park coaches, without demolition of foundation or slab, is not included in the preceding sentence. For professional liability insurance, by August 1, 2023.

b. For any renewal or replacement of a policy already in existence, at least ten (10) days before the expiration or termination of the existing policy.

c. If Developer fails or refuses to procure or maintain insurance as required hereby or fails or refuses to furnish City with required proof that that insurance has been procured and is in force and paid for, such failure or refusal shall be a default hereunder.

9.4 Waiver of Subrogation. Developer agrees that it shall not make any claim against, or seek to recover from City or its agents, servants, or employees, for any loss or damage to Developer or to any person or property, except as specifically provided hereunder and Developer shall give notice to any insurance carrier of the foregoing waiver of subrogation, and obtain from

such carrier, a waiver of right to recovery against City, its agents and employees.

9.5 Broader Coverages and Higher Limits. Notwithstanding anything else herein to the contrary, if Developer maintains broader coverages and/or higher limits than the minimums shown above, the City requires and shall be entitled to the broader coverages and/or higher limits maintained by Developer.

10. MORTGAGEE PROTECTION.

10.1 Except as otherwise provided by Applicable Laws and this Agreement, the Parties agree that this Agreement shall not prevent or limit any Developer, in any manner, at Developer's sole discretion, from encumbering (i) its portion of the Property or any portion thereof or any improvement thereon or (ii) the membership interests in such Developer, by any mortgage, deed of trust, pledge or other security device securing financing with respect to such portion of the Property or such membership interests. City acknowledges that the lenders providing such financing may require certain Agreement interpretations, modifications, and estoppel certificates and City agrees upon request, from time to time, to communicate and meet with Developer and representatives of such lenders to negotiate in good faith any such estoppel certificates and/or requests for interpretation or modification. Subject to compliance with applicable laws, City will not unreasonably withhold its consent to any such requested estoppel certificate, interpretation or modification provided City determines such estoppel certificate, interpretation or modification is consistent with the intent and purposes of this Agreement. Any Mortgagee of the Property or the membership interest in a Developer shall be entitled to the rights and privileges set forth in this Article 10.

10.2 Neither entering into this Agreement nor a breach of this Agreement shall defeat, render invalid, diminish or impair the lien of any mortgage on any portion of the Property or pledge on the membership interests in a Developer made in good faith and for value, unless otherwise required by law.

10.3 The Mortgagee of any Mortgage or deed of trust encumbering any portion of the Property, or membership interests of a Developer where Mortgagee has submitted a request in writing to the City in the manner specified herein for giving notices, shall be entitled to receive written notification from City of any default by any Developer in the performance of such Developer's obligations under this Agreement.

10.4 If City timely receives a request from a Mortgagee requesting a copy of any notice of default given to Developer under the terms of this Agreement, City shall provide a copy of that notice to the Mortgagee within ten (10) days of sending the notice of default to the applicable Developer. The Mortgagee shall have the right, but not the obligation, to cure the default during the period that is the longer of (i) the remaining cure period allowed such party under this Agreement, or (ii) sixty (60) days.

10.5 Any Mortgagee who comes into possession of any portion of the Property or the membership interests in a Developer, pursuant to foreclosure of the Mortgage or deed of trust, or deed in lieu of such foreclosure or assignment in lieu of such foreclosure, shall take such portion of the Property or membership interests in a Developer subject to the terms of this Agreement.

11. ASSIGNMENTS.

11.1 The experience, knowledge, capability and reputation of Developer, its principals, employees and affiliates were a substantial inducement for the City to enter into this Agreement. The Developer may sell, transfer, lease or assign this Agreement, the Property, or any part thereof (such sale, transfer, lease or assignment shall be referred to as an "**Assignment**") with the prior written consent of the Community Development Director, which consent may not be unreasonably withheld, after providing reasonable documentation and evidence demonstrating that the person or entity to whom any of the rights or privileges granted herein are to be sold, transferred, leased, assigned, hypothecated, encumbered, merged, or consolidated, meets the following criteria: (i) the transferee has the financial strength and capability to perform its obligations under the Agreement, (ii) reasonably satisfactory evidence that the transferee has the experience and expertise to operate the Project, including reasonably satisfactory evidence that the transferee has experience with operations and projects with a similar scale of this Project; and (iii) reasonably satisfactory evidence that the transferee's key principals have no felony convictions. The proposed transferee shall execute and deliver to the City an assumption agreement assuming Developer's Project obligations, which assumption agreement shall be in a form approved by the City Manager and City Attorney. Notwithstanding the foregoing, City and Community Development Director approval shall not be required for any of (i) the transfer of any portion of the Property or the membership interests in a Developer to a Mortgagee or its designee or a third party in connection with a foreclosure or assignment or deed in lieu of foreclosure, (ii) the assignment or other transfer of a Mortgage or (iii) the first sale of a foreclosed (or assignment/deed in lieu of foreclosure) portion of the Property or the membership interests in a Developer by a Mortgagee or its designee to a third party. However, Developer shall notify the City of any Assignment described in the preceding sentence, and the transferee shall be subject to the terms of this Agreement.

11.2 City Consideration of Requested Assignment. The City agrees that it will not unreasonably withhold, condition, or delay approval of a request for approval of an Assignment required pursuant to this Article 11, provided that:

a. Developer delivers written notice to the City requesting that approval prior to the completion of the Assignment (the "**Consent Request**"); and

b. The Assignment is not completed until either (i) City has provided its written consent or (ii) sixty (60) days have passed after delivery by Developer to City of the Consent Request without the City having rejected the Consent Request in writing.

c. The Consent Request shall be accompanied by (i) a proposed draft of the Assignment and Assumption Agreement described in Section 11.3, in a form acceptable to the City Attorney and City Manager, and (ii) evidence regarding the proposed assignee's development and/or operational qualifications and experience and its financial commitments and resources in sufficient detail to enable the City to evaluate the proposed assignee's ability to complete the Project.

11.3 Assignments Permitted Without City's Consent. Notwithstanding any other

provision of this Agreement, Assignments related to the following property conveyances and other transactions shall not require City consent:

a. The granting of easements or permits to facilitate construction of the Project or any public improvements.

b. The granting of easements or permits for utility purposes.

c. Transactions for financing purposes, including the grant of (or assignment or other transfer of) a deed of trust to secure the funds necessary for land acquisition, construction, and/or permanent financing of any portion of the Project.

d. The acquisition of some or all of the Property or the membership interests in a Developer by a Mortgagee or its designee (or a third party buyer at a foreclosure sale) such as through foreclosure or a deed or assignment in lieu of foreclosure. The transfer of the applicable portion of the Property or the membership interests in a Developer from Mortgagee or its designee to an affiliate. The first sale of a foreclosed (or assignment/deed in lieu of foreclosure) portion of the Property or the membership interests in a Developer by a Mortgagee or its designee to a third party.

e. A sale or transfer resulting from, or in connection with, a reorganization as contemplated by the provisions of the Internal Revenue Code of 1986, as amended or otherwise, in which the ownership interests of a corporation are assigned directly or by operation of law to a person or persons, firm or corporation which acquires the control of the voting capital stock of such corporation or all or substantially all of the assets of such corporation.

f. A sale or transfer between members of the same family, or transfers to a trust, testamentary or otherwise, in which the beneficiaries consist primarily of family members of the trustor, or transfers to a corporation or partnership in which the family members or shareholders of the transferor own at least ten percent (10%) of the present equity ownership and/or at least fifty percent (50%) of the voting control of Developer.

g. If Developer is a trust, corporation, real estate investment trust, or partnership, a transfer of stock or other interests, provided there is no material change in the actual management and control of Developer.

h. Transactions with any member, partner, officer, employee, or affiliate of Developer or any trust or family member, provided that, following the transaction, the management of Developer on the Effective Date shall, subject to normal and customary business practices and personnel changes, remain the primary Developer representative(s) for purposes of communication with the City.

11.4 Effect of Assignment. Unless otherwise stated within the Assignment, upon an

Assignment:

a. The assignee shall be liable for the performance of all remaining obligations of Developer with respect to those portions of the Property which are transferred (the "**Transferred Property**"), but shall have no obligations with respect to any portions of the Property not conveyed (the "**Retained Property**").

b. The owner of the Retained Property shall be liable for the performance of all obligations of Developer with respect to the Retained Property, but shall have no further obligations with respect to the Transferred Property.

c. The Assignee's exercise, use, and enjoyment of the Transferred Property shall be subject to the terms of this Agreement to the same extent as if the Assignee were the Developer.

12. AMENDMENT AND MODIFICATION.

12.1 Initiation of Amendment. Either party may propose an amendment to this Agreement.

12.2 Procedure. Except as set forth in Section 12.4, the procedure for proposing and adopting an amendment to this Agreement shall be the same as the procedure required for entering into this Agreement in the first instance as set forth in Government Code Section 65867.

12.3 Consent. Except as expressly provided in this Agreement, no cancellation of or amendment to all or any provision of this Agreement shall be effective unless set forth in writing and signed by duly authorized representatives of each of the parties hereto and recorded in the Official Records of Los Angeles County.

12.4 Administrative Minor Project Modifications. Notwithstanding any other provision and/or condition of approval contained in any Development Approvals, including any processes set forth in Chapter 5 of the Specific Plan, Minor Modifications to this Agreement, the Project, and/or the Development plans shall be made ministerially, with the approval of the Director. Such "**Minor Modifications**" shall be defined as any modifications to this Agreement, the Project and/or the Development plans that do not (i) change the proposed uses analyzed for the Project in the EIR or permitted for the Project in the Project Development Approvals and this Agreement, (ii) constitute a prohibited modification under Section 12.5, (iii) increase building heights within the Property in comparison to what is identified in the Project Development Approvals and this Agreement, (iv) reduce the number of parking stalls identified in the Project Development Approvals by more than five (5) percent, (v) substantially deviate from the approved architectural design, as determined by the Community Development Director in his or her reasonable discretion, and/or (vi) reduce the amount of publicly accessible open space below 111,581 square feet.

12.5 Prohibited Modifications. Notwithstanding any provision of this Agreement or the Specific Plan, none of the following shall be permitted with respect to the Project during the Term of this Agreement:; (i) any modification to the square footage of the commercial space (10,000);

(ii) any use of the commercial space other than restaurant space; or (iii) any reduction in the amount of publicly accessible open space below 111,581 square feet, except that a reduction of no more than 2.5% of the non-park open space area may be permitted if necessary based on Building Standards Code requirements as identified/required during the plan check process. No reduction to the square footage of the park (22,859 sq. ft.) shall be permitted.

12.6 Hearing Rights Protected. Notwithstanding the foregoing, City will process any change to this Agreement consistent with state law and will hold public hearings thereon if so required by state law and the parties expressly agree nothing herein is intended to deprive any party or person of due process of law.

12.7 Effect of Amendment to Development Agreement. Except as expressly set forth in writing in any such amendment, an amendment to this Agreement will not alter, affect, impair, modify, waive, or otherwise impact any other rights, duties, or obligations of either party under this Agreement.

12.8 Timing of Development. The California Supreme Court held in *Pardee Construction Co. v. City of Camarillo*, 37 Cal.3d 465 (1984), that failure of the parties in that case to provide for the timing of development resulted in a later adopted initiative restricting the timing of development to prevail over the parties' agreement. It is the intent of Developer and City to cure that deficiency by expressly acknowledging and providing that any Subsequent Land Use Regulations that purports to limit over time the rate or timing of development or to alter the sequencing of development phases (whether adopted or imposed by the City Council or through the initiative or referendum process) shall not apply to the Property or the Project and shall not prevail over this Agreement. In particular, but without limiting any of the foregoing, no numerical restriction shall be placed by the City on the amount of total square feet or the number of buildings, structures, residential units that can be built each year on the Property except as expressly provided in this Agreement.

13. MISCELLANEOUS PROVISIONS.

13.1 Recordation.

a. The City Clerk shall cause a copy of this Agreement to be recorded against the Property with the County Recorder within ten (10) calendar days after the Execution Date. The failure of the City to sign and/or record this Agreement shall not affect the validity of this Agreement.

b. Within ten (10) calendar days after the Execution Date, the Parties shall execute and record against the Property with the County Recorder any and all required documents to remove from title (i) the Original DA and (ii) the Minor Modification dated February 28, 2024.

13.2 Notices. Notices and correspondence required or permitted by this Agreement shall be in writing and either personally delivered or sent by registered, certified, or overnight mail or delivery service. Notices shall be deemed received upon personal delivery or on the second business day after registered, certified, or overnight mailing or delivery, or email if such email

notice is acknowledged as received by the receiving party. Notices shall be addressed as follows:

To City:	City of Carson 701 East Carson Street Carson, California 90745 Attn: Planning Manager
With copy to:	Aleshire & Wynder 1 Park Plaza, Suite 1000 Irvine, CA 92614 Fax: 949-223-1180 Attn: Sunny Soltani
To Imperial Avalon:	Imperial Avalon DE, LLC 659 N. Robertson Blvd. West Hollywood, CA 90069 Attn: Darren Embry
With copy to:	Rand, Paster & Nelson, LLP 633 W. Fifth Street, Ste 5880 Los Angeles, CA 90071 Attn: Dave Rand
To Lennar:	Lennar Homes of California, LLC 2000 FivePoint, 3rd Floor Irvine, CA 92618 Attention: JR Jones Email: JR.Jones@lennar.com
With a copy to:	Deverich & Gillman LLP 4 Park Plaza, Suite 520 Irvine, California 92614 Attention: Christopher D. Downs Email: cdowns@dgllp.com

A Party may change its address by giving written notice to the other Party. Thereafter, Notices shall be addressed and transmitted to the new address.

13.3 Estoppel Certificates. Either Party (or a Mortgagee) may at any time deliver written notice to the other Party requesting an Estoppel Certificate stating:

a. The Agreement is in full force and effect and is a binding obligation of the Parties;

b. The Agreement has not been amended or modified or, if so amended, identifying the amendments; and

c. There are no existing defaults under the Agreement to the actual knowledge

of the Party signing the Estoppel Certificate.

A Party receiving a request for an Estoppel Certificate shall provide a signed certificate to the requesting Party within thirty (30) days after receipt of the request. The City Manager may sign Estoppel Certificates on behalf of the City. An Estoppel Certificate may be relied on by assignees and Mortgagees.

13.4 Operating Memoranda. The provisions of this Agreement require a close degree of cooperation between City and Developer. During the Term of this Agreement, clarifications to this Agreement and the Applicable Laws may be appropriate with respect to the details of performance of the City and Developer. If and when from time to time during the Term of this Agreement, the City and Developer agree that such clarifications are necessary or appropriate, they shall effectuate such clarification through operating memoranda approved in writing by the City and Developer, which after execution, shall be attached hereto and become part of this Agreement and the same may be further clarified from time to time as necessary with future written approval by the City and Developer. Operating memoranda are mere ministerial clarifications and therefore public notices, hearings and CEQA compliance shall not be required unless otherwise provided by applicable law. The authority to enter into such operating memoranda is delegated to the Community Development Director who is hereby authorized to execute any operating memoranda hereunder without future action or approval by the City Council.

13.5 Project as a Private Undertaking. It is specifically understood and agreed by the Parties that the Project is a private development, that neither Party is acting as the agent of the other in any respect, and that each Party is an independent contracting entity with respect to this Agreement. The only relationship between City and Developer is that of a government entity regulating the development of property owned by a private party. City agrees that by its approval of, and entering into, this Agreement that it is not taking any action which would transform this private Development into a "public work" project, and that nothing herein shall be interpreted to convey upon Developer any benefit which would transform Developer's private project into a public work project, it being understood that this Agreement is entered into by City and Developer upon the exchange of consideration described in this Agreement, including the Recitals to this Agreement, and that City is receiving by and through this Agreement the full measure of benefit in exchange for the burdens placed on Developer by this Agreement, including but not limited to Developer's obligation to provide the public improvements set forth herein.

13.6 Eminent Domain. No provision of this Agreement shall be construed to limit or restrict the exercise by City of its power of eminent domain.

13.7 Entire Agreement. This Agreement represents the entire agreement of the Parties with respect to the subject matter of this Agreement. No testimony or evidence of any such representations, understandings or covenants shall be admissible in any proceeding of any kind or nature to interpret or determine the terms or conditions of this Agreement.

13.8 Further Actions and Instruments. Each of the Parties shall cooperate with and provide reasonable assistance to the other to the extent necessary to implement this Agreement.

13.9 Severability. If any term, provision, covenant or condition of this Agreement shall

be determined invalid, void or unenforceable, the remainder of this Agreement shall not be affected thereby to the extent such remaining provisions are not rendered impractical to perform taking into consideration the purposes of this Agreement.

13.10 Covenant Not To Sue. The parties to this Agreement, and each of them, agree that this Agreement and each term hereof is legal, valid, binding, and enforceable. The parties to this Agreement, and each of them, hereby covenant and agree that each of them will not commence, maintain, or prosecute any claim, demand, cause of action, suit, or other proceeding against any other party to this Agreement, in law or in equity, or based on any allegation or assertion in any such action, that this Agreement or any term hereof is void, invalid, or unenforceable.

13.11 Force Majeure. Neither Party shall be deemed to be in default where failure or delay in performance of any of its obligations under this Agreement is caused by earthquakes, other acts of God, fires, wars, terrorism, riots or similar hostilities, strikes, and other labor difficulties beyond the Party's control, government regulations, pandemics, government-ordered quarantine, court actions (such as restraining orders or injunctions), or other causes beyond the Party's reasonable control. If any such events shall occur, the term of this Agreement and the time for performance shall be extended for the duration of the impacts on the Project of each such event.

13.12 Waiver. All waivers of performance must be in a writing signed by the Party granting the waiver. Failure by a Party to insist upon the strict performance of any provision of this Agreement shall not be a waiver of future performance of the same or any other provision of this Agreement.

13.13 Time of Essence. Time is of the essence in the performance of the provisions of this Agreement as to which time is an element.

13.14 Governing Law and Venue. This Agreement shall be governed and interpreted in accordance with California law, with venue for any litigation concerning this Agreement in Los Angeles, California.

13.15 Interpretation. This Agreement shall be construed as a whole according to its fair language and common meaning to achieve the objectives and purposes of the parties hereto, and the rule of construction to the effect that ambiguities are to be resolved against the drafting party or in favor of City shall not be employed in interpreting this Agreement, all parties having been represented by counsel in the negotiation and preparation hereof.

13.16 Corporate Authority. The person(s) executing this Agreement on behalf of each of the parties hereto represent and warrant that (i) such party, if not an individual, is duly organized and existing, (ii) they are duly authorized to execute and deliver this Agreement on behalf of said party, (iii) by so executing this Agreement such party is formally bound to the provisions of this Agreement, and (iv) the entering into this Agreement does not violate any provision of any other agreement to which such party is bound.

13.17 Attorneys' Fees. If either party to this Agreement is required to initiate or defend litigation against the other party, the prevailing party in such action or proceeding, in addition to any other relief which may be granted, whether legal or equitable, shall be entitled to reasonable

attorneys' fees. Attorneys' fees shall include attorneys' fees on any appeal, and, in addition, a party entitled to attorney's fees shall be entitled to all other reasonable costs for investigating such action, taking depositions and discovery and all other necessary costs the court allows which are incurred in such litigation. All such fees shall be deemed to have accrued on commencement of such action and shall be enforceable whether or not such action is prosecuted to a final judgment.

13.18 Recitals. The recitals in this Agreement constitute part of this Agreement and each party shall be entitled to rely on the truth and accuracy of each recital as an inducement to enter into this Agreement.

13.19 No Brokers. City and Developer represent and warrant to the other that neither has employed any broker and/or finder to represent its interest in this transaction. Each party agrees to indemnify and hold the other free and harmless from and against any and all liability, loss, cost, or expense (including court costs and reasonable attorney's fees) in any manner connected with a claim asserted by any individual or entity for any commission or finder's fee in connection with this Agreement arising out of agreements by the indemnifying party to pay any commission or finder's fee.

13.20 Joint and Several Liability. In the event Developer should sell, transfer, lease or assign this Agreement, the Property, or any part thereof, Developer shall bear ultimate responsibility for all obligations, conditions, and restrictions set forth under this Agreement, it being understood that both Developer and any transferee, assignee, or lessee shall be jointly and severally liable.

13.21 Compliance with Laws. Developer must comply with all applicable provisions of federal, state and local laws and regulations, including the City's Municipal Code.

13.22 Counterparts. This Agreement may be executed by the Parties in counterparts, which together shall have the same effect as if each of the Parties had executed the same instrument.

[SIGNATURES ON FOLLOWING PAGE(S)]

IN WITNESS WHEREOF, the Parties hereto have executed this Agreement on the day and year first set forth above.

CITY

CITY OF CARSON a municipal corporation

_____

Lula Davis-Holmes, Mayor

ATTEST

_____

Dr. Khaleah K. Bradshaw, City Clerk

APPROVED AS TO FORM
ALESHIRE & WYNDER, LLP

_____

Sunny K. Soltani, City Attorney

IMPERIAL AVALON

IMPERIAL AVALON DE, LLC, a California limited liability company

By: _____

_____

Name:
Title:

By: _____

_____

Name:
Title:

LENNAR

LENNAR HOMES OF CALIFORNIA, LLC, a California limited liability company

By: _____

_____

Name:
Title:

By: _____

_____

Name:
Title:

If Developer is a limited liability company, any one of the following options will satisfy City's signature requirements pursuant to the Corporations Code. Option A: One signature required from each of the following groups: 1) Chairman of the Board, President or any Vice President; and 2) Secretary, any Assistant Secretary, Chief Financial Officer or any Assistant Treasurer. Option B: Signatures required from two managers unless the LLC is managed by one manager per its articles of organization, in which case only one signature from that manager is required. Option C: One signature required from any member unless the LLC is manager-managed per its articles of organization. Option D: One signature required from any manager if the LLC is manager-managed per its articles of organization. DEVELOPER'S SIGNATURES SHALL BE DULY NOTARIZED, AND APPROPRIATE ATTESTATIONS SHALL BE INCLUDED AS MAY BE REQUIRED BY THE BYLAWS, ARTICLES OF ORGANIZATION, OR OTHER RULES OR REGULATIONS APPLICABLE TO DEVELOPER'S BUSINESS ENTITY.

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy or validity of that document.

STATE OF CALIFORNIA

COUNTY OF LOS ANGELES

On _____, 2026 before me, _____, personally appeared _____, proved to me on the basis of satisfactory evidence to be the person(s) whose names(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: _____

OPTIONAL

Though the data below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent reattachment of this form.

CAPACITY CLAIMED BY SIGNER

- ☐ INDIVIDUAL
- ☐ CORPORATE OFFICER

_____
TITLE(S)

- ☐ PARTNER(S) ☐ LIMITED ☐ GENERAL
- ☐ ATTORNEY-IN-FACT
- ☐ TRUSTEE(S)
- ☐ GUARDIAN/CONSERVATOR
- ☐ OTHER_____

_____

SIGNER IS REPRESENTING:
(NAME OF PERSON(S) OR ENTITY(IES))

_____
_____

DESCRIPTION OF ATTACHED DOCUMENT

_____
TITLE OR TYPE OF DOCUMENT

_____
NUMBER OF PAGES

_____
DATE OF DOCUMENT

_____
SIGNER(S) OTHER THAN NAMED ABOVE

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy or validity of that document.

STATE OF CALIFORNIA

COUNTY OF LOS ANGELES

On _____, 2026 before me, _____, personally appeared _____, proved to me on the basis of satisfactory evidence to be the person(s) whose names(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: _____

OPTIONAL

Though the data below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent reattachment of this form.

CAPACITY CLAIMED BY SIGNER

- ☐ INDIVIDUAL
- ☐ CORPORATE OFFICER

_____
TITLE(S)

- ☐ PARTNER(S) ☐ LIMITED ☐ GENERAL
- ☐ ATTORNEY-IN-FACT
- ☐ TRUSTEE(S)
- ☐ GUARDIAN/CONSERVATOR
- ☐ OTHER_____

_____

DESCRIPTION OF ATTACHED DOCUMENT

_____
TITLE OR TYPE OF DOCUMENT

_____
NUMBER OF PAGES

_____
DATE OF DOCUMENT

_____
SIGNER(S) OTHER THAN NAMED ABOVE

SIGNER IS REPRESENTING:
(NAME OF PERSON(S) OR ENTITY(IES))

_____
_____

EXHIBIT "A"

PROPERTY LEGAL DESCRIPTION

THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE CITY OF CARSON IN THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AND IS DESCRIBED AS FOLLOWS:

LOT 1 OF TRACT NO. 71206, IN THE CITY OF CARSON, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 1400, PAGES 1 TO 6 OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

EXCEPT THEREFROM PORTIONS OF SAID LAND ALL MINERALS, OIL, GAS, AND OTHER HYDROCARBON SUBSTANCES LYING BELOW THE SURFACE OF SAID LAND, AS EXCEPTED IN DEED RECORDED DECEMBER 08, 1960 AS INSTRUMENT NO. 1520 OFFICIAL RECORDS, AND IN DEED RECORDED MAY 18, 1959 AS INSTRUMENT NO. 590 OFFICIAL RECORDS.

APN: 7337-001-025
APN: 7337-001-026
APN: 7337-001-027
APN: 7337-001-028
APN: 7337-001-029

EXHIBIT "B"

DEPICTION OF THE PROPERTY

EXHIBIT "B" - DEPICTION OF THE PROPERTY

WEST PORTION - TOWNHOMES | EAST PORTION - MIXED-USE BUILDINGS A/B & C/D

NORTH

0' 25' 50' 100'

EXHIBIT "C"

PUBLIC OPEN SPACE AREAS

LEGEND - EAST PORTION
MIXED-USE BLDGS A/B & C/D

- PUBLICALLY ACCESSIBLE COMMON OPEN SPACE
- PUBLICALLY ACCESSIBLE PARK / PLAZA
- NON-PUBLICALLY ACCESSIBLE COMMON OPEN SPACE
- NON-PUBLICALLY ACCESSIBLE RECREATION OPEN SPACE

OPEN SPACE CALCULATIONS EAST PORTION

	S.F.	AC
PUBLICALLY ACCESSIBLE COMMON OPEN SPACE	64,954	1.5
PUBLICALLY ACCESSIBLE PARK / PLAZA	27,441	0.6
NON-PUBLICALLY ACCESSIBLE COMMON OPEN SPACE	28,304	0.4
NON-PUBLICALLY ACCESSIBLE RECREATION OPEN SPACE	34,210	0.7
PRIVATE DECK AREA	19,770	0.8
TOTAL	174,679	4.0

SITE COVERAGE FOR BLDGS. EAST PORTION

	S.F.
BUILDING AB	181,063
BUILDING CD	118,703
BUILDING TOTAL	299,766
SITE TOTAL	518,522
SITE COVERAGE FOR BLDGS.	58%

LEGEND - WEST PORTION
TOWNHOMES

- PUBLICALLY ACCESSIBLE COMMON OPEN SPACE
- NON-PUBLICALLY ACCESSIBLE COMMON OPEN SPACE
- NON-PUBLICALLY ACCESSIBLE RECREATION OPEN SPACE
- NON-PUBLICALLY ACCESSIBLE OPEN SPACE (BACKYARD/PATIO/DECK)

OPEN SPACE CALCULATIONS WEST PORTION

	S.F.	AC
LANDSCAPE/EASEMENT PUBLICALLY ACCESSIBLE COMMON OPEN SPACE	19,904	0.5
LANDSCAPE/COMMON OPEN SPACE NON-PUBLICALLY ACCESSIBLE COMMON OPEN SPACE	146,465	3.4
RECREATION AREA/CLUBHOUSE NON-PUBLICALLY ACCESSIBLE RECREATION OPEN SPACE	11,878	0.3
PRIVATE OPEN SPACE/BACKYARD/PATIO NON-PUBLICALLY ACCESSIBLE OPEN SPACE	34,502	0.8
TOTAL	212,750	4.9

OPEN SPACE EXHIBIT

JOB# 23-003/23-024
DATE: 01-09-2026

EXHIBIT "D"

AMENDED AND RESTATED COAS

[TO BE ADDED]

EXHIBIT "E"

EXCERPTS FROM 2022 CALIFORNIA MECHANICAL CODE (INCLUDING THE JULY 1, 2024 SUPPLEMENT)

1104.6 Group A2L Refrigerants for Human Comfort. *High-probability systems using Group A2L refrigerants for human comfort applications shall comply with this section. [ASHRAE 15:7.6]*

1104.6.1 Refrigerant Concentration Limits. *Occupied spaces shall comply with the releasable charge limitations of the equipment listing and ASHRAE 15. Unoccupied spaces with refrigerant containing equipment, not including continuous piping or tubing, shall comply with the releasable charge limitations of the equipment listing or Section 1104.6.4. {ASHRAE 15:7.6.1-7.6.1.2}*

1104.6.2 Listing and Installation Requirements. *Refrigeration systems shall be listed and shall be installed in accordance with listing, the manufacturer's instructions, and any markings on the equipment restricting the installation. [ASHRAE 15:7.6.2]*

1104.6.2.1 Nameplate. *The nameplate required by Section 1115.5 shall include a symbol indicating that a flammable refrigerant is used, as specified by the product listing. [ASHRAE 15:7.6.2.1]*

1104.6.2.2 Labeling. *A label indicating a flammable refrigerant is used shall be placed adjacent to service ports and other locations where service involving components containing refrigerant is performed, as specified by the product listing. [ASHRAE 15:7.6.2.2]*

1104.6.2.3 Refrigerant Detection Systems. *Refrigerant detection systems shall be in accordance with the listing and ASHRAE 15.*

1104.6.2.4 Refrigerant Concentration Above Limit. *When the refrigerant detection system senses a refrigerant exceeding its setpoint, the following actions shall be taken:*

(1) The supply air fan of the equipment shall activate with a minimum airflow rate specified by the manufacturer.

(2) Turn off the compressor and all other electrical devices, excluding the control power transformers, control systems, and the supply air fan. The supply air fan shall continue to operate for at least five minutes after the refrigerant detection system has sensed a drop in the refrigerant concentration below the value specified in Section 1104.6.6(b).

Exception: The compressor operation shall not be turned off when the compressor operation reduces the leak rate or the total amount of released refrigerant to the indoor space.

(3) Any device that controls airflow located within the product or in ductwork that supplies air to the occupied space shall be fully open. Any device that controls airflow shall be listed.

(4) Mitigation action required by the equipment listing shall be initiated {ASHRAE 15:7.6.2.4}

DRAFT

AMENDED AND RESTATED CONDITIONS OF APPROVAL (EXHIBIT D TO AMENDED AND RESTATED DEVELOPMENT AGREEMENT 23-19)

EXHIBIT B TO PLANNING COMMISSION RESOLUTION NO. 22-244 - CONDITIONS OF APPROVAL (SITE PLAN AND DESIGN REVIEW No. DOR 1803-19)

These "Conditions of Approval" shall govern the development of the Imperial Avalon Site Plan within the Imperial Avalon Specific Plan ("Specific Plan"), located at 21207 Avalon Boulevard in the City of Carson ("Project Site"). The "Project" consists of 1,115 residential dwelling units, 10,000 square feet of restaurant uses and 111,581 square feet of publicly accessible, privately maintained open space. The Project is proposed by the "Applicant" which currently **(as of the date of Planning Commission Resolution No. 22-244)** consists of Imperial Avalon, LLC which term shall include the successors and assigns of the Applicant (aka, the "Developer).

GENERAL CONDITIONS

1. The Applicant shall sign an Affidavit of Acceptance form and submit the document to the Planning Division within 30 days of receipt of the City Council Resolution approving the amendment to the Specific Plan.

2. The adopted Ordinance approving the Specific Plan, including the Conditions of Approval contained herein, and the signed Affidavit of Acceptance, shall be copied in their entirety and placed directly onto a separate plan sheet behind the cover sheet of the development plans prior to Building and Safety plan check submittal. Said copies shall be included in all development plan submittals, including any revisions and the final working drawings.

3. These Conditions of Approval shall be subject to the terms and conditions of the Imperial Avalon Specific Plan, Final Environmental Impact Report (FEIR), Mitigation Monitoring and Reporting Program (MMRP), and Development Agreement (DA). In the event of a conflict between these Conditions of Approval and the Development Agreement the Development Agreement shall control.

4. Prior to Building and Safety plan check submittal and prior to issuance of building permits **with respect to each phase of the Project (i.e. Townhomes, first Apartment building, second Apartment building) (each a "Phase")**, the Applicant shall submit a complete set of electronic Construction Drawings **for such Phase** that conform to all the Conditions of Approval **applicable to such Phase** to be reviewed and approved by the Planning Division.

5. The Applicant shall comply with all Mitigation Measures, Project Design Features, and Project Characteristics as described in the Final Environmental Impact Report and MMRP.

6. The Applicant shall make any necessary site plan and design revisions to the site plan and elevations approved by the Planning Commission, City Council, and these conditions of approval. All plans shall be consistent with all project approvals.

7. City Approvals. All approvals by City, with respect to the Project and/or the Conditions of Approval set forth herein, unless otherwise specified, shall be by the department head of the department or agency requiring the applicable condition. All agreements, covenants, easements, deposits and other documents required herein where City is a party shall be in a form approved by the City Attorney. The Applicant shall pay the cost for review and approval of such agreements and deposit necessary funds pursuant to the First Amended Reimbursement Agreement, between the City and Imperial Avalon, LLC, dated June 1, 2022 (as amended or modified from time to time, the "Reimbursement Agreement").

8. Reimbursement Agreement. A trust deposit account shall be established and maintained pursuant to the Reimbursement Agreement.

9. Indemnification. The Applicant, and its tenant(s), for themselves and their successors in interest ("Indemnitors"), agree to defend, indemnify and hold harmless the City of Carson, its agents, officers and employees, and each of them ("Indemnitees") as set forth in the DA from and against any and all claims, liabilities, damages, losses, costs, fees, expenses, penalties, errors, omissions, forfeitures, actions, and proceedings (collectively, "Claims") against Indemnitees with respect to the Project entitlements or approvals that are the subject of these Conditions of Approval, and any Claims against Indemnitees which are in any way related to Indemnitees' review of or decision upon the Project that is the subject of these Conditions of Approval (including, without limitation, any Claims related to any finding, determination, or claim of exemption made by Indemnitees pursuant to the requirements of the California Environmental Quality Act, or other local or State Agencies, and any Claims against Indemnitees which are in any way related to any damage or harm to people or property, real or personal, arising from Indemnitors' construction or operations of the Project, I, or any of the Project entitlements or other approvals that are the subject of Conditions of the Approvals for the Specific Plan, Site Plan and Design Review and Tentative Tract Map. The City will promptly notify Indemnitors of any such claim, action or proceeding against Indemnitees, and, at the option of the City, Indemnitors shall either undertake the defense of the matter or pay Indemnitees associated legal costs or shall advance funds assessed by the City to pay for the defense of the matter by the City Attorney. In the event the City opts for Indemnitors to undertake defense of the matter, the City will cooperate reasonably in the defense, but retains the right to settle or abandon the matter without Indemnitors' consent. Indemnitors shall provide a deposit to the City in the amount of 100% of the City's estimate, in its sole and absolute discretion, of the cost of

litigation / Claims asserted, including the cost of any award of attorneys' fees, and shall make additional deposits as requested by the City to keep the deposit at such level. If Indemnitors fail to provide or maintain the deposit, Indemnitees may abandon the action and Indemnitors shall pay all costs resulting therefrom and Indemnitees shall have no liability to Indemnitors.

SPECIAL CONDITIONS

10. Avalon Street Improvements. Prior to issuance of any building permits, the developer shall prepare plans and obtain approval from the City for installation of street improvements along their Avalon Boulevard street frontage consistent with the Carson Street Master Plan improvements, the Union South bay project, and as identified in the DIF Nexus Study prepared by Kelly Associates Management Group and dated March 19, 2019, and approved by the City Council on April 2, 2019, along with all reports, studies, assessments and memorandums referenced within that study(collectively the "DIF Nexus Study") including parkway and median landscaping, hardscaping, and street furniture including bike racks, streetlights, benches, way finding signs, etc. All improvements shall be completed prior to issuance of the **certificate of** occupancy ~~permit~~ for the first apartment building or any townhomes, whichever occurs earlier.

11. Grace Avenue Improvements. Prior to issuance of building permits, the developer shall prepare plans and obtain approval from the City for installation of street improvements along their street frontage improvements for Grace Avenue consistent with the approved plans. All improvements shall be completed prior to issuance of the occupancy permit for the first townhome.

12. Bicycle Lane Improvements. Prior to issuance of building permits, the developer shall prepare plans and obtain approval from the City for installation of bicycle lanes along Avalon Boulevard and 213th Street identified in the DIF Nexus Study. All improvements shall be completed prior to issuance of the **certificate of** occupancy ~~permit~~ for the first apartment building or any townhomes, whichever occurs earlier.

13. The Site Plan and Design Review approval shall not be effective until such time the City Council approves the Specific Plan, Development Agreement, General Plan Amendment, and Zone Change and said documents are legally effective.

14. The final Construction Documents shall comply with the provisions and requirements of the Development Agreement, the Specific Plan and final approved Site Plan.

15. The applicant shall ensure that the fugitive dust control program is implemented during construction. The program shall be depicted on the construction drawings/grading plans and the contractor shall be responsible for implementation.

16. Adequate measures shall be taken to eliminate odors during the grading operations ~~as a result of the site being a former landfill~~ to the satisfaction of the Community Development Director.

17. ~~The Development Agreement Fee and all other fees~~ **Fees** shall be paid in appropriate times as specified in the Development Agreement and the Conditions of Approval.

LANDSCAPE / IRRIGATION

18. Landscaping shall conform to the provisions contained in the Specific Plan and all City codes regarding water conservation.

19. Prior to issuance of ~~any~~ building permits **for the applicable Apartment Phase,** the **applicable** Applicant shall provide **onsite** landscape plans **for the applicable Apartment Phase** to the Planning Division for review and approval ~~for all areas of the site.~~ **Prior to issuance of building permits for the Townhomes, the Applicant shall provide onsite landscape plans for the Townhomes to the Planning Division for review and approval.** ~~In lieu of installation of the entire landscaping on the site prior to issuance of occupancy permits, t~~ The Community Development Director ~~may~~ **shall** approve a phased landscape installation plan **as submitted by the developers of the Townhome and/or Apartment components of the project** to ~~require~~ **allow** a phased installation of landscaping prior to issuance of occupancy permits of various portions of the project.

20. Installation, maintenance, and repair of all **onsite** landscaping shall be the responsibility of the Applicant **for each Phase.** ~~All landscaping shall be installed prior to issuance of any occupancy permits. The Community Development Director may approve a phased installation of the landscaping.~~

21. Landscaping shall be provided with a permanently installed, automatic irrigation system and operated by an electrically-timed controller station set for early morning or late evening irrigation per the Specific Plan.

22. Installation of 6" high concrete curbs are required around all landscaped planter areas, except for areas determined by National Pollutant Discharge Elimination System(NPDES) permit or other applicable condition of approval that requires certain landscaped areas to remain clear of concrete curbs for more efficient storm water runoff flow and percolation as deemed necessary by the City Engineer. Revised landscaping and irrigation plans shall be reviewed and approved by the Planning Division should subsequent modifications be required by other concerned agencies regarding the removal of concrete curbs.

23. The proposed irrigation system shall include best water conservation practices.

24. Backflows shall be screened with min. 5' wide planters and landscape screen material, with plant material per the Specific Plan. Paint device green color similar to Frazee, aeroplate 'Forest Green' or equal. Transformers shall be screened with shrubs and ground covers, with plant material per the Specific Plan.

25. The Project shall comply with AB 325, the State Model Water Efficient Landscape Ordinance. Maximum Applied Water Allowance, MAWA, and Estimated Applied Water Use shall be calculated and submitted on all landscape construction documents.

26. All walls that include creeping vines shall be installed on the project side of the wall and shall be passed through the walls to the opposite side by drilling holes on wall or by other method as approved by the Planning Division.

27. Show corner sight line distances on the landscape plan per Engineering Department Standard Drawings.

WALLS / FENCES

28. Prior to the issuance of any building permits **for the Apartments for an Apartments Phase,** the applicant shall submit a Wall and Fence Plan **for the Apartments for such Phase** to the Planning Division for review and approval by the Planning and Building Divisions ~~for all areas of the site.~~ **Prior to the issuance of any building permits for the Townhomes, the applicant shall submit a Wall and Fence Plan for the Townhomes to the Planning Division for review and approval by the Planning and Building Divisions.** The plans shall indicate materials colors and height of proposed and existing walls and fences and shall include a cross section of walls and fences indicating adjacent grades. Walls shall be consistent with the requirements of the Specific Plan. In lieu of construction of ~~all~~ walls and fences ~~on the site~~ prior to issuance of any occupancy permits, the Community Development Director ~~may~~ **shall** approve a phased construction plan for the walls and fences **as submitted by the developer of the Townhome and/or applicable Apartment Phase component of the project to allow for phased construction of all walls and fences** prior to issuance of ~~occupancy permits~~ **certificates of occupancy** of ~~various portions~~ **the applicable Phases** of the project.

29. All walls shall include graffiti-resistant coating.

LIGHTING

30. All exterior lighting and sign lighting shall be provided in compliance with the standards pursuant to the Specific Plan.

31. Two sets of **onsite** lighting plans **for each Apartment Phase** are to be drawn, stamped, and signed by a licensed lighting consultant **or an electrical engineer** and submitted and approved by the Planning Division prior to the issuance of building permits **for the**

applicable Apartments Phase. Two sets of onsite lighting plans for the Townhomes are to be drawn,

stamped, and signed by a licensed lighting consultant or an electrical engineer and submitted and approved by the Planning Division prior to the issuance of building permits for the Townhomes. In lieu of installation of all lights on the site prior to issuance of any occupancy permits, the Community Development Director ~~may~~ **shall** approve a phased installation plan **as submitted by the developers of the Townhome and/or applicable Apartment Phase component of the project to allow** for the **phased installation of** lights prior to issuance of occupancy permits of various portions of the project.

32. All lighting within the Project shall be directed on-site in such a manner as to not create a nuisance or hazard to adjacent streets and properties, which shall be subject to the approval of the Planning Division.

SIGNAGE

33. Prior to issuance of any ~~building~~ **certificates of occupancy** ~~permits~~ **for the Apartment Phases,** the Applicant shall submit a Comprehensive Sign Program **for the applicable Apartment Phase** consistent with the Specific Plan and Development Agreement. **Prior to issuance of any certificates of occupancy for the Townhomes, the Applicant shall submit a Comprehensive Sign Program for the Townhomes consistent with the Specific Plan and Development Agreement. The Comprehensive Sign Program shall reflect a consistent design aesthetic between the Apartments and the Townhomes.**

34. Prior to issuance of ~~building~~ **any certificates of occupancy** ~~permits,~~ the Applicant shall provide plans to the Planning Division for approval of entry monument signage consistent with the Comprehensive Sign Program.

35. Prior to issuance of ~~building~~ **any certificates of occupancy** ~~permits~~ **for the applicable Apartment Phase,** the Applicant shall provide plans to the Planning Division for approval of Directional/wayfinding signage consistent with the Comprehensive Sign Program **for the applicable Apartment Phase. Prior to issuance of any certificates of occupancy for the Townhomes, the Applicant shall provide plans to the Planning Division for approval of Directional/wayfinding signage consistent with the Comprehensive Sign Program for the Townhomes.**

36. ~~All signs shall be installed prior of any issuance of occupancy permits.~~ In lieu of installation of all signage on the site prior to issuance of any occupancy permits, the Community Development Director ~~may~~ **shall** approve a phased installation plan **as submitted by the developers of the Townhome and/or applicable Apartment Phase component of the project to allow** for the **phased installation of** signs prior to issuance of occupancy permits of various portions of the project.

PARKING

37. Prior to issuance of **certificate of** occupancy ~~of~~ **for** the first apartment building, the Applicant shall prepare, submit for City's approval, fund and operate a parking management program for on-site parking monitoring and Grace Avenue parking monitoring. The program will be required to ensure that residents and visitors park in appropriate parking stalls. Imperial Avalon residents and guest shall be prohibited from parking on Grace Avenue or other residential streets of the surrounding community.

38. All parking areas and driveways shall remain clear. No encroachment into parking areas and/or driveways shall be permitted.

39. All areas used for the movement, parking, loading, repair or storage of vehicles shall be paved with either: a. Concrete or asphaltic concrete to a minimum thickness of three and one-half inches over four inches of crushed aggregate base; or b. Other surfacing material which, in the opinion of the Director of Public Works, provides equivalent life, service and appearance.

TRASH

40. Trash collection shall comply with the requirements of the City's trash hauler.

41. Submit development plans for plan check review and approval prior to issuance of permits.

42. Obtain all appropriate permits and an approved final inspection for the proposed Project.

ENGINEERING SERVICES DEPARTMENT - CITY OF CARSON

41. Any existing off-site improvements damaged during the construction shall be removed and reconstructed per City of Carson PW Standard Drawings and to the satisfaction of the City Engineer.

42. A construction permit is required for any work to be done in the public right-of-way.

43. The Applicant shall comply with street improvements and all other requirements included in the Development Agreement.

44. The Applicant shall comply with all conditions and requirements imposed in connection with recordation of the Final Tract Map by the County of Los Angeles Department of Public Works and/or the ~~County of Los Angeles Department of Public Works~~ **City,** as approved by the City Engineer.

Prior to Certificate of Occupancy

45. The developer shall ensure the signal at the intersection of Avalon Boulevard and the main project entry is operational, at the developer's expense, to the satisfaction of the City Engineer.

46. The Applicant shall comply with all requirements from L.A. County Sewer Maintenance Division for Maintenance of new and/or existing sewer main, relating to this development, prior to release of all improvement bonds.

47. The Applicant shall execute and provide to the City Engineer, a written statement from the water purveyor (Calwater) indicating that the water system will be operated by the purveyor and that under normal conditions, the system will meet the requirements for the development and that water service will be provided to each building. Comply with mitigation measures required by the water purveyor.

48. The Applicant shall construct and guarantee the construction of all required drainage infrastructures in accordance with the requirements and recommendations of the hydrology study, subject to the approval of the City Engineer.

49. If needed, easements shall be granted to the City, appropriate agency, or entity for the purpose of ingress, egress, construction, and maintenance of all infrastructures constructed and handicap access for this development to the satisfaction of the City Engineer and or appropriate agency or entity.

50. All infrastructure necessary to serve the ~~Project~~ **Townhomes** (water, sewer, storm drain, and street improvements) **shall be in operation prior to issuance of any certificates of occupancy for the Townhomes. All infrastructure necessary to serve the applicable Apartment building Phase (water, sewer, storm drain, and street improvements) shall be in operation prior to the issuance of certificates of occupancy for the respective Apartment Phase building.** ~~shall be in operation prior to the issuance of Certificate of Occupancy of any building.~~

PUBLIC WORKS – WATER QUALITY

Prior to Issuance of Building Permit

51. The Applicant shall comply with all applicable Low Impact Development ("LID") requirements and shall include Best Management Practices ("BMP") necessary to control storm water pollution from construction activities and facility operations to the satisfaction of the City Engineer.

52. Applicant shall complete and provide a BMP Reporting Template to City of Carson, Engineering Services Department.

53. Applicant shall provide contact information of the Qualified Storm Water Developer ("QSD") and/or Qualified SWPPP (Storm Water Pollution Prevention Plan) Developer ("QSP") for the Project Site.

54. Applicant shall submit digital copies of SUSMP/LID/NPDES/Grading Plans ~~concurrently~~ to City of Carson, Engineering Services Department ~~and Los Angeles County Building & Safety Division~~.

55. Applicant shall complete, sign and return the Stormwater Planning Program LID Plan Checklist form and return to City of Carson Engineering Services Division.

Prior to Certificate of Occupancy

56. For any structural and/or treatment water quality control device installed, the Applicant, shall record a maintenance covenant pursuant to Section 106.4.3 of the County of Los Angeles Building Code and title 12, Chapter 12.80 of the Los Angeles County Code relating to the control of pollutants carried by storm water runoff. In addition, an exhibit shall be attached to such covenant to identify the location and maintenance information for any structural and/or treatment control device installed. a) The Maintenance Covenant shall be reviewed and approved by the City Engineer prior to recordation with the Los Angeles County Registrar-Recorder/County Clerk. b) RECORDATION of the Maintenance Covenant is the responsibility of the Applicant. Provide a copy of the recorded Covenant Agreement to City Engineer prior to certificate of occupancy for any building.

57. Inspection will be conducted once a year after any portions of the Project are constructed.

FIRE DEPARTMENT

58. The proposed development for the Project shall obtain approval and comply with all Los Angeles County Fire Department requirements.

DEVELOPMENT IMPACT ~~AGREEMENT~~ FEE

59. ***Interim Development Impact Fee:*** **In accordance with Article XI (Interim Development Impact Fee Program) of the Carson Municipal Code ("CMC"), the applicant, property owner, and/or successor to whom this project approval is assigned ("Developer") shall be responsible for payment of one-time interim development impact fees ("IDIF") for the applicable Phase at the applicable rate detailed below for each unit of residential development constructed for the project. If the project increases or decreases in regards to the number of units constructed, the total IDIF amount will be adjusted accordingly at the applicable rate.**

Per CMC 11504, the IDIF shall be paid prior to the issuance of a certificate of

occupancy for the specific Townhome or Apartment building or up to twelve (12) months following

the issuance of the building permit for the specific Townhome or Apartment building, whichever occurs first, and the applicable IDIF rate (detailed below) shall be that in effect at the time of such payment, unless the timing or requirements of payment is modified by applicable State Law. No certificate of occupancy shall be issued prior to the full payment of the required IDIF amount, which payment shall be made in one lump sum installment. IDIF amounts/rates are subject to adjustment every July 1st based on State of California Construction Cost Index (Prior March to Current March Adjustment), per CMC Section 11500.

IDIF amounts/rates for residential development have been set at $16,918.01 per unit (1 bedroom or studio) and $21,147.52 (All Other) per unit for Fiscal Year 2025-26, effective July 1, 2025, through June 30, 2026. Affordable Housing Units are exempted from IDIF.

None of the proposed project units are exempt from IDIF. Based on the above-specified rates, the Developer would be responsible for a total payment of IDIF for the proposed project in an amount calculated as follows: (538 units [1 bedroom or studio] X $16,918.01 per unit = $9,101,889.38) + (578 units [All Other] X $21,147.52 per unit = $12,223,266.56) = $21,325,155.94, subject to any applicable fee credits or reimbursements to which Developer might be entitled under Carson Municipal Code Sections 11800-11804.

However, if the IDIF for the project is not paid in 2025-26 fiscal year (i.e., by June 30, 2026), a new IDIF rate/amount will apply for the period of July 1, 2026, through June 30, 2027, based on the IDIF rate for Fiscal Year 2026-27, and so on for subsequent fiscal year(s). The fee for Fiscal Year 2026-2027 IDIF has not yet been determined.

To understand the requirements in more detail, please visit the City's IDIF webpage at: https://ci.carson.ca.us/communitydevelopment/IDIFProgram.aspx and/or contact James Nguyen at jnguyen@carsonca.gov or 310-952-1700 ext. 1310.

Notice of Imposition of Interim Development Impact Fees; Right to Protest

Pursuant to CMC Section 11503, Developer is hereby notified of the IDIF imposed on the project, as described and in the amount stated above. In accordance with Government Code Section 66020, Developer may protest the imposition of the IDIF on the project by complying with the requirements set forth in CMC 11900. Any such protest shall be filed at the time of the approval or conditional approval of a development, as that phrase is defined in CMC 11901(A).

If you have any questions or comments regarding this notice, please contact James Nguyen at jnguyen@carsonca.gov or (310) 952-1700 ext. 1310.

In lieu of the Developer and the Project opting into Citywide Community Facilities District No. 2018-01 ("CFD") (estimated to have a net present value over the life of this Agreement of approximately fourteen million six hundred fifty-eight thousand three hundred sixty-two dollars ($14,658,362.00) and paying Development Impact Fees pursuant to Ordinance No. 19-1931 (estimated to be approximately thirteen million one hundred twenty-seven thousand fourteen dollars ($13,127,014.00) based on current Project features), Developer shall pay a Development Agreement Fee totaling thirty million fifteen thousand three hundred seventy-six dollars ($30,015,376.00) (the "Development Agreement Fee") (this includes an additional fee of $2,000 per residential unit multiplied by 1,115 units even if fewer units are constructed (equal to two million two hundred thirty thousand dollars ($2,230,000.00)).

Developer shall have the right to pay the Development Agreement Fee as prescribed below or cause the Development Agreement Fee contributions and payments to be made by a nonprofit entity in accordance with the terms prescribed by this Agreement. Except as otherwise provided for the Carson Park and Recreation Subsidy and the Initial DA Fee Payment, the amounts prescribed below shall be paid either by the Developer or the nonprofit entity at the City's direction toward specific programs, projects or uses within the following categories: (i) park, recreational and open space site acquisition, facility development and maintenance, (ii) City infrastructure improvements, maintenance and upgrades, and (iii) community recreational benefits and subsidies. The Development Agreement Fee payments are limited to the amounts and subject to the schedule set forth below:

a) Three hundred thousand dollars ($300,000.00) shall be due upon the Effective Date of the DA and shall be used by City to subsidize Carson residents' fees and costs associated with park and recreational registration, trophies and jerseys ("Carson Park and Recreation Subsidy").

b) Five million dollars ($5,000,000.00) shall be due prior to issuance of a grading permit for the Project ("Initial DA Fee Payment"). The City shall have the option to use the Initial DA Fee Payment in whole or in part for low income housing including but not limited to maintenance and upgrades to, and assistance with the preservation of, existing mobilehome parks located throughout the City.

c) Five million dollars ($5,000,000.00) shall be due prior to issuance of a building permit for the first Townhome to be constructed within the Project.

d) Six million dollars ($6,000,000.00) shall be due prior to issuance of a certificate of occupancy for the first Apartment building to be constructed within the Project, and another six million dollars ($6,000,000.00) shall be due upon issuance of a certificate of occupancy for the second Apartment building to be constructed within the Project..

e) Five million dollars ($5,000,000.00) shall be due within six months following issuance of a certificate of occupancy for the first Apartment building to be constructed within the Project.

f) Two million seven hundred fifteen thousand three hundred and seventy-six dollars ($2,715,376.00) shall be due prior to issuance of a building permit for the 150th Townhome to be constructed within the Project.

EXHIBIT C TO PLANNING COMMISSION RESOLUTION NO. 22-244, AS AMENDED BY CITY COUNCIL RESOLUTION NO. 22-242 - CONDITIONS OF APPROVAL (VESTING TENTATIVE TRACT MAP 83157)

These "Conditions of Approval" shall govern the development of the Imperial Avalon Vesting Tentative Tract Map ("VTTM"), located at 21207 Avalon Boulevard in the City of Carson ("Project Site"). The "Project" consists of a mixed use project including 1,115 residential dwelling units, 10,000 square feet of restaurant area, and 111,581 square feet of publicly accessible but privately maintained open space within the Imperial Avalon Specific Plan. The Project is proposed by the "Applicant" which currently **(as of the date of Planning Commission Resolution No. 22-244, as amended by City Council Resolution No. 22-242)** consists of Imperial Avalon, LLC which term shall include the successors and assigns of the Applicant (aka, the "Developer").

GENERAL CONDITIONS

1. The Applicant shall sign an Affidavit of Acceptance form and submit the document to the Planning Division within 30 days of receipt of the City Council Resolution approving the amendment to the Specific Plan.

2. The adopted Ordinance approving the Specific Plan, including the Conditions of Approval contained herein, and the signed Affidavit of Acceptance, shall be copied in their entirety and placed directly onto a separate plan sheet behind the cover sheet of the development plans prior to Building and Safety plan check submittal. Said copies shall be included in all development plan submittals, including any revisions and the final working drawings.

3. These Conditions of Approval shall be subject to the terms and conditions of the Imperial Avalon Specific Plan, Final Environmental Impact Report (FEIR), Mitigation Monitoring and Reporting Program (MMRP), and Development Agreement (DA). In the event of a conflict between these Conditions of Approval and the Development Agreement the Development Agreement shall control.

4. Prior to recordation of the map, the Applicant shall submit a vesting tentative map that complies with the approvals by the Planning Commission, City Council, these conditions of approval, City of Carson Public Works Department, and the County of Los Angeles. All plans shall be consistent with all project approvals.

5. The Applicant shall comply with all City, county, state, and federal regulations applicable to the Project.

6. The Applicant shall comply with all Mitigation Measures, Project Design Features, and Project Characteristics as described in the Final Environmental Impact Report and MMRP.

7. City Approvals. All approvals by City with respect to the Project and/or the Conditions of Approval set forth herein, unless otherwise specified, shall be by the department head of the department or agency requiring the applicable condition. All agreements, covenants, easements, deposits and other documents required herein where City isa party shall be in a form approved by the City Attorney. The Applicant shall pay the cost for review and approval of such agreements and deposit necessary funds pursuant to the First Amended and Restated Reimbursement Agreement, between the City, and Faring Capital, LLC, dated June 1, 2022 (as amended or modified from time to time, the "Reimbursement Agreement").

8. Reimbursement Agreement. A trust deposit account shall be established and maintained pursuant to the Reimbursement Agreement.

9. Indemnification. The Applicant, and its tenant(s), for themselves and their successors in interest ("Indemnitors"), agree to defend, indemnify and hold harmless the City of Carson, its agents, officers and employees, and each of them ("Indemnitees") as set forth in the DA from and against any and all claims, liabilities, damages, losses, costs, fees, expenses, penalties, errors, omissions, forfeitures, actions, and proceedings(collectively, "Claims") against Indemnitees with respect to the Project entitlements or approvals that are the subject of these Conditions of Approval, and any Claims against Indemnitees which are in any way related to Indemnitees' review of or decision upon the Project that is the subject of these Conditions of Approval (including, without limitation, any Claims related to any finding, determination, or claim of exemption made by Indemnitees pursuant to the requirements of the California Environmental Quality Act or other local or State Agencies, and any Claims against Indemnitees which are in any way related to any damage or harm to people or property, real or personal, arising from Indemnitors' construction or operations of the Project, including site improvements and other associated improvements. or any of the Project entitlements or other approvals that are the subject of Conditions of the Approvals for the Specific Plan, Site Plan and Design Review and Tentative Tract Map. The City will promptly notify Indemnitors of any such claim, action or proceeding against Indemnitees, and, at the option of the City, Indemnitors shall either undertake the defense of the matter or pay Indemnitees associated legal costs or shall advance funds assessed by the City to pay for the defense of the matter by the City Attorney. In the event the City opts for Indemnitors to undertake defense of the matter, the City will cooperate reasonably in the defense, but retains the right to settle or abandon the matter without Indemnitors' consent. Indemnitors shall provide a deposit to the City in the amount of 100% of the City's estimate, in its sole and absolute discretion, of the cost of litigation / Claims asserted, including the cost of any award of attorneys' fees, and shall make additional deposits as requested by the City to keep the deposit at such level. If Indemnitors fail to provide or maintain the deposit, Indemnitees may abandon the action and Indemnitors shall pay all costs resulting therefrom and Indemnitees shall have no liability to Indemnitors.

SPECIAL CONDITIONS

10. No demolition or grading permits shall be issued prior to Vesting Tentative Tract Map clearance by City of Carson Building & Safety. ~~Los Angeles County Department of Public Works~~

11. Avalon Street Improvements. Prior to issuance of any building permits, the developer shall prepare plans and obtain approval from the City for installation of street improvements along their Avalon Boulevard street frontage consistent with the Carson Street Master Plan improvements, the Union Southbay project, and as identified in the DIF Nexus Study prepared by Kelly Associates Management Group and dated March 19, 2019, and approved by the City Council on April 2, 2019, along with all reports, studies, assessments and memorandums referenced within that study (collectively the "DIF Nexus Study") including parkway and median landscaping, hardscaping, and street furniture including bike racks, streetlights, benches, wayfinding signs, etc. All improvements shall be completed prior to issuance of the occupancy permit for the first apartment building or any townhomes, whichever occurs earlier.

12. Grace Avenue Improvements. Prior to issuance of building permits, the developer shall prepare plans and obtain approval from the City for installation of street improvements along their street frontage improvements for Grace Avenue consistent with the approved plans. All improvements shall be completed prior to issuance of the occupancy permit for the first townhome.

13. Bicycle Lane Improvements. Prior to issuance of building permits, the developer shall prepare plans and obtain approval from the City for installation of bicycle lanes along Avalon Boulevard and 213th Street identified in the DIF Nexus Study and per the City's Complete Streets Policy and Public Works Designs. All improvements shall be completed prior to issuance of the occupancy permit for the first apartment building or any townhomes, whichever occurs earlier.

14. The Vesting Tentative Tract Map approval shall not be effective until such time the City Council approves the Specific Plan, Development Agreement, General Plan Amendment, and Zone Change and said documents are legally effective.

15. The final Construction Documents shall comply with the provisions and requirements of the Development Agreement, the Specific Plan and final approved Site Plan.

16. The applicant shall ensure that the fugitive dust control program is implemented during construction. The program shall be depicted on the construction drawings/grading plans and the contractor shall be responsible for implementation.

17. Adequate measures shall be taken to eliminate odors during the grading operations ~~as a result of the site being a former landfill~~ to the satisfaction of the Community Development Director.

18. ~~The Development Agreement Fee and all other fees~~ **Fees** shall be paid in appropriate times as specified in the Development Agreement and the Conditions of Approval.

BUILDING AND SAFETY DIVISION

19. Submit development plans **for the applicable Phase** for plan check review and approval prior to issuance of permits **for the applicable Phase**.

20. Obtain all appropriate permits **for the applicable Phase** and an approved final inspection for the **applicable Phase** ~~proposed Project~~.

ENGINEERING SERVICES DEPARTMENT – CITY OF CARSON

21. Any existing off-site improvements damaged during the construction shall be removed and reconstructed per City of Carson PW Standard Drawings and to the satisfaction of the City Engineer.

26. A construction permit is required for any work to be done in the public right-of-way.

27. The Applicant shall comply with all conditions and requirements recommended or imposed by the County of Los Angeles (Dept. of Public Works) in connection with Vesting Tentative Tract Map and / or the recordation of the Final Tract Map as approved by the City Engineer.

28. The **applicable** Developer shall submit a copy of approved Grading plans **for the applicable Phase** on bond paper to the City of Carson – Engineering Division, prior to issuance of grading permits **for the applicable Phase**.

29. The Developer shall submit an electronic copy of approved plans (such as, Sewer, Street and/or Storm Drain Improvements, whichever applies), to the City of Carson – Engineering Division, prior to issuance of permit by Engineering Division.

30. Proof of Worker's Compensation and Liability Insurance shall be submitted to the City prior to issuance of permit by Engineering Division.

31. A Construction bond for all work to be done within the public right of way shall be submitted and approved by Engineering Division prior to ~~approval of the Final Map~~ **issuance of building permits for the Project. No offsite work shall take place prior to posting the Construction bond.**

32. A Final Map prepared by, or under the direction of, a pre-1982 Registered Civil Engineer or Licensed Land Surveyor must be processed through the City Engineer prior to being filed with the County Recorder.

33. CC&R's (covenants, conditions, and restrictions) **or REAs (reciprocal easement and maintenance agreements)** to address drainage responsibilities are required.

34. Private easements will not be granted or recorded within areas proposed to be granted, dedicated, or offered for dedication until after the Final Map is filed with the County Recorder. If easements are granted after the date of tentative map approval, a subordination must be executed by the easement holder prior to the filing of the Final Map.

35. Prior to tentative map approval, quitclaim or relocate any easements interfering with building locations to the satisfaction of the City, appropriate agency or entity.

36. Provide suitable turnaround and label the driveways "Private Driveway and Fire Lane" on the Final Map to the satisfaction of the Fire Department.

37. Prior to tentative map approval, a soils report, sewer area study, drainage concept, hydrology study and stormwater quality plan shall be reviewed and approved. Tentative map approval will not be granted until the required soils, sewer, drainage concept, hydrology study and stormwater information have been received and found satisfactory.

38. Comply with mitigation measures recommended in the approved soils, sewer area study, drainage concept, hydrology study and stormwater quality plan.

39. Prior to tentative map approval, the Developer shall submit a sewer area study to the Los Angeles County Department of Public Works (LACDPW) to determine if capacity is adequate in the sewerage system to be used as the outlet for the sewer of this development. If the system is found to have insufficient capacity, the problem must be addressed and resolved to the satisfaction of the L.A. County Sewer Department.

40. The Developer shall install separate sewer laterals to individually serve each building in the development. Installation and dedication of main line sewers may be necessary to meet this requirement.

41. The Developer shall submit drainage/grading plans, prepared by a registered Civil Engineer, to ~~Los Angeles County Department of Public Works (LACDPW)~~ **City of Carson Building & Safety** and obtain approvals to the satisfaction of ~~LACDPW~~ **City of Carson Building & Safety.**

42. The Developer shall comply with applicable LID requirements (Carson Municipal Code Section 5809) and shall include Best Management Practices necessary to control

storm water pollution from construction activities and facility operations to the satisfaction of Building and Safety or as otherwise approved by the City Engineer.

43. A water system maintained by the water purveyor, with appurtenant facilities to serve all buildings in the development, must be provided. The system shall include fire hydrants of the type and location as determined by the Fire Department. The watermains shall be sized to accommodate the total domestic and fire flows.

44. The Developer shall send a print of the development map to the County Sanitation District, to request for annexation. The request for annexation **for the Townhomes must be approved (and annexation granted) prior to issuance of any certificates of occupancy for the Townhomes. The request for annexation for either of the Apartment buildings** must be approved **(and annexation granted)** prior to ~~Final Map approval~~ **issuance of any certificates of occupancy for the respective Apartment Building.**

45. A final guarantee will be required at the time of the filing of the Final Map with the County Recorder/County Clerk's Office.

46. Comply with the City of Carson Green Streets standards.

Prior to Issuance of Building Permit

47. Public Street Improvements Plans along Avalon Boulevard and Grave Avenue shall (be): a) include parkways, sidewalks, wheelchair ramps, bike lanes, landscaped medians, streetlights, etc. b) per The Imperial Avalon Specific Plan. c) per the City of Carson PW Standard Drawings. d) submitted to and reviewed by County of Los Angeles, Department of Public Works for approval recommendations to the City Engineer.

48. Final Map shall be approved and recorded, except as otherwise provided in the Development Agreement (No. 23-19).

49. Drainage/Grading plan **for the applicable Phase** shall be submitted for approval of the Building and Safety Division. The Developer shall submit a copy of approved Drainage/Grading plans on bond paper to the City of Carson – Engineering Division.

50. The Developer shall submit improvement plans **for the applicable Phase** to the Engineering Division showing all the required improvements in the public right of way for review and approval of the City Engineer. A copy of approved conditions of approval shall be attached to the plans when submitted.

51. Off-site improvements (e.g., driveways, sidewalk, parkway drains, trees, curb/gutter, etc.) shown on the grading plans **for the applicable Phase** must provide a concurrent submittal to City of Carson Engineering Division. Off-site improvements may be shown

on a separate set of street

improvement plans. Prior to issuance of Grading permit, developer shall obtain clearance from City of Carson Engineering Division.

52. Per CMC §9161.4, the Developer shall provide an in-lieu fee in an amount determined by the City Engineer, per CMC §9161.7 **for the applicable Phase**, to be sufficient to cover the costs of undergrounding all existing overhead utility lines, including telecommunication lines, 12 Kilovolts. The cash in-lieu payment **for the applicable Phase** shall be deposited in full amount before issuance of Building Permits **for the applicable Phase**. At the discretion of the City Engineer, the City may accept an undergrounding cost estimate prepared by Southern California Edison in-lieu of the City's estimate.

Prior to Certificate of Occupancy

53. The developer shall ensure the signal at the intersection of Avalon Boulevard and the main Project entry is operational, at the developer's expense, to the satisfaction of the City Engineer.

54. The Applicant shall comply with all requirements from L.A. County Sewer Maintenance Division for Maintenance of new and/or existing sewer main, relating to this development, prior to release of all improvement bonds.

55. The Applicant **for the applicable Phase** shall execute and provide to the City Engineer, a written statement from the water purveyor (Calwater) indicating that the water system will be operated by the purveyor and that under normal conditions, the system will meet the requirements for the development and that water service will be provided to each building.

56. Comply with mitigation measures required by the water purveyor.

57. The Applicant **for the applicable Phase** shall construct and guarantee the construction of all required drainage infrastructures in accordance with the requirements and recommendations of the hydrology study, subject to the approval of the City Engineer.

58. The Developer **for the applicable Phase** shall construct and guarantee the construction of all required drainage infrastructures in accordance with the requirements and recommendations of the hydrology study, subject to the approval of the City Engineer.

59. All new utility lines, servicing the proposed development shall be underground to the satisfaction of the City Engineer.

60. Comply with any additional requirements, if any, as means of mitigating any traffic impacts as identified in the traffic study approved by the City Traffic Engineer.

61. Install a striping and pavement legend per City of Carson PW Standard Drawings.

62. If needed **for the applicable Phase**, grant an easement(s) to the City or other appropriate agency or entity to the extent necessary for the construction and maintenance of all infrastructures required pursuant to the project approval and these conditions, and to facilitate ADA-compliant pedestrian and vehicular ingress and egress across driveways or other access points connecting the proposed development to the public right-of-way, or otherwise along the public right-of-way on or adjacent to the proposed development, to the satisfaction of the City Engineer and or appropriate agency or entity.

63. The Developer shall annex the area to the L.A. County Lighting Maintenance District, for the purpose of operating and maintaining the streetlights to be installed **but only for offsite streetlights in the public right of way.** The annexation shall be to the satisfaction of L.A. County and shall be completed prior to the issuance of **final** Certificate**s** of Occupancy. Additional streetlight installation or upgrade to existing streetlights may be required as part of the annexation.

64. Relocate existing conflicting street light poles to the satisfaction of L.A. County Traffic and Lighting Division, the City of the City Engineer and/or appropriate agency or entity.

PUBLIC WORKS – WATER QUALITY

Prior to Issuance of Building Permit

65. Prior to the issuance of Building Permit the proposed development is subject to the following:

a) Per City of Carson ordinance 5809 ~~developer~~ **Developer for the applicable Phase** shall comply with all applicable Low Impact Development (LID) requirements and shall include Best Management Practices necessary to control storm water pollution from construction activities and facility operations to the satisfaction of the City Engineer.

b) Developer shall apply for a Construction Activities Stormwater General Permit from the State Water Resources Control Board.

c) Developer shall provide a copy of an approved SWPPP stamped by **the City and/or the** Los Angeles County Building and Safety Division along with WDID number.

d) Developer shall provide contact information of the Qualified Storm Water Developer (QSD) and/or Qualified SWPPP (Storm Water Pollution Prevention Plan) Developer (QSP) of the site to **Roland Jen** via E-mail **RJen**@Carson.ca.us

e) Developer shall submit digital copies of the LID/NPDES/Grading Plans, hydrology and Hydraulic analysis concurrently to City of Carson, Engineering Services Department and Building & Safety Division. Deliver copy to **Roland Jen** via E-mail **RJen**@Carson.ca.us

f) Developer shall complete, sign and return the Stormwater Planning Program LID Plan Checklist form and return to City of Carson Engineering Services Division.

Prior to Issuance of Certificate of Occupancy

66. Prior to the issuance of Certificate of Occupancy the proposed development is subject to the following:

a) For any structural and/or treatment control device installed. Developer shall record a maintenance covenant pursuant to Section 106.4.3 of the County of Los Angeles Building Code and title 12, Chapter 12.80 of the Los Angeles County Code relating to the control of pollutants carried by storm water runoff. In addition, an exhibit shall be attached to identify the location and maintenance information for any structural and/or treatment control device installed.

b) Developer shall complete and submit digital BMP Reporting Template Spreadsheet to the City Public Works Department.

c) Covenant shall be reviewed and approved by the City Engineer prior to recordation with the Los Angeles County Registers Recorder/County Clerk.

d) RECORDATION is the responsibility of the Developer. Provide a copy of the recorded covenant agreement to City Engineer.

e) Inspection will be conducted once a year after all Post Construction Best Management Practices (BMP) are constructed.

f) Developer shall provide an approved Notice of Termination (NOT) by the State Water Resources Control Board.

FIRE DEPARTMENT

67. The proposed development for the Project shall obtain approval and comply with all Los Angeles County Fire Department requirements.

Final Map

68. Submit the Final Map for review and approval prior to recordation. Submittals are to be made at epicla.lacounty.gov.

69. Label the driveway "Private Driveway and Fire Lane" on the Final Map and clearly depict the required Fire Department width as approved at the tentative map review.

70. Prior to building permit issuance **for each Phase**, verification for compliance **with respect to the applicable Phase** will be performed during the fire prevention engineering plan check unit architectural plan review.

LOS ANGELES COUNTY DEPARTMENT PUBLIC WORKS

Drainage

71. Comply with the approved hydrology study, or the latest revision, to the satisfaction of **City of Carson Building & Safety.** ~~Public Works~~

72. Comply with the City's water quality requirements.

Geology and Soils

73. The final map must be approved by the **City of Carson Building&Safety's designated geotechnical expert** ~~Geotechnical and Materials Engineering Division (GMED)~~ to assure that all geotechnical requirements have been properly depicted.

Grading

74. Submit a grading plan **to the City of Carson Building&Safety** for approval. Also, acknowledgment and/or approval from all easement holders may be required.

75. Prior to approval of the grading plan, provide approval of the latest hydrology study ~~by~~ **to** the City **of Carson Building & Safety.**

76. Prior to approval of the grading plan, the subject grading plan must also be approved by Public Works, Geotechnical and Materials Engineering Division (GMED) or the City's Geotechnical Engineer.

77. **In order to ensure access to the Townhomes from Avalon Blvd through the Apartment lots, the rough grading of the site shall be completed for the entire Property. Notwithstanding the foregoing, the inspection and signoff of individual rough-graded pads for the Townhomes and/or either Apartment lot, respectively, can be obtained for individual rough-graded pads during the rough-grading effort.** Prior to approval of the grading plan, provide approval of any permits and/or letter of non-jurisdiction from all State and Federal Agencies as applicable. These agencies may include; the State of California Regional Water Quality Control Board, the State of California Department of Fish and Wildlife, the State of California Department of Conservation, the California Geologic Energy Management, and the Army Corps of Engineers.

Street

78. Dedicate an additional 5 feet of street right of way on Grace Avenue (30' from the street centerline).

79. Construct road improvements along the property frontage on Grace Avenue to include standard pavement, base, pavement transition, curb, gutter, and sidewalks. Sidewalks are to be constructed next to the property line. Relocate any affected utilities.

80. Reconstruct the cul-de-sac on Grace Avenue with a minimum radius of 32 feet.

81. Reconstruct the existing driveway on Avalon Boulevard to comply with American with Disabilities Act standards. The shared driveway needs to be reconstructed as two separate driveways. A 1' minimum clearance is required between the driveways top of "x."

82. Repair or replace all damaged sidewalk panels.

83. Repair or replace any improvements damaged during construction.

84. Plant street trees along the property frontage on Grace Avenue and Avalon Boulevard and provide a privately maintained irrigation system. Existing trees in dedicated or to be dedicated right of way shall be removed and replaced if not acceptable as street trees.

85. All drainage improvements within public right of way are to be privately maintained. Execute a covenant for private maintenance of curb/parkway drains, if any.

86. Underground all existing service lines and distribution lines that are less than 50 KV and new utility lines to the satisfaction of Southern California Edison.

87. Prior to **any** ~~final~~ **certificates of occupancy** ~~map approval,~~ enter into an agreement with the **local-**franchised cable TV operator (if an area is served) to permit the installation of cable in a common utility trench or provide documentation that steps to provide cable TV to the proposed subdivision have been initiated.

88. Comply with the City's road conditions.

89. Comply with the street lighting conditions as stipulated in the enclosed memorandum dated February 1, 2022, from Los Angeles County Public Works, Traffic Safety and Mobility Division (Street Lighting Section), and/or any of the City's street lighting requirements. **Per the memorandum, the County Lighting Districts cannot assume responsibility for streetlights located within gated communities or on roadways designated as a private or private-future street.**

Sewer

90. The approved sewer area study for this proposed land division remains valid for two years from the date of approval. After this period, the applicant shall request the City to re-validate the existing approved sewer area study. Any modifications to the approved tentative map may invalidate this sewer area study. If warranted by Public Works or the City, an approved update of the area study shall be required.

Water

91. The Developer shall comply with the requirements as stipulated in the Will Serve letter from California Water Service.

Subdivision

92. Provide addressing information in Microsoft Excel format to the satisfaction of the City Engineer.

93. Reserve reciprocal easements for drainage, ingress/egress, sewer, water, utilities, right to grade, and maintenance purposes, etc., in documents, over the common private driveways.

94. ~~Remove existing buildings prior to final map approval.~~ Demolition permits and final sign-off from the building inspector are required from the local Building and Safety office.

95. A final guarantee will be required at the time of the filing of the final map with the Registrar-Recorder/County Clerk's office.

96. Within 30 days of the approval date of this land use entitlement or at the time of the first plan check submittal, the applicant shall deposit the sum of $5,000 with Los Angeles County Public Works to defray the cost of verifying conditions of approval for the purpose of issuing final map clearances.

Street Light Requirements

97. The~~ project area~~ **installation of new street lights in the public right of way** will ~~be~~ require~~d to~~ **annexation into**~~ be annexed to~~ the County Lighting Maintenance District serving the City of Carson. Therefore, submit a street lighting plan showing existing **offsite** streetlight**s** **in the right of way** for the annexation process prior to **issuance of any** certificate**s** of occupancy.

98. Upon submittal of street lighting plans(s) **(offsites**~~ subdivision~~ only), the applicant shall comply with conditions of annexation in order for the light districts to pay for the future operation and maintenance of the streetlights. The annexation and the levy of assessment require the approval of the Board of Supervisors prior to Public Works approving street lighting plans. It is the sole responsibility of the owner/developer of the project to have all street lighting plans approved prior to~~ the map recordation~~ **the issuance of any certificates of occupancy.** The required street lighting improvements shall be the sole responsibility of the owner/developer of the project and the installation must be accepted per approved plans. If phasing of the project is approved, the required street lighting improvements shall be the sole responsibility of the owner/developer of the project and will be made a condition of approval to be in place for each phase.

Conditions of Annexation for County Lighting Maintenance District

99. Provide business/property owners name, mailing address, site address, Accessor Parcel Number, and Parcel Boundaries in Auto CADD format to be developed to Street Lighting Section **for any new street lights in the public right of way prior to issuance of any certificates of occupancy.**

100. Submit map of the proposed project including any roadways condition for streetlights to Street Lighting Section **for any new street lights in the public right of way prior to issuance of any certificates of occupancy.** Contact Street Lighting Section for map requirements and/or questions at (626) 300-4726.

Conditions of Acceptance for Street Light Transfer of Billing

101. ~~The area~~ **Prior to issuance of any certificate of occupancy for the applicable Phase, any new offsite street lights** must be annexed into the lighting district and all streetlight**s** in the project, or the approved phase of the project, must be constructed according to **City** ~~Public Works~~ approved plans. The contractor shall submit one complete set of "as-built" plans. The lighting district can assume the responsibility for the operation and maintenance of the **offsite** streetlights by July 1st of any given year, proved the above conditions are met, all streetlight**s** in the project, or approved project phase, have been constructed per **City** ~~Public Works~~ approved plan and energized and the owner/developer has requested a transfer of billing **for offsite street lights** at least by January 1st of the previous year. The transfer of billing could be delayed one or more years if the above conditions are not met.

Recycled Water and Purple Pipe Extension

102. ~~The Developer will provide recycled water purple pipe on site and will tie into any future purple pipe infrastructure. Prior to issuance of any Project grading or building permits, Developer shall enter into an agreement with the City and West Basin Municipal Water District to extend the existing purple pipe infrastructure from the intersection of Lenardo Drive and Avalon Boulevard to Avalon Boulevard and Carson Street. If an agreement cannot be reached, Developer will tie into purple pipe infrastructure when it becomes available.~~ **Intentionally Omitted.**

103. ***Interim Development Impact Fee:*** **In accordance with Article XI (Interim Development Impact Fee Program) of the Carson Municipal Code ("CMC"), the applicant, property owner, and/or successor to whom this project approval is assigned ("Developer") shall be responsible for payment of one-time interim development impact fees ("IDIF") for the applicable Phase at the applicable rate detailed below for each unit of residential development constructed for the project. If the project increases or decreases in regards to the number of units constructed, the total IDIF amount will be adjusted accordingly at the applicable rate.**

Per CMC 11504, the IDIF shall be paid prior to the issuance of a certificate of occupancy for the specific Townhome or Apartment building or up to twelve (12) months following the issuance of the building permit for the specific Townhome or Apartment building, whichever occurs first, and the applicable IDIF rate (detailed below) shall be that in effect at the time of such payment, unless the timing or requirements of payment is modified by applicable State Law. No certificate of occupancy shall be issued prior to the full payment of the required IDIF amount, which payment shall be made in one lump sum installment. IDIF amounts/rates are subject to adjustment every July 1st based on State of California Construction Cost Index (Prior March to Current March Adjustment), per CMC Section 11500.

IDIF amounts/rates for residential development have been set at $16,918.01 per unit (1 bedroom or studio) and $21,147.52 (All Other) per unit for Fiscal Year 2025-26, effective July 1, 2025, through June 30, 2026. Affordable Housing Units are exempted from IDIF.

None of the proposed project units are exempt from IDIF. Based on the above-specified rates, the Developer would be responsible for a total payment of IDIF for the proposed project in an amount calculated as follows: (538 units [1 bedroom or studio] X $16,918.01 per unit = $9,101,889.38) + (578 units [All Other] X $21,147.52 per unit = $12,223,266.56) = $21,325,155.94, subject to any applicable fee credits or reimbursements to which Developer might be entitled under Carson Municipal Code Sections 11800-11804.

However, if the IDIF for the project is not paid in 2025-26 fiscal year (i.e., by June 30, 2026), a new IDIF rate/amount will apply for the period of July 1, 2026, through June 30, 2027, based on the IDIF rate for Fiscal Year 2026-27, and so on for subsequent fiscal year(s). The fee for Fiscal Year 2026-2027 IDIF has not yet been determined.

To understand the requirements in more detail, please visit the City's IDIF webpage at: https://ci.carson.ca.us/communitydevelopment/IDIFProgram.aspx and/or contact James Nguyen at jnguyen@carsonca.gov or 310-952-1700 ext. 1310.

Notice of Imposition of Interim Development Impact Fees; Right to Protest

Pursuant to CMC Section 11503, Developer is hereby notified of the IDIF imposed on the project, as described and in the amount stated above. In accordance with Government Code Section 66020, Developer may protest the imposition of the IDIF on the project by complying with the requirements set forth in CMC 11900. Any such protest shall be filed at the time of the approval or conditional approval of a development, as that phrase is defined in CMC 11901(A).

If you have any questions or comments regarding this notice, please contact James

Nguyen at jnguyen@carsonca.gov or (310) 952-1700 ext. 1310.

~~In lieu of the Developer and the Project opting into Citywide Community Facilities District No. 2018-01 ("CFD") (estimated to have a net present value over the life of this Agreement of approximately fourteen million six hundred fifty-eight thousand three hundred sixty-two dollars ($14,658,362.00) and paying Development Impact Fees pursuant to Ordinance No. 19-1931 (estimated to be approximately thirteen million one hundred twenty-seven thousand fourteen dollars ($13,127,014.00) based on current Project features), Developer shall pay a Development Agreement Fee totaling thirty million fifteen thousand three hundred seventy-six dollars ($30,015,376.00) (the "Development Agreement Fee") (this includes an additional fee of $2,000 per residential unit multiplied by 1,115 units even if fewer units are constructed (equal to two million two hundred thirty thousand dollars ($2,230,000.00)).~~

~~Developer shall have the right to pay the Development Agreement Fee as prescribed below or cause the Development Agreement Fee contributions and payments to be made by a nonprofit entity in accordance with the terms prescribed by this Agreement. Except as otherwise provided for the Carson Park and Recreation Subsidy and the Initial DA Fee Payment, the amounts prescribed below shall be paid either by the Developer or the nonprofit entity at the City's direction toward specific programs, projects or uses within the following categories: (i) park, recreational and open space site acquisition, facility development and maintenance, (ii) City infrastructure improvements, maintenance and upgrades, and (iii) community recreational benefits and subsidies. The Development Agreement Fee payments are limited to the amounts and subject to the schedule set forth below:~~

~~a) Three hundred thousand dollars ($300,000.00) shall be due upon the Effective Date of the DA and shall be used by City to subsidize Carson residents' fees and costs associated with park and recreational registration, trophies and jerseys ("Carson Park and Recreation Subsidy").~~

~~b) Five million dollars ($5,000,000.00) shall be due prior to issuance of a grading permit for the Project ("Initial DA Fee Payment"). The City shall have the option to use the Initial DA Fee Payment in whole or in part for low income housing including but not limited to maintenance and upgrades to, and assistance with the preservation of, existing mobilehome parks located throughout the City.~~

~~c) Five million dollars ($5,000,000.00) shall be due prior to issuance of a building permit for the first Townhome to be constructed within the Project.~~

~~d) Six million dollars ($6,000,000.00) shall be due prior to issuance of a certificate of occupancy for the first Apartment building to be constructed within the Project, and another six million dollars ($6,000,000.00) shall be due upon issuance of a certificate of occupancy for the second Apartment building to be constructed within the Project..~~

~~e) Five million dollars ($5,000,000.00) shall be due within six months following issuance of a certificate of occupancy for the first Apartment building to be constructed within the Project.~~

~~f) Two million seven hundred fifteen thousand three hundred and seventy-six dollars ($2,715,376.00) shall be due prior to issuance of a building permit for the 150th Townhome to be constructed within the Project.~~

EXHIBIT C TO CITY COUNCIL ORDINANCE NO. 22-2221 – CONDITIONS OF APPROVAL (SPECIFIC PLAN NO. 21-19)

These "Conditions of Approval" shall govern the Imperial Avalon Specific Plan ("Specific Plan"), located at 21207 Avalon Boulevard in the City of Carson ("Project Site"). The "Project" consists of a mixed use project including 1,115 residential dwelling units, 10,000 square feet of restaurant area, and a 22,859 square foot of publicly accessible but privately maintained open space area within the Imperial Avalon Specific Plan. The Project is proposed by the "Applicant" which currently **(as of the date of Planning Commission Resolution No. 22-244)** consists of Imperial Avalon, LLC which term shall include the successors and assigns of the Applicant (aka, the "Developer").

GENERAL CONDITIONS

1. The Applicant shall sign an Affidavit of Acceptance form and submit the document to the Planning Division within 30 days of receipt of the City Council Resolution approving the Imperial Avalon Specific Plan.

2. The adopted Ordinance approving the Imperial Avalon Specific Plan, including the Conditions of Approval contained herein, and the signed Affidavit of Acceptance, shall be copied in their entirety and placed directly onto a separate plan sheet behind the cover sheet of the development plans prior to Building and Safety plan check submittal. Said copies shall be included in all development plan submittals, including any revisions and the final working drawings.

3. These Conditions of Approval shall be subject to the terms and conditions of the Specific Plan, Final Environmental Impact Report (FEIR), Mitigation Monitoring and Reporting Program (MMRP), and Development Agreement (DA). In the event of a conflict between these Conditions of Approval and the Development Agreement the Development Agreement shall control.

4. The Applicant shall comply with all City, county, state, and federal regulations applicable to the Project.

5. The Applicant shall comply with all Mitigation Measures, Project Design Features, and Project Characteristics as described in the Final Environmental Impact Report and MMRP.

6. The Applicant shall make any necessary site plan and design revisions to the site plan and elevations approved by the Planning Commission or City Council in order to comply with all the Conditions of Approval and applicable Specific Plan provisions.

7. The applicant shall update the Specific Plan document, if deemed necessary by the Community Development Director, consistent with all approvals and revisions approved by the City Council.

8. City Approvals. All approvals by City, with respect to the Project and/or the Conditions of Approval set forth herein, unless otherwise specified, shall be by the department head of the department or agency requiring the applicable condition. All agreements, covenants, easements, deposits and other documents required herein where City is a party shall be in a form approved by the City Attorney. The Applicant shall pay the cost for review and approval of such agreements and deposit necessary funds pursuant to the January 19, 2021 Reimbursement Agreement.

9. Reimbursement Agreement. A trust deposit account shall be established and maintained pursuant to the Reimbursement Agreement, dated January 19, 2021.

10. Indemnification. The Applicant, and its tenant(s), for themselves and their successors in interest ("Indemnitors"), agree to defend, indemnify and hold harmless the City of Carson, its agents, officers and employees, and each of them ("Indemnitees") as set forth in the DA from and against any and all claims, liabilities, damages, losses, costs, fees, expenses, penalties, errors, omissions, forfeitures, actions, and proceedings(collectively, "Claims") against Indemnitees with respect to the Project entitlements or approvals that are the subject of these Conditions of Approval, and any Claims against Indemnitees which are in any way related to Indemnitees' review of or decision upon the Project that is the subject of these Conditions of Approval (including, without limitation, any Claims related to any finding, determination, or claim of exemption made by Indemnitees pursuant to the requirements of the California Environmental Quality Act or other local or State Agencies, and any Claims against Indemnitees which are in any way related to any damage or harm to people or property, real or personal, arising from Indemnitors' construction or operations of the Project, including site improvements and other associated improvements. Or any of the Project entitlements or other approvals that are the subject of Conditions of the Approvals for the Specific Plan, Site Plan and Design Review and Tentative Tract Map. The City will promptly notify Indemnitors of any such claim, action or proceeding against Indemnitees, and, at the option of the City, Indemnitors shall either undertake the defense of the matter or pay Indemnitees associated legal costs or shall advance funds assessed by the City to pay for the defense of the matter by the City Attorney. In the event the City opts for Indemnitors to undertake defense of the matter, the City will cooperate reasonably in the defense, but retains the right to settle or abandon the matter without Indemnitors' consent. Indemnitors shall provide a deposit to the City in the amount of 100% of the City's estimate, in its sole and absolute discretion, of the cost of litigation / Claims asserted, including the cost of any award of attorneys' fees, and shall make additional deposits as requested by the City to keep the deposit at such level. If Indemnitors fail to provide or maintain the deposit, Indemnitees may abandon the action and Indemnitors shall pay all costs resulting therefrom and Indemnitees shall have no liability to Indemnitors.

SPECIAL CONDITIONS

11. Vehicular Gates. The location and design of all proposed vehicular gates shall be reviewed and approved by the City's traffic engineer and the Los Angeles County Fire Department.

12. Pedestrian Gates. The location, design and access control methods for all proposed pedestrian gates, including access gates for the pedestrian bridge, shall be reviewed and approved by the Director of Community Development prior to the issuance of any building permit.

Report to Honorable Mayor and City Council

Tuesday, March 17, 2026, 5:00 PM

DISCUSSION 27.

To: Honorable Mayor and City Council

From: Arminé Chaparyan, Deputy City Manager CMO Administration

Subject: CONSIDER ADOPTING RESOLUTION 26-026 DESIGNATING THE CITY OF CARSON'S EVENTS, PROGRAMS, AND COMMUNITY ACTIVITIES ASSOCIATED WITH THE 2028 OLYMPIC AND PARALYMPIC GAMES AS "THE CARSON EXPERIENCE" (CITY COUNCIL)

I. SUMMARY

The purpose of this item is to formally establish a unified identity for the City of Carson's community activities, events, and initiatives associated with the 2028 Olympic and Paralympic Games to be held in the Los Angeles region.

The proposed resolution designates "The Carson Experience" as the official name and branding umbrella for City-sponsored or City-supported events, programs, and activities occurring before, during, and after the 2028 Olympic and Paralympic Games. The designation will provide a cohesive framework for organizing celebrations, cultural programs, youth initiatives, economic development activities, and community engagement opportunities tied to the global sporting event.

By adopting the name "The Carson Experience," the City seeks to highlight Carson's identity as a diverse, welcoming, and sports-centered community while creating opportunities to showcase local culture, support businesses, and engage residents in the Olympic spirit. The initiative also reflects the City's broader vision of positioning Carson as a forward-looking community that is investing in innovation, technology infrastructure, and future-focused economic development.

This designation will allow City departments and community partners to coordinate planning and promotional efforts under a unified brand that celebrates Carson's role in the regional Olympic celebration and enhances the City's visibility to visitors from around the world.

II. RECOMMENDATION

TAKE the following actions:

1. WAIVE further reading and ADOPT Resolution No. 26-026, "A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CARSON, CALIFORNIA, OFFICIALLY DESIGNATING AND NAMING THE CITY OF CARSON'S EVENTS, PROGRAMS, AND COMMUNITY ACTIVITIES ASSOCIATED WITH THE 2028 OLYMPIC AND PARALYMPIC GAMES AS "THE CARSON EXPERIENCE"; and
2. AUTHORIZE the City Manager or designee to coordinate the development, promotion, and implementation of activities under the "Carson Experience" initiative.

III. ALTERNATIVES

TAKE another action the City Council deems appropriate and that is consistent with applicable laws.

IV. BACKGROUND

The Los Angeles region will host the 2028 Summer Olympics and 2028 Summer Paralympics, bringing significant international attention, tourism, and economic activity to Southern California.

The City of Carson is well positioned to participate in and benefit from the regional celebration due to its long-standing connection to athletics and international sporting events. Carson is home to the world-class sports and training facility known as Dignity Health Sports Park, which has hosted numerous international competitions and professional sporting events.

At the same time, the City of Carson is continuing to advance its long-term vision of becoming a center for innovation and economic growth in Southern California, including investments in next-generation technology infrastructure such as the City's municipally owned fiber network and broader efforts to position Carson as a "Gig City." These initiatives support the City's goals of attracting future industries, supporting green and emerging technologies, and creating new economic opportunities for residents and businesses.

Major global events such as the 2028 Games present an opportunity for cities throughout the region to engage residents, promote tourism, and highlight local culture. In preparation for the Olympic and Paralympic Games, many municipalities are establishing themed initiatives and programming to celebrate the event and welcome visitors.

The proposed initiative, "The Carson Experience," is intended to serve as the City's official umbrella identity for all Olympic-related community engagement efforts. Under this framework, the City may organize or support activities such as:

- Community festivals and cultural celebrations;
- Youth sports clinics and themed recreation programs;
- Public viewing events and watch parties;
- Educational programming highlighting our the history and values of Carson;
- Business promotions and economic development initiatives;
- Tourism and visitor engagement activities; and
- Volunteer and civic engagement opportunities.

The initiative would encompass activities beginning in the lead-up to the 2028 Games, continuing during the Olympic and Paralympic competitions, and extending afterward to sustain community momentum and economic opportunity.

Adopting an official name for these efforts will help create a recognizable identity for Carson's programming, strengthen marketing and promotional efforts, and encourage participation from residents, businesses, community organizations, and regional partners.

V. FISCAL IMPACT

Adoption of the proposed resolution itself does not have an immediate fiscal impact.

Activities associated with "The Carson Experience" may be implemented through existing City programs, partnerships with community organizations, sponsorships, and future City Council-approved programming related to the Olympic and Paralympic Games.

Any future events, marketing initiatives, or programming requiring additional funding would be presented to the City Council for consideration through the annual budget process or through separate agenda items as necessary.

The initiative may also provide opportunities to leverage partnerships, sponsorships, tourism promotion, and economic development activities that could generate positive economic benefits for local businesses and the community.

VI. EXHIBITS

1. Resolution 26-026

Attachments

Resolution 26-026

RESOLUTION NO. 26-026

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CARSON, CALIFORNIA, OFFICIALLY DESIGNATING AND NAMING THE CITY OF CARSON'S EVENTS, PROGRAMS, AND COMMUNITY ACTIVITIES ASSOCIATED WITH THE 2028 OLYMPIC AND PARALYMPIC GAMES AS "THE CARSON EXPERIENCE."

WHEREAS, the 2028 Olympic and Paralympic Games will be hosted in the Los Angeles region, bringing global attention, economic opportunity, and cultural exchange to the region; and

WHEREAS, the City of Carson is strategically located within Los Angeles County and is home to internationally recognized sports venues, training facilities, and diverse communities that actively support athletic excellence and international engagement; and

WHEREAS, the City of Carson is advancing a forward-looking vision to become a "Gig City" through the development of a municipally owned fiber network, positioning Carson as a center for high-speed connectivity, green technology, future industries, and innovation in Southern California, further strengthening the City's role as a modern hub for economic development, technology, and global engagement; and

WHEREAS, the City of Carson recognizes the opportunity presented by the 2028 Olympic and Paralympic Games to celebrate its residents, culture, youth, businesses, and community organizations through special events, programs, and civic activities; and

WHEREAS, the City of Carson desires to establish a unified identity and branding initiative to promote, organize, and celebrate local activities associated with the Olympic and Paralympic period; and

WHEREAS, the name "The Carson Experience" reflects the City's commitment to hospitality, cultural celebration, community pride, youth engagement, economic vitality, and the welcoming of visitors from around the world; and

WHEREAS, "The Carson Experience" will encompass events, festivals, cultural programs, community celebrations, exhibitions, business promotions, tourism initiatives, youth programs, and civic activities hosted by the City of Carson before, during, and after the 2028 Olympic and Paralympic Games; and

WHEREAS, establishing "The Carson Experience" will allow the City to coordinate municipal departments, community partners, local businesses, and regional stakeholders under a cohesive framework that highlights Carson's contributions to the global Olympic and Paralympic celebration; and

WHEREAS, the City Council wishes to formally designate this initiative in order to encourage civic participation, strengthen community pride, and position Carson as a welcoming destination for residents, visitors, and international guests.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF CARSON, DOES HEREBY RESOLVE, DECLARE, DETERMINE, AND ORDER AS FOLLOWS:

SECTION 1. The City Council hereby officially designates the collective City of Carson events, programs, activities, and initiatives organized before, during, and after the 2028 Olympic and Paralympic Games as "The Carson Experience."

SECTION 2. "The Carson Experience" shall serve as the official name and branding umbrella for City-sponsored or City-supported activities related to the Olympic and Paralympic Games, including but not limited to:

- Community celebrations and cultural festivals
- Youth and athletic programs
- Civic engagement initiatives
- Tourism and visitor activities
- Business and economic development promotions
- Educational and cultural exchange events
- Public viewing events and Olympic-themed programming

SECTION 3. The City Manager, or designee, is hereby authorized to coordinate the development, promotion, and implementation of "The Carson Experience," including collaboration with community organizations, regional partners, local businesses, and other stakeholders.

SECTION 4. City departments shall incorporate the name "The Carson Experience" into marketing materials, programming, and outreach activities related to the Olympic and Paralympic period to present a unified message showcasing the City of Carson.

SECTION 5. Residents, businesses, community groups, and institutions are encouraged to participate in and contribute to "The Carson Experience" in celebration of the Olympic and Paralympic spirit of friendship, excellence, and respect.

PASSED, APPROVED AND ADOPTED this 17th day of March 2026.

_____

Lula Davis-Holmes, Mayor

APPROVED AS TO FORM:

Sunny K. Soltani, City Attorney

ATTEST:

Dr. Khaleah K. Bradshaw, City Clerk

STATE OF CALIFORNIA)
COUNTY OF LOS ANGELES) SS:
CITY OF CARSON)

I, Khaleah Bradshaw, City Clerk of the City of Carson, do hereby certify that the foregoing Resolution, being Resolution No. 26-026, was passed and approved by the City Council of the City of Carson at its meeting held on March 17, 2026, by the following vote:

AYES:
NOES:
ABSENT:
ABSTAIN:

Dr. Khaleah K. Bradshaw, City Clerk

Report to Honorable Mayor and City Council

Tuesday, March 17, 2026, 5:00 PM

DISCUSSION 28.

To: Honorable Mayor and City Council

From: Nora A. Garcia , Director of Public Safety & Emergency Management PS Administration

Subject: CONSIDER INTRODUCTION AND FIRST READING BY TITLE ONLY OF ORDINANCE NO. 26-2605, AMENDING THE CARSON MUNICIPAL CODE RELATING TO SIDEWALK VENDING REGULATIONS, INCLUDING PROHIBITING SIDEWALK VENDING WITHIN 1,000 FEET OF A PLACE OF PUBLIC ASSEMBLAGE AROUND EVENT TIMES AND WITHIN 1,000 FEET OF A SCHOOL AROUND SCHOOL SESSION HOURS (CITY COUNCIL)

I. SUMMARY

On January 1, 2019, Senate Bill (SB) 946 (Safe Sidewalk Vending Act) decriminalized sidewalk vending and authorized cities to adopt objective time, place, and manner regulations directly related to public health, safety, and welfare. On January 22, 2019, the City Council adopted Ordinance No. 18-1828, which repealed and amended certain sections of the Carson Municipal Code (“CMC”) in order to create a comprehensive system of City regulations regarding sidewalk vendors in compliance with SB 946.

The proposed Ordinance amends the Carson Municipal Code (CMC) to prohibit sidewalk vending within 1,000 feet of entrances to places of public assemblage during or within two hours before or after events, and within 1,000 feet of entrances to schools while in session or within one hour before or after the school is in session. The Ordinance also clarifies definitions, removes outdated code references, eliminates internal inconsistencies, and updates administrative enforcement procedures.

The proposed amendments are intended to address, and are directly related to, objective health, safety and welfare concerns, including safety of pedestrian and traffic circulation, avoiding undue pedestrian congestion and obstructions to pedestrian ingress and egress, ensuring emergency personnel access and disability access compliance, and avoiding fire hazards, consistent with SB 946.

II. RECOMMENDATION

INTRODUCE for first reading, by title only and with full reading waived, Ordinance No. 26-2605, "AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF CARSON, CALIFORNIA, AMENDING: (i) SECTION 1202 OF CHAPTER 2 (PENALTY PROVISIONS) OF ARTICLE I (GENERAL PROVISIONS), (ii) SECTIONS 31001 (DEFINITIONS) AND 31002 (SIDEWALK VENDING OPERATIONAL REQUIREMENTS) OF CHAPTER 10 (SIDEWALK VENDING) OF ARTICLE 3 (PUBLIC SAFETY); (iii) SECTIONS 4118 (STREET VENDORS NEAR SCHOOLS), 4118.1 (PEDDLING FROM VEHICLES IN PARKS), 4118.2 (SELLING ICE CREAM AND CERTAIN FOOD PRODUCTS FROM VEHICLES IN PUBLIC STREETS), AND 4118.4 (VENDING OF MERCHANDISE ON PUBLIC PROPERTY, STADIUMS, ATHLETIC FIELDS, COMMUNITY CENTERS OR ABANDONED PROPERTY – EXCLUSIONS) OF CHAPTER 1 (PROHIBITED CONDUCT – OFFENSES) OF ARTICLE IV (PUBLIC PEACE); AND (iv) SUBSECTION (E) OF SECTION 63142 (MOBILE FOOD VENDORS) OF CHAPTER 3 (BUSINESS, PROFESSIONS, AND TRADES) OF ARTICLE VI (TAXES AND LICENSES) OF THE CARSON MUNICIPAL CODE, TO PROHIBIT SIDEWALK VENDORS IN PUBLIC PLACES OF ASSEMBLAGE (AS DEFINED) DURING AND IMMEDIATELY BEFORE AND AFTER LARGE EVENTS, AND TO ELIMINATE INTERNAL INCONSISTENCY WITHIN THE CARSON MUNICIPAL CODE WITH RESPECT TO REGULATION OF SIDEWALK VENDORS."

III. ALTERNATIVES

TAKE another action the City Council deems appropriate and that is consistent with applicable laws.

IV. BACKGROUND

Senate Bill 946, known as the Safe Sidewalk Vending Act, became effective on January 1, 2019, and established a statewide framework governing sidewalk vending. The legislation decriminalized sidewalk vending and prohibited local agencies from imposing criminal penalties for violations of sidewalk vending regulations. Instead, enforcement must occur through administrative citations. SB 946 authorizes cities to adopt objective time, place, and manner regulations that are directly related to health, safety, or welfare concerns.

In response to SB 946, the City Council adopted Ordinance No. 18-1828 in January 2019 to establish regulations governing sidewalk vendors within the City of Carson consistent with SB 946. Under that ordinance, sidewalk vendors are required to obtain a permit and comply with certain operational and other restrictions. However, there are no specific restrictions against sidewalk vending around event venues and schools at times where operations could pose risks to public health and safety due to the potential for crowds and/or a high volume of circulation and congestion. Additionally, the 2018 ordinance left certain internal inconsistencies within the Carson Municipal Code (CMC), including outdated cross-references to repealed CMC Section 4126 and overlapping provisions that may create ambiguity regarding the regulation of sidewalk vendors versus vehicle-based vendors. The proposed amendments remove outdated references and clarify the applicability of various code sections to ensure consistency and clarity within the CMC.

The City is home to multiple venues and facilities that are capable of hosting large-scale public events, including stadiums, athletic facilities, event centers, and City parks. Events at these venues can draw significant crowds and result in increased pedestrian and vehicular congestion in the surrounding public rights-of-way. Similarly, schools within the City experience concentrated pedestrian and traffic activity during arrival, dismissal, and break periods. In these high density environments, sidewalk vending activity may impede ingress and egress, restrict disability access, obstruct emergency vehicle routes and personnel, and create potential traffic and pedestrian safety hazards.

To address these concerns, the proposed ordinance prohibits sidewalk vending within 1,000 feet of entrances to "places of public assemblage" during and within two hours before and after "events." "Place of public assemblage" is defined for this purpose to mean an event venue that has a capacity to host events of eight hundred (800) or more persons, including a stadium, arena, athletic field, court, or track, park, community center, or other event venue that has such capacity, excluding any private residence. “Place of public assemblage” is defined to include, without limitation, the Dignity Health Sports Park soccer stadium, the Dignity Health Sports Park tennis stadium, the Dignity Health Sports Park velodrome, the Carson Event Center, and any City park that has a capacity to host events of eight hundred (800) or more persons as determined by the City Manager. "Event" is defined to exclude any private gathering that is open neither to the ticketed public nor to the public generally and that does not exceed 500 persons.

Also to address these concerns, the proposed ordinance also prohibits sidewalk vending within 1,000 feet of school entrances while school is in session or within one hour before or after school is in session.

These regulations are intended to address, and are directly related to, objective health, safety, and welfare concerns consistent with SB 946, as discussed above and in the proposed ordinance.

The proposed ordinance retains and does not amend the current penalty provisions established under Ordinance No. 18-1828 for sidewalk vending violations, which are codified in CMC 31003. These provisions include imposing limited administrative fines in the maximum amounts allowed by state law and rescinding permits for repeat violations to the extent allowed by state law. The penalty provisions do not include criminal penalties, consistent with State law.

V. FISCAL IMPACT

There will be no fiscal impact to the FY 25-26 Operating Budget.

VI. EXHIBITS

1. Ordinance 26-2605

Attachments

1. Ordinance No. 26-2605

ORDINANCE NO. 26-2605

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF CARSON, CALIFORNIA, AMENDING: (i) SECTION 1202 OF CHAPTER 2 (PENALTY PROVISIONS) OF ARTICLE I (GENERAL PROVISIONS), (ii) SECTIONS 31001 (DEFINITIONS) AND 31002 (SIDEWALK VENDING OPERATIONAL REQUIREMENTS) OF CHAPTER 10 (SIDEWALK VENDING) OF ARTICLE 3 (PUBLIC SAFETY); (iii) SECTIONS 4118 (STREET VENDORS NEAR SCHOOLS), 4118.1 (PEDDLING FROM VEHICLES IN PARKS), 4118.2 (SELLING ICE CREAM AND CERTAIN FOOD PRODUCTS FROM VEHICLES IN PUBLIC STREETS), AND 4118.4 (VENDING OF MERCHANDISE ON PUBLIC PROPERTY, STADIUMS, ATHLETIC FIELDS, COMMUNITY CENTERS OR ABANDONED PROPERTY – EXCLUSIONS) OF CHAPTER 1 (PROHIBITED CONDUCT – OFFENSES) OF ARTICLE IV (PUBLIC PEACE); AND (iv) SUBSECTION (E) OF SECTION 63142 (MOBILE FOOD VENDORS) OF CHAPTER 3 (BUSINESS, PROFESSIONS, AND TRADES) OF ARTICLE VI (TAXES AND LICENSES) OF THE CARSON MUNICIPAL CODE, TO PROHIBIT SIDEWALK VENDORS IN PUBLIC PLACES OF ASSEMBLAGE (AS DEFINED) DURING AND IMMEDIATELY BEFORE AND AFTER LARGE EVENTS, AND TO ELIMINATE INTERNAL INCONSISTENCY WITHIN THE CARSON MUNICIPAL CODE WITH RESPECT TO REGULATION OF SIDEWALK VENDORS

WHEREAS, on January 22, 2019, the City Council adopted Ordinance No. 18-1828, which repealed and amended certain sections of the Carson Municipal Code ("CMC") in order to create a comprehensive system of City regulations regarding sidewalk vendors in compliance with then-new state law enacted effective January 1, 2019, pursuant to Senate Bill 946 and codified as Government Code Sections 51036 - 51039 ("SB 946"); and

WHEREAS, the City Council's adoption of Ordinance No. 18-1828 effected the repeal of former CMC Section 4126. However, CMC Sections 1202 and 63142, which remain in effect currently, make reference to CMC Section 4126. These references to Section 4126 were inadvertently left unaddressed by Ordinance No. 18-1828, notwithstanding that it provided for the repeal of Section 4126, and the Council now sees fit to remove them; and

WHEREAS, subject to specified exceptions, (i) CMC Section 4118 provides that street vending is generally prohibited within 1,500 feet of schools when in session, (ii) CMC Section 4118.1 provides that peddling or vending from vehicles in City parks is generally prohibited, and (iii) CMC Section 4118.2 provides that peddling or vending from vehicles of ice cream and certain other food products is generally prohibited in public streets; and

WHEREAS, CMC Section 4118.3 provides that the following activities are prohibited: (i) the vending of merchandise from a nonmotorized vehicle on public property; (ii) the display or storage of merchandise for sale on public property; and (iii) the vending of any goods for sale at any stadium, athletic field or community center, or on any property containing any vacant building, without prior approval and consent of the City's Building & Safety Division; and (iv) the vending of any goods for sale on any property containing an occupied building unless such sale is specifically permitted pursuant to the CMC; and

WHEREAS, CMC Sections 4118-4118.3 may conflict with SB 946 and Ordinance No. 18-1828 to the extent these sections apply to "sidewalk vendors," which is defined in SB 946 and Ordinance No. 18-1828 as persons who sell food or merchandise from a pushcart, stand, display, pedal-driven cart, wagon, showcase, rack, or other non-motorized conveyance, or from one's person, upon a public sidewalk or other pedestrian path, or other public area in the City ("Sidewalk Vendors"). These sections were inadvertently left unaddressed by Ordinance No. 18-1828, and the City Council now desires to amend these sections (or in the case of CMC Section 4118.3, to amend CMC Section 4118.4, which provides exemptions from applicability of CMC Section 4118.3) to ensure consistency and clarity of the City's regulations pertaining to "sidewalk vendors"; and

WHEREAS, certain City public rights-of-way are located next to venues where large crowds of people assemble for events, creating significant demand for limited public sidewalk and walkway space on event days, including, but not limited to, sidewalks located next to red curbs for emergency vehicles, pedestrians entering and exiting buildings or exterior facilities, bus stops, and passenger vehicles dropping off and picking up passengers. Sidewalk vending on any such public sidewalk or walkway creates public health and safety concerns by impeding ingress and egress to and from the event, obstructing use of such walkways for their intended purposes by persons with disabilities and other members of the public, whether attending the event or not, and interfering with the operations and activities of law enforcement and emergency services personnel on the walkways and in associated nearby areas, thereby posing risks to public health and safety including an increased likelihood of traffic collisions, trip and fall accidents, trampling occurrences, inability of emergency medical aid to be provided promptly to those in need, fire hazards, and other related concerns. Such venues can include City parks, as the City often hosts large events in its parks where the same concerns apply. Similar concerns also apply with respect to schools when in session, as they often involve rushes of pedestrian and vehicular traffic at pickup, drop-off and break times; and

WHEREAS, to address these public health and safety concerns, the City Council now sees fit and intends to modify the City's sidewalk vendor regulations to prohibit street vending on public sidewalks and walkways in and near the entrances and exits to and from such event venues during and immediately before and after events occurring at such venues, and at schools while in session and immediately before and after same; and

WHEREAS, the City Council finds that the requirements and restrictions of this Ordinance regulate the time, place and manner of sidewalk vending and are directly related to objective health, safety or welfare concerns, consistent with SB 946; and

WHEREAS, nothing in this ordinance or the CMC regulations regarding sidewalk vendors shall be construed to prohibit the prosecution of sidewalk vendors who fail to comply with other provisions of law not preempted by SB 946, including but not limited to trespassing, failing to pay taxes, selling counterfeit merchandise, selling food in violation of the California Health & Safety Code, and operating from a sidewalk located within 500 feet of a freeway ramp in violation of the California Vehicle Code.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF CARSON, CALIFORNIA, DOES HEREBY ORDAIN AS FOLLOWS:

SECTION 1. The forgoing recitals are true and correct and are incorporated herein by this reference.

SECTION 2. Section 1202 (Seizure of Personal Property Used in Certain Violation of This Code) of Chapter 2 (Penalty Provisions) of Article I (General Provisions) of the Carson Municipal Code, excluding any subsections, is hereby amended to read in its entirety as follows (deleted text shown in ~~strikethrough~~):

"**1202 Seizure of Personal Property Used in Certain Violations of This Code**

An arresting officer, in connection with making an arrest, or a City of Carson Code Enforcement Officer, in connection with issuing a citation to any person for violation of CMC 4118, 4118.1, 4118.2, 4125~~, 4126~~ or 4147, may seize and take into possession personal property not to exceed $1,000 in value in the possession or control of such person and used or involved in the commission of the violation for which the arrest is made or citation issued, if the act or conduct for which such arrest is made or citation is issued has caused, or resulted in, or is causing or resulting in, or is in the immediate proximity of any vehicular or pedestrian traffic congestion, an automobile accident or other emergency situation, a parade, demonstration, or public or other event attended by an assembly or gathering of a large number of persons, or in the event of imminent danger to the person with respect to whom the citation is issued or arrest is made.

(a) The officer or Code Enforcement Officer seizing personal property pursuant to the provisions of this Section shall issue a receipt therefor to the person from whose possession or control such property is taken and cause such property to be stored in the control of the City for safekeeping. Said receipt shall contain a notice stating in substance that the person claiming ownership of said property may file a written claim therefor with the Director of Public Safety of the City of Carson, at the City Hall within ten (10) days after date of such seizure, and that in the absence of receipt of such a claim within said time said personal property shall escheat to and become the property of the City of Carson and may be disposed of by the City without further notice. One (1) copy of said receipt and notice shall be attached to the copy of the complaint or citation filed with the court. Such claim shall set forth the name, address and fact of ownership of such property.

(b) If a written claim is filed with the Director of Public Safety in accordance with the requirements of subsection (a), a hearing shall be held by the Director of Public Safety or his designee within ten (10) days after such claim is filed. If the ownership of such property is established by credible evidence as determined by the hearing officer, the property shall be released to the owner thereof. If the hearing officer shall find that the ownership of such property has not been so established, the hearing officer shall deny the claim. The claimant may file a written appeal from such denial with the City Administrator of the City. The City Administrator or his designee shall conduct a hearing or such appeal within seven (7) days after the filing of such appeal.

(c) The City may impose a reasonable storage fee to cover the cost of storing personal property seized pursuant to this Section. The release of said property shall be conditioned upon full payment of the applicable fee.

(d) The City is not liable for the deterioration or depreciation of seized personal property while in the City's custody."

SECTION 3. Section 31001 (Definitions) of Chapter 10 (Sidewalk Vending) of Article 3 (Public Safety) of the Carson Municipal Code is hereby amended to read in its entirety as follows (added text shown in ***bold italics***):

"**31001 Definitions.**

As used in this Chapter:

(a) "Operate," when used in reference to a sidewalk vendor, means to vend.

(b) "Place of public assemblage" means an event venue that has a capacity to host events of eight hundred (800) or more persons, including a stadium, arena, athletic field, court, or track, park, community center, or other event venue that has such capacity, excluding any private residence. "Place of public assemblage" includes, without limitation, the stadiums that, as of the date of adoption of Ordinance No. 26-2605, are known as the Dignity Health Sports Park soccer stadium, the Dignity Health Sports Park tennis stadium, and the Dignity Health Sports Park velodrome, as well as the Carson Event Center and any City park that has a capacity to host events of eight hundred (800) or more persons as determined by the City Manager or his or her designee.

(c) ~~(b)~~ "Sidewalk vendor" means a person who vends from a pushcart, stand, display, pedal-driven cart, wagon, showcase, rack, or other nonmotorized conveyance, or from one's person (including from a pack or basket carried by the person), upon a public sidewalk, pedestrian path or walkway, or any other public area in the City.

(d) ~~(c)~~ "Stand" means any pushcart, stand, display, pedal-driven cart, wagon, showcase, rack, or other nonmotorized conveyance used by a sidewalk vendor for purposes of vending.

(e) ~~(d)~~ "Roaming sidewalk vendor" means a sidewalk vendor who moves from place to place and stops only to complete a transaction.

(f) ~~(e)~~ "Stationary sidewalk vendor" means a sidewalk vendor who vends from a fixed location.

(g) ~~(f)~~ "Temporary special permit" means any permit issued by the City for the temporary use of, or encroachment on, the sidewalk or other public area, including, but not limited to, an encroachment permit, special event permit, or temporary event permit, for purposes including, but not limited to, filming, parades, or outdoor concerts.

(h) ~~(g)~~ "Vend" means to sell, offer for sale, display, barter, exchange, or offer for barter or exchange food, beverages or merchandise."

SECTION 4. Section 31002 (Sidewalk Vending Operational Requirements) of Chapter 10 (Sidewalk Vending) of Article 3 (Public Safety) of the Carson Municipal Code is hereby amended to read in its entirety as follows (added text shown in ***bold italics***):

"**31002 Sidewalk Vending Operational Requirements.**

(a) No sidewalk vendor shall operate without first obtaining and maintaining a valid City business license and a sidewalk vendor's permit issued pursuant to Chapter 3 of Article VI. Application for the business license shall be made by submitting the information required pursuant to CMC 6336. Application for the sidewalk vendor's permit shall be made by submitting the information required pursuant to CMC 63143(b).

(b) Each sidewalk vendor shall display the required sidewalk vendor's permit in a conspicuous location on the sidewalk vendor's person or stand at all times while the sidewalk vendor is operating.

(c) Operating Restrictions. It shall be unlawful and a violation of this Chapter for any sidewalk vendor to:

(1) Operate outside the hours authorized in the required sidewalk vendor's permit, which hours shall not exceed: (a) in residential zones, 8:00 a.m. to 8:00 p.m.; and (b) in nonresidential zones, the hours established pursuant to any City-imposed operating hours limitation applicable to all other businesses or uses on the street on which the sidewalk vendor is operating;

(2) Operate as a stationary sidewalk vendor at any time in any residential zone;

(3) Leave unattended any stand at any time while operating, or store, park or leave unattended any stand at any time outside of operating hours on any public sidewalk, pedestrian walkway, or other public place;

(4) Sell food without first obtaining and thereafter maintaining the required permit issued by the Los Angeles County Department of Public Health or any other permit or license required pursuant to Part 7 (commencing with Section 113700) of Division 104 of the Health and Safety Code;

(5) Sell food for immediate consumption unless there is a litter receptacle available for patrons' use;

(6) Leave any location without first disposing of all trash or refuse generated by operating in such location;

(7) Allow any items used in connection with the operation to be placed or stored anywhere other than in, on, or under the stand, or on the person of the sidewalk vendor;

(8) Operate from a stand other than the stand authorized pursuant to the sidewalk vendor's permit;

(9) Set up, maintain, or permit the use of any additional table, crate, carton, rack, or any other device to increase the selling or displaying capacity of a stand without having obtained express authorization to do so pursuant to the required sidewalk vendor's permit;

(10) Solicit or conduct business with any person in a motorized vehicle;

(11) Sell anything other than the specific food, beverages or merchandise authorized to be sold as part of the operation pursuant to the required sidewalk vendor's permit;

(12) Create any unnecessary noise in violation of CMC 4101, including but not limited to CMC 4101(g), except that such conduct, when engaged in by a sidewalk vendor while operating, shall be punishable only by the administrative fines established pursuant to this chapter;

(13) Operate within: (a) fifty (50) feet of any fire hydrant; (b) twenty-five (25) feet of any transit stop; (c) twenty-five (25) feet of any building entrance; (d) fifteen (15) feet of the outer edge of any driveway or vehicular entrance to public or private property; ~~or~~ (e) within five (5) feet of any other sidewalk vendor on any public sidewalk, pedestrian path or walkway or other area intended for ingress or egress;

(14) Operate on any public sidewalk or pedestrian path or walkway in a manner that does not maintain four (4) feet in width of clear space on the sidewalk, path or walkway;

(15) Operate on a public sidewalk, pedestrian path or walkway in, or within one thousand (1,000) feet of any entrance of, a place of public assemblage during or within two hours before or after any event held at the place of public

assemblage. For purposes of this paragraph: (i) "event" excludes any private gathering that is open neither to the ticketed public nor to the public generally and that does not exceed 500 persons; and (ii) "entrance" means and includes any building entrance or exit and any entrance or exit to or from exterior premises, such as through outer fences or gates or into outer parking lots or driveways on the property or site of the place of public assemblage.

(16) Operate on a public sidewalk or pedestrian path or walkway within one thousand (1,000) feet of any entrance of a school when in session or within one hour before or after the school being in session. For purposes of this paragraph, "entrance" shall mean and include any building entrance or exit and any entrance or exit to or from exterior premises, such as through outer fences or gates or into outer parking lots or driveways on the property or site of the school.

(17) ~~(15)~~ Operate in any public street (i.e., in the street itself and not on the sidewalk), or on any median;

(18) ~~(16)~~ Operate as a stationary sidewalk vendor in any park owned or operated by the City, where the City or other park operator has an agreement in place with a concessionaire that exclusively permits the sale of food or merchandise by the concessionaire, during the hours the concessionaire is open in the park;

(19) ~~(17)~~ Operate as a stationary sidewalk vendor within any area of a City park that is within fifty (50) feet of an abutting residential dwelling;

(20) ~~(18)~~ Operate within a parking lot, except as expressly authorized pursuant to the required sidewalk vendor's permit based on a finding that such operation will not obstruct vehicular ingress, egress, or parking, or adversely affect public health or safety;

(21) ~~(19)~~ Operate within five hundred (500) feet of a certified farmers' market or a permitted swap meet during the operating hours of that certified farmers' market or swap meet;

(22) ~~(20)~~ Operate within five hundred (500) feet of an area designated for a temporary special permit issued by the City during the duration of the permit; provided, that any notice, business interruption mitigation, or other rights provided to affected businesses or property owners under the temporary special permit are also provided to the sidewalk vendor, if such vendor is specifically permitted to operate in the area pursuant to a sidewalk vendor's permit;

(23) ~~(21)~~ Operate in any area or manner that would obstruct or interfere with disability access standards or accessibility to any facility or area that is provided pursuant to requirements of or in compliance with the Americans with Disabilities Act of 1990;

(24) ~~(22)~~ Operate without general liability insurance meeting the minimum policy limits and other criteria established by the City Manager or designee;

(25) ~~(23)~~ Operate in violation of any applicable law or regulation."

SECTION 5. Section 4118 (Street Vendors Near Schools) of Chapter 1 (Prohibited Conduct – Offenses) of Article IV (Public Peace) of the Carson Municipal Code is hereby amended to read in its entirety as follows (added text shown in ***bold italics***):

"**4118 Street Vendors Near Schools.**

No person shall sell any product other than written materials or other products protected by the First Amendment of the United States Constitution on any public street, sidewalk, parkway, way, alley, or highway within one thousand five hundred (1,500) feet of the boundaries of any public or private elementary or secondary school between the hours of 6:30 a.m. and 5:30 p.m. on any day when such school is in session. ***This Section does not apply to sidewalk vendors as defined in CMC 31001, which are subject to regulation in accordance with CMC Article III, Chapter 10.***"

SECTION 6. Section 4118.1 (Peddling from Vehicles in Parks) of Chapter 1 (Prohibited Conduct – Offenses) of Article IV (Public Peace) of the Carson Municipal Code is hereby amended to read in its entirety as follows (added text shown in ***bold italics***):

"**4118.1 Peddling from Vehicles in Parks.**

No person shall peddle, hawk, sell or vend any food product or service from a vehicle within any City park at any time, unless it is in conjunction with a City event or City-associated event and that person and/or business has been specifically licensed and permitted by the City to do so. ***This Section does not apply to sidewalk vendors as defined in CMC 31001, which are subject to regulation in accordance with CMC Article III, Chapter 10.***"

SECTION 7. Section 4118.2 (Selling Ice Cream and Certain Food Products from Vehicles in Public Streets) of Chapter 1 (Prohibited Conduct – Offenses) of Article IV (Public Peace) of the Carson Municipal Code is hereby amended to read in its entirety as follows (added text shown in ***bold italics***):

"**4118.2 Selling Ice Cream and Certain Food Products from Vehicles in Public Streets.**

No person shall peddle, hawk, sell, vend or offer for sale ice cream; ice cream bars, cones or rolls; sherbet; sherbet bars, cones or rolls; iced fruit juice (natural or artificial) bars, cones or rolls; the food product commonly known as "cotton candy" or other spun sugar type confections; candy; carbonated drinks; or other similar food substances, products or beverages packaged or otherwise prepared or designed for an individual person's consumption from a vehicle stopped or parked on any

public street, way or alley within a residential zone or a park within the City of Carson, unless it is in conjunction with a City event or City-associated event and that person and/or business has been specifically licensed and permitted by the City to do so. This Section does not prohibit street vending of other products from vehicles in residential districts. ***This Section does not apply to sidewalk vendors as defined in CMC 31001, which are subject to regulation in accordance with CMC Article III, Chapter 10.***"

SECTION 8. Section 4118.4 (Vending of Merchandise on Public Property, Stadiums, Athletic Fields, Community Centers or Abandoned Property – Exclusions) of Chapter 1 (Prohibited Conduct – Offenses) of Article IV (Public Peace) of the Carson Municipal Code is hereby amended to read in its entirety as follows (added text shown in ***bold italics***):

"**4118.4 Vending of Merchandise on Public Property, Stadiums, Athletic Fields, Community Centers or Abandoned Property – Exclusions.**

The provisions of CMC 4118.3 shall not apply to:

(1) Any person delivering any goods where such goods have been ordered in advance for such delivery from any business located at a permanent location and which goods are being delivered from such location to the customer regardless of the point of sale thereof; ~~or~~

(2) Any charitable or religious solicitation which meets all requirements of CMC 6339; or

(3) Any person selling or offering to sell any merchandise upon public property if such sale is pursuant to agreement with the City or the prior written consent of the City has otherwise first been obtained;

(4) Any person selling or offering to sell any agricultural items upon public property if such sale is within a designated Certified Farmers' Market pursuant to an agreement with the City or the prior written consent of the City has otherwise first been obtained~~.~~***; or***

(5) Sidewalk vendors as defined in CMC 31001, which are subject to regulation in accordance with CMC Article III, Chapter 10."

SECTION 9. Subdivision (E) of Section 63142 (Mobile Food Vendors) of Chapter 3 (Business, Professions, and Trades) of Article VI (Taxes and Licenses), of the Carson Municipal Code is hereby amended to read in its entirety as follows (deleted text shown in ~~strikethrough~~, added text shown in ***bold italics***):

"(E) Compliance with State and Local Laws.

1. Mobile food vendors shall comply with all applicable State and local laws.

2. This Section is not intended to ***apply to or*** be enforced against ***sidewalk vendors as defined in CMC 31001, which are subject to regulation in accordance with CMC Article III, Chapter 10*** ~~pedestrian food vendors or against food vendors who operate human-powered push carts and other self-propelled vehicles on private property~~. ~~Pursuant to CMC 4126, pedestrian food vendors or any vendors who operate human-powered push carts and other self-propelled vehicles are not allowed in or on any public street, sidewalk, or park in the City of Carson~~."

SECTION 10. If any section, subsection, sentence, clause, phrase, or portion of this Ordinance, or the application thereof to any person or circumstances, is, for any reason, held invalid or unconstitutional by any court of competent jurisdiction, such invalidity or unconstitutionality shall not affect any other provision or application, and to this end the provisions of this Ordinance are declared to be severable. The City Council hereby declares that it would have adopted this Ordinance and each section, subsection, sentence, clause, phrase, part or portion thereof, irrespective of the fact that any one or more sections, subsections, sentences, clauses, phrases, parts or portions thereof be declared invalid or unconstitutional.

SECTION 11. This Ordinance shall be in full force and effect thirty (30) days after its adoption.

SECTION 12. The City Clerk shall certify to the adoption of this Ordinance, and shall cause the same to be published and codified in the manner required by law.

[signatures on the following page]

PASSED, APPROVED and **ADOPTED** at a regular meeting of the City Council on this _____ day of _____, 2026.

_____
Lula Davis-Holmes, Mayor

ATTEST:

_____
Khaleah K. Bradshaw, City Clerk

APPROVED AS TO FORM:

_____
Sunny K. Soltani, City Attorney

Report to Honorable Mayor and City Council

Tuesday, March 17, 2026, 5:00 PM

DISCUSSION 29.

To: Honorable Mayor and City Council

From: William Jefferson, Director of Finance FIN Business License Revenue

Subject: CONSIDER A REPORT OF ALL NEW BUSINESS LICENSES ISSUED BY THE CITY OF CARSON FOR THE PERIOD FEBRUARY 1, 2026, THROUGH FEBRUARY 28, 2026 (CITY COUNCIL)

I. SUMMARY

The City Manager is presenting to the City Council a list of all new business licenses issued by the City of Carson for the period February 1, 2026 through February 28, 2026.

II. RECOMMENDATION

1. DISCUSS the Report.

III. ALTERNATIVES

TAKE another action as deemed appropriate by the City Council, consistent with the requirements of the law.

IV. BACKGROUND

For the period of February 1, 2026 through February 28, 2026 the City of Carson has issued business licenses on new businesses. The City Manager requests, once per month, present to the City Council a list of all new licensed businesses in the City.

Attached as Exhibit 1 is the City Manager's report of new businesses issued business licenses between February 1, 2026 through February 28, 2026.

V. FISCAL IMPACT

None.

VI. EXHIBITS

1. Business License Report - February 2026

Attachments

Business License Report February 2026.pdf

Business Name	Address	DBA	BL - Business Type	Business License Type
GAD Art and Fabrication Inc	19203 FIGUEROA ST□ Carson, CA 90248		METAL PRODUCTS - 654	BL - GENERAL LICENSE
Mustard Seed Community Church	1123 E DOMINGUEZ ST Unit: K & L□ Carson, CA 90746	Mustard Seed Community Church	TAX EXEMPT, NON-PROFIT - 3900C	BL - GENERAL LICENSE
Local Foundation Solutions Specialists LLC	408 E CLARION DR□ CARSON, CA, 90745		CONTRACTORS/BLDRS - GENERAL - 65.29A	BL - BUSINESS LICENSE
She Glam and Glow Studio	21601 S Avalon Blvd A Unit: 123□ Carson, CA 90745	Phoenix Salon Suites	BEAUTICIAN - 071	BL - BUSINESS LICENSE
V&S Motors Inc	17813 MAIN ST Unit: 123□ Carson, CA 90248		AUTO REPAIR - 056	BL - GENERAL LICENSE
Supreme Dumping Material Inc	1633 E DIMONDALE DR□ Carson, CA 90746		WHEELED VEHICLES 0-4 - 6568A	BL - BUSINESS LICENSE
Ky Dental Professional Corporation	302 E CARSON ST Unit: 100□ Carson, CA 90745	Tooth Fairy Dental	DENTISTS - 135	BL - GENERAL LICENSE
Body Balance Holistics Prof. Acupuncture Corp	23517 MAIN ST Unit: 103□ Carson, CA 90745		MEDICAL SERVICES - 251	BL - GENERAL LICENSE
Miracle Shoe Investments LLC	334 E 220TH ST□ Carson, CA 90745	Miracle Shoe Investments LLC	APT/HOTEL/RENTAL - 65.10	BL - BUSINESS LICENSE
Aarm electric	938 E LINCOLN ST□ CARSON, CA, 90745		CONTRACTORS/BLDRS - SUBCONTRACTOR - 65.29B	BL - BUSINESS LICENSE
Trio Manufacturing Inc	17006 FIGUEROA ST□ Carson, CA 90248	Trio Manufacturing Inc	EQUIPMENT MFG/SALES/SRV/PRTS - 155	BL - GENERAL LICENSE
Voltbros Electric Inc	19327 REINHART AVE□ Carson, CA 90746	The EV Guys	CONTRACTORS/BLDRS - SUBCONTRACTOR - 65.29B	BL - BUSINESS LICENSE
Janerockstar Salon	460 E CARSON PLAZA DR 214□ Carson, CA 90746	Janerockstar Salon	BEAUTY SALON/SUPPLY - 070	BL - GENERAL LICENSE
Personalized Body Blends Company LLC	20620 LEAPWOOD AVE Unit: D□ Carson, CA 90746		MEDICAL FACILITIES - 250	BL - GENERAL LICENSE
Zepco Molding Inc	1695 E DEL AMO BLVD□ Carson, CA 90746		METAL PROCESSING - 653	BL - GENERAL LICENSE
Starled Inc	1677 E DEL AMO BLVD□ Carson, CA 90746		ELECTRICAL EQPT/SUPPLIES - 600	BL - GENERAL LICENSE
Suncraft Roofing LLC	426 W CARSON ST Unit: 8□ Carson, CA 90745		ADMINISTRATIVE OFFICE - 023	BL - GENERAL LICENSE
Bayside General	19232 GRANDEE AVE□ Carson, CA 90746		CONTRACTORS/BLDRS - SUBCONTRACTOR - 65.29B	BL - BUSINESS LICENSE

Report to Honorable Mayor and City Council

DISCUSSION 30.

To: Honorable Mayor and City Council

From: Nathan Freeman, Director of Community and Economic Development CD Planning

Subject: CONSIDER CARSON'S 2025 ANNUAL HOUSING ELEMENT PROGRESS REPORT (CITY COUNCIL)

I. SUMMARY

California state Housing law requires all cities with certified Housing Elements to file an Annual Progress Report (APR) with the California Department of Housing and Community Development (HCD) identifying the status of the plan, the progress in the plan's implementation, and the progress the City has made in meeting its share of the regional housing needs determined by the Southern California Association of Governments' (SCAG) Regional Housing Needs Assessment (RHNA) (Exhibits 1 and 2).

The Housing Element includes a series of implementing programs that are required to be executed after the adoption of the General Plan. The City is required to provide annual updates to HCD regarding its progress in implementing these programs.

II. RECOMMENDATION

TAKE the following actions:

1. REVIEW Carson's 2025 Annual Housing Element Progress Report;
2. DISCUSS the Report; and
3. AUTHORIZE the Director of Community and Economic Development to make any further corrections or adjustments as may be necessary to ensure full compliance and to submit the Report to HCD.

III. ALTERNATIVES

TAKE another action the City Council deems appropriate.

IV. BACKGROUND

On October 18, 2022, the 2021-2029 Housing Element was adopted by the City Council. On November 3, 2022, the adopted Housing Element was submitted for final review and certification by HCD. On November 8, 2022, the 2021-2029 Housing Element was conditionally approved by HCD subject to the City completing the necessary changes to address the shortfall of sites to accommodate the RHNA pursuant to Assembly Bill 1398 (Chapter 358, Statutes of 2021).

On June 25, 2025, the City's 6th Cycle (2021-2029) Housing Element was fully adopted by HCD (Exhibit No. 4).

The 2021-2029 RHNA allocated Carson a housing need of 5,618 units, consisting of 1,770 very-low-income households (0-50% AMI); 913 low-income households (51-80% AMI); 875 moderate-income households (81-120% AMI); and 2,060 above-moderate-income households (120% AMI) which is a significant increase from the prior cycle's allocation of 1,698 new units.

The adopted Housing Element sets out to accomplish the following:

1. Maintain and rehabilitate Carson's existing housing stock.

2. Encourage the development of a variety of housing to meet the needs of the broad spectrum of the community, with a particular emphasis on multifamily housing, and development standards that facilitate housing production.

3. Preserve affordable housing "at risk" of conversion and promote additional affordable housing development.

4. Promote and preserve housing opportunities for persons with special needs, including lower income households, large families, single parent households, disabled persons, the elderly, and persons experiencing homelessness.

5. Provide housing opportunities to all persons regardless of race, religion, ethnicity, ability, sex, age, marital status, household composition, or other arbitrary factors.

6. Conserve natural resources and reduce energy consumption in all areas of residential development.

Housing Element Program Implementation

The adopted Housing Element also contains its goals and policies with the Housing Program implementation outlining seventeen (17) specific actions the City will take to address its housing needs (Exhibit 3).

The APR incorporates Program Implementation to track the City's progress over the RHNA 2021-2029 Cycle.

RHNA Cycle 6 (2021 through 2029) Units Built

2022

- Six (6) building permits were issued in 2022.
- Nineteen (19) certificates of occupancy were issued for accessory dwelling units that were constructed.

2023

- One hundred fifteen (115) building permits were issued (constructed 68 accessory dwelling units, one residence, and 46 homes within the Carson Landing Condominium development).
- Sixty (60) certificates of occupancy were issued (constructed 13 accessory dwelling units and 47 homes within the Carson Landing Condominium development).

2024

- Eighty-six (86) units were issued building permits
- Sixty-nine (69) Certificates of Occupancy were issued
- A total of twenty-one (21) dwelling units were processed administratively (ministerial); and 1,362 dwelling units were processed as discretionary applications.

- Twenty-eight (28) residential housing units and four (4) mobile homes were rehabilitated using the City's Neighborhood Pride Program which is funded by Community Development Block Grant funds.

2025

- Forty-five (45) units were issued building permits
- Thirty-seven (37) Certificates of Occupancy were issued
- A total of seventy-four (74) dwelling units were processed administratively (ministerial), and twenty-six (26) dwelling units were processed as discretionary applications.
- Five (5) residential housing units were rehabilitated using the City's Neighborhood Pride program which is funded by Community Development Block Grant funds.

The Annual Progress Report (APR) Status

The APR identifies the total number of units by income level that SCAG allocated for Carson's 6th Housing Cycle for the period between 2021 and 2029. The total RHNA allocation is 5,618 units.

During the 2022 calendar year, 5,148 was the outstanding units need. The City produced 153 units in 2023, 69 units in 2024 and 37 units during this Cycle. Subsequently, a total of 4,889 outstanding units needs to be produced during the rest of the Cycle.

The State provided 2025 Regional Housing Needs Allocation Annual Element Progress Report (Exhibit No. 1) is not showing the correct housing data from Calendar year 2021 resulting in an inaccurate number of remaining RHNA housing units (5,379) in the Summary. HCD has confirmed they are working on resolving this matter.

Diverse Housing Relevance

It is imperative that the City continue to implement the Housing Element by encouraging and maintaining diverse and affordable housing because noncompliance with the HCD-required affordable housing allocations could result in the loss of the State housing funds.

V. FISCAL IMPACT

None.

VI. EXHIBITS

1. City of Carson - 2025 Regional Housing Needs Allocation Annual Element Progress Report
2. City of Carson - 2025 Housing Element Annual Progress Report Summary
3. Housing Element APR Housing Implementation Programs
4. Housing and Community Development Department letter dated June 25, 2025

Attachments

Exhibit 1 - City of Carson - 2025 Regional Housing Needs Allocation Annual Element Progress Report.pdf
Exhibit 2 - City of Carson - 2025 Housing Element Annual Progress Report Summary.pdf
Exhibit 3 - Housing Element APR Housing Implementation Programs.pdf
Exhibit 4 City of Carson 6th Cycle (2021-2029) Adopted Housing Element and Rezone.pdf

Jurisdiction	Carson	
Reporting Year	2025	(Jan. 1 - Dec. 31)
Planning Period	6th Cycle	10/15/2021 - 10/15/2029

ANNUAL ELEMENT PROGRESS REPORT
Housing Element Implementation

This table is auto-populated once you enter your jurisdiction name and current year data. Past year information comes from previous APRs.

Please contact HCD if your data is different than the material supplied here

Table B
Regional Housing Needs Allocation Progress
Permitted Units Issued by Affordability

		1	Projection Period	2									3	4
Income Level		**RHNA Allocation by Income Level**	**Projection Period - 06/30/2021-10/14/2021**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**Total Units to Date (all years)**	**Total Remaining RHNA by Income Level**
Acutely Low	Deed Restricted		-	-	-	-	-	-	-	-	-	-	-	
	Non-Deed Restricted		-	-	-	-	-	-	-	-	-	-		
Extremely Low	Deed Restricted		-	-	-	-	-	-	-	-	-	-	-	
	Non-Deed Restricted		-	-	-	-	-	-	-	-	-	-		
Very Low	Deed Restricted	1,770	-	-	-	-	-	-	-	-	-	-	-	1,770
	Non-Deed Restricted		-	-	-	-	-	-	-	-	-	-		
Low	Deed Restricted	913	-	-	-	-	-	-	-	-	-	-	-	913
	Non-Deed Restricted		-	-	-	-	-	-	-	-	-	-		
Moderate	Deed Restricted	875	-	-	-	-	-	-	-	-	-	-	-	875
	Non-Deed Restricted		-	-	-	-	-	-	-	-	-	-		
Above Moderate		2,060	11	21	6	115	86	45	-	-	-	-	284	1,776
Total RHNA		5,618												
Total Units			11	21	6	115	86	45	-	-	-	-	284	5,334

*For years prior to 2025, Acutely Low-Income units are reported within the Extremely Low-Income category

*For jurisdictions that received RHNA determinations for the current cycle prior to the passage of AB 3093 (September 19, 2024):
- You were not allocated Acutely Low-Income and Extremely Low-Income RHNA targets, therefore the allocations in Field 1 are listed as "0"
  - If you wish to set your own targets in these income categories for informational purposes, contact HCD staff at apr@hcd.ca.gov.
- All Acutely Low-Income and Extremely Low-Income units reported during the cycle are counted towards Very-Low Income RHNA progress

*For years prior to 2025, data on deed-restricted vs. non-deed restricted Extremely Low-Income units is approximated from whether the projects reported any deed-restricted Very Low-Income Units. If you wish to edit this historical data for accuracy or have any questions about the data, you may login to HCD's online APR system, or contact HCD staff at apr@hcd.ca.gov.

Please Note: Table B does not currently contain data from Table F or Table F2 for prior years. You may login to the APR system to see Table B that contains this data.

Please note: The APR form can only display data for one planning period. To view progress for a different planning period, you may login to HCD's online APR system, or contact HCD staff at apr@hcd.ca.gov.

Jurisdiction	Carson	
Reporting Year	2025	(Jan. 1 - Dec. 31)
Housing Element Planning Period	6th Cycle	10/15/2021 - 10/15/2029

Building Permits Issued by Affordability Summary		
Income Level		**Current Year**
Acutely Low	Deed Restricted	0
	Non-Deed Restricted	0
Extremely Low	Deed Restricted	0
	Non-Deed Restricted	0
Very Low	Deed Restricted	0
	Non-Deed Restricted	0
Low	Deed Restricted	0
	Non-Deed Restricted	0
Moderate	Deed Restricted	0
	Non-Deed Restricted	0
Above Moderate		45
Total Units		**45**

Units by Structure Type	**Entitled**	**Permitted**	**Completed**
Single-family Attached	0	0	0
Single-family Detached	0	2	22
2 to 4 units per structure	0	0	0
5+ units per structure	0	2	0
Accessory Dwelling Unit	0	40	15
Mobile/Manufactured Home	0	0	0
Total	**0**	**44**	**37**

Infill Housing Developments and Infill Units Permitted	**# of Projects**	**Units**
Indicated as Infill	45	44
Not Indicated as Infill	0	0

Housing Applications Summary	
Total Housing Applications Submitted:	75
Number of Proposed Units in All Applications Received:	100
Total Housing Units Approved:	100
Total Housing Units Disapproved:	0

Use of SB 423 Streamlining Provisions - Applications	
Number of SB 423 Streamlining Applications	0
Number of SB 423 Streamlining Applications Approved	0

Units Constructed - SB 423 Streamlining Permits			
Income	Rental	Ownership	Total
Acutely Low	0	0	0
Extremely Low	0	0	0
Very Low	0	0	0
Low	0	0	0
Moderate	0	0	0
Above Moderate	0	0	0
Total	**0**	**0**	**0**

Streamlining Provisions Used - Permitted Units	# of Projects	Units
SB 9 (2021) - Duplex in SF Zone	0	0
SB 9 (2021) - Residential Lot Split	0	0
AB 2011 (2022)	0	0
SB 6 (2022)	0	0
SB 423 (2023)	0	0

Ministerial and Discretionary Applications	# of	Units
Ministerial	74	74
Discretionary	1	26

Density Bonus Applications and Units Permitted	
Number of Applications Submitted Requesting a Density Bonus	0
Number of Units in Applications Submitted Requesting a Density Bonus	0
Number of Projects Permitted with a Density Bonus	0
Number of Units in Projects Permitted with a Density Bonus	0

Housing Element Programs Implemented and Sites Rezoned	Count
Programs Implemented	0
Sites Rezoned to Accommodate the RHNA	0

ANNUAL ELEMENT PROGRESS REPORT
Housing Element Implementation

Jurisdiction	Carson	
Reporting Year	2025	(Jan. 1 - Dec. 31)

Table D

Program Implementation Status pursuant to GC Section 65583

Housing Programs Progress Report

Describe progress of all programs including local efforts to remove governmental constraints to the maintenance, improvement, and development of housing as identified in the housing element.

1	2	3	4	5	6	7	8	9
Name of Program	**Objective**	**Projected Completion Date in Housing Element**	**Applicable Cycle**	**Status of Program Implementation**	**Program Implementation Details**	**Quantified Outcomes: Category**	**Quantified Outcomes: Count**	**Supporting Documents**
Program 1. Residential Rehab (Neighborhood Pride Program, CDBG Funds)	**Provide financial assistance via loans & grants to provide basic housing repairs and remedy code violations. Assist a minimum of 25 single-family units and mobile home units (200 housing units over the 8-year planning period)**	1/1/2029	6th Cycle	In Progress	City deemed eligible 36 residential properties for program year 2025. Of the 36 properties, 24 were facilitated and funded via the CDBG Funds (9 were mobile homes and 15 were single family homes). The total amount of funds expended was $640,021 dollars. 89% of the homeowners were over the age of 55. 74% of projects serviced were low income households and 25% were moderate.	Households	24	None

Program 2. Home Owner-Occupied Rehab Program (deferred payment loans)	**Continue seeking HOME funding as available and rehabilitate low- and very-low-income households during the planning period**	1/1/2029	6th Cycle	Continuous	City did not apply for HOME funding to rehabilitate of single-family dwellings for low and very low-income households. City will consider applying for HOME in the future if resources are available. City did fund through PLHA (Permanent Local Housing Allocation) 6 single family residences at 120% AMI.	Units	6	None
Program 3. Foreclosure Registration Program	**Register foreclosed residential properties as necessary and collect registration fees from financial institutions and beneficiaries**	1/1/2029	6th Cycle	In Progress	Ongoing, City will continue to administer the Foreclosure Registration Program to collect registration fees from financial institutions and beneficiaries as of program year 2025 the city collected $42,930 dollars in revenue.	Other	4300	none

Program 4. Affordable Housing Strategy	**Promote accessible affordable housing and reduce affordability gaps in the City by employing a number of approaches: provide City-owned land at reduced cost to affordable housing developers; developer incentives; partner with CSUDH to expand family housing opportunities; and other mechanisms to facilitate new affordable housing development and sustain affordable homeownership opportunities**	1/1/2029	6th Cycle	Continuous	1.□The City has initiated a comprehensive development fee study program that includes inclusionary housing, in-lieu fees, commercial and industrial linkage fees, and more. A Virtual Town Hall was held on July 2025 to kick off this effort. Additional town halls and stakeholder outreach are scheduled for April 2026. Anticipated adoption of these housing ordinances are expected fall of 2026. 2. Previously, City has held discussions with an affordable housing builder who has informed the City both of our sites will not be in a DDA or QCT starting in 2024 which removes a 130% eligible basis boost that the developer was counting on in their underwriting. This remains true today. The City is in discussions with various developers to discuss	Other		none
Program 5. Zoning Ordinance Update	**Help overcome several governmental constraints to development and facilitate housing production**	1/1/2029	6th Cycle	Continuous	City newly adopted a new zoning code that went into effect April 19, 2024, which includes provisions to facilitate housing development including multifamily development standards, condominium standards, parking, objective design standards	Other		none

Program 6. Streamlined Development Standards	**Facilitate the development of housing by implementing streamlined development and review standards. Remove constraints to the development of affordable housing and comply with State law that promotes streamlined development; Mitigate and reduce environmental constraints while facilitating development.**	1/1/2029	6th Cycle	Continuous	The adopted Zoning Code allows completely affordable housing projects to be reviewed through an administrative process. City has streamlined the development review process including Planning and Building and Safety review processes and will continue to work to reduce review and permitting times. Carson Civic Access, the city's new on-line application and permitting portal launched in mid-2024. The Carson Civic Access portal streamlines application review and interdepartmental and interdepartmental coordination.	Other		none

Program 7. Density Bonus	**Foster the development of higher density affordable housing where appropriate. Amended the Planning and Zoning Code to ensure that the Density Bonus Program remains in compliance with State law and incorporates additional density bonuses available through provision of community benefits**	1/1/2029	6th Cycle	Continuous	On June 10th, 2025 Mortion to ratify adoption and execution of Planning Commission Resolution No. 25-2889 with the following corrected title: " A RESOLUTION OF THE CITY OF CARSON MAKE A FINDING OF APPLICABILITY OF CEQA GUIDELINES SECTION 15061(B) (3) DELEGATING APPROVAL AUTHORITY FOR CERTAIN DENSITY BONUS APPLICATIONS TO THE CITY'S COMMUNITY DEVELOPMENT DIRECTOR WITH THE CONCURRENCE OF THE CITY MANAGER"	Units		none
Program 8. Accessory Dwelling Units	**Ensure compliance with State law, with anticipated 17 ADUs annually based on recent development trends (136 ADUs over an eight-year period)**	1/1/2029	6th Cycle	Continuous	The newly adopted Zoning Code includes provisions to ensure compatibility with ADU provisions of state law	Units	40	none

Program 9. Adequate Residential Sites and no Net Loss	**Provide and maintain adequate sites to accommodate the City's RHNA and affordable housing goals**	1/1/2029	6th Cycle	Continuous	The newly adopted Zoning Code includes provisions to ensure adequate residential sites are aviaible to meet City's RHNA obligations. City has prepared a draft policy to maintain and monitor the Housing Sites Inventory. The Policy will implement a formal ongoing (project-by-project) evaluation procedure pursuant to the "No Net Loss" provisions set forth in Government Code Section 65863. Should the approval of a development result in a reduction of capacity or assumed affordability below the residential capacity needed to meet City's RHNA obligations or otherwise identify and zone sufficient sites to accommodate any shortfall.	Units		none
Program 10. Preservation of at-risk Affordable housing units	**Preserve the 673 Carson Housing Authority-assisted affordable units and encourage the 130 HUD-assisted affordable units to extend their contracts; Ensure no net loss of units; Enforce residential replacement provisions pursuant to State law**	1/1/2029	6th Cycle	Continuous	The Housing Authority governing body considered and approved the Carson Housing Authority's SB 341 Annual Report on January 6, 2026 to comply with this Program and preserve Housing Authority assisted affordable units. Additionally, a separate Housing Authority Annual Report prepared pursuant to HSC 34328 was sent to HCD October 2025.	Households		none

Program 11. Mobil Home Park Maintenance and Preservation	**Preserve affordable housing stock to the maximum extent possible with the maintenance and preservation of mobile home units. Enact programs that encourage the preservation of the parks or ensure financial assistance to residents to reduce any adverse impacts that result from such a closure. This program is divided into four approaches.**	1/1/2029	6th Cycle	Continuous	The City through the Neighborhood Pride Program will continue to provide rehabilitation grants and loans. The City through the implementation of the Rent Control CPI Ordnance will continue to protect the affordability of mobile home units. The newly adopted Zoning Code includes the Mobilehome District (MHD) Overlay Zone. The purpose of the MHD is to maintain, preserve, and promote mobilehome parks as an important source of affordable rental housing. The MHD Overlay Zone applies to existing mobile home parks in the City. The newly adopted Zoning Code includes provisions updated the relocation impact report section of the code for mobilehome park closures and brought it into compliance with State law as amended by AB	Households		none
Program 12. Rental Assistance	**Provide assistance to at least 100 households annually; Encourage the retention of at least 272 Section 8 vouchers; Provide CARES Act emergency funds as available.**	1/1/2029	6th Cycle	Not Yet Started	City does not currently administer Section 8 Housing in Carson which is the responsibility of Los Angeles County but the city is looking to implement a program within the second or third quarter of 2026.	Households		none

Program 13. Special Needs Housing	**Remove potential constraints tied to the CUP requirement for community care facilities of seven • Facilitate the development of housing for persons with disabilities, including developmental disabilities. • Educate residents about the reasonable accommodation ordinance and Residential Rehabilitation Program.Facilitate the development of housing for extremely-low-income households and persons experiencing homelessness.**	1/1/2029	6th Cycle	Continuous	The newly adopted Zoning Code allows residential care facilities as a by-right use in all residential zoning districts. The newly adopted zoning code includes the following subcategories: General Residential Care, Limited Residential Care, Senior residential Care uses, General Hospice, Limited Hospice, and Congregate Living health Facilities. The newly adopted zoning code includes Emergency Shelter as a permitted use by right in all mixed use zones. The newly adopted zoning code treats Transitional and Supportive Housing as residential uses in all residential and mixed use zones subject to only to those restrictions that apply to other residential uses. The newly adopted zoning code permits Low Barrier Navigation Centers by right in all mixed-use and non-residential zones permitting	Other		none
Program 14. Affirmatively Furthering Fair Housing	**Affirmatively further fair housing in Carson by removing or reducing constraints on the development of housing appropriate for protected groups, promoting fair housing choice, and providing fair housing services**	1/1/2029	6th Cycle	Continuous	As stated above, the newly adopted zoning code includes provisions to reduce constraints on the development of housing for protected groups. City funds the Housing Rights Center through the CDBG program to ensure promotion of fair housing and fair housing services.	Other		none

Program 15. Energy Conservation	**Facilitate energy conservation in housing development**	1/1/2029	6th Cycle	Continuous	Planning and Building and Safety facilitate energy conservation in housing developments through enforcement of Title 24.	Other		none
Program 16. Commercial to Residential Conversions	**Facilitate the conversion of commercial and non-vacant use to residential use**	1/1/2029	6th Cycle	Continuous	The newly adopted zoning code includes provisions in mixed use districts to permit multi-unit residential projects as a by right use to facilitate the conversion of commercial areas to residential use. The City rezoned nearly all its commercial areas to mixed use districts to further this goal.	Units		none
Program 17. Neighborhood Improvements	**• Continue to prioritize the City's annual budget, Capital Improvement Plan (CIP), CDBG funds, and Housing Set-Aside (Carson Housing Authority) funds according to areas of high need and ensure equitable distribution of funds, especially in lower income and/or lower resource areas; • Focus neighborhood improvement projects in lower-income areas to support new construction of housing units, enhancing mobility and connectivity to higher resource and/or higher income areas, access to services and amenities, safe routes to school, etc. Examples of this include working with other agencies to create a pedestrian/bike linkage along the Dominguez Channel that will link several lower-resourced**	1/1/2029	6th Cycle	Continuous	City's Engineering Division has an aggressive schedule to repave residential streets in lower income and/or lower resource areas. They have recently paved residential streets bounded by Wilmington, Dominguez St, and the Dominguez channel, a low resource area. Traffic Engineer conducted public outreach for the future Active Transportation Plan.	Other		none

STATE OF CALIFORNIA - BUSINESS, CONSUMER SERVICES AND HOUSING AGENCY GAVIN NEWSOM, *Governor*

DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF HOUSING POLICY DEVELOPMENT
651 Bannon Street, Suite 400
Sacramento, CA 95811
(916) 263-2911 / FAX (916) 263-7453
www.hcd.ca.gov

June 25, 2025

David C. Roberts, Jr., City Manager
City of Carson
701 East Carson Street
Carson, CA 90745

Dear David C. Roberts, Jr.:

RE: City of Carson's 6th Cycle (2021-2029) Adopted Housing Element and Rezone

Thank you for submitting the City of Carson's (City) Ordinances 24-2405 and 25-2510 (Ordinances). Pursuant to Government Code section 65585, the California Department of Housing and Community Development (HCD) is reporting the results of its review.

On November 7, 2022, HCD found the adopted housing element met the statutory requirements of State Housing Element Law (Gov. Code, § 65580 et seq). However, the housing element could not be found in substantial compliance until the City has adopted and completed necessary rezones to accommodate the regional housing needs allocation (RHNA) and comply with various statutory requirements. On April 7, 2025, HCD found the Ordinances met statutory requirements pursuant to Government Code sections 65583, subdivision (c)(1) and 65583.2, subdivisions (h) and (i). HCD also found the element will be in substantial compliance once the Ordinances are adopted and reviewed by HCD pursuant to Government Code section 65585. The City adopted the Ordinances and HCD is pleased to find the City has completed actions to address the requirements that were described in HCD's November 7, 2022 review. As a result, the adopted element substantially complies with State Housing Element Law as of the date of this letter.

As a reminder, the City must continue timely and effective implementation of all programs including but not limited to the following:

- Program 1 (Residential Rehabilitation Grant Program)
- Program 4 (Affordable Housing Strategy) David Roberts
- Program 5 (Zoning Ordinance Update)
- Program 8 (Accessory Dwelling Units)
- Program 9 (Adequate Sites and No Net Loss)
- Program 11 (Mobile Home Park Maintenance and Preservation)
- Program 13 (Special Needs Housing)

- Program 14 (Affirmatively Furthering Fair Housing)
- Program 15 (Increasing Housing Opportunity in Low Density Districts)
- Program 17 (Neighborhood Market and Grocery Stores)

The City must monitor and report on the results of these and other programs through the annual progress report, required pursuant to Government Code section 65400. Please be aware, Government Code section 65585, subdivision (i) grants HCD authority to review any action or failure to act by a local government that it determines is inconsistent with an adopted housing element or housing element law. This includes failure to implement program actions included in the housing element. HCD may revoke housing element compliance if the local government's actions do not comply with state law.

Several federal, state, and regional funding programs consider housing element compliance as an eligibility or ranking criteria. For example, the CalTrans Senate Bill (SB) 1 Sustainable Communities grant; the Strategic Growth Council and HCD's Affordable Housing and Sustainable Communities programs; and HCD's Permanent Local Housing Allocation consider housing element compliance and/or annual reporting requirements pursuant to Government Code section 65400. With a compliant housing element, the City now meets housing element requirements for these and other funding sources.

For your information, some general plan element updates are triggered by housing element adoption. HCD reminds the City to consider timing provisions and welcomes the opportunity to provide assistance. For information, please see the Technical Advisories issued by the Governor's Office of Land Use and Climate Innovation at: https://www.lci.ca.gov/planning/general-plan/guidelines.html.

HCD appreciates the dedication and effort the City's housing element team provided throughout the housing element update and review. HCD wishes the City success in implementing its housing element and looks forward to following its progress through the General Plan annual progress reports pursuant to Government Code section 65400. If you have any questions or need additional technical assistance, please contact Jamillah Williams, of our staff, at Jamillah.Williams@hcd.ca.gov.

Sincerely,

Paul McDougall
Senior Program Manager

File #: **Version:**

Report to Honorable Mayor and City Council

Tuesday, March 17, 2026, 5:00 PM

DISCUSSION 31.

To: Honorable Mayor and City Council

From: Dr. Khaleah K. Bradshaw, City Clerk CCO Administration

Subject: CONSIDERATION OF ONLY LOCAL UNCONTESTED APPOINTMENTS TO THE CITY'S COMMISSIONS, COMMITTEES, AND BOARDS, AND CITY AFFILIATED ORGANIZATIONS BY MAYOR AND CITY COUNCIL AND CONSIDER ALL (CONTESTED AND UNCONTESTED) APPOINTMENTS TO ALL COMMISSIONS (CITY COUNCIL)

I. SUMMARY

This item is on the agenda to consider only uncontested appointments of City Commission, Committee, and Board members in accordance with the City Charter, Article VI, by Mayor and City Council.

Also, consider all (contested and uncontested) appointments to all commissions and also consider appointments to City Affiliated Organizations.

Pursuant to Section 602 of the City Charter provides, in part, the mayor and each member of the city council may appoint one member to a position on each City board or City commission, and the remaining membership positions shall be appointed by the mayor and approved by a majority of the city council, including the three alternates.

At the March 3, 2026, City Council meeting, Mayor Lula Davis-Holmes continued this item to a future meeting.

II. RECOMMENDATION

TAKE the following actions:

1. CONSIDER and only APPOINT uncontested members to the City Commissions, Committees, and Boards;
2. CONSIDER and APPOINT all (contested and uncontested) members to all commissions except Planning Commission and Environmental Commission;
3. CONSIDER and APPOINT members to City Affiliated Organizations;
4. DIRECT the City Clerk to notify all affected appointments of this action in writing;
5. IF APPLICABLE, DIRECT the City Clerk to post and publish in accordance with the Maddy Act

III. ALTERNATIVES

N/A

IV. BACKGROUND

Every two years after the municipal election, most Commission and Board appointments expire. As unscheduled vacancies occur and/or members are frequently absent, it is best practice to consider new appointments.

Invitations to submit an appointment application for all interested person(s) were posted in accordance with the Maddy Act. Applications for individuals requesting appointments were previously provided under separate cover to the Mayor and City Council.

V. FISCAL IMPACT

Funds for member stipends are already budgeted for Fiscal Year 2025-2026.

VI. EXHIBITS

None

Attachments

Exhibit 1 - March 17, 2026, Agenda Report.pdf

CITY OF CARSON
LOCAL APPOINTMENTS LIST FOR
COMMISSIONS, COMMITTEES, AND BOARDS
(Pursuant to Government Code Section 54970 et seq.)

NOTICE IS HEREBY GIVEN that the current terms for the following Commissioners, Committee and Board Members will expire as indicated for the respective bodies listed. Any interested resident of the City of Carson, California is eligible to serve on any of the below-named commissions, committees, or boards unless otherwise specified. Applications are available at the City Clerk's Office by request at (310) 952-1720.

*** The following appointed positions may receive compensation**
**** Mayor's uncontested**
Denotes vacated seat

I. COMMISSIONS

Article VI, §602 of the City Charter: To be qualified for appointment, the member shall be a qualified elector of the City, shall be domiciled in the City for at least sixty (60) days immediately preceding their appointment, and shall continue to reside in the City for the duration of his or her tenure, unless otherwise provided by ordinance.

The mayor and each member of the city council may appoint one member to a position on each City board, committee or commission, and the remaining membership positions shall be appointed by the mayor and approved by a majority of the city council, including the three alternates.

[1] Economic Development Commission

Established by:	Ordinance No. 00-1191. §1 (CMC §27104.1); Ordinance No. 21-2108
Membership:	9 members; 3 alternates
Qualification:	Shall be and remain a resident of, or have a place of employment or business in the City of Carson, and be at least 18 years of age. Shall include representatives of all major sectors of the Carson business community as determined in the sole discretion of the City Council.
Meetings:	1st Thursday, 8:00 a.m., Executive Conference Room
Staff Liaison:	John Raymond, Asst. City Mgr x1773;
Support Staff:	Sandy Solis, Division Secretary x1325

		Appointed	Term Expires
Aldridge Jr., Ray (LDH)**		12-06-22	11-30-26
Childers, Christopher (CH)		12-06-22	11-30-26
Embry, Darren (LDH)		04-04-23	11-30-26
Kelley, Blake (LDH)		04-04-23	11-30-26
Jimenez, Trini (AR)		12-06-22	11-30-26
Luevano, Jose (JH)		06-17-25	11-30-26
Sparrow, Clyde (LDH)		04-04-23	11-30-26
Wallace, Deborah (LDH)		04-04-23	11-30-26
Baddeley, Kevin (JD)		06-17-25	11-30-26
Cordova, Ted (LDH)	Alt. 1	04-04-23	11-30-26
Ibarra, Victor (LDH)	Alt. 2	02-06-24	11-30-26
Vacant (LDH)	Alt. 3		11-30-26

[2] Environmental Commission*

Established by:	Ordinance No. 70-128; §1 (CMC §2750); Ordinance No. 21-2103
Membership:	9 members; 3 alternates
Qualification:	Shall be and remain a resident of the City of Carson and be at least eighteen (18) years of age at the time of the member's appointment
Meetings:	1st Wednesday, 6:30 p.m. (Executive Conference Room)
Staff Liaison:	Reata Kulcsar, Innovation & Sustainability Officer x1312
Support Staff:	Jessica Coria, Division Secretary x1823; Evelyne Carmona, Senior Administrative Analyst x1636; Kristin Smith, Council Aide x1743

		Appointed	Term Expires
Vacant (JH)			11-30-26
Swayzer, Ezekiel (LDH)		12-03-24	11-30-26
Hopson, Lillian (LDH)**		12-03-24	11-30-26
Ford, Brittney (LDH)		05-21-25	11-30-26
Koons, William (JD)		12-03-24	11-30-26
Peralta, Maribel (AR)		01-07-25	11-30-26
Hunt, Joseph (LDH)		05-21-25	11-30-26
Taylor, Hourie (CH)		12-06-22	11-30-26
Watkins, Freeman (LDH)		12-03-24	11-30-26
Vacant (LDH)	Alt. 1		11-30-26
Vacant (LDH)	Alt. 2		11-30-26
Vacant (LDH)	Alt. 3		11-30-26

[3] Human Relations Commission*

Established by:	Ordinance No. 74-294; Ordinance No. 87-812, §1; Ordinance No. 89-883,§1
Membership:	11 members (7 general, 2 youth, 2 w/ a focus on disability-related matters); 3 alternates
Qualification:	Shall be a resident of the City of Carson. Youth members shall be 16-21 years of age, enrolled in school at time of appointment, maintain a 2.0 GPA, shall have interest in human relations.
Meetings:	3rd Wednesday, 6:30 p.m., City Manager Conference Room
Staff Liaison:	Cac Le, Council Aide x1722
Support Staff:	

		Appointed	Term Expires
Junio, Teresita (LDH)		12-03-24	11-30-26
Calhoun, Jill (AR)		12-06-22	11-30-26
Davenport, Kimberley (JH)		04-04-23	11-30-26
Fuentes, Sonia (JD)		12-02-25	11-30-26
Ramos, Jessica (LDH)		12-03-24	11-30-26
Reed, Cassandra (CH)		12-06-22	11-30-26
Russ, Harriett (LDH)**		12-03-24	11-30-26
Ifeacho, Dr. Chinyere (LDH)	Alt. 1	12-03-24	11-30-26
Viernes, Irene (LDH)	Alt. 2	12-03-24	11-30-26
Vacany (LDH)	Alt. 3		11-30-26
Thompson, Audra (LDH)	Disability Advocate Member	10-21-25	11-30-26
Padua, Luz	Disability Advocate Member	10-21-25	11-30-26
Paxton, Cameron (LDH)	Youth	02-18-25	06-30-26
Vacant (LDH)	Youth		06-30-26

[4] Parks, Recreation and Cultural Arts Commission*

Established by:	Ordinance No. 69-65 (CMC §2735); Ordinance No. 21-2106
Membership:	9 members; 3 alternates
Qualification:	Resident of the City of Carson
Meetings:	Last Thursday, 6:30 p.m. (Executive Conference Room)
Staff Liaison:	Michael Whittiker Jr., Director of Community Services x3571
Support Staff:	Kimberly Madrigal, Administrative Secretary x3581

		Appointed	Term Expires
Cainglet, Jesus-Alex (CH)		12-06-22	11-30-26
Cortado, Kimberly (JH)		06-20-23	11-30-26
Dahilig Jr., Cesar (LDH)		12-03-24	11-30-26
Lawrence, Shannon (LDH)		12-03-24	11-30-26
Gonzalez, Walter (LDH)		12-03-24	11-30-26
Hilliard, Kisa (JD)		12-03-24	11-30-26
Hunter, Edwina (AR)		12-06-22	11-30-26
Langston, DeAnthony (LDH)		12-03-24	11-30-26
Johnson, Jo Jacqueline (LDH)**		04-01-25	11-30-26
Brown Sr., Kelvin (LDH)	Alt. 1	12-03-24	11-30-26
Vacant (LDH)	Alt. 2		11-30-26
Brillantes, Rudolfo (LDH)	Alt. 3	12-03-24	11-30-26

[5] Planning Commission*

Established by:	Ordinance No. 13, §1 (CMC §2700); § 606 of the City Charter
Membership:	9 members; 3 alternates
Qualification:	Resident of the City of Carson
Monthly Meeting:	2nd and 4th Tuesday, 6:30 p.m. (City Council Chambers)
Staff Liaison:	Christopher Palmer, Economic Development Mgr. x1365
Support Staff:	McKina Alexander, Planning Mgr x1326; Laura Gonzalez, Planning Secretary x1328

		Appointed	Term Expires
Diaz, Louie (JD)		12-03-24	11-30-26
Docdocil, Frederick (LDH)**		12-03-24	11-30-26
Guerra, Carlos (LDH)		12-03-24	11-30-26
Vacant (AR)			11-30-26
Huff, Del (LDH)		12-03-24	11-30-26
Wilson, Leticia (LDH)		12-03-24	11-30-26
Mfume, DeQuita (LDH)		12-03-24	11-30-26
Johnson, Clarence (JH)		03-19-24	11-30-26
Thomas, Dianne (CH)		12-06-22	11-30-26
Montecarlo, Jaime (LDH)	Alt. 1	12-03-24	11-30-26
Vacant (LDH)	Alt. 2		11-30-26
Vacant (LDH)	Alt. 3		11-30-26

[6] Public Relations Commission*

Established by:	Ordinance No. 01-1239, §2 (CMC §27105.1)
Membership:	9 members; 3 alternates
Qualification:	Shall reside or be employed in the City of Carson and be at least eighteen (18) years of age at the time of the member's appointment.
Meetings:	4th Tuesday, 12:00 p.m. (City Manager Conference Room)
Staff Liaison:	Danielle Hasley, Public Information Analyst x1606
Support Staff:	Christine Foisia, Senior Clerk x1740

		Appointed	Term Expires
Eatman, Sonya (LDH)	Community Representative	12-03-24	11-30-26
Waddis, Dorcas (LDH)*	Community Representative	06-17-25	11-30-26
Stewart, Linda (LDH)	Community Representative	12-03-24	11-30-26
Sandoz, Jeretta (AR)	Community Representative	12-03-24	11-30-26
Ross, Dorothy (JD)	Public Relations Specialist	12-03-24	11-30-26
Nunley, Madalyn (LDH)	Public Relations Specialist	12-03-24	11-30-26
Pitcher, Pamela (LDH)	Public Relations Specialist	12-03-24	11-30-26
Smith, Byron (CH)	Public Relations Specialist	03-06-24	11-30-26
Price, Dr. Denice (JH)	Public Relations Specialist	04-04-23	11-30-26
Washington, Deborah (LDH)	Alt. 1	06-17-25	11-30-26
Smith, Shirley (LDH)	Alt. 2	03-03-26	11-30-26
Page, Brent (LDH)	Alt. 3	02-18-25	11-30-26

[7] Public Safety Commission*

Established by:	Ordinance No. 99-1160 § 1; Ordinance No. 01-1239 § 1 (CMC §27103.6); Ordinance No. 21-2104
Membership:	9 members; 3 alternates
Qualification:	Shall be a resident of the City of Carson and be at least eighteen (18) years of age at the time of the member's appointment.
Meetings:	3rd Thursday, 6:30 p.m. (Executive Conference Room)
Staff Liaison:	Priscilla Palma, Division Secretary x1787
Support Staff:	Vacant

		Appointed	Term Expires
Allen, Jeffrey (LDH)		12-03-24	11-30-26
Arnold, Keith (LDH)		12-03-24	11-30-26
Flinton, Lawrence (AR)		08-06-24	11-30-26
Dacus, Samuel (LDH)		12-03-24	11-30-26
Dorsey, Donnie (CH)		12-06-22	11-30-26
Lewis, Prentiss (JH)		04-04-23	11-30-26
Rivers, Angela (LDH)		12-03-24	11-30-26
Romero, Heidi (LDH)**		12-03-24	11-30-26
Cogut, Louis (JD)		12-03-24	11-30-26
Wilson, Michael (LDH)	Alt. 1	12-03-24	11-30-26
Brown, Randy (LDH)	Alt. 2	12-03-24	11-30-26
Fields, Brandon (LDH)	Alt. 3	06-17-25	11-30-26

[8] Public Works Commission*

Established by:	Ordinance No. 99-1181 § 2 (CMC § 2798.6)
Membership:	9 members; 3 alternates
Qualification:	Have interest, experience or ability in construction, transportation, traffic, or circulation areas to ensure that traffic, vehicle parking, bikeways, and transportation systems and other City facilities are regulated and constructed in a manner calculated to best provide for the safety and welfare of the public. Shall be and remain a resident of, or have a place of employment or business in, the City of Carson, and be at least eighteen (18) years of age at the time of the member's appointment.
Meetings:	2nd Monday, 6:30 p.m. (Executive Conference Room)
Staff Liaison:	Gilbert Marquez, Principle City/Civil Engineer x1813
Support Staff:	Taelour C. James, Division Secretary x1801

		Appointed	Term Expires
Vacant (AR)			11-30-26
Calhoun, James (JD)		01-20-26	11-30-26
Fe'esago, Uli (LDH)		01-20-26	11-30-26
McNichols, Ryan (LDH)		12-03-24	11-30-26
Howard, Kobii (LDH)		01-20-26	11-30-26
Benson, Melvin (CH)		07-18-23	11-30-26
Nweke, Chike (LDH)**		01-20-26	11-30-26
Martin, Jr., Marion (LDH)		12-03-24	11-30-26
Todd Griffin, Kellie (JH)		01-07-25	11-30-26
Obiora, Emmanuel (LDH)	Alt. 1	12-03-24	11-30-26
Hollaway, John (LDH)	Alt. 2	01-20-26	11-30-26
Wilson, Daniel (LDH)	Alt. 3	01-20-26	11-30-26

[9] Senior Citizens Advisory Commission*

Established by:	Ordinance No. 97-1119, § 1 (CMC § 2799.6)
Membership:	11 members; 3 alternates
Qualification:	Resident of the City of Carson and be at least 50 years of age at the time of appointment.
Meetings:	2nd Monday, 4:00 p.m. (Community Center, Carson/Dominguez room)
Staff Liaison:	Mike Whittiker Jr., Dir. of Comm. Srvs. x1780; Dani Cook, Human Srvs. Supv. X04/04/2
Support Staff:	Brenda Reed, Senior Clerk x1775;

		Appointed	Term Expires
Graves, Shirley (LDH)**		12-03-24	11-30-26
Lopez, Delia (LDH)		12-03-24	11-30-26
Leverette, Ernestine (AR)		05-06-25	11-30-26
Dunn, Linda (LDH)		12-03-24	11-30-26
Bates, Billye (LDH)		12-03-24	11-30-26
Patterson, Patricia (LDH)		12-03-24	11-30-26
Ronquillo, Myrna (JD)		12-03-24	11-30-26
Ruiz-Raber, Julie (CH)		12-06-22	11-30-26
Seymore, Dr. Vergie (JH)		04-04-23	11-30-26
Simpson-Lott, Darlene (LDH)		12-03-24	11-30-26
Walker, Itelia (LDH)		12-03-24	11-30-26
Brown, LaRhonda (LDH)	Alt. 1	12-03-24	11-30-26
Vacant (LDH)	Alt. 2		11-30-26
Davis, Pauline (LDH)	Alt. 3	12-03-24	11-30-26

[10] Veterans Affairs Commission*

Established by:	Ordinance No. 99-1154, § 1 (CMC § 27102.6)
Membership:	11 members; 3 alternates
Qualification:	Shall be a resident of the City of Carson and be at least eighteen (18) years of age at the time of the member's appointment.
Meetings:	3rd Monday, 6:00 p.m. (Veterans SportsComplex - Activity Room)
Staff Liaison:	Kisheen Tulloss, Council Aide x1711
Support Staff:	Mikala Multiauaopele, Division Secretary x3557

		Appointed	Term Expires
Batucal, Arthur (JH)		04-04-23	11-30-26
Boyd, Robert (JD)		12-03-24	11-30-26
Branch, Jr., Roger (LDH)		12-03-24	11-30-26
Da Silva, Manuel (LDH)		12-03-24	11-30-26
Raber, Brian (CH)		12-06-22	11-30-26
Salomon, Emmanuel (LDH)		12-03-24	11-30-26
Mosequera, Nemie P. (LDH)**		12-03-24	11-30-26
Woods, Richard (LDH)		12-03-24	11-30-26
Woods, Thomas (LDH)		12-03-24	11-30-26
Seay, Al (LDH)		12-03-24	11-30-26
Wilvert, Karl (AR)		12-06-22	11-30-26
Vacant (LDH)	Alt. 1		11-30-26
Vacant (LDH)	Alt. 2		11-30-26
Vacant (LDH)	Alt. 3		11-30-26

[11] Women's Issues Commission*

Established by:	Ordinance No. 02-1246, § 1 (CMC § 27106.6)
Membership:	9 members; 3 alternates
Qualification:	Shall be a resident of the City of Carson or work in the City of Carson during their tenure on the Commission and shall be at least eighteen (18) years of age at the time of the member's appointment.
Meetings:	4th Monday, 6:00 p.m. (City Manager Conference Room)
Staff Liaison:	Keichun Graves, Council Aide x1799
Support Staff:	Vacant

		Appointed	Term Expires
Vacant (LDH)			11-30-26
Fielder, Yolanda (LDH)		12-03-24	11-30-26
Fields-Robinson, Dr. Leandrea (LDH)**		12-03-24	11-30-26
Foster, Carolyn (LDH)		12-03-24	11-30-26
Finley, Stephanie (JD)		10-21-25	11-30-26
Odom Houze, Susan (JH)		04-04-23	11-30-26
Price, Dr. Greta (AR)		12-06-22	11-30-26
Williams, Maria (CH)		12-03-24	11-30-26
Tresvant, Sheila (LDH)		12-03-24	11-30-26
Johnson, Veronica (LDH) *Pending	Alt. 1	01-20-26	11-30-26
Mackson, Monique (LDH)	Alt. 2	12-03-24	11-30-26
Vacant (LDH)	Alt. 3		11-30-26

[12] Youth Commission*

Established by:	Ordinance No. 98-1132, § 1 (CMC § 27100.6)
Membership:	11 members; 3 alternates
Qualification:	Resident of the City of Carson and be at least 13, but not more than 18 years of age at the time of appointment.
Meetings:	2nd Wednesday, 7:00 p.m. (Executive Conference Room)
Staff Liaison:	Brian Legaspi, Council Aide x1721
Support Staff:	Vacant

		Appointed	Term Expires
Mitchell, Hannah (LDH)		06-06-24	06-30-26
Moore, Joshua (JH)		06-06-24	06-30-26
Redway, Khristopher (LDH)		06-06-24	06-30-26
Estrada, Juan (LDH)		06-06-24	06-30-26
Villasana, Andrea (JD)		12-03-24	06-30-26
Mitchell, Jazcidi (LDH)		12-03-24	06-30-26
Zulueta, Nathaniel (LDH)**		02-17-26	06-30-26
Smith, Zoey (CH)		06-06-24	06-30-26
Williams, Liv (LDH)		06-06-24	06-30-26
Homna, Kayla (AR)		01-07-25	06-30-26
Macias, Lea (LDH)		01-07-25	06-30-26
Ortiz, Miranda (LDH)	Alt. 1 Pending Oath	01-06-26	06-30-26
Cones-Canx, Sydney (LDH)	Alt. 2 Pending Oath	01-06-26	06-30-26
Cruz, Jayden (LDH)	Alt. 3 Pending Oath	01-06-26	06-30-26

II. BOARDS & COMMITTEES

Article VI, §602 of the City Charter: To be qualified for appointment, the member shall be a qualified elector of the City, shall be domiciled in the City for at least sixty (60) days immediately preceding their appointment, and shall continue to reside in the City for the duration of his or her tenure, unless otherwise provided by ordinance.

The mayor and each member of the city council may appoint one member to a position on each City board, committee or commission, and the remaining membership positions shall be appointed by the mayor and approved by a majority of the city council, including the three alternates.

[13] Measure C and Measure K Budget Oversight Committee

Established by:	Ordinance No. 09-1423 (CMC §61119); Amended by Resolution No. 19-027; Amended by Resolution No. 21-030
Membership:	5 members; 2 alternates
Qualification:	Resident of the City of Carson.
Meetings:	2nd Tuesday, 6:30p.m. (Community Center)
Staff Liaison:	William Jefferson, Director of Finance x1756
Support Staff:	Vicki Hernandez, Senior Clerk x1744

		Appointed	Term Expires
Dorsey-Reeves, Vera (CH)		04-04-23	11-30-26
Cottrell-Fulbright, Lisa (AR)		05-06-25	11-30-26
Hunter, Cynthia (LDH)		04-04-23	11-30-26
Momoli, Nora (JD)		12-03-24	11-30-26
Hemphill, Dr. Afia (JH)		12-03-24	11-30-26
Vacant (LDH)	Alt. 1		11-30-26
Vacant (LDH)	Alt. 2		11-30-26

[14] Mobilehome Park Rental Review Board*

Established by:	Ordinance No. 79-485U. §4702: § 607 of the Citv Charter
Membership:	7 members (2 resident homeowners, 2 park owners, 3 at-large who are residents of the City and not homeowners, park owners, landlords, property managers or tenants in multifamily housing); 8 alternates (2 resident homeowners, 2 park owners, 4 at-large)
Qualification:	See membership.
Meetings:	2nd and 4th Wednesday, 6:30 p.m. (City Council Chambers)
Staff Liaison:	Tara Matthew, Interim Housing Program Manager x1708
Support Staff:	Sandy Solis, Division Secretary x1325

		Appointed	Term Expires
Vacant (JH)	At-large		11-30-26
Valdez, Daniel (JD)	At-large	12-03-24	11-30-26
Vacant (AR)	At-large		11-30-26
Clark Harris, Dr. Alice (LDH)	At-large Alt. [1]	04-04-23	11-30-26
Muhammad, Nafis (LDH)	At-large Alt. [2]	04-04-23	11-30-26
Perez, Karey (LDH)	At-large Alt. [3]	04-04-23	11-30-26
Hayes, Phyllis (LDH)	At-large Alt. [4]	04-04-23	11-30-26
Horton, Maria (LDH) Pending Oath	Park owner	12-02-25	11-30-26
Forbath, Susy (LDH)	Park owner	04-04-23	11-30-26
Dzikowski, Barbara (LDH) Pending	Park owner Alt. [1]	12-02-25	11-30-26
Kleege, Robert Bruce (LDH)	Park owner Alt. [2]	03-04-25	11-30-26
Vacant (LDH)**	Resident homeowner		11-30-26
King, Tom (CH)	Resident homeowner	01-17-23	11-30-26
Davis, William (LDH)	Resident homeowner Alt. [1]	04-04-23	11-30-26
Richardson, Sheila (LDH)	Resident homeowner Alt. [2]	08-06-24	11-30-26

[15] Relocation Appeals Board

Established by:	Ordinance No. 74-313 (CMC § 21004)
Membership:	9 members; 3 alternates
Qualification:	Resident of the City of Carson.
Meetings:	Only when necessary
Staff Liaison:	Sandy Solis, Economic Development Liaison x1325
Support Staff:	

		Appointed	Term Expires
Batucal, Dennis (LDH)		04-04-23	11-30-26
Evans, Linda (LDH)		04-04-23	11-30-26
Tate, Dorothy (LDH)**		01-23-24	11-30-26
Guray, Jr., Tancredo "Jun" (JD)		12-03-24	11-30-26
Witherspoon, Murphy (LDH)		01-07-25	11-30-26
Anson, Jr., Oscar (LDH)		01-23-24	11-30-26
Vacant (CH)			11-30-26
Morrison, Christopher (JH)		09-16-25	11-30-26
Vacant (AR)			11-30-26
Vacant (LDH)	Alt. 1		11-30-26
Vacant (LDH)	Alt. 2		11-30-26
Vacant (LDH)	Alt. 3		11-30-26

III. SPECIAL COMMITTEE

[16] General Plan Advisory Committee

Established by Minute Action 10-03-17; Amended by Resolution No. 19-029; Amended by Resolution No. 21-031
Membership: 7 members; 2 alternates
Meetings: Only when necessary
Staff Liaison: McKina Alexander, Senior Planner x1326
Support Staff: Planning Technician x1327

		Appointed	Term Expires
Mayor Lula Davis-Holmes (LDH)		04-04-23	11-30-26
Councilmember Jim Dear (JD)		12-03-24	11-30-26
Brimmer, Charlotte (LDH)**		04-04-23	11-30-26
Dudley-Kimble, Monica (CH)		04-04-23	11-30-26
Gonzalez, Leonor (AR)		04-04-23	11-30-26
Hamilton, Dr. John (JH)		04-04-23	11-30-26
Sheriff Department Representative (LDH)		04-04-23	11-30-26
Cottrell-Fulbright, Lisa (LDH)	Alt. 1	04-04-23	11-30-26
Lott, Aminika (LDH)	Alt. 2	04-04-23	11-30-26

IV. SPECIAL BOARD

[17] Carson Reclamation Joint Powers Authority (CRJPA)

Established by Resolution No. 15-01-CRJPA; Resolution No. 21-02-CRJPA
Membership: 5 members
Meetings: 1st Monday, 4:00 p.m. (Helen Kawagoe Council Chambers)
Staff Liaison: John Raymond, Executive Director x1773
Support Staff: Sylvia Rubio, Executive Assistant x1318

	Appointed	Term Expires
Authority Chair Lula Davis-Holmes	06-07-21	06-07-26
Vice Chair Cedric Hicks	06-07-21	06-07-26
Board Member Ray Aldridge, Jr.	01-26-21	01-26-26
Board Member Lillian Hopson	01-21-21	01-21-26
Board Member Dianne Thomas	01-21-21	01-21-26

V. COUNCIL SUB-COMMITTEES

[18] Bingo/Fireworks/Refuse Ad Hoc Committee
Established by Minute Order 04-02-19

	Appointed
Mayor Davis-Holmes	12-03-24
Councilmember Rojas	12-03-24

[19] Community Development/Housing/Logistics & Transit Standing Committee
Established by Minute Order 04-02-19

	Appointed
Mayor Davis-Holmes	12-03-24
Mayor Pro Tempore Hicks, Sr.	12-03-24

[20] Dignity Health Sports Park/CSUDH/Community Center Standing Committee
Established by Minute Order 04-02-19

	Appointed
Mayor Pro Tempore Hicks, Sr.	06-01-21
Councilmember Dr. Hilton	06-01-21

[21] Legislative Ad Hoc Committee
Established by Minute Order 02-16-21

	Appointed
Mayor Pro Tempore Hicks, Sr.	12-03-24
Councilmember Dr. Hilton	12-03-24

[22] City Hall/Community Center Renovation Ad Hoc Committee
Established by Minute Order 01-26-21

	Appointed
Mayor Davis-Holmes	01-26-21
Councilmember Dr. Hilton	01-26-21

[23] Economic Development/E-Commerce Ad Hoc Committee
Established by Minute Order 03-02-21

	Appointed
Mayor Davis-Holmes	03-02-21
Mayor Pro Tempore Hicks, Sr.	03-02-21

[24] Conditional Use Permit Ad Hoc Committee
Established by Minute Order 04-05-22

	Appointed
Mayor Davis-Holmes	04-05-22
Councilmember Dr. Hilton	04-05-22

[25] Housing Ad Hoc Committee
Established by Minute Order 03-16-21

	Appointed
Councilmember Dr. Hilton	12-03-24
Mayor Pro Tempore Hicks, Sr.	12-03-24

[26] Diversity, Equity and Inclusion Ad Hoc Committee
Established by Minute Order 09-07-21

	Appointed
Councilmember Dr. Hilton	09-07-21
Councilmember Rojas	03-01-22

[27] Standard Management Procedures and Special Events Ad Hoc Committee
Established by Minute Order 01-04-22

	Appointed
Mayor Davis-Holmes	01-04-22
Councilmember Dr. Hilton	01-04-22

[28] Cell 2 Settlement Ad Hoc Committee
Established by Minute Order 02-07-22 (Carson Reclamation Authority)

	Appointed
Authority Chair Lula Davis-Holmes	02-07-22
Board Member Dianne Thomas	02-07-22

[29] School Safety Ad Hoc Committee
Established by Minute Order 02-15-22

	Appointed
Councilmember Dr. Hilton	12-03-24
Councilmember Rojas	12-03-24
Captain Jones Norman	12-03-24

[30] Carson Finance and Audit Committee
Established by Minute Order 06-20-23

	Appointed
Mayor Davis-Holmes	06-20-23
Councilmember Rojas	06-20-23
Mayor Pro Tempore Hicks, Sr.	02-18-24

[31] Short-Term Rentals Ad Hoc Committee
Established by Minute Order 03-02-21
Established by Minute Order 10-03-23

	Appointed
Mayor Davis-Holmes	10-03-23
Councilmember Dr. Hilton	10-03-23

[32] Special Event Ad Hoc Committee
Established by Minute Order 06-06-24

	Appointed
Mayor Davis-Holmes	06-06-24
Councilmember Dr. Hilton	06-06-24

[33] LA '28 Olympics Ad Hoc Committee
Established by Minute Order 07-16-24

	Appointed
Mayor Davis-Holmes	07-16-24

Councilmember Dr. Hilton	07-16-24

[34] Refinery Ad Hoc Committee
Established by Minute Order 12-03-24

	Appointed
Mayor Davis-Holmes	12-03-24
Mayor Pro Tempore Hicks, Sr.	12-03-24

[35] Grocery Store Ad Hoc Committee
Established by Minute Order 06-18-24

		Appointed
Councilmember Dr. Hilton	Member	06-18-24
Mayor Pro Tempore Hicks, Sr.	Member	06-18-24

[36] Gil Smith Memorial Ad Hoc Committee
Established by Minute Order 01-07-25

	Appointed
Mayor Davis-Holmes	01-07-25
Councilmember Dr. Hilton	01-07-25

[37] Energy Ad Hoc Committee
Established by Minute Order on 09-16-25

	Appointed
Mayor Pro Tempore Hicks, Sr.	09-16-25
Councilmember Dr. Hilton	09-16-25

[38] Transportation and Dial-A-Ride Services Ad Hoc Committee
Established by Minute Order on 11-05-25

	Appointed
Mayor Pro Tempore Hicks, Sr.	11-05-25
Councilmember Dr. Hilton	11-05-25

VI. CITY AFFILIATED ORGANIZATIONS

[39] California Contract Cities Association

		Appointed
Mayor Pro Tempore Hicks, Sr.	Delegate	12-03-24
Mayor Davis-Holmes	Alt.	12-03-24

[40] Clean Power Alliance
Ord. No. 17-1633; LACCE Joint Powers Agreement (Authority)

		Appointed
Mayor Pro Tempore Hicks, Sr.	Delegate	11-15-22
Councilmember Rojas	Alt. 1	12-03-24
Staff Member Reata Kulcsar	Alt. 2	11-15-22

[41] County of Los Angeles Public Library Commission

		Appointed
Mayor Davis-Holmes	Delegate	12-03-24

[42] County Sanitation Districts of Los Angeles (Dist. No. 8)*
Automatic designation of Mayor as Delegate per Health and Safety Code Section 4730. City Council as governing body, must select an alternate to act in place of presiding officer (Mayor) in absence, inability, or refusal to act.

		Appointed
Mayor Davis-Holmes	Delegate	01-26-21
Councilmember Dr. Hilton	Alternate	12-03-24

[43] Greater Los Angeles County Vector Control District (Formerly SE Mosquito Abatement)*

The District's governing power is vested in its 35 members of the Board of Trustees. One trustee is appointed by each of the 34 cities and the County Board of Supervisors appoints one to represent unincorporated areas of Los Angeles County. To be appointed, the member must reside in and be a resident voter of the representative city (or county for county member) in the District. Board member duties and responsibilities include setting policy, establishing the budget, approving expenditures, and retaining legal counsel. The vector Trustee appointment and term are governed by the State Health and Safety Code and begin and end on the first Monday in January. Additionally, the State Health and Safety Code does not allow for alternate members to be appointed.

		Appointed	Term Expires
Councilmember Dear	Delegate	01-26-21 (effective 01-03-22)	01-05-26

[44] L.A. County City Selection Committee

Per Government Code Section 50270, the membership of each such City Selection Committee shall consist of the Mayor of each city within the county. Members of the LA County City Selection Committee include the Mayor of each city within Los Angeles County. Each city appoints an elected official as a delegate to the City Selection Committee; it usually is the Mayor. The term of office for each Member of the LA County City Selection Committee coincides with City Mayor terms, and the Committee meets three or four times a year, at the call of the Chairman. Their duties are to appoint City representatives to such Boards, Commissions and Agencies as may be required by law, i.e., LAFCO, South Coast Air Quality Management District, Los Angeles County Metropolitan Transportation Authority, Los Angeles County Hazardous Waste Management Advisory Committee; and to nominate for appointment Members to the California Coastal Commission. Nominations for the City Selection Committee appointees to the MTA are made by the Sector Subcommittees for the Sectors whose representatives' terms are expiring. The cities assigned to one of the four regions in Los Angeles County. Nominations for the City Selection Committee appointees to the MTA are made by the Sector Subcommittees for the Sectors whose representatives' terms are expiring. The cities assigned to one of the four regions in Los Angeles County (North County/San Fernando Valley, San Gabriel Valley, Southeast Long Beach and Southwest Corridor) shall meet as a Sector Subcommittee. Each candidate with a majority weighted vote will then be nominated from that Sector for consideration for appointment to the MTA.

		Appointed
Mayor Davis-Holmes	Delegate	01-26-21
Councilmember Dr. Hilton	Alt.	01-23-24

[45] League of California Cities

		Appointed
Councilmember Rojas	Delegate	03-01-22
Councilmember Dr. Hilton	Alt. 1	01-26-21
Mayor Davis-Holmes	Alt. 2	12-03-24

[46] League of California Cities (Los Angeles Co. Division)

		Appointed
Councilmember Dr. Hilton	Delegate	12-03-24
Councilmember Rojas	Alt. 1	01-26-21
Mayor Davis-Holmes	Alt. 2	12-03-24

[47] National League of Cities

		Appointed
Mayor Pro Tempore Hicks, Sr.	Delegate	01-26-21
Councilmember Rojas	Alt. 1	12-03-24
Councilmember Dr. Hilton	Alt. 2	12-03-24

[48] South Bay Cities Council of Govts (Joint Powers Authority)

		Appointed
Mayor Pro Tempore Hicks, Sr.	Delegate	01-26-21
Mayor Davis-Holmes	Alt.	12-03-24

[49] South Bay Workforce Investment Board

		Appointed	Term Expires
Ted Cordova	Member	06-18-24	06-30-28
Jeffrey Jennison	Member	06-18-24	06-30-28
Janice Jimenez	Member	07-01-21	06-30-25
Tamala Lewis	Member	07-01-19	06-30-23
Tami Lorenzen-Fanselow	Member	07-01-19	06-30-23

[50] Southern California Association of Governments (SCAG)

		Appointed
Councilmember Dr. Hilton	Delegate	01-26-21
Mayor Davis-Holmes	Alt. 1	01-26-21
Councilmember Rojas	Alt. 2	12-03-24

[51] U.S. Conference of Mayors

		Appointed
Mayor Davis-Holmes	Delegate	01-26-21
Councilmember Rojas	Alt. 1	03-01-22
Mayor Pro Tempore Hicks, Sr.	Alt. 2	01-26-21

[52] West Basin Water Association

		Appointed
Mayor Davis-Holmes	Delegate	12-03-24
Mayor Pro Tempore Hicks, Sr.	Alt.	01-26-21