405 Industrial Road Life Science Project

Initial Study / Mitigated Negative Declaration

City of San Carlos

600 Elm Street, San Carlos, CA 94070

August 9, 2022

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405 Industrial Road Life Science Project
Draft Mitigated Negative Declaration

Project: 405 Industrial Road Life Science Project

Project Proponent: Jane Vaughan, Menlo Equities
2765 Sand Hill Road
Menlo Park, CA 94025

Lead Agency: City of San Carlos

Availability of Documents: The Initial Study for this Mitigated Negative Declaration is available for review at:

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Contact – Lisa Costa Sanders, Principal Planner

PROJECT DESCRIPTION

The City of San Carlos has received an application for the 405 Industrial Road Life Science Project (project), which would consist of the construction and operation of a new, six-story commercial and life science building with two levels of below-grade parking on a site that is currently developed with an approximately 55,000 square foot self-storage facility, in the City of San Carlos. The project also proposes to construct a pedestrian pathway within Caltrans right-of-way from the southwestern portion of the project site to the Industrial Road / Holly Street intersection.

The project site is located at 405 Industrial Road, in the northern portion of the City of San Carlos, on a single parcel (Assessor Parcel Number 046-051-0800). The project site is located in the northern portion of the City's East Side Innovation District, an area that has been transitioning from low-intensity commercial and industrial businesses to biotechnology, life sciences, and high-tech office land uses over the last decade.

In the immediate vicinity of the project site, Highway 101 borders the site to the east, Holly Street borders the site to the south, a Sutter Health medical facility and its associated parking garage are located north of the project site, and an In-N-Out is located west of the project site. The project site is bordered on the south and east by an engineered, natural bottom channel. Single-family residences are located west of the project site, across Industrial Road on Springfield Drive and Sylvan Drive, and southwest of the site, on Holly Street and Bayport Court. The San Carlos Airport is located east of the project site, across Highway 101.

The project site has a General Plan and zoning designation of General Commercial/Industrial (GCI) and LC (Landmark, Commercial), respectively. These General Plan and zoning designations generally include retail, service, office, R&D, and industrial uses. The project would require a rezoning to PD (Planned Development) to exclude above-grade parking from the Floor Area Ratio (FAR) calculation and to allow construction of a building which would exceed the Landmark Commercial 50-foot zoning height limit.

Construction of the project would commence in early-to-mid 2023 and last approximately 20 months, becoming operational in late 2024. Construction would require the demolition and off-

haul of the existing 55,000 square feet of building space at the site, as well as approximately 49,600 cubic yards of soil to accommodate the subterranean parking garage.

Once operational, the proposed six-story building would total approximately 411,673 square feet of building space (four levels of office / laboratory space situated over two levels of above-grade parking and two levels of below-grade parking); 205,273 square feet of that space would be used for laboratory and office purposes, and the remaining approximately 206,402 square feet would be used for garage area. Of the approximately 205,273 square feet of laboratory and office space, 40% (82,109 square feet) would be used as office space and 60% (123,164 square feet) would be used as laboratory space. The site's proposed FAR would be 1.95 if parking space is excluded from the calculation and 2.77 if parking space is included. The site would provide parking for approximately 458 motor vehicles and 88 bicycles. Vehicular access to the site would continue to be provided by a driveway that runs along the northern portion of the project site and connects to Industrial Road.

The architecture design of the building would involve a primarily glassy curtain wall design on the top floor floors, situated over two levels of parking structure. The four top floors of the southeastern corner of the building would include a fritted glass pattern, which would serve as an artistic element of the building. Implementation of the proposed project would increase the amount of pervious area on the site by approximately 7,983 square feet.

PROPOSED FINDINGS

The City of San Carlos has reviewed the attached Initial Study and determined that the Initial Study identifies potentially significant project effects, but:

1. Revisions to the project plans incorporated herein as mitigation would avoid or mitigate the effects to a point where no significant effects would occur; and
2. There is no substantial evidence, in light of the whole record before the agency, that the project may have a significant effect on the environment. Pursuant to California Environmental Quality Act (CEQA) Guidelines Sections 15064(f)(3) and 15070(b), a Mitigated Negative Declaration has been prepared for consideration as the appropriate CEQA document for the project.

BASIS OF FINDINGS

Based on the environmental evaluation presented in the attached Initial Study, the project would not cause significant adverse effects related to: agricultural and forestry resources, energy, greenhouse gas emissions, hazards and hazardous emissions, hydrology and water quality, land use and planning, mineral resources, noise, population and housing, public services, recreation, utilities/service systems, and wildfire. With mitigation incorporated into the project, the project does not have impacts that are individually limited, but cumulatively considerable.

The environmental evaluation has determined that the project would have potentially significant impacts on aesthetics, air quality, biological resources, cultural resources, geology and soils, transportation, and tribal cultural resources as described below.

Mitigation Measures

The project could result in significant adverse effects to aesthetics, air quality, biological resources, cultural resources, geology and soils, transportation, and tribal cultural resources. However, the project has been revised to include the mitigation measures listed below, which reduce these impacts to a less-than-significant level. With implementation of these mitigation measures, the project would not substantially degrade the quality of the environment, 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, or substantially reduce the

number or restrict the range of a rare or endangered plant or animal. Nor would the project cause substantial adverse effects on humans, either directly or indirectly.

Impact AES-1: Light egress and glare generated by project interior electric lights could adversely impact surrounding sensitive light receptors during nighttime hours.

Mitigation Measure AES-1: Install Interior Automated Roller Shades. The project shall implement the automated shade recommendations for brand, fabric type and color, openness, and automation contained within the project Glare Study (LOISOS + UBBELOHDE, 2021). The interior roller shades shall be sourced from Ecoveil or SoHo and meet the specifications detailed in the Glare Study. If EcoVeil shades are selected, the project Applicant shall select the recommended screen series in the color silver birch, which provides the best balance of the performance criteria for the project. If SoHo shades are selected, the project Applicant shall select from the weave and color options recommended within the Glare Study (i.e., silver, sand, light grey, dove grey, or silver birch).

The interior roller shades shall be oriented in the project building as follows, according to the "Interior Roller Shade Recommendation: Openness by Orientation" figure included on page 24 of the project Glare Study:

- One (1) percent openness on the western façade on stories 3, 4, 5, and 6.
- Three (3) percent openness with seats perpendicular to façade, one (1) percent openness with faces or back to façade on the eastern and southern facades on stories 3, 4, 5, and 6.
- Three (3) percent openness on the northern façade on stories 3, 4, 5, and 6.

The project shall install roller shades with automated functionality that is responsive to sky conditions and solar positions to maximize daylight harvesting, maintain views, and limit electric light emanating from the building at night.

The project shall install occupancy sensors for the building's interior electric lights to minimize electric light trespass during nighttime hours.

The project Applicant may choose to prepare and submit a revised Glare Study to the City for City approval that specifies alternative automated shade recommendations for brand, fabric type and color, openness, and automation, as long as the revised specifications meet a resulting light egress luminance level of no more than 100 candelas per meter squared, the performance standard specified in the Glare Study prepared by LOISOS + UBBELOHDE. The revised Glare Study shall be prepared by a qualified Engineering or Architecture firm with specialty and expertise in preparing Glare Studies.

Effectiveness: This measure would effectively reduce or eliminate light egress and glare from interior electric lights, and reduce potential nighttime light and glare impacts to less than significant.

Implementation: The Applicant shall be responsible for installing roller shades that meet the requirements specified in this mitigation measure.

Timing: The City shall ensure these specifications are detailed on project plans. The City shall also review purchase orders for the shades to ensure they meet the specifications required by this mitigation measure.

Monitoring: The City shall confirm the interior shade specifications through purchase order.

Impact AIR-1: Construction equipment could generate diesel particulate matter (DPM) emissions in excess of regulatory standards.

Mitigation Measure AIR-1: Utilize Tier IV Off-road Construction Equipment. To reduce potential, short-term adverse health risks associated with $PM_{2.5}$ emissions, including emissions of diesel particulate matter (DPM) generated during project construction activities, the City shall require the project Applicant and/or its designated contractors, contractor's representatives, or other appropriate personnel to comply with the following construction equipment restrictions:

- All mobile construction equipment greater than 50 horsepower in size shall meet with United States Environmental Protection Agency (U.S. EPA) and California Air Resources Board (CARB) Tier IV Exhaust Emission Standards. This may be achieved via the use of equipment with engines that have been certified to meet U.S. EPA and CARB Tier IV emissions standards, or through the use of equipment that has been retrofitted with a CARB-verified diesel emission control strategy (e.g., particulate filter) capable of reducing exhaust $PM_{2.5}$ emissions to levels that meet U.S. EPA and CARB Tier IV emissions standards.

As an alternative to having all mobile construction equipment greater than 50 horsepower meet with U.S. EPA and CARB Tier IV Exhaust Emission Standards, the Applicant may prepare and submit a refined construction health risk assessment to the City once additional project-specific construction information is known (e.g., specific construction equipment type, quantity, engine tier, and runtime by phase). The refined health risk assessment shall demonstrate and identify any measures necessary such that the proposed project's incremental carcinogenic health risk at nearby sensitive receptor locations is below the applicable BAAQMD threshold of 10 cancers in a million.

Effectiveness: This measure would reduce potential carcinogenic health risks by approximately 70.8 percent, and to levels that are below applicable BAAQMD risk thresholds.

Implementation: The Applicant shall include this requirement on all appropriate bid, contract, and engineering and site plan (e.g., building, grading, and improvement plans) documents.

Timing: During construction activities.

Monitoring: The City shall review all appropriate bid, contract, and engineering and site plan documents for inclusion of this requirement and verify the construction equipment utilized during construction meet the Tier IV emission standards.

Impact BIO-1: The new six-story building will introduce new glass facades that could result in bird collisions that injures or kills birds. This may result in a cumulative loss of birds over time and in addition to other similar buildings planned in San Carlos that is a potentially significant impact under CEQA.

Mitigation Measure BIO-1: Bird-safe Design. The project shall implement the following bird-safe design considerations:

- Use glazing or window coatings/markings that reduce bird strike hazard caused by transparency, reflectance, black hole or passage effect, etc., such as Guardian Bird1st etch glass or similar. See recommendations by the American Bird Conservatory at https://abcbirds.org/,
- Minimize plants or landscaped areas behind glass or on the rooftop,

- Minimize concentrations of plantings adjacent to glass facades.

  Effectiveness: Will minimize bird collisions and avoid a significant cumulative impact.

  Implementation: By the Applicant or its contractor.

  Timing: During the design phase.

  Monitoring: The City shall verify during plan check that the project has incorporated additional bird collision avoidance measures to minimize bird deaths caused by collision with building windows.

Impact BIO-2. The proposed pathway impacts the channel and requires permits from California Department of Fish and Wildlife (CDFW), Regional Water Quality Control Board (RWQCB), and U.S. Army Corps of Engineers (USACE). The project may also impact the adjacent storm channel and mixed riparian vegetation along the drainage due to slope stability issues. The project will need to comply with the federal Clean Water Act, state Porter-Cologne Water Quality Act, and Fish and Game Code.

Mitigation BIO-2. Prepare Jurisdictional Wetland Delineation. If the Applicant decides to construct a pedestrian bridge from the Project site to the Holly Street / Industrial Road intersection in Caltrans right-of-way, a jurisdictional wetland delineation shall be prepared. The jurisdictional wetland delineation shall inform the design the pathway and slope stabilization to avoid or minimize permanent impacts to the riparian zone and channel. Obtain permits as required and follow all conditions stipulated in the permits. The permit applications will determine the amount of impact, indicate the erosion control measures that will be used, and show how riparian vegetation will be protected/restored. If compensatory mitigation is required it may entail an offsite location or could include further restoration of riparian habitat along the channel. Since this is in the Caltrans right-of-way, the permits and any necessary mitigation will also involve Caltrans.

Effectiveness: Will reduce project impacts to the riparian zone and drainage channel.

Implementation: By the Applicant or its contractor.

Timing: Prior to bridge/pathway construction and site grading.

Monitoring: The City shall verify that the Applicant has obtained the necessary approvals for the pathway/bridge from Caltrans and state and federal resource agencies, as appropriate.

Impact BIO-3. The project may require the removal of trees that are subject to the City's Interim Protected Tree Ordinance. The project may also result in damage to trees along the drainage within the Caltrans right of way.

Mitigation BIO-3. Protection of Trees. The project proponent shall obtain a permit to remove any tree(s) protected under the City's Interim Protected Tree Ordinance, as determined by an arborist, and shall also prepare a tree protection plan that includes a map of the tree protection zone and is included in the construction drawings and bid package. Removed trees will be replaced in accordance with the ordinance at the discretion of the Community Development Director. If any removed trees are within the jurisdiction of California Department of Fish and Wildlife (CDFW), and CDFW issues a Lake and Streambed Agreement for the project, the tree replacement ratios shall comply with CDFW requirements.

Effectiveness. Will assure that tree canopy is maintained in the City of San Carlos as intended by the Interim Tree Protection Ordinance, and that trees to remain are protected during construction.

Implementation. By the Applicant or its contractor.

Timing. Prior to tree trimming or removal.

Monitoring. Certified Arborist Report, tree protection plan, review by the Community Development Director.

Impact CUL-1: Project construction personnel may not recognize buried archaeological resources during project demolition and construction.

Mitigation Measure CUL-1: Conduct Archaeological Sensitivity Training. In anticipation of discovery of unknown archaeological resources during construction, Archaeological Sensitivity Training shall be carried out by a qualified archaeologist for all personnel who will engage in ground disturbing activities on the site. The training shall be conducted at the start of construction and prior to ground disturbance.

The training shall include suitable photographic materials showing the kinds of artifacts and evidence of prehistoric archaeological sites likely to be found in the area, as well as written and verbal descriptions for archaeological resources and signs of potential archaeological discovery. The training will also include written materials describing what to do in the event of a discovery, or suspected discovery of archaeological resource. This language will include Mitigation Measures CUL-2 and CUL-3.

Effectiveness: This measure would minimize and/or avoid impacts to unanticipated archaeological resources to less-than-significant levels.

Implementation: The Applicant shall include these measures on all appropriate bid, contract, and engineering and site plan (e.g., building, grading, and improvement plans) documents. The Applicant and/or its contractor(s) shall implement this measure prior to ground disturbance on the site.

Timing: Prior to project ground disturbance.

Monitoring: The City shall review all appropriate bid, contract, and engineering and site plan documents for inclusion of cultural resource mitigation. The City shall ensure that archaeological training has been conducted for all personnel engaged in ground moving activities, prior to ground disturbance on the site.

Impact CUL-2: Project construction may unearth or disturb previously unidentified buried archaeological resources during project demolition and construction.

Mitigation Measure CUL-2: Protection of Archaeological Resources. In the event archaeological resources are unearthed during ground-disturbing activities, all ground-disturbing activities within 100 feet of the find shall be halted so that the find can be evaluated. Ground moving activities shall not be allowed to continue until a qualified archaeologist has examined the newly discovered artifact(s) and has evaluated the area of the find.

All archaeological resources unearthed by project construction activities shall be evaluated by a qualified professional archaeologist, who meets the U.S. Secretary of the Interior's Professional Qualifications and Standards.

All Native American artifacts (tribal finds) shall be considered as a significant Tribal Cultural Resource, pursuant to PRC 21074 until the lead agency has enough evidence to make a determination of significance.

The City shall coordinate with the archaeologist to develop an appropriate treatment plan for the resources. The plan may include implementation of archaeological data recovery excavations to address treatment of the resource along with subsequent laboratory processing and analysis. If appropriate, the archaeologist may introduce archaeological monitoring on all or part of the site. An archaeological report will be written detailing all archaeological finds and submitted to the City and the Northwest Information Center.

Effectiveness: This measure would minimize and/or avoid impacts on undetected archaeological resources to less than significant levels.

Implementation: The Applicant shall include these measures on all appropriate bid, contract, and engineering and site plan (e.g., building, grading, and improvement plans) documents. The Applicant and/or its contractor(s) shall implement this measure in the event cultural resources are discovered

Timing: During all earth moving phases of project construction.

Monitoring: The City shall review all appropriate bid, contract, and engineering and site plan documents for inclusion of cultural resource mitigation. An archaeological report, if appropriate, will be written detailing all archaeological finds and submitted to the City and the Northwest Information Center.

Impact CUL-3: Project construction, particularly excavation of the underground parking garage, may disturb human remains during project demolition and construction.

Mitigation Measure CUL-3: Protection of Human Remains. If human remains are unearthed during ground-disturbing activities, Section 7050.5(b) of the California Health and Safety code will be implemented. Section 7050.5(b) states:

> In the event of discovery or recognition of any human remains in any location other than a dedicated cemetery, there shall be no further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent remains until the coroner of the county in which the human remains are discovered has determined, in accordance with Chapter 10 (commencing with Section 27460) of Part 3 of Division 2 of Title 3 of the Government Code, that the remains are not subject to the provisions of Section 27492 of the Government Code or any other related provisions of law concerning investigation of the circumstances, manner and cause of death, and the recommendations concerning treatment and disposition of the human remains have been made to the person responsible for the excavation, or to his or her authorized representative, in the manner provided in Section 5097.98 of the Public Resources Code.

The County Coroner, upon recognizing the remains as being of Native American origin, is responsible to contact the Native American Heritage Commission (NAHC) within 24 hours. The Commission has various powers and duties, including the appointment of a Most Likely Descendant (MLD) to the Project. The MLD, or in lieu of the MLD, the NAHC, has the responsibility to provide guidance as to the ultimate disposition of any Native American remains.

Effectiveness: This measure would reduce impacts on previously unknown human remains to less than significant levels.

Implementation: The Applicant shall include these measures on all appropriate bid, contract, and engineering and site plan (e.g., building, grading, and improvement plans) documents. The Applicant and/or its contractor(s) shall implement this measure in the event human remains are discovered.

Timing: During all earth moving phases of project construction.

Monitoring: The City shall review all appropriate bid, contract, and engineering and site plan documents for inclusion of cultural resource mitigation. The County Coroner will detail the findings in a coroner's report.

Impact GEO-1: Project demolition and construction could unearth paleontological resources, including fossils.

Mitigation Measure GEO-1: Protection of Paleontological Resources. If paleontological resources are discovered during construction, ground-disturbing activities shall halt immediately until a qualified paleontologist can assess the significance of the discovery. Depending on determinations made by the paleontologist, work may either be allowed to continue once the discovery has been recorded, or if recommended by the paleontologist, recovery of the resource may be required, in which ground-disturbing activity within the area of the find will be temporarily halted until the resource is recovered. If treatment and salvage is required, recommendations shall be consistent with Society of Vertebrate Paleontology guidelines and current professional standards.

Effectiveness: This measure would reduce impacts to paleontological resources to less than significant.

Implementation: The Applicant shall include these measures on all appropriate bid, contract, and engineering and site plan (e.g., building, grading, and improvement plans) documents. The Applicant and/or its contractor(s) shall implement this measure in the event any paleontological resources are discovered.

Timing: During all earth moving phases of project demolition and construction.

Monitoring: The City shall review all appropriate bid, contract, and engineering and site plan documents for inclusion of paleontological mitigation. If paleontological resources are uncovered, a report shall be prepared by the qualified paleontologist describing the find and its deposition.

Impact TRANS-1: Vehicle trips and vehicle miles traveled (VMT) generated by operation of the project could be inconsistent with City Municipal Code Chapter 18.25 and the City's VMT policy if not properly tracked and enforced.

Mitigation Measure TRANS-1: Additional TDM Plan Requirements. A Transportation Demand Management (TDM) Plan shall be prepared and implemented that includes, at a minimum, the following elements:

1. The project Applicant will designate an on-site Transportation Coordinator that will be responsible for implementation of the TDM Plan, including providing relevant TDM trip reduction and program information to all employees on site, and arranging for independent annual monitoring and employee surveys.

2. The project Applicant and the Project's Transportation Coordinator will be responsible for ensuring that the TDM Plan is implemented each year and an annual monitoring report is submitted to the City of San Carlos.
3. The TDM Plan monitoring will be prepared by an independent consultant per City of San Carlos Municipal Code Section 18.25.080. Regular monitoring will be necessary to ensure that the implemented TDM measures are effective and achieve the 20-percent trip reduction requirement.
4. Consistent with common traffic engineering data collection practices, traffic conditions will be monitored annually by means of a.m. and p.m. commute hour driveway counts at each project access point. The counts will include daily and peak hour traffic counts conducted between 7:00 a.m. and 9:00 a.m. and between 4:00 p.m. and 6:00 p.m. on three non-consecutive days per year on typical weekdays (Tuesday, Wednesday, or Thursday) during the fall when school is in session. Mechanical tube counts or video counts may be used. The peak 60-minute period will be calculated for both the a.m. and p.m. peak period.
5. An annual employee survey will be conducted by an independent consultant to determine employee transportation mode choice (e.g., drive alone, carpool, bus, Caltrain, etc.). This annual commuter survey should be formatted as a general survey including non-transportation questions (e.g., satisfaction with property management, activities, etc.) to increase the response rate.
6. The site Transportation Coordinator will work with an independent consultant to obtain traffic count data, implement the annual employee commuter surveys and document all findings in a TDM monitoring report. The annual monitoring report will be submitted to the City of San Carlos by the Transportation Coordinator. The TDM Plan monitoring data will be reviewed by the City to assess whether the goal of a 20-percent trip reduction is being met. This will be assessed by comparing the driveway counts to the trip targets of this TDM plan report.
7. If the City of San Carlos determines that the 20-percent trip reduction goal is not being achieved, additional TDM measures may be implemented. Modifications to the TDM Plan may include additional programs or substitute activities for achieving vehicle trip reductions. The annual TDM monitoring report will describe any planned modifications to the TDM program such that the 20-percent trip reduction is maintained or achieved by the following monitoring cycle.
8. If the 20-perent trip reduction goal is not met based on a five-year review of TDM monitoring reports, the City may require more stringent TDM measures be implemented along with a six-month monitoring schedule. If the 20-percent trip reduction goal is not achieved by year six, then the City may initiate a review of the building occupancy permit, condition use permit, or enact other measures (including fines) aimed at achieving a minimum of 20-percent trip reduction.

Effectiveness: This measure would effectively track and implement the City's TDM requirements for projects, and reduce potential VMT impacts to less than significant.

Implementation: The Applicant and/or its Transportation Coordinator shall be responsible for the implementation of the TDM Plan. An independent consultant shall conduct the monitoring for the TDM Plan.

Timing: During project operation.

Monitoring: As specified in City of San Carlos Municipal Code Section 18.25.080.

RECORD OF PROCEEDINGS AND CUSTODIAN OF DOCUMENTS

The record, upon which all findings and determinations related to the approval of the project are based, includes the following:

1. The Mitigated Negative Declaration and all documents referenced in or relied upon by the Mitigated Negative Declaration.
2. All information (including written evidence and testimony) provided by City of San Carlos staff to the decision maker(s) relating to the Mitigated Negative Declaration, the approvals, and the Project.
3. All information (including written evidence and testimony) presented to the City of San Carlos by the environmental consultant who prepared the Mitigated Negative Declaration or incorporated into reports presented to the City of San Carlos.
4. All information (including written evidence and testimony) presented to the City of San Carlos from other public agencies and members of the public related to the Project or the Mitigated Negative Declaration.
5. All applications, letters, testimony, and presentations relating to the Project.
6. All other documents composing the record pursuant to Public Resources Code section 21167.6 l.

The City of San Carlos is the custodian of the documents and other materials that constitute the record of the proceedings upon which the City of San Carlos's decisions are based. The contact for this material is:

Lisa Costa Sanders, Principal Planner
City of San Carlos
600 Elm Street
San Carlos, CA 94070
Phone: (650) 802-4207
Email: LcostaSanders@cityofsancarlos.org

405 INDUSTRIAL ROAD LIFE SCIENCE PROJECT INITIAL STUDY

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Chapter 1. Introduction

This Initial Study (IS) evaluates the potential environmental effects of constructing a new commercial and life science office building on a site that is currently developed with a public self-storage facility in the City of San Carlos (City). This proposed activity constitutes a project under the California Environmental Quality Act (CEQA).

1.1 PROJECT BACKGROUND AND OVERVIEW

Menlo Equities, the project applicant (Applicant), is proposing to construct a new, approximately 411,673 square foot, six-story building with two levels of below-grade parking and two levels of above/at-grade parking on a site that is currently developed with an approximately 55,000 square foot public self-storage facility comprised of five buildings. Of the approximately 411,673 square feet of building space, only approximately 205,273 square feet would be occupied for office / research space. The remaining 206,402 square feet of building space would be occupied by the garage area and other, non-occupiable building space.

The project site is located at 405 Industrial Road, in the northern portion of the City of San Carlos, and is within the City's East Side Innovation District, an area that has been transitioning from low-intensity commercial and industrial businesses to biotechnology, life sciences, and high-tech office land uses over the last decade. In the immediate vicinity of the project site, Highway 101 borders the site to the east and south, a Sutter Health medical facility and its associated parking garage are located north of the project site, and an In-N-Out is located immediately west of the project site.

Single-family residences are located to the west and southwest of the project site, across Industrial Road; the San Carlos Airport is located east of the project site; and a parcel currently developed with a light industrial use, but that is being proposed for redevelopment as a hotel, the Hotel Indigo, is located south of the project site, across Holly Street at 501 Industrial Road.

The Applicant is proposing to construct a pedestrian / bicycle pathway from the southwestern corner of the project site to the northeastern corner of the Industrial Road / Holly Street intersection. The proposed pathway would provide additional access from the project site to the Industrial Road / Holly Street intersection, which the City is planning to improve with a crosswalk along the eastern portion of the intersection.[1] The proposed pathway from the project site to Holly Street would be located in Caltrans right-of-way and be subject to Caltrans approval.

1.2 REGULATORY GUIDANCE

The California Environmental Quality Act (CEQA; Public Resources Code § 21000 et seq.) and the CEQA Guidelines (14 CCR §15000 et seq.) establish the City of San Carlos as the lead agency for the project. The lead agency is defined in CEQA Guidelines Section 15367 as, "the public agency which has the principal responsibility for carrying out or approving a project." The lead agency is responsible for preparing the appropriate environmental review document under CEQA. The San Carlos City Council serves as the decision-making body for the City and is responsible for adopting the CEQA document and approving the project.

CEQA Guidelines Section 15070 states a public agency shall prepare a proposed Negative Declaration or a Mitigated Negative Declaration when:

[1] It is not currently known when the City will undertake these improvement to the Holly Street and Industrial Road intersection.

1. The Initial Study shows that there is no substantial evidence, in light of the whole record before the agency, that the project may have a significant effect on the environment, or
2. The Initial Study identifies potentially significant effects, but:
    - Revisions in the project plans made before a proposed Mitigated Negative Declaration and Initial Study are released for public review would avoid the effects or mitigate the effects to a point where no significant effects would occur, and
    - There is no substantial evidence, in light of the whole record before the agency, that the project as revised may have a significant effect on the environment.

Pursuant to Section 15070, the City has determined a Mitigated Negative Declaration is the appropriate environmental review document for the 405 Industrial Road Life Science Project.

To ensure that the mitigation measures and project revisions identified in a Mitigated Negative Declaration are implemented, CEQA Guidelines Section 15097(a) requires the City to adopt a program for monitoring or reporting on the revisions which it has required in the project and the measures it has imposed to mitigate or avoid significant environmental effects.

1.3 LEAD AGENCY CONTACT INFORMATION

The lead agency for the project is the City of San Carlos. The contact person for the lead agency is:

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City of San Carlos
600 Elm Street
San Carlos, CA 94070
Phone: (650) 802-4207
Email: LcostaSanders@cityofsancarlos.org

1.4 DOCUMENT PURPOSE AND ORGANIZATION

The purpose of this document is to evaluate the potential environmental effects of the 405 Industrial Road Life Science Project. This document is organized as follows:

- Chapter 1 – Introduction. This chapter introduces the project and describes the purpose and organization of this document.
- Chapter 2 – Project Description. This chapter describes the project location, area, site, objectives, and characteristics.
- Chapter 3 – Environmental Checklist and Responses. This chapter contains the Environmental Checklist that identifies the significance of potential environmental impacts (by environmental issue) and a brief discussion of each impact resulting from implementation of the proposed project. This chapter also contains the Mandatory Findings of Significance.
- Chapter 4 – Report Preparation. This chapter provides a list of those involved in the preparation of this document.
- Appendices
    - Appendix A: Glare Study
    - Appendix B: Air Quality, Health Risk Assessment, Energy, and Greenhouse Gas Materials
        - Appendix B.1: Unmitigated CalEEMod Output Files
        - Appendix B.2: Mitigated CalEEMod Output Files
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Chapter 2. Project Description

The City of San Carlos has received an application for the 405 Industrial Road Life Science Project (project), which would consist of the construction and operation of a new, six-story commercial and life science building with two levels of below-grade parking on a site that is currently developed with a self-storage facility, in the City of San Carlos. The project also proposes to construct a pedestrian pathway within Caltrans right-of-way from the southwestern portion of the project site to the Industrial Road / Holly Street intersection.[2]

The project application proposes to rezone the project parcel from its current zoning of Landmark Commercial to Planned Development to exclude above-grade parking from the Floor Area Ratio calculation and to allow construction of a building which would exceed the Landmark Commercial 50-foot zoning height limit.

2.1 PROJECT LOCATION

The project site is located at 405 Industrial Road in the northern portion of the City of San Carlos, California, in San Mateo County, along the San Francisco Peninsula, as shown on Figure 1 – Project Location. San Carlos is bordered by the City of Belmont to the north, the San Francisco Bay to the east, Redwood City to the south, and the Pulgas Ridge Open Space Preserve, Edgewood Park and Natural Reserve, and other open space and Interstate 280 (I-280) to the west.

Regional access to the project site is provided via United States Route 101 (Highway 101), which is an eight-lane freeway located immediately east of the project site. Access to the project site from Highway 101 is provided from the Holly Street exit. Local access to the project site is provided by Holly Street, Industrial Road, Old County Road, Harbor Boulevard, and State Route 82 (El Camino Real).

The project site is located approximately 8.8 miles south of San Francisco International Airport (SFO). San Carlos Airport is located approximately 0.25 miles to the east of the project site, and the San Carlos Caltrain station is approximately 0.35 miles to the southwest of the project site.

2.2 PROJECT SITE

The approximately 2.41-acre project site consists of a single parcel (Assessor Parcel Number 046-051-0800) and is currently developed with an approximately 55,000 square foot, five-building self-storage facility, as shown on Figure 2 – Project Vicinity. The project site is located in the northern portion of the City's East Side Innovation District, an area that has been transitioning from low-intensity commercial and industrial businesses to biotechnology, life sciences, and high-tech office land uses over the last decade. Figure 3 – Existing Site Photos depicts existing conditions at and in proximity of the project site.

2.2.1 General Plan Land Use Designation

The City of San Carlos 2030 General Plan designates the project site as General Commercial/Industrial (GCI), a land use designation intended primarily for production and manufacturing uses. Uses in this land use designation generally include retail, service, office, R&D, and industrial uses.

[2] For orientation purposes, this Initial Study considers U.S. Highway 101 and Industrial Road to run in a north-south direction and Holly Street in an east-west direction. All references to north, east, south, and west use this same orientation.

2.2.2 Zoning

The project site has a zoning designation of LC (Landmark, Commercial). This zoning designation is intended to accommodate key parcels known collectively as landmark sites, which are targeted for economic development of regional retail and destination-oriented uses, including large-scale office complexes and hotels as individual or combined uses that are intended to serve regional users and have significant beneficial results in employment growth and contribute to the economic sustainability of the City and implementation of the City's Economic Development Plan. The LC zoning designation has a maximum building height of 50 feet, a maximum floor area ratio (FAR) of 2.0 and requires a 10-foot setback on front and side lot lines.

2.2.3 Surrounding Land Uses and Existing Site Characteristics

In the immediate vicinity of the project site, Highway 101 borders the site to the east, Holly Street borders the site to the south, a Sutter Health medical facility and its associated parking garage are located north of the project site, and an In-N-Out fast-food restaurant is located west of the project site. Access to the site is via Industrial Road (see Figure 2).

Single-family residences are located to the west and southwest of the project site, across Industrial Road; the San Carlos Airport is located approximately 0.25 miles to the east of the project site; and a parcel currently developed with a light industrial use, but that is being proposed for redevelopment as a hotel (the Hotel Indigo), is located south of the project site across Holly Street at 501 Industrial Road.

The project site is currently developed with an approximately 55,000 square foot, five-building self-storage facility that has both one- and two-story structures on site.[3] The front office for the storage facility, which is two stories, is located in the northwest corner of the interior project site, immediately adjacent to the project's driveway. The building that is located adjacent to the eastern property line and extends toward the southern portion of the project site is also two stories. All other structures on site are one story. The site is almost entirely hardscaped; the portions of the site that are not developed with structures are paved and serve either as drive isles or parking spaces. There is one tree on the project site, located on the northern side of the middle buildings (i.e., the portions of the existing buildings that are leased out as office space).

Phase I and Phase II Environmental Site Assessments (ESAs) were prepared for the project to review site use and current conditions to check for the storage, use, production, or disposal of hazardous or potentially hazards materials at the site based on the site's past and current use. Testing at the site indicates that although some testing would be required during excavation and off haul (to determine the appropriate disposal method), that fill would be suitable for reuse on site, and that no remedial action would be required due to existing regulations. The Phase I ESA also determined that due to the age of the existing structures on site, that asbestos-containing materials and lead-based paint may exist within the structures.

The southwest corner of the project site contains a portion of an open drainage channel that runs into a larger open drainage ditch immediately south of the project boundary in a Caltrans easement for the Holly Street exit ramp and overpass (see Figure 3; bottom photo on page 21). The smaller drainage channel in the project site and the larger drainage ditch in the Caltrans right of way contain wetland vegetation (see Figure 3; bottom photo on page 21 and photos on page 22). The drainage channel within the project parcel receives stormwater runoff from

[3] The existing building space presented for the site includes 1,224 square feet of office space that is leased to tenants. The site also includes an approximately 286 square foot property management office, which is considered to be building space that supports the operation of the self-storage facility.

portions of the In-N-Out fast-food restaurant site and from portions of the project site. This drainage channel acts as a tributary to the larger open drainage ditch in the Caltrans right of way.

2.3 PROPOSED PROJECT

The proposed project would consist of demolishing the existing, approximately 55,000 square foot self-storage facility and constructing a new, approximately 411,673 square foot, six-story building that would be used for commercial / life science uses (Figure 4 – Proposed Site Plan). The proposed structure would feature four levels of office / laboratory space situated over two levels of above-grade parking and two levels of below-grade parking. The proposed structure would feature an artistic architectural element on its southeastern façade. The project may also involve the construction of a pedestrian bridge/pathway to connect the southeast corner of the project site to the Holly Steet and Industrial Road intersection. New landscaping would be added adjacent to the pedestrian bridge/pathway.

The proposed structure would be comprised of approximately 205,273 square feet of laboratory and office space and approximately 206,402 square feet of garage area and other, non-occupiable building space. Of the approximately 205,273 square feet of laboratory and office space, 40% (82,109 square feet) would be used as office space and 60% (123,164 square feet) would be used as laboratory space. Approximately 51,234 square feet of the surface of the site would be dedicated to building coverage; 45,850 square feet would be for sidewalks, patios, paths, driveways, and streets; and approximately 7,983 square feet would be landscaping.

The Applicant would request a rezoning of the project parcel from its current zoning of LC (Landmark Commercial) to PD (Planned Development) to exclude above-grade parking from the Floor Area Ratio calculation and to allow construction of a building which would exceed the Landmark Commercial 50-foot zoning height limit. The proposed FAR would be 1.95 if parking is excluded and 2.77 if parking is included. The proposed building would stand approximately 83 feet 10 inches tall, approximately 34 feet higher than the 50-foot zoning height limit of the LC zoning.[4]

The site would employ approximately 685 people and have approximately 458 parking spaces. Approximately 88 parking spaces would also be provided for bicycles.

2.3.1 Building Size and Characteristics

The proposed project would be located approximately nine feet above mean sea level, feature two levels of below-grade parking, two above-grade levels of parking, and four upper-levels of laboratory / office use. Table 2-1 summarizes the building space of the proposed structure.

The subterranean parking garage would extend approximately 20 feet below grade, with each level being 10 feet tall. The roof of the garage for the first floor would be approximately 12 feet above grade, while the second level of parking above grade would be approximately 22 feet 10 inches above grade (or approximately 10 feet 10 inches above the first floor). Floors three through six would be used for laboratory and office space. Floor three would be 16 feet tall, while floors four through six would be 15 feet tall. Collectively, the six-story building would be approximately 83 feet 10 inches tall (see Figure 5 – Building Elevations). Elevating the portions of the building that would be occupied by the majority of tenants would help prepare the site in the event of flooding due to rising sea levels or excessive rainfall.

[4] The rooftop penthouse would extend 99 feet, 10 inches above ground level.

Table 2-1: Proposed Building Area

Floor	Floor Space (Square Feet)		
	Laboratory and Office Space	Garage Area / Non-Occupiable Space	Gross Floor Area
Underground (P-2)	0	54,136	54,136
Underground (P-1)	0	54,136	54,136
At Grade (P-1)	8,819	42,415	51,234
Level 2 (P-2)	918	47,376	48,294
Level 3	50,323	2,085	52,408
Level 4	50,323	2,085	52,408
Level 5	50,323	2,085	52,408
Level 6	44,567	2,084	46,651
Source: RMW 2021 (Sheet G1.1)			

The building's main lobby would be located along the northern façade on the first floor; a drop off area would be provided on the interior site from the main driveway. The main lobby would connect to the elevator lobby to the south and to showers / a changing room further beyond that to the south. The elevators adjacent to the main lobby would provide access to the below-grade parking garage and upper levels. An elevator would also be present at the northeastern corner of the building. Stairwells would be located adjacent to the elevator shafts would provide an alternative means for vertical access throughout the building. A standalone stairwell would also be located on the southern portion of the building. The artistic element proposed for the building would be located on the southeastern-most corner of the building (i.e., adjacent to the southernmost stairwell), closest to where the southbound Highway 101 off ramp connects to Holly Street.

The main electrical room, emergency electric room, fire pump room, deliver room, trash room, and a bike room would all be located on the ground floor in the northeastern portion of the building. Although not attached to the proposed six-story structure, a generator and location for yard equipment storage would be presented in the northeastern portion of the project site.

2.3.2 Heating and Cooling Systems

Heating System

Three equally sized, high-efficiency, gas-fired condensing boilers with an output of 4,000 thousand British thermal units (MBH) would be located in a dedicated boiler room, within the enclosed penthouse on the roof. The water heating system would be designed to supply water at a temperature of 140 degrees Fahrenheit (°F) and return water temperature of 110°F.

Three primary heating water pumps (two operating to meet the load, with one on standby) would be used to deliver heated water to the heating coils throughout the building. An air separator, expansion tank, automatic chemical pot feeder, safety relief valve, and make-up water connection would be provided for the system.

One boiler and pump would be connected to emergency standby power.

The following provides a summary of the central plant heating system:

- Three (3) high-efficiency 4,000 MBH condensing boilers

- Three (3) 250 gallon per minute (GPM) heated water pumps for distribution throughout the building

Cooling System

The chiller plant would consist of two, 600-Ton, water-cooled electric centrifugal chillers with variable speed compressors. The chilled water system would be designed for a supply water temperature of 42°F and return water temperature of 57°F.

Three primary chilled water pumps (two operating to meet the load, and one on standby) would be used to deliver chilled water to the building. An air separator, expansion tank, chemical pot feeder, safety relief valve, and make-up water connection would be provided for the system.

The cooling towers would be located outside of the chiller plant within an architectural screening enclosure. The cooling towers would be provided with stainless steel sumps and variable speed fans. The cooling towers would be piped into the central plant where three condenser water pumps (two operating to meet the load, with one on standby) would be used to circulate the water through the chillers. A side-stream chemical water treatment system would be provided with this system.

The following provides a summary of the central plant cooling system:

- Two (2) 600-Ton, water-cooled chillers
- Three (3) 960 GPM chilled water pumps for distribution throughout the building
- Two (2) 1,800 GPM crossflow cooling towers
- Three (3) 1,800 GPM condenser water pumps

2.3.3 Architectural Design

The proposed building, which is approximately 83'-10" tall, is a six-story structure comprised of a four-story primarily curtain-wall glassy building, that sits over two-levels of parking structure. The curtain wall system that comprises the upper four stories of the building consists of a mixture of glare-inhibiting vision glass and corresponding grey spandrel panels[5] for the non-vision areas. The glassy portion of the curtain wall system would be distinguished by raised mullion caps.[6] The eastern and southern facades (which are primarily freeway facing) would exhibit a greater amount of floor to ceiling vision glass and would introduce raised vertical mullions along the stepped façade. The southeast corner of the upper floors would introduce a fritted glass pattern, which would serve as an artistic element of the building (see more on the artistic element, below).

The northern and western facades introduce more spandrel panels and less vision glass within the same curtain wall system reducing the amount of internal light from the building along the "neighborhood" facades. These two facades would also incorporate automated window shades that descend during the evening and nighttime hours. The overall scale of these two facades have been visually broken down into smaller vertical sections. These sections are distinguished by a grey metal trim element, that helps define the raised panels, and a raised horizontal mullion cap in other zones.

The sixth story of the western façade would be stepped back into the footprint of the building, and the exterior space accommodated by moving the wall back would provide an outdoor, planted terrace that could be accessed from the sixth level. The sixth floor would also feature a wood-appearing awning / architectural features that would differentiate it from the lower floors of

[5] Spandrel panels are the area of a curtain wall or screen located between the vision areas of windows, which conceal structural columns, floor slabs, and sheer walls.
[6] Mullion caps are raised bars that run between windowpanes, and can serve as a trim for the window.

occupied building space. The northern façade of the building would feature raised horizontal mullions in the middle of the façade, directly over the main lobby / entrance of the building. See Figure 6 – Visual Renderings from Off-site Locations, for visual renderings of the proposed structure from off-site locations.

The project proposes to use Guardian Glass with a SNX 51/23 coating (14% exterior visual reflectance), and a glass fritz pattern on the southeast corner of the building (RMW 2021; Sheet A3.1.1). Additionally, Mitigation Measure BIO-1 would require the project to reduce the potential for birds hitting the reflective glass by incorporating the use of glazing or window coatings/markings that reduce bird strike hazard caused by transparency, reflectance, black hole or passage effect, etc., such as Guardian Bird1st etch glass or similar.

The first two levels of the building would primarily be comprised of the above grade parking structure and the building's main lobby. The above grade parking that would primarily comprise the first two levels of the building are generally characterized by vertical, off-white square concrete columns, and the concrete structure of parking garage. The parking garage would generally be left open to the environment aside from integrated cable railings that would extend around the perimeter of the building. The building's entrance to the main lobby would be located in the northwest corner of the building, the portion of the building closest to the driveway that connects the majority of the project site to Industrial Road. A drop off area would be located adjacent to the main lobby and characterized by a different, lighter style of paving than the asphalt that comprises the other driveways and drive isles. Metal slats colored in a wood-like tone would be located on the northwest corner of the building and run vertically, providing screening for the lobby and parking behind it. The roof of the entryway would also feature materials with a wood-like finish. The main lobby itself would feature floor to roof glass panels. The portion of the building immediately northeast of the main lobby would have a partial partition (i.e., not entirely reaching up to be top of the second level) made of grey panels laid out in an offset pattern. Utility rooms would be present in the northeastern portion of the building, which would be partitioned off to provide security for the utility (e.g., electrical, delivery, trash, etc.) rooms, and the portion of the garage in proximity of the southern stairwell.

The Applicant is proposing a fritz pattern for the windows along the southeastern corner of the building. This design element would be backlit from the stairwell and open office behind, and would serve as a public art element. See Figure 7 – Visual Renderings from On-site and Adjacent Locations, for visual renderings of the proposed structure from on-site locations and locations immediately adjacent to the project site.

The project proposes to include illuminated signage on the northern, southern, and eastern facades of the building, as well as a monument sign on Industrial Road at street level. The signage placed on the building facades would be located on the sixth floor. No signage is proposed for the western side of the building that is oriented to the neighborhood to the west.

2.3.4 Screening and Landscaping

Existing Screening and Landscaping in the Immediate Vicinity of the Project Site

The project site is currently screened on its eastern and southern sides by off-site trees present in the Caltrans right-of-way. The western side of the project site is also screened by the In-N-Out fast-food restaurant, and sparsely space trees north of the site on the Sutter Health property also provide some screening on the northern side of the project site. These existing off-site features would generally remain under implementation of the project and continue to provide screening of the project site from offsite locations.

Proposed On-site Screening and Landscaping

The proposed project would incorporate landscaping and fences around the project site to provide additional screening and privacy. Evergreen (Pine) trees would be planted along the northern and southern portions of the site. The northern half of the western property line would feature a green, eight-foot-tall privacy fence. The southern half of the western property line would feature a six-foot-tall privacy fence. Evergreen (English Laurel) trees would also be planted along the majority of the eight-foot-tall privacy fence. Two California Sycamore trees would be planted along the southern side of the project driveway from Industrial Road; one would be located near where the driveway ties into Industrial Road and the other where the main driveway would transition to the on-site southern drive isle present along the building's western façade. Grasses and shrubs would be planted along the perimeter of the site and around the building. A grass / shrub island would be located on the northwestern side of the building, between the drop-off area and the on-site drive isle that runs along the northern façade of the building. The sixth-floor terrace on western side of the building would feature three-and-a-half foot prefabricated planters. The prefabricated planters would include drought tolerant grasses, succulents, and shrubs.

Please see Figure 8 – Ground-Floor Landscape Plan, and Figure 9 – Roof Terrace Landscape Plan, for the project's planting plan and a visual depiction of where the privacy walls and fences would be constructed.

Proposed Off-site Screening and Landscaping

The Applicant is proposing to install new street trees on the west side of Industrial Road, and landscaping along the proposed pedestrian path that would connect the project site to the Holly Street / Industrial Road intersection. The Applicant would also landscape the Caltrans's property at the corner of Holly Street / Industrial Road. See Figure 10 – Proposed Industrial Road / Holly Street Intersection Improvements.

Building Window Screening

The proposed building would feature automated roller shades for the windows that would descend during the evening and nighttime hours and roll back up in the morning hours. See Section 3.1.3 for a detailed discussion of the roller shades proposed and design specification required by mitigation.

2.3.5 Site Access, Parking, and Circulation

The project site would continue to be accessed via the Industrial Road driveway that runs between the In-N-Out and Sutter Health properties. The driveway from Industrial Road would run in an east-west direction and connect to on-site drive isles. One of the isles would continue in an east-west direction adjacent to the building's northern façade, toward the generator / yard equipment storage area, before turning to the south where it would parallel the building's eastern façade. The other drive isle accessible from the Industrial Road driveway would parallel the building's western façade before turning east where it would form a loop around the building. Access to ground-level parking would be provided by three drive isles that run in a north-south orientation and connect to the drive isle on the southern end of the site. Vehicular access to ground level parking would also be provided at one location on the northern end of the building, immediately west of the utility rooms. Vertical access to below-grade parking and the second level of parking would be provided via a ramp that would be constructed in the easternmost parking drive isle.

Pedestrian access to the site and building would be provided from Industrial Road via a sidewalk that parallels the Industrial Road driveway, adjacent to the In-N-Out property, and possibly on the southern side of the site via the proposed pedestrian pathway that would

traverse the Caltrans right-of-way and connect the site to the Holly Street / Industrial Road intersection. The pathway would be six-feet wide and consist of a bridge (along the eastern portion of a pathway) and concrete walkway (along the western portion of the pathway).

Two crosswalks would be provided for pedestrians on the interior of the site, providing access across the site's internal north-south drive isle west of the building and across the western portion of the vehicular drop-off area, adjacent to the building's main entrance.

The proposed project would provide approximately 458 vehicular parking spaces with nine of those spaces being designated Americans with Disabilities Act (ADA) accessible. Approximately 126 parking spaces would be provided on the second (bottommost) floor of the subterranean parking garage, 124 spaces would be provided on the first floor of the subterranean parking garage, 96 spaces would be provided on the ground floor, and 112 spaces would be provided on the second story of the parking garage. Approximately 45 of the spaces provided would be for electric vehicles (installed with Level 2 charging stations), and four of the spaces would be for motorcycles.

Approximately 88 bicycle parking spaces would be provided by the project, including 44 long-term spaces in the bike room located at ground level on the eastern side of the building.

Access to the building would be provided at three locations – through the main lobby, which would have elevators and a stairwell; through the southern portion of the building, closest to the pedestrian / bicycle path; and another entrance in the northeastern corner of the building in the same area as the utility rooms. The elevator in the northeastern corner of building is envisioned as being used primarily for freight purposes.

2.3.6 Utilities

The project would be served by the existing utility infrastructure on site that tie into Industrial Road; however, onsite improvements would be required to support the proposed structure. Utilities at the site would include potable water service, sanitary sewer service, natural gas and electricity, and stormwater management. The following summarizes the utility providers for the project and improvements that would need to be made to facilitate the project. See Figure 11 – Utilities Plan for the proposed project's utility infrastructure and connections.

Water Supply

The Mid-Peninsula Water District provides water service to the City of San Carlos and would provide potable water to the project. Implementation of the proposed project would require the installation / improvements to the water connections at and in proximity of the site:

- Extend 12" water main on the west side of Industrial Road for the approximate length of the project's driveway.
- Install one 6" and one 2" water lines from the water main on Industrial Road into the project site. The 6" water line would be used for potable water service to the building, the 2" water line would be used for irrigation purposes.
- Install three new fire hydrants
    - One on the northern side of the driveway, where the driveway ties into Industrial Road
    - One on the southern side of the building, near the stairwell / elevator
    - One on the eastern side of the building, near the bike room

Sanitary Sewer Service

Sanitary sewer service would be provided by the City of San Carlos and treated at the Silicon Valley Clean Water Treatment Plant. Implementation of the proposed project would require the

installation of a new sanitary sewer manhole in the northbound lane of Industrial Road, adjacent to the project's driveway.

Electricity and Natural Gas Services – Including Emergency Backup Generator

Electricity and natural gas would be provided to the project site by Peninsula Clean Energy (PCE) and Pacific Gas and Electric (PG&E), respectively. PCE is San Mateo County's Community Choice Aggregate (CCA), a community-controlled, not-for-profit joint powers agency. PCE procures the sources of electricity throughout San Mateo County, while PG&E manages and maintains the electrical infrastructure used to supply consumers with electricity.

The project has been approved for its natural gas exemption request under the City's Reach Code, San Carlos Municipal Code Section 15.04.080, meaning that it would not be all electric.

The building would have an emergency standby power system that includes a radiator-cooled, diesel-fueled engine generator set rated at 277/480 Volts, 3- phase, 4-wire, 60 Hertz, and 1800 revolutions per minute. The generator set would be located in the service area, in the northeastern corner of the project site, within a weatherproof and acoustical enclosure. The generator would be equipped with a diesel particulate filter (DPF) and meet U.S. EPA Tier 4 emission standards. A signal from any automatic transfer switch would start the engine and supply power to the emergency distribution system in the event of failure of the normal power source. The generator would be automatically run for a 15-minute period twice a month. The fuel storage would be a sub-base mounted, dual-wall tank. The fuel capacity would allow for a minimum of 12 hours of runtime during a life safety event. Dedicated transfer switches would be required for the three classes of the generator power system as required by code. A dedicated emergency electrical room to house the automatic transfer switches and emergency distribution equipment would be located on the ground floor of the building. Electrical lines from the generator to the emergency distribution would be located underground.

Stormwater Management

The project is required to comply with San Mateo County Storm Water Pollution Prevention Program (SWPPP), C.6 provisions – Construction Stormwater best management practices – and the City of San Carlos' existing regulatory requirements, including Chapter 13.14, Stormwater Management and Discharge Control, which is designed to reduce pollutants in stormwater discharges to the maximum extent practicable. A project-specific SWPPP would be prepared to ensure compliance with stormwater runoff best management practices during construction. To meet C.3 requirements, stormwater run-off from the site would be directed to a series of drainage management areas/bioretention swales that allow for the cleansing and infiltration of stormwater before draining to the City's storm drain system.

The project would feature planter areas (for stormwater treatment) primarily on the north side of the building, but also on the eastern, southern, and western project site perimeters (see Figure 12 – Stormwater Control Plan). A drain line along the project's western and southern sides would take the filtered water from the planter areas and discharge it to the open drainage ditches along the project's southern boundary. The construction of the new proposed storm drain outfall would require permits from regulatory agencies (see Section 3.4.3).

As noted previously, the existing project site is entirely hardscaped. Implementation of the proposed project would increase the amount of pervious area on the site by approximately 7,983 square feet.

The project would also require the installation of 10" PVC pipe along the northern side of the project site, as well as a series of five, new, storm drain manholes on the interior of the site that generally parallel the building's western façade.

2.3.7 Project Construction

Construction of the proposed project is anticipated to commence in early-to-mid 2023 and last approximately 20 months based on information provided by the Applicant. Construction activities would generally entail demolition of the existing, approximately 55,000 square foot self-storage facility, grading and excavation of the underground parking structure (including off-haul of 49,600 cubic yards of fill and dewatering of the excavated area),[7] construction of building foundations and the concrete parking levels, construction of the upper-levels offices/laboratories, and interior and finishing work (e.g., architectural coatings and landscaping).

It is anticipated that the proposed project's construction phases would take the following amounts of time: [8]

1. Demolition: 1 Month
2. Grading and Excavation: 4 Months
3. Foundation Construction and Concrete Parking Levels: 6 Months
4. Construction of Upper-Level Offices / Laboratories: 3 Months
5. Building Interior / Finishing: 6 Months

The project Applicant anticipates construction would require approximately 12 dewatering wells/pumps to prevent the excavated area from becoming inundated with water. The pumped water would pass through a filtration system and then be discharged into the local storm drain system.

The building would be constructed on a mat slab foundation; therefore, no pile driving would be required during construction.

The proposed project would be subject to Chapter 8.05 of the City's Municipal Code, Recycling and Diversion of Construction and Demolition Debris, which provides requirements regarding the percentage of inert materials generated during demolitions activities that must be diverted from landfills.

2.3.8 Project Operation

The proposed development is anticipated to become operational by the end of Year 2024. No details regarding future tenants are known at this time; however, the proposed project is anticipated to employ approximately 685 people. The project would be subject to the City's Transportation Demand Management (TDM) ordinance. After compliance with TDM requirements, the project is anticipated to generate approximately 1,936 gross trips per day, or 1,856 net trips per day after accounting for trips that are already generated by the existing land use.

The Applicant intends to allow parking during non-business hours (i.e., after 6:00 PM Monday through Friday, as well as Saturdays and Sundays) to patrons of the Hotel Indigo for events held at that site. This additional parking provided at the 405 Industrial Road project site is meant to help consolidate parking into a centralized location outside of the residential neighborhood. The pathway proposed between the project site and the Holly Street / Industrial Road

[7] As described in Section 3.10.1, one soil sample collected at the site exhibited a exhibited a chromium concentration of 56 mg/kg, a concentration that is approximately 10 times the respective soluble threshold limit concentration of 5 milligrams per liter. Therefore, soluble chromium testing would be required to determine the transportation and disposal classification of representative soil.
[8] Minor overlap of the construction phases listed are anticipated to occur.

intersection would help facilitate access between the 405 Industrial site parking and the proposed Hotel Indigo.

2.4 PROJECT ACTIVITIES

The proposed project would consist of:

- Demolishing the existing, approximately 55,000 square foot self-storage facility on site;
- Excavating and off-hauling approximately 49,600 cubic yards of soil;
- Installing new utility connections to the project site from Industrial Road;
- Construction of a new, approximately 411,673 square foot commercial / life science building;
- Installation of bioretention water treatment areas; and
- Landscaping and installation of lighting.

2.5 COMMUNITY BENEFITS

The proposed project would provide a financial community benefit contribution. The exact usage of funds will be determined by the City Council and may include Laureola Park improvements, acquisition of future parkland from the high-school district, traffic improvements project, and off-site infrastructure improvements.

2.6 CITY CONDITIONS OF APPROVAL

Table 2-2 lists the Conditions of Approval that would be applied to the project that help avoid or reduce potential project impacts.

Table 2-2: Standard Specifications Applicable to the Project

Resource Area/Topic	Condition of Approval
Aesthetics	The design and materials of the building shall be in substantial compliance with the plans prepared by RMW Architecture and Interiors, date-stamped, consisting of (XX) sheets, and as presented to and approved by the Planning Commission on _____. Any changes determined to be substantive by Planning Staff shall require review and approval by the Planning Commission.
Aesthetics / Land Use	This project will require a building permit. Construction of this project shall be in strict conformance with the plans approved by the Planning Commission on. If the Building Division's set of drawings, or other subsequent revisions, differs substantially as determined by Planning Staff from the approved drawings, the proposal shall require re-review and approval by the Planning Commission prior to changes being made in the field.
Aesthetics	The colors and materials of the structure and improvements shall be in substantial compliance with those presented and described within the application materials. Any changes determined to be significant as determined by the Principal Planner shall be reviewed and approved by the Planning Commission.
Aesthetics	New signs are subject to compliance with San Carlos Municipal Code Chapter 18.22. No signs have yet been approved as part of this project. Any signs that are visible from U.S. Highway 101 shall require approval by the Planning Commission.

Resource Area/Topic	Condition of Approval
Aesthetics	A final exterior lighting plan with specifications in conformance with the approved plans is subject to review and approval by the Planning Division prior to Building Permit issuance.
Aesthetics	The property owner shall be responsible for the maintenance of all the on-site landscaping within the project and shall maintain the landscape in proper growing condition for the life of the project to the satisfaction of the Community Development Director.
Aesthetics	All new Fire Department Connections proposed shall be as unobtrusive as possible. All fire water plumbing shall be aesthetically placed behind a design element to be screened to the extent feasible. Final design and placement shall be subject to Planning Division review and approval prior to Building Permit issuance.
Land Use / Utilities	The property owner shall disclose public or private easements on their property and shall graphically represent such easements on plans submitted to the Building Division for property improvements. Other than those improvements as shown on the approved plans, the property owners shall not build structures or add impervious surfaces over sewer, storm drains, or public utility easements without written permission from the Director of Public Works.
Transportation	The Transportation Demand Management Plan, prepared by TDM Specialists, Inc, shall be implemented for the life of the project as presented to and approved by the Planning Commission on _____. As new more efficient and effective TDM measures become available to reduce vehicle trips, these measures may be included or substituted to maintain the trip reduction levels described in the Plan. Any such substitutions shall be to the satisfaction of the Community Development Director. Any changes determined to be substantive or inconsistent with the TDM Plan by the Community Development Director shall require review and approval by the Planning Commission.
Transportation	TDM implementation shall commence once occupancy of the building arrives at 70% (based on square-footage), or a year from the issuance of the Certificate of Occupancy, whichever is first. A report, documenting the TDM activities undertaken and their results, shall be submitted to the Director annually at the responsibility of the applicant. A five-year review shall evaluate the overall effectiveness of all of the TDM activities and may suggest new or modified activities or substitute activities to meet the program's objectives, per the Director's review and approval. The Director may impose reasonable changes to assure the program's objectives will be met. The owner and/or future tenants shall be required to pay for the costs associated with the City review of the annual and five-year review reports. The TDM measure of providing transit passes requires tenants to provide the transit passes to all employees.

Resource Area/Topic	Condition of Approval
Transportation	If a Transportation Management Association (TMA) is established in San Carlos that can serve the project site, the property owner shall participate in the TMA. The level of financial contribution of the participants in the TMA shall be based on an equitable measure such as square footage (or similar metric) as agreed upon by the participants and the City.
Transportation	The owner and/or future tenants shall be responsible for supplying Planning Staff with the contact information for the Designated TDM Contact person.
Land Use / Transportation	Applicant shall ensure there is sufficient sight distance at the Industrial Road driveway per San Carlos Municipal Code. The Applicant shall provide all proposed planting heights and distances from the driveway to ensure compliance with San Carlos Municipal Code at the time of Building Permit submittal.
Noise	Construction Activities shall comply with the City's noise ordinance.
Hydrology	Whenever feasible, project shall incorporate landscaping that minimizes irrigation and runoff, promotes surface infiltration, minimizes the use of pesticides and fertilizers, and incorporates other appropriate sustainable landscaping practices such as Bay-Friendly Landscaping.
Biology	To ensure that project activities comply with the Migratory Bird Treaty Act and California Fish and Game Code, the following measures shall be implemented: a. To the extent feasible, construction activities should be scheduled to avoid the nesting season. If construction activities are scheduled to take place outside the nesting season, all impacts to nesting birds protected under the MBTA and California Fish and Game Code will be avoided. The nesting season for most birds in San Carlos extends from February 1 through August 31. b. If it is not possible to schedule construction activities between September 1 and January 31, then pre-construction surveys for nesting birds should be conducted by a qualified biologist to ensure that no nests will be disturbed during project implementation. These surveys shall be conducted no more than seven days prior to the initiation of construction activities. During this survey, the biologist will inspect all trees and other potential nesting habitats (e.g., shrubs, ruderal grasslands, and buildings) in and immediately adjacent to the impact areas for nests. If an active nest is found sufficiently close to work areas to be disturbed by these activities, the biologist will determine the extent of a construction-free buffer zone to be established around the nest (typically 300 ft for raptors and 100 ft for other species, as recommended by the California Department of Fish and Wildlife), to ensure that no nests of species protected by the Migratory Bird Treaty Act and

Resource Area/Topic	Condition of Approval
	California Fish and Game Code will be disturbed during project implementation. c. If construction activities will not be initiated until after the start of the nesting season, all potential nesting substrates (e.g., bushes, trees, grasses, and other vegetation) that are scheduled to be removed by the Project be removed prior to the start of the nesting season (e.g., prior to February 1). This will preclude the initiation of nests in this vegetation, and prevent the potential delay of the Project due to the presence of active nests in these substrates.
Greenhouse Gas Emissions / Energy / Utilities	Review of the plans was based on the 2019 California Building, Mechanical, Plumbing, and Electrical Codes (i.e., 2015 IBC, UMC, UPC, and 2014 NEC, as amended by the State of California), 2019 California Green Building Standards Code, and 2019 California Energy Code. Submittal of plans for building permit will be subject to the building codes in effect at the time of submittal
Greenhouse Gas Emissions / Energy / Utilities	The applicant shall comply with all requirements of the Building Division, including, but not limited to the following: a. Complete architectural, mechanical, electrical, plumbing, and T-24 (energy) plans required. b. Show compliance with all CALGreen requirements. c. At time of construction, job sign shall be provided that includes contact information of contractor and posted construction work hours per City Ordinance.
Air Quality	The project shall implement BAAQMD's Construction Fugitive Dust Best Management Practices and shall provide notes on the plans submitted to the Building Division for permits.
Hydrology	This project is located within FEMA flood zone AE, and shall comply with all applicable requirements of San Carlos Municipal Code Section 15.56.
Hydrology	To comply with the City's policy, the applicant's civil engineer must submit a drainage report, hydrologic study, hydraulic calculations, and drainage improvement plans. Drainage systems that are designed to rely on pumps are not allowed. Storm water shall, under no circumstances, be introduced into the sanitary sewage system, but shall be confined to surface and subsurface drainage facilities provided. Applicant must provide pre-improvement runoff and post-improvement runoff calculations. Post improvement runoff totals cannot exceed pre-improvement runoff totals.

2.7 REQUIRED APPROVALS

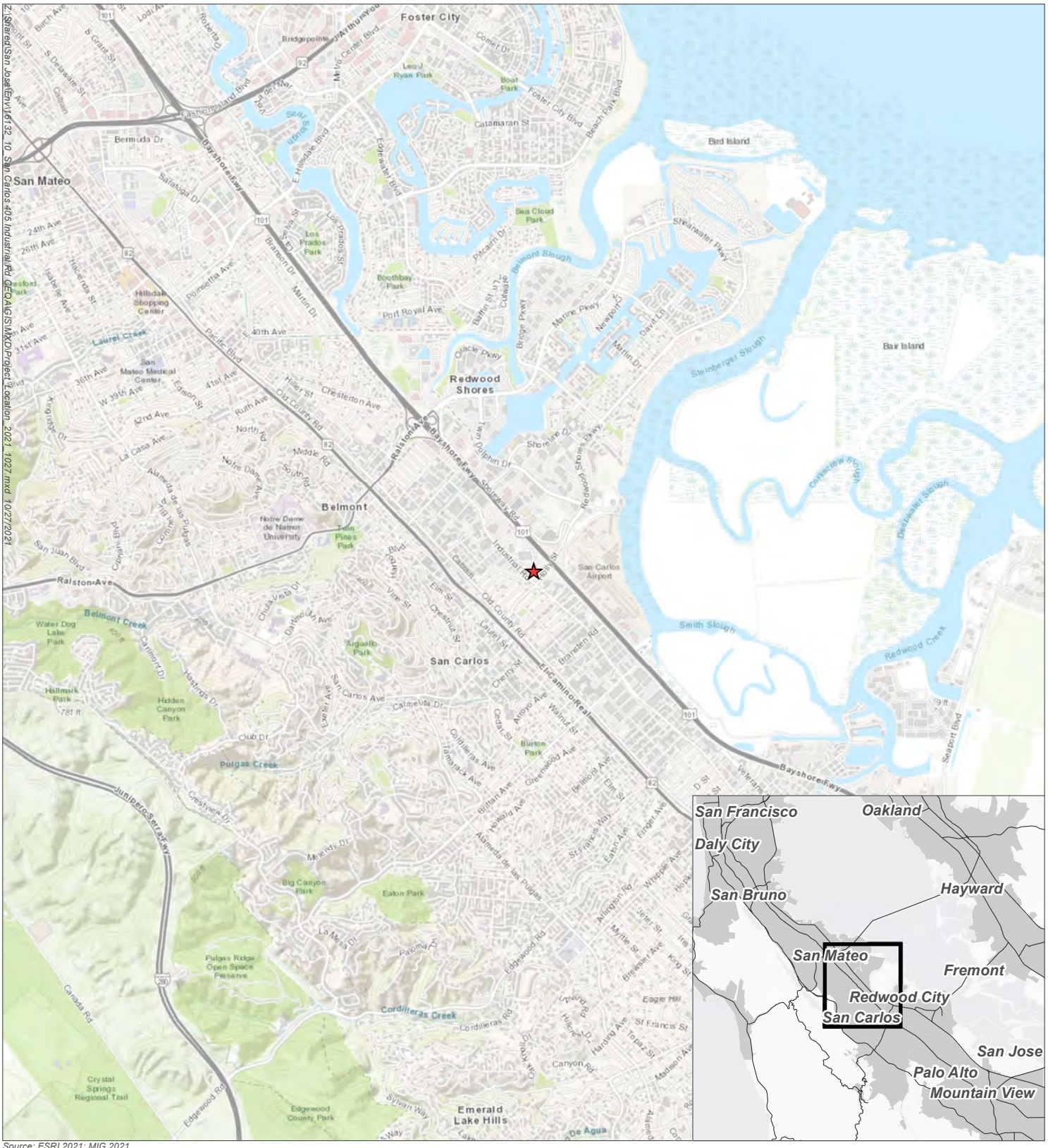
Development of the project would require the following approvals from the City of San Carlos:

- Design Review
- Planned Development Zoning and Planned Development Permit
- Transportation Demand Management Plan
- Grading and Dirt Haul
- City Encroachment Permit

The project is required to comply with C.6 provisions – Construction Stormwater best management practices – and the City of San Carlos' existing regulatory requirements, including Chapter 13.14, Stormwater Management and Discharge Control, which is designed to reduce pollutants in stormwater discharges to the maximum extent practicable.

The project would also require the following permits from other regulatory agencies for construction activities, including that of the potential pedestrian bridge that would be located within Caltrans right-of-way:

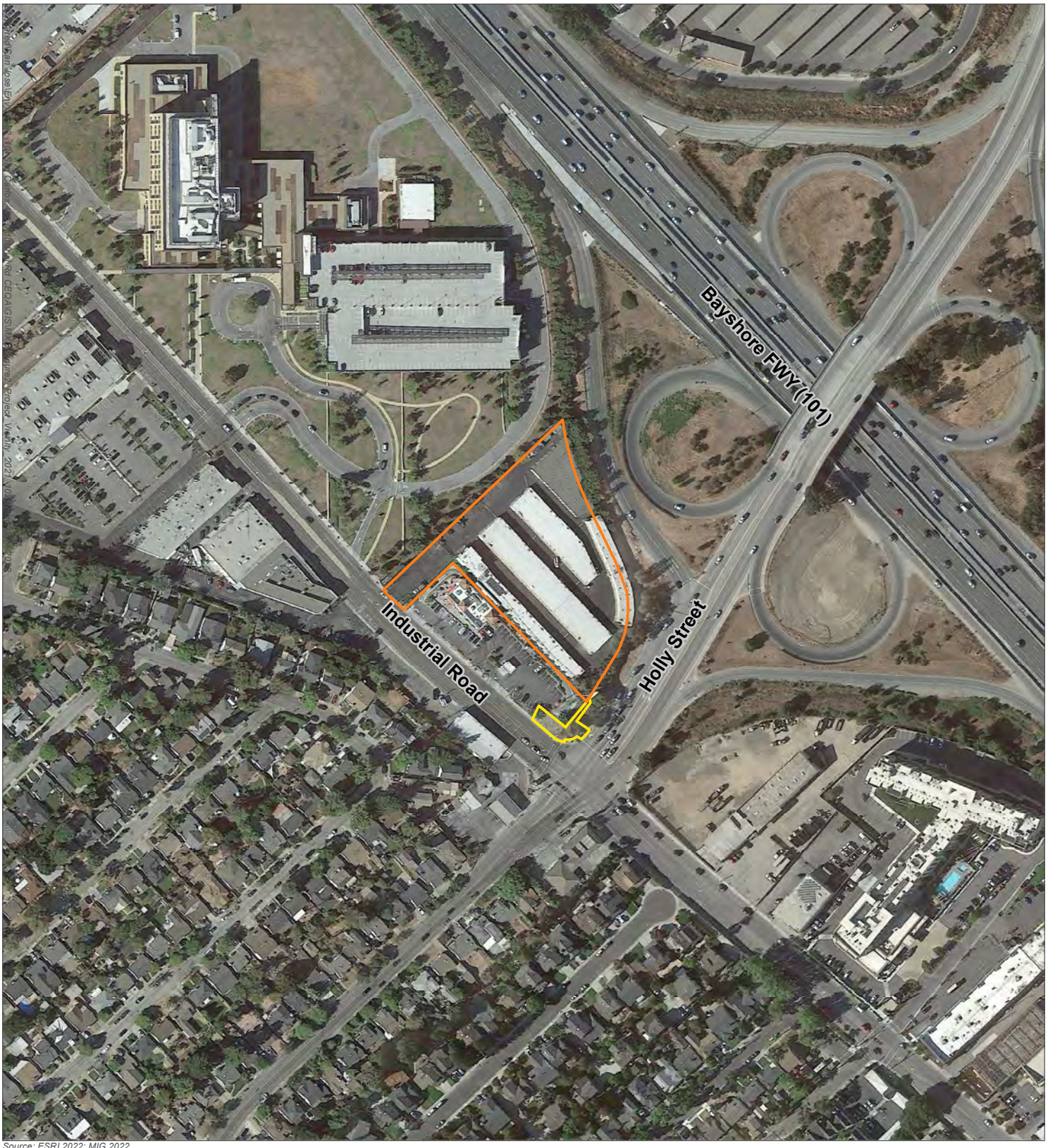
- Caltrans Encroachment Permit
- Bay Area Air Quality Management District Permit to Operate
- 1602 Lake and Streambed Alteration Agreement from California Department of Fish and Wildlife
- General Construction Permit from the Regional Water Quality Control Board
- 401 Water Quality Certification from the Regional Water Quality Control Board
- 404 Permit from United States Army Core of Engineers



Z:\Shared\San Jose\Env\16132.10_San Carlos 405 Industrial Rd GEO\AG\GIS\MXD\Project_Location_2021_1027.mxd 10/27/2021

Figure 1 Regional Location

405 Industrial Road Life Science Project



Source: ESRI 2022; MIG 2022

0 255 510 1,020 Feet

Project Boundary

Off-site Pedestrian Improvements in Caltrans Right-of-Way

Figure 2 Project Vicinity

405 Industrial Road Life Science Project

MIG

Figure 3 – Existing Site Photos

Top – View of the project site from the Industrial Road driveway (photo taken west of the project site looking east).

Bottom – View of the project site's western property line. Single story building shown in back (i.e., not In-N-Out) is the storage building that is constructed along the project site's western boundary (photo taken west of the project site looking east).

Figure 3 – Existing Site Photos (Continued)

Top – View of the project site from the southwestern corner of the Industrial Road / Holly Street intersection. The project site is primarily screened by trees fronting Holly Street (photo taken south of project site looking north).

Bottom – View of project site from Holly Street Highway 101 overpass. Grey building in foreground comprises the southeastern building on the site (photo taken east of project site looking west).

Figure 3 – Existing Site Photos (Continued)

Top – View of the project site from the Sutter Health property north of the site, looking south. Bottom – View of the Caltrans right-of-way and the drainage on the southwest corner of the site (i.e., where the water is pooled) (photo taken looking west).

Figure 3 – Existing Site Photos (Continued)

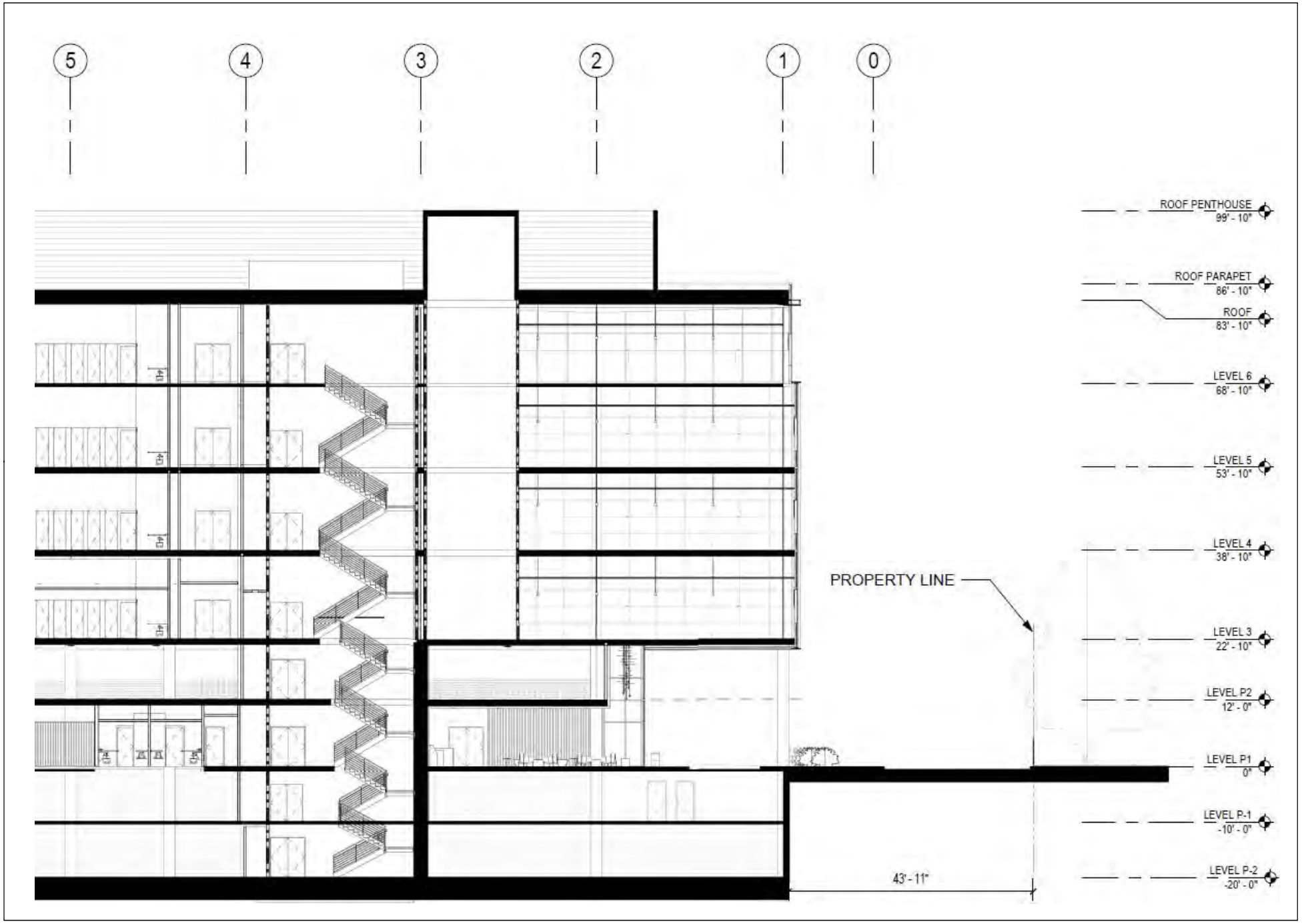
Top – View of the onsite drainage (see drainage from site, left of the tree on the far side bank) and Caltrans right-of-way to the right of the tree (photo taken looking east-northeast).

Bottom – View of the Caltrans right-of-way and drainage south of the site and north of Holly Street (photo taken looking east).

Source: Menlo Equities 2022

Figure 4 Proposed Site Plan

405 Industrial Road Life Science Project



Source: RMW 2021, Modified by MIG 2022

Figure 5 Building Elevations

405 Industrial Road Life Science Project

Source: RMW 2021, Modified by MIG 2022

Figure 6 Visual Renderings from Off-Site Locations

View from Industrial Road / Holly Street Intersection

View from Industrial Road Eastern Driveway

View of Main Entrance (Building's Northwest Corner)

View Looking West from Holly Street / SB 101 Offramp Intersection

Source: RMW 2021, Modified by MIG 2022

Figure 7 Visual Renderings from On-site and Adjacent Locations

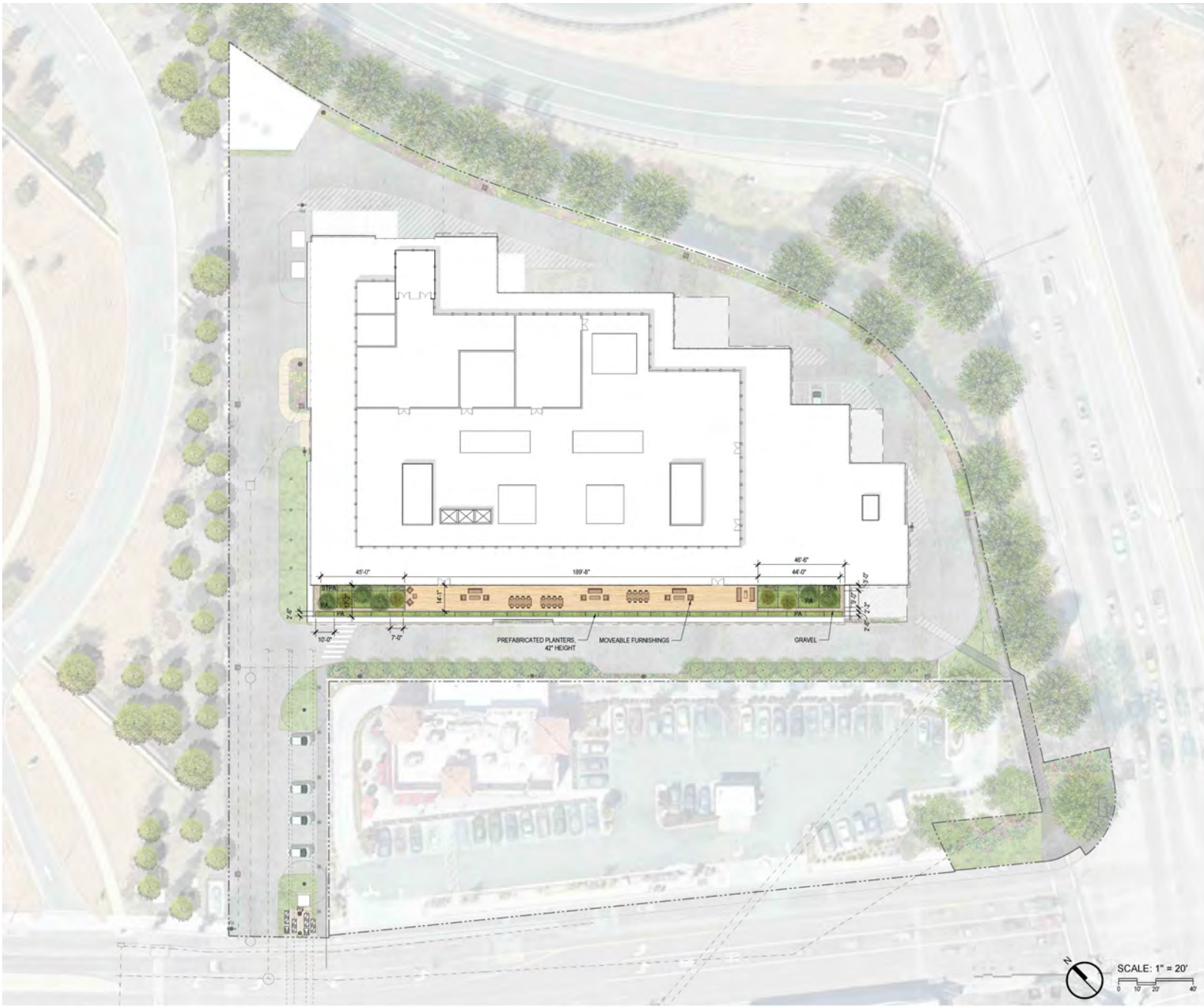
405 Industrial Road Life Science Project

MIG

Source: RMW 2021, Modified by MIG 2022

Figure 8 Ground-Floor Landscape Plan

405 Industrial Road Life Science Project



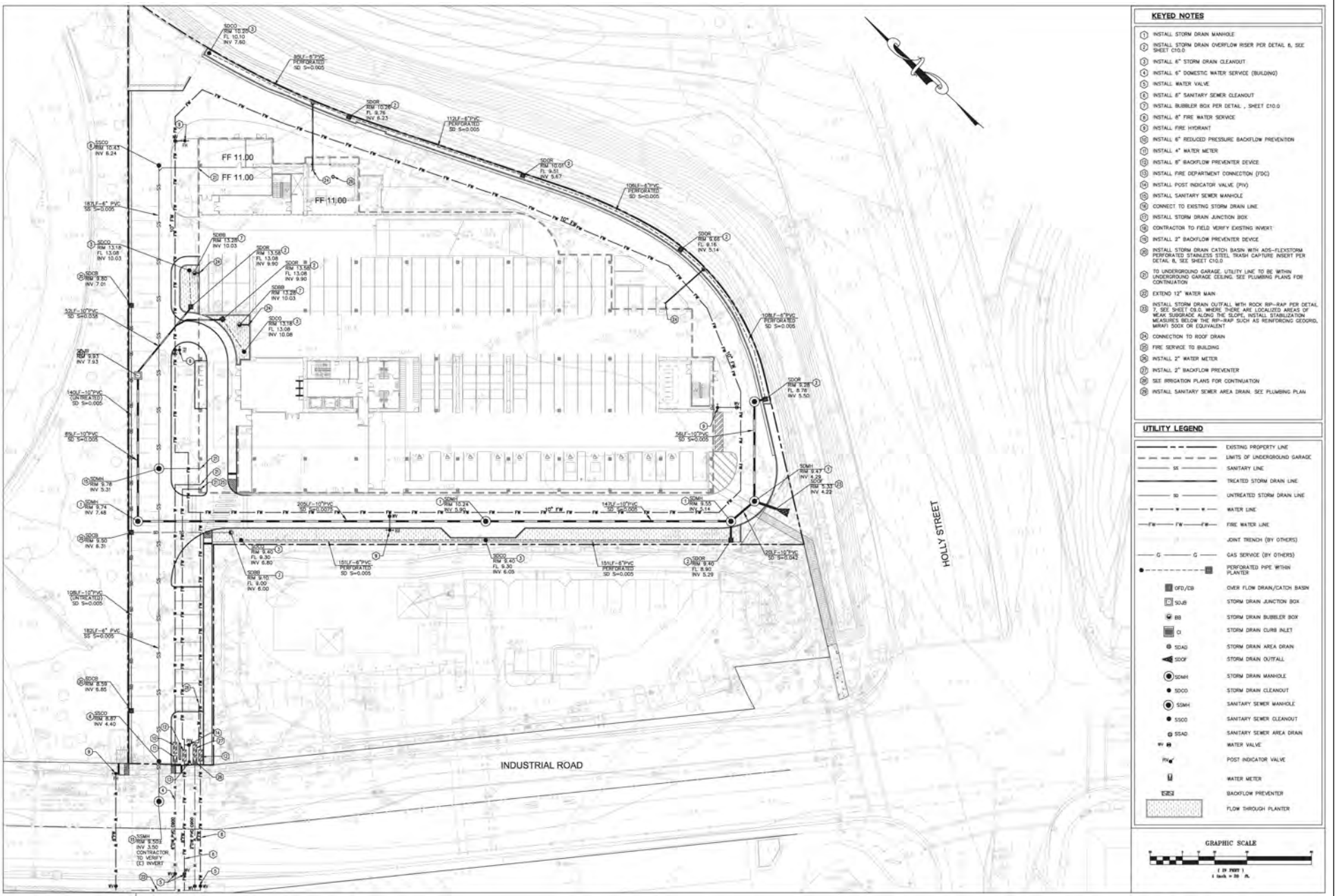
Source: RMW 2021, Modified by MIG 2022

Figure 9 Roof Terrace Landscape Plan

405 Industrial Road Life Science Project

Source: RMW 2021, Modified by MIG 2022

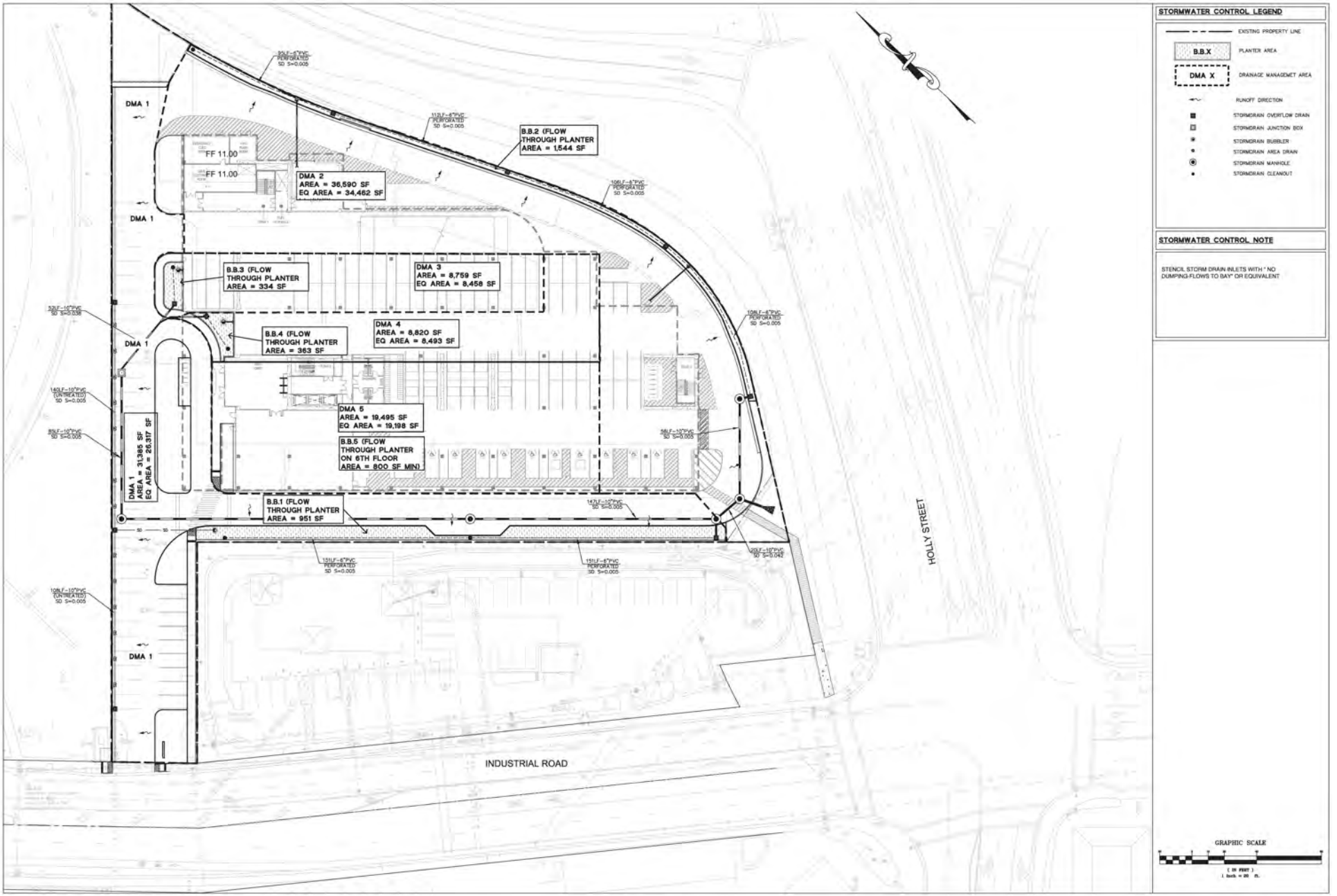
Figure 10 Proposed Industrial Road / Holly Street Intersection Improvements



Source: RMW 2021, Modified by MIG 2022

Figure 11 Utilities Plan

405 Industrial Road Life Science Project



Source: RMW 2021, Modified by MIG 2022

Figure 12 Stormwater Control Plan

405 Industrial Road Life Science Project

Chapter 3. Environmental Analysis and Findings

1. **Project Title:** 405 Industrial Road Life Science Project
2. **Lead Agency Name and Address:** City of San Carlos; 600 Elm Street, San Carlos, CA 94070
3. **Contact Person and Phone Number:** Lisa Costa Sanders, Principal Planner (650) 802-4207
4. **Project Location:** 405 Industrial Road, San Carlos, CA
5. **Project Sponsor's Name and Address:** Jane Vaughan, Menlo Equities, Inc., 2765 Sand Hill Road, Menlo Park, CA 94025
6. **General Plan Designation:** General Commercial/Industrial (GCI)
7. **Zoning:** General Commercial/Industrial (GCI)
8. **Description of the Project:** The proposed project consists of developing a new, approximately 411,673 square foot, six-story building with two levels of below-grade parking and two levels of above-/at-grade parking on a site that is currently developed with an approximately 55,000 square foot public self-storage facility comprised of five buildings. Of the approximately 411,673 square feet of building space, only approximately 205,273 square feet would be occupied for office / research space. The remaining 206,402 square feet of building space would be occupied by the garage area and other, non-occupiable building space. The Applicant is requesting rezoning the parcel from Landmark Commercial to a Planned Development zoning classification to exclude above-grade parking from the FAR calculation and exceed the 50-foot Landmark Commercial zoning height limit. The proposed FAR would be 1.95 if parking is excluded and 2.77 if parking is included. The proposed building would stand approximately 83 feet 10 inches tall, approximately 34 feet higher than the 50-foot zoning height limit. The proposed project would provide approximately 458 vehicular parking spaces with nine of those spaces being designated Americans with Disabilities Act (ADA) accessible. The proposed project is a speculative development with no known tenants at this time; however, once occupied, it is anticipated to provide employment for approximately 685 people.
9. **Surrounding Land Uses and Setting:** Adjacent land uses consist of medical facility and its associated parking garage to the north; a fast-food restaurant to the west and single-family residential dwelling units further beyond that, across Industrial Road; commercial / light industrial land uses to the south; and U.S Highway 101 to the east. The San Carlos Airport is located further east of the project site, across the U.S. Highway 101 freeway.
10. **Other Public Agencies Whose Approval is Required:** The project require a Caltrans Encroachment Permit for construction of pedestrian improvements within Caltrans right-of-way southwest of the site. The project may also require permits from CDFW (1602 Lake and Streambed Alteration Agreement), RWCB, and a 404 permit from USACE.
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.?** The City of San Carlos has not received any requests from a Native American tribe traditionally and culturally affiliated with the project area. Thus, no consultation has been conducted.

ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED

The environmental factors checked below would be potentially affected by this project, as indicated by the checklist on the following pages.

☒	Aesthetics	☐	Greenhouse Gas Emissions	☐	Public Services
☐	Agricultural and Forestry Resources	☐	Hazards and Hazardous Materials	☐	Recreation
☒	Air Quality	☐	Hydrology/Water Quality	☒	Transportation
☒	Biological Resources	☐	Land Use/Planning	☒	Tribal Cultural Resources
☒	Cultural Resources	☐	Mineral Resources	☐	Utilities/Service Systems
☐	Energy	☐	Noise	☐	Wildfire
☒	Geology/Soils	☐	Population/Housing	☒	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 EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed Project, nothing further is required.

Lisa Costa Sanders 8/8/22

Signature **Date**

Printed Name: Lisa Costa Sanders **Title:** Principal Planner

Agency: City of San Carlos

3.1 AESTHETICS

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
*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 points.) 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?	☐	☒	☐	☐
*Except as provided in Public Resources Code Section 21099				

3.1.1 Environmental Setting

Scenic Views

San Carlos has varied topography, which ranges from land at sea level in the eastern portion of the city to the hills in the western portion of the city that have elevations of up to 900 feet. The hillsides and ridgelines that comprise the city's diverse landscape provide a rich array of scenic resources and afford numerous vantage points from which scenic vistas can be enjoyed. Views of the surrounding hills, San Francisco Bay and the East Bay hills can be accessed in many areas west of Alameda de las Pulgas, including City parks and open space and existing residential neighborhoods (San Carlos 2009). The project site is a component of the views of San Francisco Bay from the San Carlos and Belmont hills.

From the lower portions of San Carlos, scenic views of the Santa Cruz Mountains to the southwest are present but limited due to the flat topography. Views of the mountain range are partially obstructed from the street-level view by urban development, mature trees, and intervening hillsides to the southwest.

The San Carlos General Plan does not identify any official scenic vistas. The nearest State scenic highway to the project site is Interstate 280 (I-280), approximately 2.7 miles west of the project site (Caltrans 2021). The project site is not visible from I-280.

Gateways to the City

Creating aesthetically pleasing gateways is an important component of land use planning and community design that contributes to a city's character and sense of place. Gateways are locations that announce to a visitor or resident that they are entering the city or a unique

neighborhood within the city. Features associated with gateways can include signs, structural elements such as towers or fences or walls, landscaping, architecturally significant buildings, and natural features such as a row of trees. Gateways in San Carlos have been classified into two categories: primary and secondary. Primary gateways are the major regional entry points into the city on roadways or transportation routes. Secondary gateways are more local entry points into the city from nearby cities including Belmont and Redwood City (San Carlos 2009).

The San Carlos General Plan identifies the Holly Street east of El Camino as a Primary Gateway and specifically mentions the Holly Street at U.S. Highway 101 and Industrial Road as the primary access route from Highway 101 to San Carlos and that high traffic volumes and a mixture of land uses, including residential, industrial, and commercial, do not effectively announce to visitors their entrance to San Carlos even though a small monument feature is installed (San Carlos 2009).

Visual Character of Site and Surrounding Area

The project site is located in a highly urbanized setting in the northeast portion of the City. Prominent visual features of the regional landscape are described below, along with the visual and aesthetic character of the project site.

The project site is located on the eastern side of Industrial Road and the western side Highway 101. Industrial Road is a six-lane roadway that runs in a north-south orientation. The project site is currently developed as a self-storage facility, with landscaping trees present along the eastern boundary of the site that fronts Holly Street and the Highway 101 off ramp at Holly Street. These trees are within Caltrans right-of-way. An unnamed, engineered, natural bottom channel runs eastern and southern boundaries of the project site.

The project site is bordered by a medical facility and its associated parking garage to the north; a fast-food restaurant to the west with single-family dwelling units further west of that, across Industrial Road; general commercial/industrial uses to the south; and Highway 101 to the east. The lot that contains the medical facility and parking garage to the north is surrounded by landscaped turf and trees; the parking garage is a mixed open-air, enclosed structure painted light gray and beige with black accents. The building immediately west of the project site (In-N-Out) at 445 Industrial Road is generally painted an off-white color and is characterized by red accent panels, terracotta shingle roofing, and patterned stone pillar.

The general commercial/industrial properties south of the project site are single-story buildings painted white with steel framing and have a façade of gray metal panels, floor to roof windows, and corrugated steel. The land use directly south of the project site (i.e., that is located at the southeast corner of the Industrial Road/Holly Street intersection) is being proposed for redevelopment as the Hotel Indigo. In addition to the land uses described above, several gas stations are located south of the project site across the Industrial Road/Holl Street intersection; one station is an A&A Gas and Food Mart painted white with blue and yellow accent panels and the second station is a 76 Station painted white with red and blue accent panels. See Figure 3 for photos of the existing project site and photos of the buildings north, west, and south of the project site.

Existing light sources on and near the site include exterior building lights, lights in the adjacent parking lot at 445 Industrial Avenue, and streetlights on Industrial Road, Holly Street, and the parking garage entrance roads to the north for the medical facility. The nearest streetlights are located along Industrial Road to the west and at the intersection of Industrial Road and Holly Street. There are no sources of substantial daytime glare near the project site; the exteriors of the buildings near the project site consist mostly of concrete and other, non-reflective materials. The commercial building located at 420 Industrial Road (northwest of the project site) may produce some daytime glare as its eastern façade (i.e., that which faces the project site) largely consists of windows and corrugated steel.

The nearest land uses sensitive to spill light are single-family residences located approximately 250 feet (0.05 miles) southwest of the project site on Fairfield Drive. The nearest travel lanes associated with Holly Street, the Holly Street off-ramp, and Industrial Road are approximately 40 feet east, 35 feet east, and 120 feet south of the project site, respectively. In addition, the San Carlos Airport is located approximately 1,160 feet (0.22 miles) northeast of the project site.

3.1.2 Regulatory Setting

City of San Carlos Zoning Ordinance

The City of San Carlos Zoning Ordinance, Title 18 of the San Carlos Municipal Code, contains text establishing districts for basic land uses including open space, public, residential, commercial, and industrial uses, and setting special regulations for design standards and other specific concerns. The City of San Carlos Zoning Ordinance also describes procedures for processing discretionary approvals.

The following sections of the San Carlos Zoning Ordinance may be applicable to the proposed project:

- Table 18.06.030 identifies the development standards for commercial districts, including the Landmark Commercial zoning designation. Among other standards, it establishes the following:
    - Maximum Height: 50 Feet
    - Minimum Setbacks
        - Front: 10 Feet
        - Interior Side: 0 Feet
        - Street Side: 10 Feet
        - Rear: 0 Feet
- Chapter 18.29 of the San Carlos Municipal Code establishes design review procedures to ensure that new development supports the General Plan's goal of creating a vibrant pedestrian- and transit-oriented core and distinctive neighborhoods and districts with a diversity of building types that provide continuity in scale and character with appropriate transitions, where needed. The specific purposes of the design review process are to:
    - Promote excellence in site planning and design and the harmonious appearance of buildings and sites;
    - Ensure that new and modified uses and development will be compatible with the existing and potential development of the surrounding area; and
    - Supplement other City regulations and standards in order to ensure control of aspects of design that are not otherwise addressed.
    - Section 18.29.060 provides the following design review criteria, which projects must satisfy to the extent that they are applicable:
        - The overall design of the project including its scale, massing, site plan, exterior design, and landscaping will enhance the appearance and features of the project site and surrounding natural and built environment.
        - The project design is appropriate to the function of the project and will provide an attractive and comfortable environment for occupants, visitors, and the general community.
        - Project details, materials, signage and landscaping are internally consistent, fully integrated with one another, and used in a manner that is visually consistent with the proposed architectural design.
        - The project has been designed to be compatible with neighboring development by avoiding big differences in building scale and character between developments on adjoining lots in the same zoning district and

providing a harmonious transition in scale and character between different districts.
    - The project contributes to the creation of an attractive and visually interesting built environment that includes a variety of building styles and designs with well-articulated structures that present varied building facades, roof lines, and building heights within a unifying context that encourages increased pedestrian activity and promotes compatibility among neighboring land uses within the same or different districts.
    - The design of streetscapes, including street trees, lighting, and pedestrian furniture, is consistent with the character of activity centers, commercial districts and nearby residential neighborhoods.
    - The proposed design is compatible with the historical or visual character of any area recognized by the City as having such unified character.
    - The project design preserves major public views and vistas from major public streets and open spaces and enhances them by providing areas to stroll, benches to rest and enjoy views, and similar amenities.
    - Parking areas are designed and developed to buffer surrounding land uses; complement pedestrian-oriented development; enhance the environmental quality of the site, including minimizing stormwater run-off and the heat-island effect; and achieve a safe, efficient, and harmonious development.
    - Lighting and lighting fixtures are designed to complement buildings, be of appropriate scale, provide adequate light over walkways and parking areas to create a sense of pedestrian safety, and avoid creating glare.
    - The proposed building design and landscaping supports public safety and security by allowing for surveillance of the street by people inside buildings and elsewhere on the site.
    - Landscaping is designed to be compatible with and enhance the architectural character and features of the buildings on site, and help relate the building to the surrounding landscape. Proposed planting materials avoid conflicts with views, lighting, infrastructure, utilities, and signage.
- Chapter 18.36 of the San Carlos Municipal Code establishes the procedures for establishing a Planned Development (PD) District to facilitate orderly development of larger sites in the City consistent with the general Plan, especially where a particular mix of uses or character is desired that can be best achieved through an integrated development plan.

San Carlos 2030 General Plan

The San Carlos 2030 General Plan was adopted in 2009. The following relevant aesthetics-related policies are from the General Plan's Land Use Element.

- **Policy LU-8.1:** Require all development to feature high quality design that enhances the visual character of San Carlos.
- **Policy LU-8.2:** Ensure that new development is sensitive to the character of adjacent structures and the immediate neighborhood.
- **Policy LU-8.3:** Encourage design features and amenities in new development and redevelopment, including, but not limited to:
    a. Interconnected street layout.
    b. Clustering of buildings.
    c. Landscaping on each lot.
    d. Visual buffers.

e. Facilitation of pedestrian activity.
f. Distinctiveness and variety in architectural design.

- **Policy LU-8.4:** Promote pedestrian-scaled design through site planning, building design, finish details and landscaping for all types of development by requiring height and locational transitions between buildings of varied levels that are sensitive to the interrelationships of surrounding uses and structures, especially residential.
- **Policy LU-8.5:** Optimize architectural quality by encouraging the use of quality materials, particularly as accents and authentic detailing, such as balconies and window trims.
- **Policy LU-8.6:** Encourage new commercial development to provide outdoor areas and landscaping and tree canopy to enhance the surroundings.
- **Policy LU-8.8:** Encourage design of convenient pedestrian walkways with shade and minimal tripping hazards, preferably with landscape buffers between roadways and walkways.
- **Policy LU-8.9:** Encourage the design of attractive outdoor pedestrian spaces that encourage impromptu public gathering places with features such as plazas, interior walkways and paseos, ornamental gates, trellises, lighting, trees and landscaping, seating and fountains.
- **Policy LU-8.10:** On all sides of buildings, require the incorporation of quality architectural design elements for all building façades and stepping back upper floors in order to reduce bulk and mass and to break up monotonous wall lines.
- **Policy LU-8.11:** Discourage abrupt changes in building scale. A gradual transition between low-rise to mid-rise buildings should be achieved by using the low-rise buildings at the edge of the project site. Consider the relationship of buildings to the street, to one another and to adjacent structures and land uses, especially single-family residential.
- **Policy LU-8.13:** Require parking areas associated with development to be located and designed to minimize visual impact to the greatest extent feasible. This may include locating parking behind buildings street frontage, below grade, or screening through the use of natural landscaping.
- **Policy LU-8.14:** Encourage construction of parking areas with permeable materials where appropriate.
- **Policy LU-8.15:** Require the undergrounding of all utilities, or a deferred improvement agreement, in conjunction with new construction and encourage the undergrounding of existing utilities where feasible.
- **Policy LU-8.16:** Require high quality signage through design, use of materials and colors compatible with and complementary to the architectural character of the building(s) and surrounding.
- **Policy LU-8.17:** Require telecommunications and utility facilities to be sensitively placed, shielded, screened or lessened from view to the greatest extent possible through design review.
- **Policy LU-8.18:** Encourage “green building” practices in new development and redevelopment, such as those that make a building more energy efficient and reduces its effect on human health and the environment through better siting, design, construction, maintenance and operation.
- **Policy LU-8.20:** Require all new residential multi- family residential, commercial and industrial projects subject to design review by the appropriate decision- making body for compliance with site planning, architecture, signing and landscaping criteria prior to approval.
- **Policy LU-9.9:** Encourage the design of development to minimize the obstruction of significant views of the San Francisco Bay, the western hills, or other significant natural vistas to the greatest extent possible.

- **Policy LU-11.1:** Require high quality design for buildings at visually significant locations in gateway areas.
- **Policy LU-11.2:** Encourage design features, such as landscaping, art and displays in gateway areas that are welcoming, attractive and contribute to a unique sense of place.
- **Policy LU-11.3:** Encourage distinctive architectural features, such as tower elements or a plaza at building entry, for buildings located at visually significant locations within gateway areas.
- **Policy LU-11.9:** Ensure that new development on the Landmark sites at the northeast and southeast corners of Holly Street and Industrial Road function as the primary gateway features for the Holly Street Gateway area. Site planning, building treatments, pedestrian improvements and landscape features shall exhibit exceptional design and
- respect integrity of adjacent uses including nearby residential properties.

East Side Innovation District Vision Plan

The East Side Innovation District Vision Plan (2021) addresses future changes in development patterns and influx of jobs coming from market-driven biotech and life science industries. The Vision Plan sets forth clear goals and principles written to achieve the desired character for San Carlos's East Side Innovation District. The following goals may be relevant in contextualizing the aesthetics of the proposed project.

- **GOAL** Convert Industrial Road into a functional green boulevard that provides a distinct identity, creates a sense of place, and weaves nature into the District.

  A. Establish a safe, comfortable, and welcoming public realm on Industrial Road.

  i. Provide consistent and generous treelined sidewalks along Industrial Road, with a double row of street trees along the east side of the road.

  ii. Consistent, 10-foot, tree-lined sidewalks, in certain segments of the road may require setbacks of new development.

  iii. Incorporate street furniture within the "priority branding zone" to invite people to pause, linger, and socialize along Industrial Road.

  iv. Embed green infrastructure for stormwater treatment and mimic natural systems by cleaning stormwater before allowing it to flow into Pulgas Creek and the storm drain.

  B. Brand Industrial Road to display the unique identity of the Innovation District.

  i. Coordinate signage, banners, lighting, streetscape elements and public art to illustrate the legacy of the District.

- **GOAL** Establish two distinct subareas within the District enabling a diverse mix of businesses, development types, and uses (including residential) to thrive.

  A. Prioritize a mix of uses in the Catalyst Subarea, including new life sciences, technology, and other commercial office uses with active uses and other community amenities at the ground floor.

  i. Maintain development heights at 50 feet maximum (as per existing zoning regulations); potential for additional height, up to a maximum of 120 feet, may be considered through approval of a Planned Development (PD) Plan per San Carlos zoning requirements.

  ii. Locate taller development along Industrial Road, Commercial Street, and Brittan Avenue.

iii. In response to the Council's strategic objective for the District, adopt a tiered system where new development contributes certain resources and amenities based on the scale of development. Potential resources include: community open space, non-vehicular connections, active ground floor uses, and community facilities.

iv. Study the potential for introducing, within the plan area only, mixed-use residential development and other high density housing that is contextual to the neighborhood along arterial and collector streets within a half-mile from the San Carlos Caltrain Station.

C. New buildings should enhance the character of the street and embody a superior quality of architecture and urban design.

i. Place buildings close to the street to support a continuous "streetwall" that frames the edges of the public realm (street, sidewalk, planting strips, and furnishing zone) and creates a vibrant and pedestrian-oriented street experience.

ii. Use non-vehicular connections to create breaks in the "streetwall" and promote a human-scale, walkable environment throughout the District. For development located in an Activity Hub, setbacks are encouraged to create spill out space for social gathering.

iii. Design new buildings to engage the street with articulated entries, visually interesting materials, and changes in massing and scale that contribute to a pleasant, human-scale environment.

3.1.3 Discussion

Would the proposed project:

a) Have a substantial adverse effect on a scenic vista?

Less Than Significant Impact. The proposed project is located within an urban developed area. It is not located in a scenic area, nor is it considered part of an officially designated scenic vista. However, the San Carlos General Plan states that views of the San Francisco Bay can be accessed in many areas west of Alameda de las Pulgas, including City parks and open space and existing residential neighborhoods (San Carlos 2009). The project site is a component of the views of San Francisco Bay from the San Carlos and Belmont hills. The project would introduce a six-story building that would be approximately 83 feet 10 inches tall (see Figure 5 – Building Elevations) to the project site and would be the largest building in the immediate vicinity. The building has been designed consistent with City policies for buildings on Primary Gateway parcels (see discussion below under response c.), with landscaping and public art policies, and with glare policies related to sun reflection on glass windows and nighttime light and glare from the illuminated building (see discussion below under response d.).

While the building may be a discernable feature in the vista of the San Carlos lowlands from various vantage points in the San Carlos hills, it would not block views of San Francisco Bay because of the elevation difference between the project site and the viewers in the San Carlos hills, and because of the intervening distance. Furthermore, the project would be required to utilize automated shades, which would reduce the potential for the project to be discernable during the evening and nighttime hours due to light emanating from within the building (see discussion below under response d.). The project would have a less than significant impact on scenic views from the San Carlos and Belmont hills of the Bay shoreline and San Francisco Bay.

b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?

No Impact. The nearest State Scenic Highway to the project site is I-280, approximately 2.7 miles to the west of the project site. Development of the proposed project would not damage scenic resources within a State Scenic Highway. No impact would occur.

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?

Less than Significant Impact. Development of the proposed project would represent a change to the existing visual character of the project site. The proposed project would replace the existing one- to two-story self-storage facility and associated parking lot with a six-story building approximately 83 feet 10 inches tall. The project, however, would be consistent with the General Plan designation of General Commercial/Industrial (GCI) and the proposed rezoning to Planned Development. The project would be consistent with the overall urban character of the surrounding area.

The design of the proposed project includes features to enhance the visual character of the project site as required by Land Use Element policies for Primary Gateway parcels. The proposed building would approximately 83-feet, 10-inches in height, which is more than the City's maximum building height of 50 feet for the LC zoning designation. The Applicant has submitted a PD application to approve the proposed exceedance of the site's maximum building height requirement. Renderings of the exterior of the building (see Figure 6 – Visual Renderings from Off-Site Locations) show that the building would have a modern architectural style consisting largely of windows and metal accent plates, which would distinguish building elements. Exterior materials would consist largely of glare-inhibiting glass, gray aluminum composite metal panels, white concrete pillars, and wood-tone aluminum metal battens. These modern architectural building elements would be consistent with other, recent developments south of the project site within the East Side Innovation District.

The proposed building Is designed to have a visually interesting, articulated entry composed of white pillars and wood-tone aluminum battens (located on the northwest corner of the building). The mass of the building would be broken up on the sixth story with an outdoor terrace stepped back into the footprint of the building, providing visual relief from viewpoints west of the project site (e.g., the residential neighborhood to the west). The project would incorporate a fritz pattern for the windows along the southeastern corner of the building, which would serve as an artistic design element and function as designating the building a landmark / gateway location. Although the project site is being proposed for a PD zoning designation, this artistic element proposed for the building would continue to promote the landmark vision for the site, as indicated by the site's existing LC zoning designation. The design element for the proposed building would also help designate the site as being the northernmost portion (i.e., gateway) of the East Side Innovation District.

The proposed project would include landscaping and trees along the northern and southern portions of the site, trees along the majority of the eight-foot-tall privacy fence (i.e., between the proposed building and the In-N-Out to the west), and two trees along the southern side of the project driveway from Industrial Road. Grasses and shrubs would be planted along the perimeter of the site and around the building. A grass / shrub island would be located on the northwestern side of the building near the building's main entrance. The project would also be consistent with element of the East Side Vision Plan by creating more non-vehicular connections and promoting a human-scale, walkable environment through the development of a

pedestrian / cyclist path from the southwest corner of the project site. This pathway would connect to the Industrial Road / Holly Street intersection, and make a major contribution for the "green boulevard" planned for Industrial Road.

The proposed project would not conflict with applicable regulations governing scenic quality nor would it substantially degrade the visual quality of the site or its surroundings. The project would:

- Be rezoned to PD, allowing additional building height beyond that specified for the LC zoning designation;
- Include a step-back element on the western side of the building, providing visual relief from viewpoints west of the site;
- Include landscaping improvement in proximity of the site (e.g., along the pedestrian path to the Industrial Road / Holly Street intersection); and
- Serve as a landmark / gateway for the City and East Side Innovation District, consistent with its existing zoning designation and vision identified in the City's General Plan and East Side Innovation District Vision Plan.

The project would be subject to City Design Review, which would ensure consistency with applicable development regulations (e.g., compatible with neighboring development). This impact would be less than significant.

d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?

Less than Significant with Mitigation Incorporated. The proposed project would replace existing light sources associated with the existing on-site self-storage facility (i.e., exterior building lights, security lights, and parking lot lights) with new sources of interior and exterior lighting. The proposed project would also introduce a new source of glare through the windows proposed on the eastern side of the building (i.e., the façade that faces Highway 101). However, as described below, these new sources of light and glare would not result adversely affect daytime or nighttime views in the area and would result in a less-than-significant impact after the incorporation of Mitigation Measure AES-1.

A glare study prepared by Loisos & Ubbelohde, titled "405 Industrial Road: Glare Study," and dated November 18, 2021, was submitted for the project and is contained as Appendix A. The project Glare Study evaluated the potential impacts from both solar reflections during daytime hours and interior light emanating from the building during nighttime hours on the existing residential area to the west/southwest, Highway 101, and San Carlos Airport. The "Interior Building Lighting" and "External Solar Glare" section below incorporate discussions from the Glare Study.

Exterior Building Lighting

The proposed project includes exterior lighting in the form of:

- Three illuminated building signs that would be installed on the sixth story on the southern, northern, and eastern façades;[9]
- Pedestrian pole lights installed along the site entrance sidewalk;
- Bollard lighting installed in the grass / shrub island;
- Step lights installed on the building entrance planters; and
- Light fixtures installed on the building entrance columns.

[9] Building signage on the western side of the building (i.e., that which faces the residential neighborhood) would not be illuminated.

The source, intensity, and type of exterior lighting for the project site would be typical for orientation and safety needs, and would be consistent with City standards and regulations. The illumination proposed would be low-level, and the other exterior lights (e.g., building and light poles) would be shielded to reduce light spill or glare. Exterior lights for safety, security, and landscaping and building illumination would not create substantial spill light.

External Solar Glare / Reflection

Sunlight reflections from the proposed building's glass window façades have the potential to impact passing motorists and pedestrians. The Glare Study concluded that the proposed building would not have the potential to result in reflections that would be visible at the airport or Holly Street overpass.

Sunlight reflections may be visible from other locations in proximity of the project site, including:

- Southbound Highway 101 and the southbound Holly Street off ramp;
- Westbound Holly Street, almost immediately south of the project site, approaching Industrial Road;
- Northbound Industrial Road at the Holly Street intersection;
- Eastbound Holly Street, approaching Industrial Road; and
- Eastbound Springfield Road (i.e., within the residential neighborhood west of the project site).

The Glare Study notes that although these reflections could occur, many of them would be partial reflections and/or the reflections would be obscured/blocked by buildings or trees. For example, the area in which reflections could occur on southbound Highway 101 and the southbound Holly Street off-ramp would be relatively small, would not occur every month of the year (e.g., motorists on southbound Highway 101 could only be exposed during portions of – not all of – the months of March and September), and the reflections would only occur for approximately 30 minutes or less after sunrise / sunset. As noted previously, trees that exist in proximity of the project site and/or that would be planted as part of the project would help inhibit sunlight reflection.

Every building with glass will generate sunlight reflections. When, where, and for how long these reflections are visible are depended on the building's design. Although the proposed project would result in sunlight reflection, it would not adversely affect daytime views in the area, because:

1) Sunlight reflections would be visible for an hour or less at receiving locations near sunrise and sunset.
2) Sunlight reflections would not be present at the same location throughout the entire duration of the year. Many locations would only have few months out of the year during which reflections could occur.
3) Many locations would only be subject to reflections off a portion of the building.
4) Trees and other buildings would obscure much of the building's elevations from receptor locations were not included in the glare analysis. These intervening trees/structures would inhibit reflections.
5) Motorists are transient receptors, meaning that they would not be exposed for reflected sunlight for long periods of time.

Furthermore, in addition to the above, the Glare Study states that the proposed building's specified glass has 14% exterior visual reflectance, which is not considered "highly reflective".

The project Glare Study concluded the project would not generate glare from reflections of the sun visible to air traffic on the runway or in-flight paths. As a result, glare generated by sunlight reflecting off the proposed building would not adversely impact the San Carlos Airport.

Interior Building Lighting

Lighting would be included in the upper four stories of the building (i.e., that which comprise the laboratory / office space) and within the parking garage.

Interior electric lighting emanating from the proposed building can generate unwanted issues such as light egress and glare when bright surfaces and light fixtures can be seen from the outside during night hours. While there is no metric for excessive brightness, the project Glare Study described the issue with typical night images of buildings that have interior lights turned on coupled with a calibrated false color image that details the luminance (or brightness) of the view in candelas per meter squared. If the light source is directly visible, the project building may be considered a source of glare, although generally interior lighting is not as bright as the exterior commercial, landscape, or street lighting.

The main source of light produced by the proposed development would be generated by interior lighting installed throughout the building. Although interior light sources would be visible from outside the building during nighttime hours, light transmission would be reduced by interior light fixtures that reflect upward and downward (i.e., not laterally), which would reduce outward glare. Windows equipped with automated roller shades markedly decrease the luminance or brightness of interior lighting from a building.

Lighting is also proposed within the parking garage; however, this lighting would be contained within the structure and not directed to the outside environment.

Conclusion

The proposed project would result in new sources of light and glare, including exterior lighting (e.g., building signage, light poles, etc.), interior lights (e.g., those used to illuminate the office and laboratory space as well as the parking garage), and external reflections.

The project would incorporate design features that would inhibit light transmission from exterior building sources, such as directing sources of light in upward and downward directions (i.e., not laterally to the external environment), shielding those sources, and complying with City regulations. The proposed project would also not include illuminated signage on its western façade (i.e., that which faces the residential neighborhood).

The proposed project could also result in sunlight reflection during the morning and evening hours when the sun is rising and setting. These reflections would not have a significant adverse effect on the environment. The proposed project would perform better as well as, if not better than, typical buildings of this scale with glass (LOISOS + UBBELOHDE, 2021). The building's specified glass has 14% exterior visual reflectance, which is not considered "highly reflective", and the buildings elevation and orientation limit the times when (and the areas where) reflections are visible. Trees and other intervening structures (e.g., buildings) would further reduce the potential for reflected sunlight from the building. Furthermore, glare generated by sunlight reflecting off the proposed building would not adversely impact the San Carlos Airport.

Finally, light from sources inside the building could be transmitted outward during the evening and nighttime hours. The project Glare Study concluded its interior roller shade recommendations would address any glare concern from proposed building's interior electric lighting. The project Glare Study's interior roller shade recommendations are incorporated below as Mitigation Measure AES-1.

> **Impact AES-1:** Light egress and glare generated by project interior electric lights could adversely impact surrounding sensitive light receptors during nighttime hours.
>
> **Mitigation Measure AES-1: Install Interior Automated Roller Shades.** The project shall implement the automated shade recommendations for brand, fabric type and color, openness, and automation contained within the project Glare Study (LOISOS +

UBBELOHDE, 2021). The interior roller shades shall be sourced from Ecoveil or SoHo and meet the specifications detailed in the Glare Study. If EcoVeil shades are selected, the project Applicant shall select the recommended screen series in the color silver birch, which provides the best balance of the performance criteria for the project. If SoHo shades are selected, the project Applicant shall select from the weave and color options recommended within the Glare Study (i.e., silver, sand, light grey, dove grey, or silver birch).

The interior roller shades shall be oriented in the project building as follows, according to the "Interior Roller Shade Recommendation: Openness by Orientation" figure included on page 24 of the project Glare Study:

- One (1) percent openness on the western façade on stories 3, 4, 5, and 6.
- Three (3) percent openness with seats perpendicular to façade, one (1) percent openness with faces or back to façade on the eastern and southern facades on stories 3, 4, 5, and 6.
- Three (3) percent openness on the northern façade on stories 3, 4, 5, and 6.

The project shall install roller shades with automated functionality that is responsive to sky conditions and solar positions to maximize daylight harvesting, maintain views, and limit electric light emanating from the building at night.

The project shall install occupancy sensors for the building's interior electric lights to minimize electric light trespass during nighttime hours.

The project Applicant may choose to prepare and submit a revised Glare Study to the City for City approval that specifies alternative automated shade recommendations for brand, fabric type and color, openness, and automation, as long as the revised specifications meet a resulting light egress luminance level of no more than 100 candelas per meter squared, the performance standard specified in the Glare Study prepared by LOISOS + UBBELOHDE. The revised Glare Study shall be prepared by a qualified Engineering or Architecture firm with specialty and expertise in preparing Glare Studies.

Effectiveness: This measure would effectively reduce or eliminate light egress and glare from interior electric lights, and reduce potential nighttime light and glare impacts to less than significant.

Implementation: The Applicant shall be responsible for installing roller shades that meet the requirements specified in this mitigation measure.

Timing: The City shall ensure these specifications are detailed on project plans. The City shall also review purchase orders for the shades to ensure they meet the specifications required by this mitigation measure.

Monitoring: The City shall confirm the interior shade specifications through purchase order.

The project Glare Study determined that, with specific automated roller shades installed, the project building resulting luminance levels would be less than 100 candelas per meter squared, which would be less than that generated by a computer monitor. This level of luminance would not cause problems of light egress or glare. This impact would be less than significant with mitigation incorporated.

3.1.4 References

Caltrans. 2021. "California State Scenic Highway System Map." Accessed on December 14, 2021 at https://caltrans.maps.arcgis.com/apps/webappviewer/index.html?id=465dfd3d807c46cc8e8057116f1aacaa.

City of San Carlos. 2009. San Carlos General Plan: Envision 2030. Adopted October 12, 2009.

_____. 2021. San Carlos Municipal Code Title 18: Zoning. Revised 3/21.

Loisos & Ubbelohde. 2021. 405 Industrial Road: Glare Study, November 18, 2021.

3.2 AGRICULTURAL AND FOREST RESOURCES

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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?	☐	☐	☐	☒
*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. of 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.				

3.2.1 Environmental Setting

The project site is located in the City of San Carlos at an existing self-storage facility, and is surrounded by commercial, mixed use, and light industrial, and residential land uses. The California Department of Conservation's Farmland Mapping and Monitoring Program identifies the site as Urban and Built-up Land (CDOC, 2019).

3.2.2 Discussion

Would the proposed 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?

No Impact (Responses a – e). There are no forest lands or agricultural lands on or near the proposed project site, which is currently developed as a surface parking lot and surrounded by urban land uses. The project would not convert or cause the conversion of any farmland or forest land to a non-agricultural/non-forest use. The proposed project would not impact Prime Farmland, Unique Farmland, Farmland of Statewide Importance, forest land, or land under a Williamson Act contract. Thus, the project would not result in impacts to any agricultural or forestry resources. No impact would occur.

3.2.3 References

California Department of Conservation (CDOC). 2019. Farmland Mapping and Monitoring Program. San Mateo County Important Farmland 2018. Published September 2019.

3.3 AIR QUALITY

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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?	☐	☐	☒	☐
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?	☐	☐	☒	☐
*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.				

3.3.1 Environmental Setting

Air quality is a function of pollutant emissions and topographic and meteorological influences. Physical atmospheric conditions such as air temperature, wind speed and topography influence air quality.

Criteria Air Pollutants

Federal, state, and local governments control air quality through the implementation of laws, ordinances, regulations, and standards. The federal and state governments have established ambient air quality standards for "criteria" pollutants considered harmful to the environment and public health. National Ambient Air Quality Standards (NAAQS) have been established for carbon monoxide (CO), lead (Pb), nitrogen dioxide (NO_2), ozone (O_3), fine particulate matter (particles 2.5 microns in diameter and smaller, or $PM_{2.5}$), inhalable coarse particulate matter (particles 10 microns in diameter and smaller, or PM_{10}), and sulfur dioxide (SO_2). California Ambient Air Quality Standards (CAAQS) are more stringent than the national standards for the pollutants listed above and include the following additional pollutants: hydrogen sulfide (H_2S), sulfates (SO_X), and vinyl chloride. In addition to these criteria pollutants, the federal and state governments have classified certain pollutants as hazardous air pollutants (HAPs) or toxic air contaminants (TACs), such as asbestos and diesel particulate matter (DPM).

San Francisco Bay Area Air Basin

The proposed project is located in the San Francisco Bay Area Air Basin (SFBAAB), an area of non-attainment for both the 1-hour and 8-hour state ozone standards, and the national 24-hour $PM_{2.5}$ standard. The SFBAAB is comprised of nine counties: all of Alameda, Contra Costa, Santa Clara, San Francisco, San Mateo, Marin, Napa, and the southern portions of Solano and Sonoma. In San Mateo County, $PM_{2.5}$ exceeds the national standard only on about one day each year (BAAQMD 2017a).

The San Francisco Bay area Is generally characterized by a Mediterranean climate with warm, dry summers and cool, damp winters. During the summer daytime high temperatures near the

coast are primarily in the mid-60s, whereas areas farther inland are typically in the high-80s to low-90s. Nighttime low temperatures on average are in the mid-40s along the coast and low to mid-30s inland.

The Mediterranean climate is seen along most of the West Coast of North America and is primarily due to a (typically dominating) high-pressure system, located off the west coast of North America, over the Pacific Ocean. During the summer and fall months the high-pressure ridge is at its strongest and therefore provides a more stable atmosphere. Warm temperatures and a stable atmosphere associated with the high-pressure ridge provide favorable conditions for the formation of photochemical pollutants (e.g., O_3) and secondary particulates (e.g., nitrogen oxides (NO_x) and SO_2).

Varying topography and limited atmospheric mixing throughout the SFBAAB restrict air movement resulting in reduced dispersion and higher concentrations of air pollutants. The SFBAAB is most susceptible to air pollution during the summer when cool marine air flowing through the Golden Gate can become trapped under a layer of warmer air (a phenomenon known as an inversion) and is prevented from escaping the valleys and bays created by the Coast Ranges.

Sensitive Receptors

A sensitive receptor is defined by the Bay Area Air Quality Management District (BAAQMD) as a facility or land use that include members of the population that are particularly sensitive to the effects of air pollution, such as children, seniors, or people will illnesses (BAAQMD 2017b) These typically include residences, hospitals, and schools. The sensitive receptors within 1,000 feet of the Project site include:

- Residential dwelling units, the closest of which are approximately 255 feet west of the project site boundary on Springfield Drive. Residential receptors are also located southwest of the project site on Holly Street and Bayport Court, and northwest of the project site on Sylvan Drive.
- A Sutter Health urgent care and outpatient medical facility, approximately 700 feet north of the project site.
- Laureola Park is approximately 1,000 feet south of the project site.

3.3.2 Regulatory Setting

CARB In-Use Off-Road Diesel Vehicle Regulation

On July 26, 2007, CARB adopted a regulation to reduce DPM and NO_x emissions from in-use (existing) off-road heavy-duty diesel vehicles in California. Such vehicles are used in construction, mining, and industrial operations. This regulation applies to all off-road diesel vehicles over 25 horsepower (hp) used in California and most two-engine vehicles (except on-road two-engine sweepers), which are subject to the *Regulation for In-Use Off-Road Diesel Fueled Fleets (Off-Road regulation).* Additionally, vehicles that are rented or leased (rental or leased fleets) are included in this regulation. This regulation:

- Imposes limits on idling, requires a written idling policy, and requires a disclosure when selling vehicles;
- Requires all off-road diesel vehicles over 25-horsepower be reported to CARB (using the Diesel Off-Road Online Report System DOORs) and labeled;
- Restricts the adding of older vehicles into fleets; and,
- Requires fleets to reduce their emissions by retiring, replacing, or repowering older engines, or installing Verified Diesel Emission Control Strategies, VDECS (i.e., exhaust retrofits).

CARB In-Use Off-Road Diesel Vehicle Regulation

CARB's In-Use Heavy-Duty Diesel-Fueled regulation (also known as the Truck and Bus Regulation) is intended to reduce emission of NO_x, PM, and other criteria pollutants generated from existing on-road diesel vehicles operating in California. The regulation applies to nearly all diesel fueled trucks and buses with a gross vehicle weight rating (GVWR) greater than 14,000 pounds that are privately or federally owned, and for privately and publicly owned school buses. Heavier trucks and buses with a GVWR greater than 26,000 pounds must comply with a schedule by engine model year or owners can report to show compliance with more flexible options. Fleets complying with the heavier trucks and buses schedule must install the best available PM filter on 1996 model year and newer engines and replace the vehicle 8 years later. Trucks with 1995 model year and older engines had to be replaced starting 2015. Replacements with a 2010 model year or newer engines meet the final requirements, but owners can also replace the equipment with used trucks that have a future compliance date (as specified in regulation). By 2023, all trucks and buses must have at least 2010 model year engines with few exceptions.

Bay Area Air Quality Management District

The BAAQMD is the agency primarily responsible for maintaining air quality and regulating emissions of criteria and toxic air pollutants within the SFBAAB. The BAAQMD carries out this responsibility by preparing, adopting, and implementing plans, regulations, and rules that are designed to achieve attainment of state and national air quality standards.

The BAAQMD is the agency primarily responsible for maintaining air quality and regulating emissions of criteria and toxic air pollutants within the SFBAAB. The BAAQMD carries out this responsibility by preparing, adopting, and implementing plans, regulations, and rules that are designed to achieve attainment of state and national air quality standards. The BAAQMD currently has 13 regulations containing more than 100 rules that control and limit emissions from sources of pollutants. Table 3-1 summarizes the major BAAQMD rules and regulations that may apply to the proposed project.

Table 3-1: Potentially Applicable BAAQMD Rules and Regulations

Regulation	Rule	Description
1- General Provisions and Definitions	1- General Provisions and Definitions	301 – Public Nuisance: Establishes that no person shall discharge quantities of air contaminants or other materials which cause injury, detriment, nuisance or annoyance to any considerable number or person or the public; or which endangers the comfort, repose, health or safety of any such person or the public.
2- Permits	2- New Source Review	Provides for the review of new and modified sources of pollutants; requires use of Best Available Control Technology and emissions offsets to achieve no net increase in nonattainment pollutants; implements Prevention of Significant Deterioration review for attainment pollutants.
2 – Permits	5 – New Source Review of Toxic Air Contaminants	Provides for the review of new and modified sources of toxic air contaminants; requires use of Best Available Control Technology for sources that have a risk above certain thresholds and limits total project risks to 10.0 in a million cancer risk, 1.0 chronic hazard index, and 1.0 acute hazard index.

Table 3-1: Potentially Applicable BAAQMD Rules and Regulations

Regulation	Rule	Description
6 – Particulate Matter	1 – General Requirements	Limits visible particulate matter emissions.
6 – Particulate Matter	6 – Prohibition of Trackout	Limits the quantity of particulate matter through control of trackout of solid materials on paved public roads from construction sites that are greater than one acre in size.
8 – Organic Compounds	3 – Architectural Coatings	Sets forth VOC limitations and requirements for architectural coatings. Flat, non-flat, and non-flat – high glass coatings are required to meet standards of 50, 100, and 150 grams of VOC per liter (g/L), respectively. Traffic marking coatings are required to meet a standard of 100 g/L.
7- Odorous substances	Odorous Substances	Establishes general limitations on odorous substances and specific emission limitations on certain odorous compounds, such as ammonia.
9 – Inorganic Gaseous Pollutants	8 – NOx and CO from Stationary Internal Combustion Engines	Limits emissions of NOx and CO from stationary internal gas combustion engines more than 50 brake horsepower.
11 – Hazardous Pollutants	2 – Asbestos Demolition, Renovation, and Manufacturing	Controls emissions of asbestos to the atmosphere during demolition.
14 – Mobile Source Missions Reduction Measures	1 – Commuter Benefits Program	Requires employers with 50 or more full-time employees in the Bay Area to provide commuter benefits to their employees.
Source: BAAQMD, 2019.		

On April 29, 2017, the BAAQMD adopted its *Spare the Air-Cool the Climate 2017 Clean Air Plan* (Clean Air Plan). The 2017 Clean Air Plan updates the most recent Bay Area ozone plan, the 2010 Clean Air Plan, in fulfillment of state ozone planning requirements. The Plan focuses on the three following goals:

- Attain all state and national air quality standards;
- Eliminate disparities among Bay Area communities in cancer health risk from toxic air contaminants; and
- Reduce Bay Area GHG emissions to 40 percent below 1990 levels by 2030, and 80 percent below 1990 levels by 2050.

The plan includes 85 distinct control measures to help the region reduce air pollutants and has a long-term strategic vision which forecasts what a clean air Bay Area will look like in the year 2050. The control measures aggressively target the largest source of GHG, ozone pollutants, and particulate matter emissions – transportation. The 2017 Clean Air Plan includes more incentives for electric vehicle infrastructure, off-road electrification projects such as Caltrain and shore power at ports, and reducing emissions from trucks, school buses, marine vessels, locomotives and off-road equipment (BAAQMD 2017b).

3.3.3 Discussion

Would the proposed project:

a) Conflict with or obstruct implementation of the applicable air quality plan?

No Impact. The proposed project would not conflict with nor obstruct implementation of the Bay Area Air Quality Management District (BAAQMD) *2017 Clean Air Plan* (BAAQMD 2017c). The *2017 Clean Air Plan* includes increases in regional construction, area, mobile, and stationary source activities, and operations in its emission inventories and plans for achieving attainment of air quality standards. Chapter 5 of the *Clean Air Plan* contains the BAAQMD's strategy for achieving the plan's climate and air quality goals. This control strategy is the backbone of the *Clean Air Plan*.

The proposed project, which would consist of the construction and operation of a life sciences building, would not conflict with or obstruct implementation of the BAAQMD 2017 Clean Air Plan. The 2017 Clean Air Plan includes 85 control measures that are grouped into nine categories. Most of these control measures would not apply to the project, because they are implemented at the local and regional local by municipal governments and/or the BAAQMD. Table 3-2 summarizes the project's consistency with potentially applicable control strategies from the 2017 Clean Air Plan (2017b).

Table 3-2: BAAQMD 2017 Clean Air Plan Control Measures Consistency

Regulation	Description
Transportation Control Measures	
TR1: Clean Air Teleworking Initiative	Consistent. The project would comply with the requirements of the City of San Carlo's Municipal Code, including Chapter 18.25, Transportation Demand Management. The project is required to achieve a trip generation reduction of 20 percent and would follow a TDM plan that includes teleworking. See Appendix D.1 for the Applicant's TDM plan.
TR2: Trip Reduction Programs	Consistent. The project would comply with the requirements of the City of San Carlo's Municipal Code, including Chapter 18.25, Transportation Demand Management. The project is required to achieve a trip generation reduction of 20 percent and will follow a TDM plan that includes teleworking (see Appendix D.1).
TR9: Bicycle and Pedestrian Access and Facilities	Consistent. The project would provide approximately 88 spaces for bicycle parking. The project would also include the construction of a pedestrian pathway that would provide pedestrian access to the project site from Holly Street and Industrial Road.
Building Control Measures	
BL1: Green Buildings	Consistent. The project would be designed to CalGreen Code standards.
BL4: Urban Heat Island Mitigation	Consistent. The project would be subject to the 2019 Title 24 Building Code, which would require the proposed buildings to have roofs that meet the aged solar reflectance and thermal emittance

Table 3-2: BAAQMD 2017 Clean Air Plan Control Measures Consistency

Regulation	Description
	requirements specified in CalGreen Code Section 140.3(a)(1)(A)(ii).
Waste Management Control Measures	
WA4: Recycling and Waste Reduction	Consistent. The project would divert construction waste, consistent with CalGreen Code requirements.

As shown in Table 3-2, the project would be consistent with applicable control measures contained in the 2017 Clean Air Plan. This impact would be less than significant.

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?

Less Than Significant Impact. The proposed project would generate both short-term construction emissions and long-term operational emissions. The project's potential emissions were estimated using the California Emissions Estimator Model (CalEEMod), Version 2020.4.0. As described in more detail below, the proposed project would not generate short-term or long-term emissions that exceed BAAQMD-recommended criteria air pollutant thresholds.

Construction Emissions

The proposed project involves the deconstruction and off-haul of the existing storage facility and the construction of a new laboratory and office building with ground level and subterranean parking. As described in Section 2.3.7, construction activities are anticipated to begin in 2023 and last approximately 20 months. Construction activities are anticipated to include demolition; site preparation, which would consist of shoring, dewatering, and mass excavation work for the underground parking structure; grading; building construction (foundation and vertical construction work); paving; and architectural coating. Construction emissions would be generated on-site during the use of heavy-duty, off-road construction equipment (e.g., excavators, graders, forklifts, etc.) and off-site during worker, vendor (construction material delivery), and soil hauling trips.

The proposed project's potential construction emissions were estimated using default CalEEMod assumptions, with the following project-specific modifications:

- **Construction Phases and Schedule:** CalEEMod default assumptions for construction phases and scheduling were adjusted to reflect project-specific information provided by the Applicant. In general, project-specific activities (e.g., shoring, dewatering, etc.) were added to the CalEEMod project file and the total construction schedule was lengthened to reflect Project-specific construction activities.
- **Construction Equipment:** CalEEMod default assumptions for construction equipment were modified to reflect Project-specific construction activities, phasing, and timelines.
- **Building Demolition:** The modeling assumed 55,000 square feet of building space would be demolished and off-hauled to account for the existing self-storage facility that is currently located on site.
- **Soil Hauling:** Based on information from the Applicant, the project would include 8,268 hauling trips, which would export 49,600 cubic yards of soil from the site.
- **Fugitive Dust Control Measures:** Fugitive dust control measures consistent with BAAQMD guidelines were incorporated in the construction emissions modeling (see also the COA discussion below). Specifically, the model assumes the site would be watered twice a day, reducing fugitive dust emissions by 55%.

The project's estimated construction criteria air pollutant emissions are presented in Table 3-3. Refer to Appendix B.1 and Appendix B.2 for detailed CalEEMod assumptions and output files.

Table 3-3: Estimated Project Construction Criteria Air Pollutant Emissions

Year / Scenario[A]	Pollutant Emissions (Tons Per Year)						
	ROG	NOx	CO	PM_{10}		$PM_{2.5}$	
				Dust[B]	Exhaust	Dust[B]	Exhaust
UNMITIGATED							
Year 1	0.3	3.6	3.2	0.5	0.1	0.1	0.1
Year 2	1.3	0.8	0.9	0.3	<0.1	0.1	<0.1
MITIGATED[C]							
Year 1	0.2	3.0	3.5	0.5	<0.1	0.1	0.4
Year 2	1.2	0.7	0.9	0.3	<0.1	0.1	<0.1
Year / Scenario[A]	**Pollutant Emissions (Average Pounds per Day)[D]**						
	ROG	**NOx**	**CO**	**PM_{10}**		**$PM_{2.5}$**	
				Dust[B]	**Exhaust**	**Dust[B]**	**Exhaust**
UNMITIGATED							
Year 1	2.6	26.9	23.4	4.0	0.9	1.1	0.9
Year 2	16.4	10.1	11.6	3.4	0.3	0.9	0.3
MITIGATED[C]							
Year 1	1.6	22.1	25.6	3.7	0.3	1.0	2.8
Year 2	16.2	9.0	12.0	3.4	0.1	1.7	0.5
BAAQMD CEQA Threshold	**54**	**54**	**--**	**BMPs**	**82**	**BMPs**	**82**
Potentially Significant Impact?	**No**	**No**	**No**	**No[B]**	**No**	**No[B]**	**No**

BAAQMD 2017b and MIG 2022. See Appendix B.1 and Appendix B.2.

(A) Emissions estimates are based on cumulative time of construction (i.e., one year – 365 days – that may be split across multiple calendar years). Year 1 includes emissions from 2022 and 2023, while Year 2 includes emissions from 2023; see footnote (D), below), for total active construction days for each year of construction analysis. The CalEEMod analysis years reflect an older equipment fleet that would generate more emissions than new equipment and therefore these emissions estimates are considered conservative.

(B) For all projects, the BAAQMD recommends implementing eight basic construction best management practices (BMPs) to control fugitive dust from construction activities. As described in this section, the proposed project would be required to implement the BAAQMD's fugitive dust BMPs as a COA, rendering this impact less than significant.

(C) As discussed under response c), the proposed project would be required to implement Mitigation Measure AIR-1 to reduce potential health risks from receptor exposure to DPM. These emissions estimates reflect compliance with the BAAQMD fugitive dust BMP COA and Mitigation Measure AIR-1.

(D) Average daily emissions assume 270 active construction days for Year 1 (2022) and 154 active construction days for Year 2 (2023).

As shown in Table 3-3, construction emissions associated with the proposed project would be below all BAAQMD significance thresholds for criteria air pollutant emissions; however, as indicated in the BAAQMD's *CEQA Guidelines*, fugitive dust emissions are considered potentially significant, regardless of the quantity of PM_{10} or $PM_{2.5}$ emitted, unless the BAAQMD's eight, recommended fugitive dust BMPs are implemented during construction activities (BAAQMD 2017b, pg. 8-4).

As a Condition of Approval (COA) for the proposed project, the City would require the implementation of the BAAQMD's eight, recommended fugitive dust BMPs during construction activities (see Table 2-2).

> **COA:** The project shall implement BAAQMD's Construction Fugitive Dust Best Management Practices and shall provide notes on the plans submitted to the Building Division for permits. The project shall implement BAAQMD's Construction Fugitive Dust Best Management Practices and shall provide notes on the plans submitted to the Building Division for permits.

Operational Emissions

Upon completion of construction activities, the proposed project would generate emissions of regulated air pollutants from:

- **"Area" Sources.** The proposed land use would generate emissions from small area sources, including landscaping equipment, and the use of consumer products (e.g., paints, cleaners, and fertilizers) that result in the evaporation of chemicals into the atmosphere during product use.
- **Energy Use and Consumption.** The proposed land use would generate emissions from the combustion of natural gas in water and space heating equipment.
- **Mobile Sources.** The proposed land use would generate emissions from vehicle traveling to and from the project site.

The proposed project's operational emissions were estimated using CalEEMod version 2020.4.0. The emissions estimates are based on the Project's first year of operation (presumed to be 2024), using default data assumptions contained in CalEEMod, with the following project-specific modifications:

- **Trip Generation.** Operational weekday trip generation rates were adjusted to reflect the trip generation prepared by Hexagon Transportation Consultants (Hexagon 2022). The default weekend trip generation rates were also adjusted to be consistent with TDM requirements. Based on Hexagon's trip generation estimates, the life sciences building would generate approximately 1,936 total daily vehicle trips per weekday. Based on CalEEMod estimates, the proposed project is estimated to generate approximately 3,655,587 annual VMT.
- **Vehicle Emissions Factors.** The annual vehicle emission factors were updated based on derived EMFAC2021 emission rates for the San Mateo (SF) subarea, consistent with the methodology described in the CalEEMod User's Guide Appendix A. The derived emission factors are for year 2024, the Project's first operational year.
- **Stationary Source.** An 83-hp diesel emergency generator operating 30 hours/year was added to the model.

The proposed project's estimated operational emissions are presented in Table 3-4. As shown in Table 3-4, operational criteria air pollutant emissions associated with the proposed project would be below the BAAQMD regional thresholds. Therefore, operation of the proposed project would not generate operational-related emissions that exceed BAAQMD thresholds, and impacts would be less than significant.

c) Expose sensitive receptors to substantial pollutant concentrations?

Less Than Significant Impact with Mitigation Incorporated. As described in Section 3.3.1, sensitive residential receptors are generally located west and southwest of the project site and a medical facility is located north of the project site. Project-related construction activities would emit $PM_{2.5}$ from equipment exhaust. Nearly all the project's $PM_{2.5}$ emissions from equipment exhaust would be diesel particulate matter (DPM), a TAC. Accordingly, a health risk assessment

(HRA) was prepared to assess potential risks associated with sensitive receptor exposure to DPM during project construction activities, as estimated using CalEEMod (see Table 3-3). The construction HRA evaluated DPM emissions associated with on- and off-road diesel fuel trucks and equipment. Gasoline-fuel vehicles emit various TACs in much smaller quantities and health toxicity compared to DPM. Thus, gasoline fueled emission sources were not included in the HRA.

Table 3-4: Estimated Project Operational Criteria Air Pollutant Emissions

Source	Pollutant Emissions (Tons per Year)				
	ROG	**NOx**	**CO**	**PM10**	**PM2.5**
Area Sources	0.9	<0.1	<0.1	<0.1	<0.1
Energy Demand	<0.1	0.2	0.2	<0.1	<0.1
Mobile Sources	0.7	0.5	5.7	1.2	0.3
Stationary Sources	<0.1	<0.1	<0.1	<0.1	<0.1
TOTAL(B)	1.6	0.8	5.9	1.3	0.3
BAAQMD CEQA Threshold	**10**	**10**	**--**	**15**	**10**
Potentially Significant Impact?	**No**	**No**	**No**	**No**	**No**
Source	**Pollutant Emissions (Average Pounds per Day)**				
	ROG	**NOx**	**CO**	**PM10**	**PM2.5**
Area Sources	5.1	<0.1)	<0.1	<0.1	<0.1
Energy Demand	0.1	1.4	1.1	<0.1	<0.1
Mobile Sources	3.8	3.0	31.3	6.8	1.7
Stationary Sources	<0.1	<0.1	<0.1	<0.1	<0.1
TOTAL(B)	9.1	4.4	32.5	6.8	1.8
BAAQMD CEQA Threshold	**54**	**54**	**--**	**82**	**54**
Potentially Significant Impact?	**No**	**No**	**No**	**No**	**No**

BAAQMD 2017b and MIG 2022. See Appendix B.1 and B.2.

(A) <0.0 does not mean zero; rather, it means less than 0.05, but greater than zero.
(B) Totals may not equal due to rounding.

The proposed project would involve different construction activities occurring at different intensities over an approximately 20-month period, beginning in 2022. Receptors would be exposed to varying concentrations of pollutants throughout the construction period. Health risks were assessed according to the recommendations in the BAAQMD's *Recommended Methods for Screening and Modeling Local Risks and Hazards* and *Air Toxics New Source Review Program Health Risk Guidelines*, as well as the Office of Environmental Health Hazard Assessment's *Air Toxics Hot Spots Program Guidance Manual* (OEHHA 2015; BAAQMD 2012, 2016). The ground level concentrations of pollutants produced by the project during construction, as estimated using AERMOD, were used to derive the individual excess cancer risk and non-carcinogenic health hazard index from potential exposure to DPM. Refer to

Appendix B for detailed CalEEMod and AERMOD[10] modeling assumptions, output files, and HRA calculations.

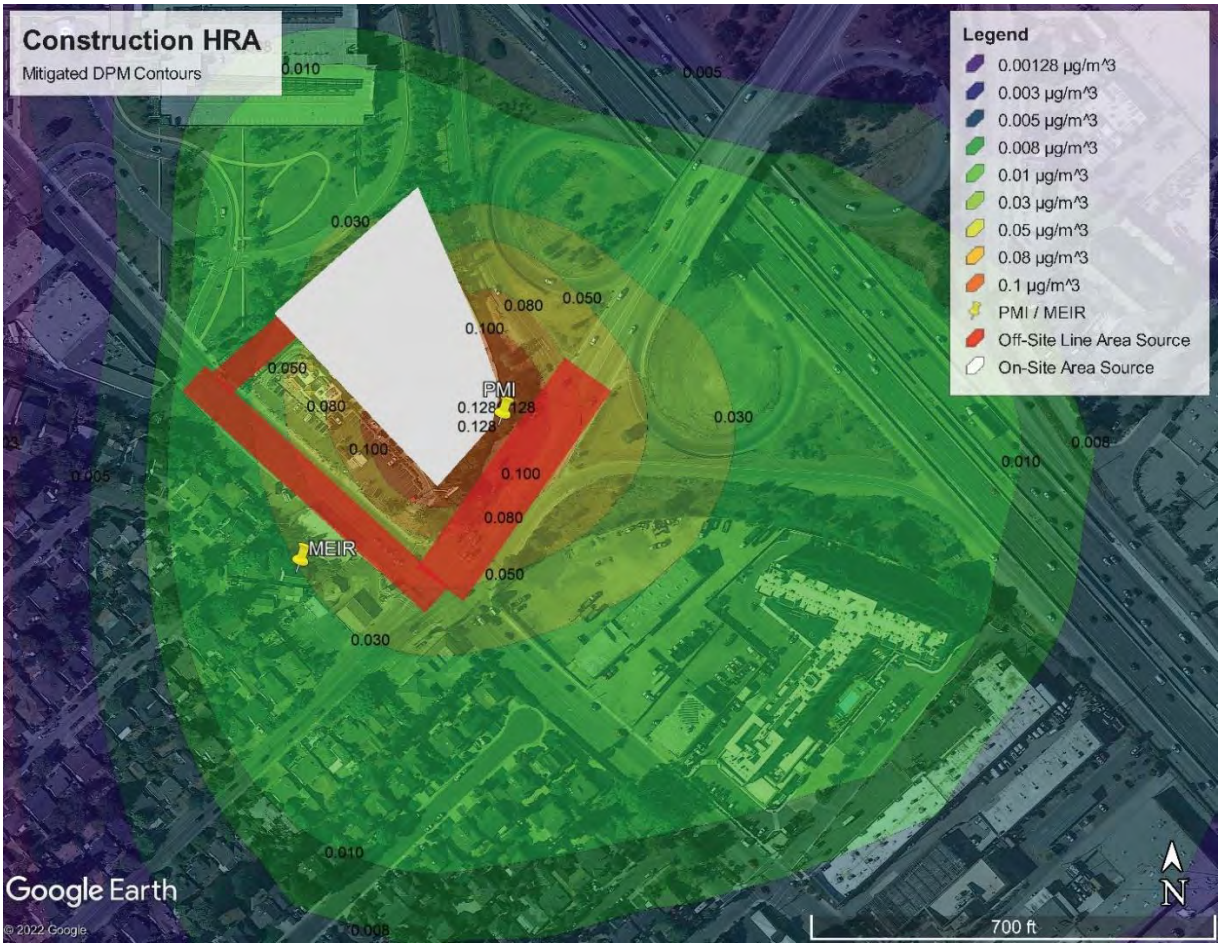
The following summarizes the results of the construction health risk assessment. Please see Appendix B.3 for additional details, including the methodologies employed for the dispersion modeling and health risk assessment.

Construction HRA Results

Individual Carcinogenic Risk from Exposure to DPM

The predicted locations of the annual, unmitigated point of maximum impact (PMI) and the maximum exposed individual receptor (MEIR) for DPM exposure are shown in Figure 13 – Construction Health Risk Assessment: MEIR and PMI.

Figure 13 – Construction Health Risk Assessment: MEIR and PMI



The predicted PMI is generally located east of the project site, between the project site and Holly Street. Since the PMI for DPM exposure is located on land that is not occupied by a receptor on a permanent basis, lifetime excess cancer risks and chronic non-cancer health hazards, which are based on exposure to annual average pollutant concentrations, were not estimated for the modeled PMI location. Accordingly, health risks were assessed at the modeled

[10] The AERMOD dispersion model is an EPA-approved and BAAQMD-recommended model for simulating the dispersion of pollutant emissions and estimating ground level concentrations of pollutants at specified receptor locations.

residential MEIR location. For both years, the MEIR for DPM exposure is located at a single-family residential building at 367 Fairfield Drive, in the City of San Carlos. The HRA evaluated worst-case carcinogenic and non-carcinogenic risks to child (3rd trimester, 0-2 years, and 2-16 years) and adult (16-30 years and 30-70 years) receptors. Table 3-5 summarizes the results of the construction HRA.

Table 3-5: Maximum Increased Cancer Risk from Project Construction DPM Emissions

Year	Health Risk Increase at MEIR(A)	
	Unmitigated	**Mitigated**
Residential Child Receptor		
Year 1	21.2	5.3
Year 2	7.6	3.0
Total Incremental Health Risk Increase	28.8	8.4
BAAQMD Significance Threshold	10	10
Significant Impact?	**Yes**	**No**
Residential Adult Receptor		
Year 1	0.4	0.1
Year 2	0.1	0.1
Total Incremental Health Risk Increase	0.5	0.1
BAAQMD Significance Threshold	10	10
Significant Impact?	**No**	**No**

MIG 2022. See Appendix B.4
(A) Maximum exposed residential receptor located at 565524.25 m E and 4151934.00 m N.

As shown in Table 3-5 the calculated risks are greatest for child receptors; in particular, child receptors that are less than two years old at the start of construction activities. The calculated excess individual cancer risk for this subset of the population is substantially higher (approximately three times higher) than the BAAQMD-recommended significance threshold value of 10 excess cancers per million population (see Appendix B.4 for all health risk assessment results).

At the same DPM concentrations, risks to children ages 2-16 would be approximately half the BAAQMD-recommended significance threshold, and risks to adult receptors would be less than one tenth of the BAAQMD-recommended threshold. The magnitude of the project's predicted cancer risks at sensitive residential receptors is partly a function of the latest OEHHA and BAAQMD-guidance on HRAs, which account for increased susceptibility from exposure to TACs in early life stages, but is primarily a function of the anticipated construction activities, equipment usage, and the close proximity of the receptors to the proposed construction activities (i.e., adjacent to the project site).

To reduce potential DPM (and $PM_{2.5}$) emissions generated by project construction activities, Mitigation Measure AIR-1 would be incorporated into the project. Mitigation Measure AIR-1 requires all mobile diesel construction equipment greater than 50 horsepower meet U.S. EPA Tier IV emission standards.

> **Impact AIR-1:** Construction equipment could generate diesel particulate (DPM) emissions in excess of regulatory standards.

Mitigation Measure AIR-1: To reduce potential, short-term adverse health risks associated with $PM_{2.5}$ emissions, including emissions of DPM generated during project construction activities, the City shall require the project Applicant and/or its designated contractors, contractor's representatives, or other appropriate personnel to comply with the following construction equipment restrictions:

- All mobile construction equipment greater than 50 horsepower in size shall meet with United State Environmental Protection Agency (U.S. EPA) and California Air Resources Board (CARB) Tier IV Exhaust Emission Standards. This may be achieved via the use of equipment with engines that have been certified to meet U.S. EPA and CARB Tier IV emissions standards, or through the use of equipment that has been retrofitted with a CARB-verified diesel emission control strategy (e.g., particulate filter) capable of reducing exhaust $PM_{2.5}$ emissions to levels that meet U.S. EPA and CARB Tier IV emissions standards.

As an alternative to having all mobile construction equipment greater than 50 horsepower meet with U.S. EPA and CARB Tier IV Exhaust Emission Standards, the Applicant may prepare and submit a refined construction health risk assessment to the City once additional project-specific construction information is known (e.g., specific construction equipment type, quantity, engine tier, and runtime by phase). The refined health risk assessment shall demonstrate and identify any measures necessary such that the proposed project's incremental carcinogenic health risk at nearby sensitive receptor locations is below the applicable BAAQMD threshold of 10 cancers in a million.

Effectiveness: This measure would reduce potential carcinogenic health risks by approximately 70.8 percent, and to levels that are below applicable BAAQMD risk thresholds.

Implementation: The Applicant shall include this requirement on all appropriate bid, contract, and engineering and site plan (e.g., building, grading, and improvement plans) documents.

Timing: During construction activities.

Monitoring: The City shall review all appropriate bid, contract, and engineering and site plan documents for inclusion of this requirement and verify the construction equipment utilized during construction meet the Tier IV emission standards.

As shown in Table 3-5, potential health risks would be reduced from approximately 28.8 to 8.4 for a child receptor under the age of two at the MEIR location, which lowers the estimated carcinogenic health risk below the BAAQMD Significance Threshold value of 10 excess cancers per million population. Since the proposed project would not expose any receptors to cancer health risks in excess of the BAAQMD's recommended threshold, this impact would be less than significant with mitigation incorporated.

Non-Carcinogenic Health Hazard from Exposure to DPM

The maximum annual average DPM concentration at any receptor location under mitigated conditions would be approximately 0.13 $\mu g/m^3$, which would occur at the MEIR associated with Year 1 construction activities (see Figure 13). Based on the chronic inhalation REL for DPM (5 $\mu g/m^3$), the calculated chronic hazard quotient during the maximum exposure to DPM concentration would be 0.026, which is below the BAAQMD's non-cancer hazard index threshold value of 1.0. The proposed project, therefore, would not result in significant non-carcinogenic health risks to receptors from DPM exposure.

Criteria Air Pollutant Exposure

As described in Section 3.3.1, both the U.S. EPA and CARB regulate common air pollutants on the basis of human health and/or environmental criteria, with the most commonly regulated air pollutants including NOx, PM, CO, etc., which can cause adverse human health effects. As shown in Table 3-3 and Table 3-4, the potential emissions of NOx, CO, and PM associated with development activities would not exceed the BAAQMD-recommended regional thresholds. This impact would be less than significant.

Carbon Monoxide Hotspots

A CO hotspot is an area of localized CO pollution that is caused by severe vehicle congestion on major roadways, typically near high volume intersections. The BAAQMD developed a screening threshold in 2010 which states that any project involving an intersection experiencing 44,000 vehicles per hour would require detailed analysis (BAAQMD, 2017 pg. 3-4). The proposed project would add approximately 1,936 net new vehicle trips to the roadway system per day, with a total of 220 and 216 net new trips during the AM and PM peak hours, respectively (Hexagon 2022). These volumes are well below the BAAQMD screening threshold. The proposed project would not cause intersection volumes to exceed any hourly (44,000) screening vehicle volumes maintained by the BAAQMD and, therefore, would not result in significant CO concentrations. This impact would be less than significant.

d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

Less Than Significant Impact. Construction of the project would generate typical odors associated with construction activities, such as vehicle exhaust odors. The odors generated by the project would be intermittent and localized in nature and would disperse quickly. There are no other anticipated odor emissions associated with project operation. Therefore, the project would not create emissions or odors that adversely affect a substantial number of people. This impact would be less than significant.

3.3.4 References

Bay Area Air Quality Management District (BAAQMD). 2012. Recommended Methods for Screening and Modeling Local Risks and Hazards. May 2012. https://www.baaqmd.gov/~/media/files/planning-and-research/ceqa/risk-modeling-approach-may-2012.pdf?la=en

_____2016. Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines. January 2016. https://www.baaqmd.gov/~/media/files/planning-and-research/rules-and-regs/workshops/2016/reg-2-5/hra-guidelines_clean_jan_2016-pdf.pdf?la=en

_____2017a. “Air Quality Standards and Attainment Status”. BAAQMD, Research & Data, Air Quality Standards & Attainment Status. January 5, 2017. Accessed on December 29, 2021 at http://www.baaqmd.gov/research-and-data/air-quality-standards-and-attainment-status.

_____2017b. *California Environmental Quality Act Air Quality Guidelines*. San Francisco, CA. June 2010, updated May 2017.

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Hexagon Transportation Consultants (Hexagon) 2022. “405 Industrial Road (San Carlos) Trip Generation 2022.01.21.pdf” Transmitted from Rueben Rodriguez, Hexagon Transportation Consultants, to Phil Gleason, MIG, on January 21, 2022. Email. “RE: 405 Industrial Road CEQA – data request”.

Office of Environmental Health Hazard Assessment (OEHHA). 2015. Air Toxics Hot Spots Program Guidance Manual. February 2015. https://oehha.ca.gov/media/downloads/crnr/2015guidancemanual.pdf

3.4 BIOLOGICAL RESOURCES

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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?	☐	☒	☐	☐
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?	☐	☐	☐	☒

3.4.1 Environmental Setting

The project site is located within the San Mateo, California 7.5-minute USGS quadrangle. It is in the watershed of Steinberger Slough, downstream of both the Belmont Creek and Pulgas Creek watersheds (Tillery, 2007). MIG biologists Kim Briones and Alex Broskoff conducted a field visit of the project site and surrounding vicinity on February 3, 2022.

Currently, the site is almost entirely paved and is occupied by a self-storage facility. There is one tree on the property; however, the property is surrounded by neighboring screening vegetation in the Caltrans right-of-way. The project site is bordered on the south and east by an engineered, natural bottom channel in the Caltrans right-of-way that collects stormwater from San Carlos and empties into Phelps Slough, approximately 0.3 miles northeast of the project site. Phelps Slough enters a lagoon before being released to Steinberger Slough through a tidegate. During the February 3, 2022, site visit the channel had flowing water and contained wetland plants.

Common Wildlife Species Observed

Wildlife observed in the mixed woodland habitat during the February 3, 2022, site visit includes black phoebe (*Sayornis nigricans*), bushtit (*Psaltriparus minimus*), house finch (*Haemorhous mexicanus*), and Canada goose (*Branta canadensis*-feces observed near creek). Other species that are common in stream and mixed woodland habitats in urban areas may also be present, but were not observed include; western fence lizard (*Sceloporus occidentalis*), Northern alligator lizard (*Elgaria coerulea*) and gopher snake (*Pituophis catenifer*), Anna's hummingbird (*Calypte anna*), western scrub jay (*Aphelocoma californica*), American crow (*Corvus brachyrhynchos*), California towhee (*Pipilo crissalis*), dark-eyed junco (*Junco hyemalis*), house finch (*Carpodacus purpureus*), Eastern fox squirrel (*Sciurus niger*), northern raccoon (*Procyon lotor*), Virginia opossum (*Didelphis virginiana*), and striped skunk (*Mephitis mephitis*). One special status mammal species, the San Francisco dusky-footed woodrat (*Neotoma fuscipes annectens*), also commonly occurs in this habitat type, but none of its characteristic perennial middens were observed to be present.

Existing Land Cover Types, Vegetation Communities, and Habitats

Developed

The project parcel consists of a paved lot with multiple self-storage buildings. Only limited, sparse ornamental plantings are present on the project site, although the southwestern corner of the site contains an open drainage ditch (see Figure 3). Developed habitats have limited value to most wildlife species, but a few urban-adapted species such as mourning dove (*Zenaida macroura*), and house finch (*Haemorhous mexicanus*), may nest adjacent to the developed portion of the project site and on human-made features, such as light fixtures, within the project site. However, no wildlife were observed on the project site during the site visit.

Mixed Riparian Woodland

A narrow corridor supporting mixed riparian woodland is present primarily in the Caltrans right-of-way, immediately south of and adjacent to the project site. This habitat consists of ornamental and native tree species that have been planted in the Caltrans right-of-way along the property line as a vegetation break from Highway 101 and Holly Street adjacent to the project site. These species include; acacia species (*Acacia* spp.), eucalyptus species (*Eucalyptus* sp.), and coast live oak (*Quercus agrifolia*). The understory of this habitat is sparse and supports a mix of non-native herbaceous species including fennel (*Foeniculum vulgare*), cheeseweed (*Malva parviflora*), wild radish (*Raphanus raphanistrum*), vetch (vetch sp.), wood sorrel (*Oxalis* sp.), and non-native grasses.

Storm Drain Channel

The southwest corner of the project site contains an open, earthen bottom, engineered drainage channel that flows into the main channel that is in the Caltrans right of way, immediately south of the project boundary (see Figure 3 and Figure 4). These channels contain wetland vegetation and are bordered by trees. The main channel curves around the east side of the project site between the project site and the Holly Street offramp, then is culverted under Highway 101 to empty to Phelps Slough and a lagoon adjacent to Steinberger Slough.

The drainage channel within the project parcel conveys stormwater runoff from portions of the In-N-Out restaurant parcel. This drainage channel acts as a tributary to the drainage ditch in the Caltrans right-of-way. The channel supports a mostly natural earthen bed and bank that generally flows west to northeast. At the time of the February 2022 field visit this channel supported approximately 6 – 10 inches of water and is likely to be perennial. Vegetation present within the channel includes cattails (*Typha* sp.), and giant reed (*Arundo donax*). Although limited wildlife was observed during the site visit, urban-adapted species such as raccoon may forage for resources from the channel, but no individuals or sign were observed during the survey.

The geotechnical report for the project indicates that the earthen storm drain channel has marginally stable slopes that could fail under equipment or other construction loading. Therefore, slope stabilization measures, such as possibly sheet pile shoring, are expected to be necessary during construction.

Special-Status Species and Sensitive Habitats

The channel adjacent to the project site potentially provides habitat for special-status species including California red-legged frog (*Rana draytonii)* and Central California Coast steelhead (*Onchorhynchus mykiss*). Mixed riparian woodland and wetland habitats are present in and adjacent to the channel. The mixed riparian woodland provides habitat for nesting birds that are protected by state and federal law. Special-status species and sensitive habitats are discussed in greater detail further below.

3.4.2 Regulatory Setting

Federal Regulations

Federal Endangered Species Act

The Federal Endangered Species Act (FESA) of 1973, as amended, provides the regulatory framework for the protection of plant and animal species (and their associated critical habitats), which are formally listed, proposed for listing, or candidates for listing as endangered or threatened under FESA. FESA has the following four primary components: (1) provisions for listing species; (2) requirements for consultation with the United States Fish and Wildlife Service (USFWS) and the National Oceanic and Atmospheric Administration's National Marine Fisheries Service (NOAA Fisheries); (3) prohibitions against "taking" (i.e., harassing, harming, hunting, shooting, wounding, killing, trapping, capturing, or collecting, or attempting to engage in any such conduct) of listed species; and (4) provisions for permits that allow incidental "take". FESA also discusses recovery plans and the designation of critical habitat for listed species.

Both the USFWS and NOAA Fisheries share the responsibility for administration of FESA. Section 7 requires federal agencies, in consultation with, and with the assistance of the USFWS or NOAA Fisheries, as appropriate, to ensure that actions they authorize, fund, or carry out are not likely to jeopardize the continued existence of threatened or endangered species or result in the destruction or adverse modification of critical habitat for these species. Non-federal agencies and private entities can seek authorization for take of federally listed species under Section 10 of FESA, which requires the preparation of a habitat conservation plan.

U.S. Migratory Bird Treaty Act

The U.S. Migratory Bird Treaty Act (MBTA; 16 USC §§ 703 et seq., Title 50 Code of Federal Regulations [CFR] Part 10) states it is "unlawful at any time, by any means or in any manner, to pursue, hunt, take, capture, kill; attempt to take, capture or kill; possess, offer for sale, sell, offer to barter, barter, offer to purchase, purchase, deliver for shipment, ship, export, import, cause to be shipped, exported, or imported, deliver for transportation, transport or cause to be transported, carry or cause to be carried, or receive for shipment, transportation, carriage, or export any migratory bird, any part, nest, or egg of any such bird, or any product, whether or not manufactured, which consists, or is composed in whole or in part, of any such bird or any part, nest or egg thereof…" In short, under MBTA it is illegal to disturb a nest that is in active use, since this could result in killing a bird, destroying a nest, or destroying an egg. The USFWS enforces MBTA. The MBTA does not protect some birds that are non-native or human-introduced or that belong to families that are not covered by any of the conventions implemented by MBTA. In 2017, the USFWS issued a memorandum stating that the MBTA does not prohibit incidental take; therefore, the MBTA is currently limited to purposeful actions, such as directly and knowingly removing a nest to construct a project, hunting, and poaching.

Clean Water Act

The Clean Water Act (CWA) is the primary federal law regulating water quality. The implementation of the CWA is the responsibility of the U.S. Environmental Protection Agency (EPA). However, the EPA depends on other agencies, such as the individual states and the U.S. Army Corps of Engineers (USACE), to assist in implementing the CWA. The objective of the CWA is to "restore and maintain the chemical, physical, and biological integrity of the Nation's waters." Section 404 and 401 of the CWA apply to activities that would impact waters of the U.S. The USACE enforces Section 404 of the CWA, and the California State Water Resources Control Board enforces Section 401.

Section 404

As part of its mandate under Section 404 of the CWA, the EPA regulates the discharge of dredged or fill material into "waters of the United States" (U.S.). "Waters of the U.S." include territorial seas, tidal waters, and non-tidal waters in addition to wetlands and drainages that support wetland vegetation, exhibit ponding or scouring, show obvious signs of channeling, or have discernible banks and high-water marks. Wetlands are defined as those areas "that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions" (33 CFR 328.3(b)). The discharge of dredged or fill material into waters of the U.S. is prohibited under the CWA except when in compliance with Section 404 of the CWA. Enforcement authority for Section 404 was given to the USACE, which it accomplishes under Its regulatory branch. The EPA has veto authority over the USACE's administration of the Section 404 program and may override a USACE decision with respect to permitting.

Substantial impacts to waters of the U.S. may require an Individual Permit. Projects that only minimally affect waters of the U.S. may meet the conditions of one of the existing Nationwide Permits, provided that such permits' other respective conditions are satisfied. A Water Quality Certification or waiver pursuant to Section 401 of the CWA is required for Section 404 permit actions (see below).

Section 401

Any applicant for a federal permit to impact waters of the U.S. under Section 404 of the CWA, including Nationwide Permits where pre-construction notification is required, must also provide to the USACE a certification or waiver from the State of California. The "401 Certification" is provided by the State Water Resources Control Board through the local Regional Water Quality Control Board (RWQCB).

The RWQCB issues and enforces permits for discharge of treated water, landfills, storm-water runoff, filling of any surface waters or wetlands, dredging, agricultural activities and wastewater recycling. The RWQCB recommends the "401 Certification" application be made at the same time that any applications are provided to other agencies, such as the USACE, USFWS, or NOAA Fisheries. The application is not final until completion of environmental review under CEQA. The application to the RWQCB is similar to the pre-construction notification that is required by the USACE. It must include a description of the habitat that is being impacted, a description of how the impact is proposed to be minimized and proposed mitigation measures with goals, schedules, and performance standards. Mitigation must include a replacement of functions and values, and replacement of wetland at a minimum ratio of 2:1, or twice as many acres of wetlands provided as are removed. The RWQCB looks for mitigation that is on site and in-kind, with functions and values as good as or better than the water-based habitat that is being removed.

State Regulations

California Environmental Quality Act (CEQA)

CEQA Guidelines Section 15380 defines endangered, threatened, and rare species for purposes of CEQA and clarifies that CEQA review extends to other species that are not formally listed under the state or federal Endangered Species acts but that meet specified criteria. The state maintains a list of sensitive, or "special-status", biological resources, including those listed by the state or federal government or the California Native Plant Society (CNPS) as endangered, threatened, rare or of special concern due to declining populations. During CEQA analysis for a proposed project, the California Natural Diversity Data Base (CNDDB) is usually consulted. CNDDB relies on information provided by the California Department of Fish and Wildlife (CDFW), USFWS, and CNPS, among others. Under CEQA, the lists kept by these and any other widely recognized organizations are considered when determining the impact of a project.

California Endangered Species Act

The California Endangered Species Act (CESA; Fish and Game Code 2050 et seq.) generally parallels FESA. It establishes the policy of the State to conserve, protect, restore, and enhance threatened or endangered species and their habitats. Section 2080 of the California Fish and Game Code prohibits the take, possession, purchase, sale, and import or export of endangered, threatened, or candidate species, unless otherwise authorized by permit or by the regulations. "Take" is defined in Section 86 of the California Fish and Game Code as to "hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture, or kill." This definition differs from the definition of "take" under FESA. CESA is administered by CDFW. CESA allows for take incidental to otherwise lawful projects but mandates that State lead agencies consult with the CDFW to ensure that a project would not jeopardize the continued existence of threatened or endangered species.

Native Plant Protection Act

The Native Plant Protection Act (NPPA) was created in 1977 with the intent to preserve, protect, and enhance rare and endangered plants in California (California Fish and Game Code sections 1900 to 1913). The NPPA is administered by CDFW, which has the authority to designate native plants as endangered or rare and to protect them from "take." CDFW maintains a list of plant species that have been officially classified as endangered, threatened, or rare. These special-status plants have special protection under California law and projects that directly impact them may not qualify for a categorical exemption under CEQA guidelines.

Fully Protected Species and Species of Special Concern

The classification of California fully protected (CFP) species was the CDFW's initial effort to identify and provide additional protection to those animals that were rare or faced possible extinction. Lists were created for fish, amphibians and reptiles, birds, and mammals. Most of the species on these lists have subsequently been listed under CESA and/or FESA. The Fish and Game Code sections (§5515 for fish, §5050 for amphibian and reptiles, §3511 for birds, §4700 for mammals) deal with CFP species and state that these species "…may not be taken or possessed at any time and no provision of this code or any other law shall be construed to authorize the issuance of permits or licenses to take any fully protected species" (CDFW Fish and Game Commission 1998). "Take" of these species may be authorized for necessary scientific research. This language makes the CFP designation the strongest and most restrictive regarding the "take" of these species. In 2003, the code sections dealing with CFP species were amended to allow the CDFW to authorize take resulting from recovery activities for state-listed species.

California species of special concern (CSSC) are broadly defined as animals not listed under FESA or CESA, but which are nonetheless of concern to CDFW because they are declining at a rate that could result in listing, or historically occurred in low numbers and known threats to their persistence currently exist. This designation is intended to result in special consideration for these animals by CDFW, land managers, consulting biologists, and others, and is intended to focus attention on the species to help avert the need for costly listing under FESA and CESA, and cumbersome recovery efforts that might ultimately be required. This designation also is intended to stimulate collection of additional information on the biology, distribution, and status of poorly known at-risk species, and focus research and management attention on them. Although these species generally have no special legal status, they are given special consideration under CEQA during project review.

California Migratory Bird Protection Act

Fish & Game Code section 3513 states that federal authorization of take or possession is no longer lawful under the state Fish & Game Code if the federal rules or regulations are inconsistent with state law. The California Migratory Bird Protection Act (MBPA) was passed in September 2019 to provide a level of protection to migratory birds in California consistent with the U.S. MBTA prior to the 2017 rule change limiting protection of migratory birds under the U.S. MBTA to purposeful actions (i.e., directly and knowingly removing a nest to construct a project, hunting, and poaching). Thus, under the MBPA, protections for migratory birds in California are consistent with rules and regulations adopted by the United States Secretary of the Interior under the U.S. MBTA before January 1, 2017. The MBPA reverts to existing provisions of the U.S. MBTA on January 20, 2025.

Nesting Birds

Nesting birds, including raptors, are protected under California Fish and Game Code Section 3503, which reads, “It is unlawful to take, possess, or needlessly destroy the nest or eggs of any bird, except as otherwise provided by this code or any regulation made pursuant thereto.” In addition, under California Fish and Game Code Section 3503.5, “it is unlawful to take, possess, or destroy any birds in the orders Falconiformes or Strigiformes (birds-of-prey) or to take, possess, or destroy the nest or eggs of any such bird except as otherwise provided by this code or any regulation adopted pursuant thereto”. Passerines and non-passerine land birds are further protected under California Fish and Game Code 3513. As such, CDFW typically recommends surveys for nesting birds that could potentially be directly (e.g., actual removal of trees/vegetation) or indirectly (e.g., noise disturbance) impacted by project-related activities. Disturbance during the breeding season could result in the incidental loss of fertile eggs or nestlings, or otherwise lead to nest abandonment. Disturbance that causes nest abandonment and/or loss of reproductive effort is considered “take” by CDFW.

Non-Game Mammals

Sections 4150-4155 of the California Fish and Game Code protects non-game mammals, including bats. Section 4150 states “A mammal occurring naturally in California that is not a game mammal, fully protected mammal, or fur-bearing mammal is a nongame mammal. A non-game mammal may not be taken or possessed except as provided in this code or in accordance with regulations adopted by the commission”. The non-game mammals that may be taken or possessed are primarily those that cause crop or property damage. Bats are classified as a non-game mammal and are protected under California Fish and Game Code, in addition to being protected if they are a listed species (e.g., CSSC, CFP, state or federal threatened, or state or federal endangered).

Sensitive Vegetation Communities

Sensitive vegetation communities are natural communities and habitats that are either unique in constituent components, of relatively limited distribution in the region, or are of particularly high wildlife value. These communities may or may not necessarily contain special-status species. Sensitive natural communities are usually identified in local or regional plans, policies, or regulations, or by the CDFW (i.e., CNDDB) or the USFWS. The CNDDB identifies a number of natural communities as rare, which are given the highest inventory priority (Holland 1986; CDFW 2016). Impacts to sensitive natural communities and habitats must be considered and evaluated under CEQA (CCR: Title 14, Div. 6, Chap. 3, Appendix G).

Porter-Cologne Water Quality Control Act

The intent of the Porter-Cologne Water Quality Control Act (Porter-Cologne) is to protect water quality and the beneficial uses of water, and it applies to both surface and ground water. Under this law, the State Water Resources Control Board develops statewide water quality plans, and the RWQCBs develop basin plans, which identify beneficial uses, water quality objectives, and implementation plans. The RWQCBs have the primary responsibility to implement the provisions of both statewide and basin plans. Waters regulated under Porter-Cologne, referred to as "waters of the State," include isolated waters that are not regulated by the USACE. Projects that require a USACE permit, or fall under other federal jurisdiction, and have the potential to impact waters of the State are required to comply with the terms of the Water Quality Certification Program. If a proposed project does not require a federal license or permit, any person discharging, or proposing to discharge, waste (e.g., soil) to waters of the State must file a Notice of Intent (NOI) or a Report of Waste Discharge and receive either waste discharge requirements (WDRs) or a waiver to WDRs before beginning the discharge.

State and Local Requirements to Control Construction-Phase and Post-Construction Water Quality Impacts

Construction Phase. The CWA has nationally regulated the discharge of pollutants to the waters of the U.S. from any point source since 1972. In 1987, amendments to the CWA added Section 402(p), which established a framework for regulating nonpoint source storm water discharges under the National Pollutant Discharge Elimination System (NPDES). The NPDES is a permitting system for the discharge of any pollutant (except for dredge or fill material) into waters of the U.S. In California, this permit program is administered by the RWQCBs. The NPDES General Construction Permit requirements apply to clearing, grading, and disturbances to the ground such as excavation. Construction activities on one or more acres are subject to a series of permitting requirements contained in the NPDES General Construction Permit. This permit requires the preparation and implementation of a Stormwater Pollution Prevention Plan (SWPPP) that includes Best Management Practices (BMPs) to be implemented during project construction. The project sponsor is also required to submit a Notice of Intent (NOI) with the State Water Resources Control Board Division of Water Quality. The NOI includes general information on the types of construction activities that would occur as part of the proposed project.

Local

City of San Carlos Municipal Code – Interim Protected Tree Ordinance

All "Protected Trees" in the City of San Carlos require a permit before pruning 25% or more of the tree and or removal of the tree. All trees under the categories of "Significant" and "Heritage" are considered a Protected Tree.

A "Significant Tree" is defined as any tree with a circumference of 36 inches or greater at 48 inches above natural grade. The following trees are not considered "Significant Trees" regardless of their size: bailey acacia (*Acacia baileyana*), green acacia (*Acacia dedurrens*),

black Acacia (*Acacia melanoxylon*), Tree of Heaven (*Ailianthus altissima*), Monterey pine (*Pinus radiata*), eucalyptus spp., and fruit trees of any kind.

A "Heritage Tree" is defined as having a certain circumference at 48 inches above natural grade and includes the following species:

- single/multi stem 30"+ California buckeye (*Aesculus californica*),
- single/multi stem 30"+ pacific madrone (*Arbutus menziesii*),
- single/multi stem 30"+ coast live oak (*Quercus agrifolia*),
- single/multi stem 30"+ valley oak (*Quercus lobata*), single/multi stem 24"+ blue oak (*Quercus douglassii*),
- single/multi stem 24"+ interior live oak (*Quercus wislizenii*),
- single/multi stem 72"+ coast redwood (*Sequoia sempervirens*), and single/multi stem 48"+ California bay laurel (*Umbellularia californica)*.

The goal of the Interim Protected Tree Ordinance is to ensure continued canopy cover is maintained or increased. The replacement tree(s) should therefore be either a heritage tree species (as listed above), or be an in-kind replacement unless the replacement is an invasive species or the species is unsuitable for a given location, as determined by a certified arborist. The size of the replacement tree is determined by the Community Development Director (San Carlos 2021).

3.4.3 Discussion

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?

Less than Significant Impact with Mitigation Incorporated. The project's potential impacts on special-status species and nesting birds are discussed below.

Special-status Species

For the purposes of this CEQA document, special-status species include those plant and animals listed, proposed for listing or candidates for listing as threatened or endangered by USFWS or NOAA under the FESA; those listed or proposed for listing as rare, threatened or endangered by CDFW under the CESA; animals designated as Fully Protected or Species of Special Concern by the CDFW; and plants listed as Rank 1A, 1B, 2, 3 and 4 of the California Native Plant Society Inventory of Rare and Endangered Plants (CNPS Inventory).

Special-Status Plants. A list of special-status plants with some potential for occurrence in the project vicinity was compiled using the CNPS Inventory of Rare and Endangered Plants (CNPS 2022) and CNDDB records (CNDDB 2022) and reviewed for their potential to occur on the project site. Based on an analysis of the documented habitat requirements and occurrence records associated with these species, all were determined to be absent from the project site. These species were considered absent from the project site due to its mostly developed or disturbed habitat conditions. Thus, the project would have no impact on special status plants.

Special-Status Animals. Those special-status animal species that were considered for their potential to occur on the project site include the federally-threatened Central California Coast steelhead (*Onchorhynchus mykiss*) and California red-legged frog (*Rana draytonii*), a federally threatened and California species of special concern.

California red-legged frog (Rana draytonii). Although there is potentially suitable aquatic habitat for the California red-legged frog, the channel and surrounding area are unsuitable for this species due to the lack of suitable upland habitat and urban nature of the Holly Street / Industrial Road intersection and the Holly Street / U.S.101 intersection. The only recorded occurrence of California red-legged frog is approximately 4 miles to the west (CNDDB 2022). The site is isolated from this known population by the surrounding development and otherwise unsuitable habitat which does not provide habitat connectivity to the project site. Therefore, California red-legged frog is highly unlikely to occur within the project site.

Central California Coast steelhead (Onchorhynchus mykiss). Although there is aquatic habitat present at the storm drain channel, it lacks suitable spawning habitat (e.g., gravel substrate) and supports numerous barriers to movement including several tidal gates and underground culverts. Furthermore, steelhead are not known from this storm drain channel (Leidy 2015). Therefore, Central California Coast steelhead is not expected to occur within the project site

There is no USFWS-designated critical habitat on or near the project site (USFWS, 2022). Thus, the project would have no impact on critical habitat.

Nesting Birds

Nesting birds, including raptors, protected under the MBTA and California Fish and Game Code are potentially present in the trees and shrubs in the project area. Birds that potentially nest in the developed and landscaped areas within and adjacent to the project site may be prone to disturbance. If construction activities occur during the avian breeding season (February 1 to September 15), injury to individuals or nest abandonment could occur. Construction noise and increased activity on the site could temporarily disturb nesting or foraging activities, potentially resulting in the abandonment of nest sites. Additionally, the removal of the one tree on the project site (a 5-inch *Prunus* sp. measured at 48-inches above grade), and potentially several trees for the pedestrian bridge, could impact nesting birds.

As a COA for the proposed project, the City would require the implementation of the following measures to avoid and/or minimize impacts on active nests of birds protected by the MBTA and the California Fish and Game Code (see Table 2-2).

> **COA:** To ensure that project activities comply with the Migratory Bird Treaty Act and California Fish and Game Code, the following measures shall be implemented:
>
> a. To the extent feasible, construction activities should be scheduled to avoid the nesting season. If construction activities are scheduled to take place outside the nesting season, all impacts to nesting birds protected under the MBTA and California Fish and Game Code will be avoided. The nesting season for most birds in San Carlos extends from February 1 through August 31.
> b. If it is not possible to schedule construction activities between September 1 and January 31, then pre-construction surveys for nesting birds should be conducted by a qualified biologist to ensure that no nests will be disturbed during project implementation. These surveys shall be conducted no more than seven days prior to the initiation of construction activities. During this survey, the biologist will inspect all trees and other potential nesting habitats (e.g., shrubs, ruderal grasslands, and buildings) in and immediately adjacent to the impact areas for nests. If an active nest is found sufficiently close to work areas to be disturbed by these activities, the biologist will determine the extent of a construction-free buffer zone to be established around the nest (typically 300 ft for raptors and 100 ft for other species, as recommended by the California Department of Fish and Wildlife), to ensure that no nests of species protected by the Migratory Bird Treaty Act and California Fish and Game Code will be disturbed during project implementation.

c. If construction activities will not be initiated until after the start of the nesting season, all potential nesting substrates (e.g., bushes, trees, grasses, and other vegetation) that are scheduled to be removed by the Project be removed prior to the start of the nesting season (e.g., prior to February 1). This will preclude the initiation of nests in this vegetation, and prevent the potential delay of the Project due to the presence of active nests in these substrates.

Bird Collisions

The project involves redeveloping a windowless, single story self-storage facility with a six-story building with a glass facade. Glass windows and facades have the potential to cause injury or mortality to birds when birds collide with these surfaces. Birds do not perceive glass as an obstruction in the same way that humans do. As a result, they may collide with glass walls or windows if the glass reflects the sky or nearby vegetation and is not perceived as an obstruction, when transparent glass appears to be a clear pathway, or when vegetation behind transparent glass (such as behind glass railings) appears unobstructed.

Currently, no natural habitat is present in the developed portion of the project site and bird activity is low. However, vegetation along the storm drain channel, which borders the site to the east and south does attract a variety of urban-adapted bird species. the facades of proposed building would mainly be composed of glass, and the project would incorporate landscaping with trees, grasses, and shrubs around the building and adjacent to the pedestrian path and storm drain channel. While this landscaping is minimal and would not have a high habitat value to birds, it would attract common urban-adapted birds that are resident in the area and increase bird activity to some degree, compared with existing conditions. Therefore, following construction of the project, birds using the on-site habitats and flying between habitats on the site and the storm drain channel have some potential to collide with the new building. Special-status bird species are not expected to use the habitats onsite or adjacent to the project.

The most common bird strike zone is from the ground to 60 feet, and then again at 500 feet for skyscrapers (SF Planning Department 2011). The proposed building would be glazed from about 22 feet to about 87 feet above grade. Glazing starts to be a hazard to birds at about 24 square feet in size, and the building has expanses of glass that exceed that size.

Because the lower 22 feet of the building would not have glazing (that would impact birds), the potential impact is significantly reduced. The project proposes to use Guardian Glass with a SNX 51/23 coating, and a glass frit pattern on the southeast corner of the building (RMW 2021; Sheet A3.1.1). The frit pattern may be more visible to birds and reduce the likelihood of collision in that area, depending on the design.

The use of glass with a light reflectance of 16% also reduces collision hazard to birds (ABC Birds 2020). According to the Glare Study prepared for the project, “the building’s specified glass has14% exterior visual reflectance, which is not considered “highly reflective” while the orientation of the building’s elevations work to limit the times when and the areas where reflections are visible” (see Appendix A).

There are no adopted San Mateo County or City of San Carlos bird-safe standards. Despite some of the bird-friendly design features of the building, there could be a cumulatively significant loss of birds over time and in addition to bird loss from other similar buildings planned in San Carlos. The cumulative impact is potentially significant under CEQA.

Accordingly, the City would implement Mitigation Measure BIO-1 to minimize the loss of birds by window strike.

Impact BIO-1: The new six-story building will introduce new glass facades that could result in bird collisions that injures or kills birds. This may result in a cumulative loss of

birds over time and in addition to other similar buildings planned in San Carlos that is a potentially significant impact under CEQA.

Mitigation Measure BIO-1: Bird-safe Design. The project shall implement the following bird-safe design considerations:

- Use glazing or window coatings/markings that reduce bird strike hazard caused by transparency, reflectance, black hole or passage effect, etc., such as Guardian Bird1st etch glass or similar. See recommendations by the American Bird Conservatory at https://abcbirds.org/,
- Minimize plants or landscaped areas behind glass or on the rooftop,
- Minimize concentrations of plantings adjacent to glass facades.

Effectiveness: Will minimize bird collisions and avoid a significant cumulative impact.

Implementation: By the Applicant or its contractor.

Timing: During the design phase.

Monitoring: The City shall verify during plan check that the project has incorporated additional bird collision avoidance measures to minimize bird deaths caused by collision with building windows.

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 US Fish and Wildlife Service?

Less Than Significant with Mitigation Incorporated. The pathway proposed for the project would impact mixed riparian woodland adjacent to the drainage channel, and could require the removal of several trees. The channel bottom also supports wetland vegetation that varies in density and location depending on storm flows and the regular storm drain maintenance that the City completes under a permit from CDFW. The mixed riparian woodland continues along the main drainage channel between the channel and the project parcel around the south and east sides of the site. There are no other sensitive natural communities, as defined by CDFW, on or adjacent to the parcel. Coastal salt marsh occurs approximately 0.3 mile east of the project site at the San Francisco Bay shore, but the project would not impact it.

The proposed project includes the potential construction of a pedestrian pathway bridge that would connect the southeast corner of the property to the Holly Street / Industrial Road intersection. The renderings show that the pathway would extend over/across the drainage and include footings in the drainage. Depending on the design of the walkway and how much of the drainage is impacted, different permits from federal and state agencies would be required based on the impacts within each agency's jurisdiction. The permits may include a 1602 Lake and Streambed Alteration Agreement (LSAA) from CDFW, a 401 Water Quality Certification from the RWQCB, and a Clean Water Act 404 permit from the USACE.

The geotechnical report for the project indicates that the earthen storm drain channel in the Caltrans right of way has marginally stable slopes that could fail under equipment or other construction loading. Therefore, slope stabilization measures, such as possibly sheet pile shoring, may be necessary during construction. If the slope stabilization measures remove riparian vegetation or impact the bed, bank, or channel of the drainage, these actions trigger the requirement for permits as noted above.

The project also proposes to construct a new storm drain outfall into this drainage ditch (see Figure 12). The new storm drain outfall would require CDFW and RWQCB permits, and would require authorization from the USACE if it extends below the ordinary high water mark.

Impact BIO-2. The proposed pathway impacts the channel and requires permits from California Department of Fish and Wildlife (CDFW), Regional Water Quality Control Board (RWQCB), and U.S. Army Corps of Engineers (USACE). The project may also impact the adjacent storm channel and mixed riparian vegetation along the drainage due to slope stability issues. The project will need to comply with the federal Clean Water Act, state Porter-Cologne Water Quality Act, and Fish and Game Code.

Mitigation BIO-2. Prepare Jurisdictional Wetland Delineation. If the Applicant constructs a pedestrian bridge from the Project site to the Holly Street / Industrial Road intersection in Caltrans right-of-way, a jurisdictional wetland delineation shall be prepared. The jurisdictional wetland delineation shall inform the design the pathway and slope stabilization to avoid or minimize permanent impacts to the riparian zone and channel. Obtain permits as required and follow all conditions stipulated in the permits. The permit applications will determine the amount of impact, indicate the erosion control measures that will be used, and show how riparian vegetation will be protected/restored. If compensatory mitigation is required it may entail an offsite location or could include further restoration of riparian habitat along the channel. Since this is in the Caltrans right-of-way, the permits and any necessary mitigation will also involve Caltrans.

Effectiveness: Will reduce project impacts to the riparian zone and drainage channel.

Implementation: By the Applicant or its contractor.

Timing: Prior to bridge/pathway construction and site grading.

Monitoring: The City shall verify that the Applicant has obtained the necessary approvals for the pathway/bridge from Caltrans and state and federal resource agencies, as appropriate.

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?

Less Than Significant with Mitigation Incorporated. The southwest corner of the project site and the adjacent Caltrans right-of-way have open drainage ditches that contain federally protected wetland habitat. The proposed project may construct a pedestrian pathway, including a bridge, over the drainage channel located between the property and Holly Street. As currently proposed, the bridge would cross over the open drainage channel within the project site into the Caltrans right-of-way along the southern property boundary. Once in the Caltrans right-of-way, the bridge would parallel the drainage channel and connect to a new sidewalk leading to the Industrial Road intersection. One or more footings would be placed in the channel, and while not anticipated currently, may require the removal of non-native trees (e.g., eucalyptus and non-native oak) upon final design.[11] The channel bottom supports wetland vegetation that is likely to vary in density depending on storm flows and regular storm drain maintenance that the city completes under a permit from CDFW. The bridge would shade portions of the channel and may reduce the amount of wetland vegetation. There are no other sensitive natural communities, as defined by CDFW, on site. Coastal salt marsh occurs approximately 0.3 mile east of the project site at the San Francisco Bay shore, but the project would not impact it.

The current design of the pedestrian bridge, as shown in the project renderings (see Figure 10), would result in impacts that require a 1602 LSAA from CDFW, and a permit from the RWQCB. If the footing(s) result in fill within the ordinary high-water mark within the channel bed, a 404

[11] Although the preliminary details regarding the pedestrian pathway do not mention the removal of any trees, there are four trees in the pathway alignment.

permit would also be required under the CWA from the USACE. The Applicant would be required to work with Caltrans, which owns the property, and to obtain the necessary permits. The permits would include specific conditions to address the impacts determined by a jurisdictional delineation and further design review.

Potential impacts to wetlands would be less than significant with Mitigation BIO-2.

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?

Less than Significant Impact with Mitigation Incorporated. The project site is in a developed area with limited wildlife habitat and with existing barriers to wildlife movement such as roads and buildings. Urban-adapted wildlife may occasionally move through the natural and developed portions of the site, but no important wildlife nursery areas are present in or adjacent to the project site or would be impacted by the project. The proposed project is an infill development in an urban area, replacing an existing self-storage facility with a new six-story building and landscaped areas. The project would not result in any physical barriers to wildlife movement or impede the use of native nursery sites, and any common, urban-adapted species that currently move through the project site or occasionally nest on the site would continue to be able to do so following project construction.

However, the project is located along the Pacific Flyway. Although the site is not located adjacent to any natural open space areas it is approximately 0.5 mile from the San Francisco Bay, where large numbers of resident and migratory birds, including several species of terrestrial passerines, forage and rest. Even though a majority of the site is developed, resident and migratory birds in the vicinity of the site may occasionally move through the riparian area and the site itself after it is redeveloped. Thus, there is some potential for these birds to collide with the glass facades on the new 6-story building (see discussion under criterion a) for Bird Collisions). The number of birds that may potentially be injured or killed, compared to existing conditions is potentially cumulatively significant under CEQA. See Mitigation BIO-1 which addresses this issue.

e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?

Less Than Significant with Mitigation Incorporated. One tree on the project site would be removed under implementation of the proposed project. The project may also require the removal of four trees for the pathway/bridge and trimming of some trees. The geotechnical report indicates that the channel bank has low stability. If construction measures that address the bank stability impact trees within the dripline, it is possible that the project would result in additional loss of trees.

Although the preliminary details regarding the pedestrian pathway do not mention the removal of any trees, there are four trees in the pathway alignment. These trees, however, are non-native trees that are not subject to the provisions of the City's Interim Protected Tree Ordinance. Only one tree species that may be removed (coast live oak) would be subject to the tree protection ordinance. In accordance with the provisions of the City of San Carlos' tree ordinance, if any protected trees are removed or trimmed, the project would be required to comply with standard City of San Carlos tree removal permit conditions and replace the trees that are removed in accordance with these tree removal policies. Such compliance would reduce any potential impacts due to conflicts with the City's tree preservation ordinance to less than significant levels under CEQA.

Impact BIO-3. The project may require the removal of trees that are subject to the City's Interim Protected Tree Ordinance. The project may also result in damage to trees along the drainage within the Caltrans right of way.

Mitigation BIO-3. Protection of Trees. The project proponent shall obtain a permit to remove any tree(s) protected under the City's Interim Protected Tree Ordinance, as determined by an arborist, and shall also prepare a tree protection plan that includes a map of the tree protection zone and is included in the construction drawings and bid package. Removed trees will be replaced in accordance with the ordinance at the discretion of the Community Development Director. If any removed trees are within the jurisdiction of California Department of Fish and Wildlife (CDFW), and CDFW issues a Lake and Streambed Agreement for the project, the tree replacement ratios shall comply with CDFW requirements.

Effectiveness. Will assure that tree canopy is maintained in the City of San Carlos as intended by the Interim Tree Protection Ordinance, and that trees to remain are protected during construction.

Implementation. By the Applicant or its contractor.

Timing. Prior to tree trimming or removal.

Monitoring. Certified Arborist Report, tree protection plan, review by the Community Development Director.

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?

No Impact. The project site is not located within an area covered by an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan. Therefore, the project would not conflict with any such plans.

3.4.4 References

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3.5 CULTURAL RESOURCES

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a) Cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5?	☐	☐	☐	☒
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?	☐	☒	☐	☐
c) Disturb any human remains, including those interred outside of dedicated cemeteries?	☐	☒	☐	☐

3.5.1 Environmental Setting

Prehistoric

The first known human inhabitants of the San Carlos area were the Ohlone, who were named Costanoans by the Spanish. Costanoan now refers to the name of their linguistic group. The Ohlone occupied a large territory in the South Bay, including the project site. This ethnographic group settled in large permanent groupings of households, forming large villages and tribal territories known as 'tribelets' – small independent groups of usually related families occupying a specific territory and speaking the same language or dialect (Levy 1987).

More specifically, a concentration of Ohlone is believed to have lived in the Carmelita area of San Carlos, which lies in part of the city's Planning Area. Native American archaeological sites tend to be located near waterways, as well as along ridge tops, mid-slope hill terraces, alluvial flats, the base of hills, and where two vegetation communities meet. San Francisco Peninsula's proximity to both bay and marine resources led to the rapid rise in Native American tribe and tribelet populations. Due to urbanization in San Carlos and San Mateo County, archaeological data is largely missing. However, prehistoric archeological deposits have been recorded near the banks of the Pulgas Creek consisting of mammal bone and chert flakes. A midden site on the banks of the Pulgas Creek was recorded in 1990 and consisted of stone flakes and a possible hammerstone. A majority of this site was destroyed during the construction of San Carlos Avenue and nearby residential development.

Historic

The first Europeans to reach the San Francisco area were Spanish explorers in 1769 as part of the Portolá expedition. In 1774, the de Anza expedition had set out to convert the Native American tribes to Christianity, resulting in the establishment of (among others) Mission San Francisco de Asis, (Mission Dolores) founded in 1776, and Mission Santa Clara de Asis, founded in 1777. The El Camino Real – which runs through San Carlos, parallel to Industrial Road – became a heavily traveled route between Mission Dolores and Mission Santa Clara in addition to other missions along the route. This route led to the establishment of inns and roadhouses to serve travelers along the way. In this historic period, the Ohlone people were subjugated and absorbed into the mission system, resulting in the loss of their freedom of movement, their culture, and customs (Library of Congress 2022).

During the Mexican rule of California (1822 through 1848), large tracts of land were issued to private individuals, usually cattle ranchers and hide and tallow traders. What is now San Carlos

was part of a land grant issued in 1835, the “Rancho de las Pulgas” (Ranch of the Fleas), which was the largest land grant in the peninsula at 35,420 acres. What was to eventually become San Carlos was bought out of the land grant by an American, Timothy Phelps, as a dairy farm in the 1850s. In 1885 he made plans to develop a town, Phelpsville, but was unsuccessful. He then sold the land in 1887 in order to make way for further development. Three additional attempts were made to develop a town. In 1888 the San Carlos land company tried to subdivide and sell the land once owned by Phelps. Later, in 1907, the San Carlos Park Syndicate attempted to call the area ‘Oak Park’ and engaged on an elaborate sales campaign. Finally, in 1917, Frederick Drake of the Mercantile Trust installed gas and electricity to the area as well as improving the existing water infrastructure. By 1918, the first school was built, and population slowly grew. In 1925 the residents voted for incorporation, and San Carlos was officially born. Drake continued to promote the town and coined the motto "The City of Good Living" (BLM, 2022; San Carlos, 2017; Levy, J, 2003).

Modern

At the time of incorporation in 1925, San Carlos had only 600 inhabitants. It wasn’t until the Second World War and post-war economic boom, that the City experienced a significant population increase. In 1940 it grew to 3,520 residents, and in 1950 it had a population of 14,371. It was in that post war boom when the City had an industrial boom. It wasn’t until 1952, that Industrial Road was conceived; when the Industrial Committee of the San Carlos Chamber of Commerce advocated for its construction to deal with traffic circulation problems on Brittan Avenue, which connected El Camino Real and Old County Road over Southern Pacific railroad tracks. At 5:00 PM every working day the street was jammed with cars as workers “poured out” of the industrial plants east of the railroad, as recorded by the San Mateo Times. Today the city is a predominantly residential settlement of 28,406 people, with its business and industrial area in the vicinity of the project site (San Carlos, 2006; US Census, 2010; Shoecraft, 2020).

Historic Environment

The National Register of Historic Places (NRHP) and the California Register of Historic Resources (CRHR) contain buildings, structures, sites, and objects considered to be of historic significance on the National or State level, respectively. Generally speaking, to be considered eligible for inclusion, buildings, structures and objects need to be 50 years or older. The CRHR allows a greater degree of flexibility in the age criteria, and some resources can be considered historically significance before meeting the age guidelines. Additionally, the City of San Carlos maintains a listing of 52 properties that are of historical significance known as the Historical Resources Inventory. These properties are considered significant on a local level.

Both the NRHP and the CRHR contain two buildings of historic significance in the City of San Carlos: the Nathanial Brittan Party House, and the Southern Pacific Depot. However, neither of the properties are located near the project site. No resources listed on the City of San Carlos’s Historical Resources Inventory are within the project site.

3.5.2 Regulatory Setting

California Environmental Quality Act

Pursuant to CEQA, a historical resource is a resource listed in, or eligible for listing in, the California Register of Historical Resources (CRHR). In addition, resources included in a local register of historic resources or identified as significant in a local survey conducted in accordance with state guidelines are also considered historic resources under CEQA, unless a preponderance of the facts demonstrates otherwise. Per CEQA, the fact that a resource is not listed in or determined eligible for listing in the CRHR or is not included in a local register or survey shall not preclude a Lead Agency, as defined by CEQA, from determining that the resource may be a historic resource as defined in California Public Resources Code (PRC)

Section 5024.1. CEQA applies to archaeological resources when (1) the archaeological resource satisfies the definition of a historical resource or (2) the archaeological resource satisfies the definition of a "unique archaeological resource." A unique archaeological resource is an archaeological artifact, object, or site that has a high probability of meeting any of the following criteria:

1. The archaeological resource contains information needed to answer important scientific research questions and there is a demonstrable public interest in that information.
2. The archaeological resource has a special and particular quality such as being the oldest of its type or the best available example of its type.
3. The archaeological resource is directly associated with a scientifically recognized important prehistoric or historic event or person.

Health and Safety Code, Sections 7050 and 7052

Health and Safety Code Section 7050.5 declares that, in the event of the discovery of human remains outside a dedicated cemetery, all ground disturbances must cease, and the county coroner must be notified. Section 7052 establishes a felony penalty for mutilating, disinterring, or otherwise disturbing human remains, except by relatives.

Penal Code Section 622.5

Penal Code Section 622.5 provides misdemeanor penalties for injuring or destroying objects of historic or archaeological interest located on public or private lands but specifically excludes the landowner.

Government Code Section 6254(r)

Government Code explicitly authorizes public agencies to withhold information from the public relating to Native American graves, cemeteries, and sacred places maintained by the Native American Heritage Commission.

Government Code Section 6250 et. seq.

Records housed in the Information Centers of the California Historical Resources Information System (CHRIS) are exempt from the California Public Records Act.

Native American Graves Protection and Repatriation Act of 1990

The Native American Graves Protection and Repatriation Act (NAGPRA) of 1990 sets provisions for the intentional removal and inadvertent discovery of human remains and other cultural items from federal and tribal lands. It clarifies the ownership of human remains and sets forth a process for repatriation of human remains and associated funerary objects and sacred religious objects to the Native American groups claiming to be lineal descendants or culturally affiliated with the remains or objects. It requires any federally funded institution housing Native American remains or artifacts to compile an inventory of all cultural items within the museum or with its agency and to provide a summary to any Native American tribe claiming affiliation.

Native American Heritage Commission, Public Resources Code Sections 5097.9 – 5097.991

Section 5097.91 of the Public Resources Code (PRC) established the Native American Heritage Commission (NAHC), whose duties include the inventory of places of religious or social significance to Native Americans and the identification of known graves and cemeteries of Native Americans on private lands. Under Section 5097.9 of the PRC, a state policy of noninterference with the free expression or exercise of Native American religion was articulated along with a prohibition of severe or irreparable damage to Native American sanctified cemeteries, places of worship, religious or ceremonial sites or sacred shrines located on public

property. Section 5097.98 of the PRC specifies a protocol to be followed when the NAHC receives notification of a discovery of Native American human remains from a county coroner. Section 5097.5 defines as a misdemeanor the unauthorized disturbance or removal of archaeological, historic, or paleontological resources located on public lands.

California Native American Graves Protection and Repatriation Act of 2001

Codified in the California Health and Safety Code Sections 8010–8030, the California Native American Graves Protection Act (NAGPRA) is consistent with the federal NAGPRA. Intended to "provide a seamless and consistent state policy to ensure that all California Indian human remains and cultural items be treated with dignity and respect," the California NAGPRA also encourages and provides a mechanism for the return of remains and cultural items to lineal descendants. Section 8025 established a Repatriation Oversight Commission to oversee this process. The act also provides a process for non–federally recognized tribes to file claims with agencies and museums for repatriation of human remains and cultural items.

Assembly Bill 52

Assembly Bill (AB) 52 specifies that a project that may cause a substantial adverse change in the significance of a tribal cultural resource, as defined, is a project that may have a significant effect on the environment. AB 52 requires a lead agency to begin consultation with a California Native American tribe that is traditionally and culturally affiliated with the geographic area of the proposed project, if the tribe requests in writing to the lead agency, to be informed by the lead agency of proposed projects in that geographic area and the tribe requests consultation, prior to determining whether a negative declaration, mitigated negative declaration, or environmental impact report is required for a project.

San Carlos 2030 General Plan

The San Carlos 2030 General Plan was adopted in 2009. The following relevant archaeological resources policies are from the General Plan's Land Use Element.

- **Policy LU-12.1:** Evaluate historical and cultural resources early in the development review process through consultation with interested parties.
- **Policy LU-12.5:** Treat with respect and dignity any human remains discovered during implementation of public and private projects within the city and fully comply with the California Native American Graves Protection and Repatriation Act and other appropriate laws.

3.5.3 Discussion

Would the project:

a) Cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5?

No Impact. The types of cultural resources that meet the definition of historical resources under Public Resources Code (PRC) Section 21084.146 generally consist of districts, sites, buildings, structures, and objects that are significant for their traditional, cultural, and/or historical associations. Archaeological resources (i.e., sites and all prehistoric resources) are discussed under b) below. Built environment historic resources are included in this section.

The project site does not contain any historic resources listed on either the CRHR or the NRHP.

MIG conducted a California Historical Resources Information System (CHRIS) search through the Northwest Information Center (NWIC). It was completed on 10/29/2021. Within a 0.5-mile radius surrounding the project site, there are five know historic properties listed on the CHRIS database. These properties are summarized in Table 3-6 below.

Table 3-6: Historic Resources in the Project Vicinity

CHRIS Number	Name of Resource	Approximate Distance from Project Site
P-41-000808	Southern Pacific Depot	0.34 miles
P-41-001995	San Carlos Pacific Bell	0.38 miles
P-41-002196	Nell Building	0.49 miles
P-41-002657	552 El Camino	0.35 miles
P-41-002658	560 El Camino	0.35 miles

Reports gained from the CHRIS search are primarily archaeological in nature, and are summarized in b), below.

The existing self-storage structures on the site were built between 1975 and 1980, based on historical maps and aerial photography (Historic Aerials 2022). Therefore, the structures are a maximum of 47 years old.

Generally, under CEQA, the NRHP 50-year threshold is used as a guidance for determining if a structure has potential to be considered historically significant. The California Office of Historic Preservation (OHP) notes that buildings do not need to meet a 50-year threshold to be considered significant if sufficient time has passed to obtain a scholarly perspective on any events or individuals associated with the resource. However, there is no evidence of the buildings having significant connections to important people or events in history. The self-storage facility buildings fail to meet the usual age to be considered potentially eligible, on an architectural basis. Furthermore, the buildings are basic utilitarian structures with no architectural merit, and would not be considered eligible, even if they met the 50-year age guideline.

The existing self-storage structures are, therefore, not considered significant resources under CEQA, and demolition of the existing structures would not impact a historic resource pursuant to §15064.5.

The project site is located in a built-up, mixed-use area that does not contain historical resources. No buildings or structures in the vicinity eligible for the CRHR or NRHP would have their eligibility affected by the proposed project. As a result, there would be no impact to historic resources.

b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?

Less than Significant Impact with Mitigation Incorporated. MIG conducted a Sacred Lands File (SLF) search through the Native American Heritage Commission (NAHC). The search was initiated on November 11, 2021, and was returned with negative results on February 16, 2022. The NAHC were contacted on February 1, 2022, and they stated the search was delayed due to a retirement. Tribal representatives were contacted by email on February 8, 2022, using the NAHC's contact list from a recent nearby project. After receiving the negative SLF search on February 16, 2022, two additional tribal representatives were contacted that were not included on the contact list for the nearby project. MIG considers that due diligence has been completed by contacting all the tribal representatives identified by the NAHC for the proposed project.

The emails to tribal representatives requested pertinent information regarding cultural resources in the project vicinity, and included a description of the project, and maps showing the project location and project boundary. The tribes contacted on February 8, 2022, were the *Amah Mutsun Tribal Band of Mission San Juan Bautista,* the *Costanoan Rumsen Carmel Tribe*,

the *Indian Canyon Mutsun Band of Costanoan*, the *Muwekma Ohlone Indian Tribe of the SF Bay Area*, and *The Ohlone Indian Tribe*. On February 16, 2022, MIG also contacted a second representative identified for the *Indian Canyon Mutsun Band of Costanoan* as well as the Wuksache *Indian Tribe/Eshom Valley Band*.

No reply was received from any of the contacted tribes. MIG understands that as the SLF search was negative, and that no tribe responded to the request, there are no known tribal resources in the project area that have the potential to be impacted by the project.

MIG conducted a CHRIS search through the NWIC. It was completed on October 29, 2021. No historic or prehistoric archaeological resources were discovered either within the project site, or within a 0.5-mile radius surrounding the project site. Also listed on the CHRIS search were reports overlapping the project site, and reports within the 0.5-mile search radius. The reports within the project site are summarized in Table 3-7 below.

Table 3-7: Cultural Reports within the Project Area

Report Number	Year	Title	Report Type
S-003012	1975	A Field Survey of the Holly Street Interchange and Proposed Peninsula Parkway Extension	Archaeological field study
S-029573	2000	Final Report, Archaeological Survey and Record Search for the Six Fluor Global Fiber Optic Segments	Archaeological field study
S-038684	2008	A Cultural Resources Study for the San Mateo County SMART Corridors Project	Archaeological research
S-038684a	2009	Smart Corridors Geoarchaeological Sensitivity Research	Archaeological field study
S-049125	2017	Historic Property Survey Report for the US 101 Managed Lanes Project	Archaeological, Architectural/historical
S-049125a	2017	Historic Resources Evaluation Report for the US 101 Managed Lanes Project	Architectural/historical field study
S-049125b	2017	Archaeological Survey Report and Extended Phase I Study, US 101 High-Occupancy Vehicle/Express (Managed) Lanes Project	Archaeological, Excavation, Field study
S-049125c	2017	Determinations of Eligibility for the Proposed Creation of Approximately 22 Miles of Managed Lanes along United States Highway 101	OHP Correspondence

An additional 50 reports were identified by the NWIC as being within 0.5 miles of the project site. Reports S-003012 and S-38684 were retained for specific information on the project site. The other reports were linear or corridor projects that consisted of a widespread survey for linear or corridor projects, where the self-storage project site was only a small element of the overall report.

It should be noted, however, that these reports all failed to indicate the presence of archaeological resources within 0.5 miles of the project site.

S-003012

No prehistoric cultural material was noted anywhere on the field survey on and around the Holly Street interchange, which included this project site. The letter stated that the construction of an interchange ramp would have no impact to cultural resources.

S-38684

Although report S-38684 was a wider ranging report, each discrete area of this report was analyzed for archaeological sensitivity, and one of the areas of S-38684 fully overlapped the project area and did not go beyond the immediate vicinity. The report indicated that the current project area was considered high sensitivity for prehistoric archaeological resources. The project site is situated over San Francisco Bay Mud (qhbm) as mapped by the United States Geological Survey (USGS). The report states that Bay Mud has a greater chance of containing archaeological resources due to the rising water levels during the Holocene period, covering resources that may have lain on or near the waterfront at that time period. The site was considered high sensitivity due to its location, as the report indicates that it is likely that the site was situated in a drier area for a significant period of time, allowing human settlement and development before being covered by Bay Mud during a period of higher sea levels.

As mentioned in report S-38684, the site was considered high sensitivity for prehistoric archaeological resources. However, the report did not take existing development and the lack of archaeological resources in the vicinity into significant consideration. No known prehistoric resources have been found despite significant development in the project vicinity, and the chance that such resources exist confined within the project area is reduced. However, it is possible that unknown archaeological deposits associated with historic periods of San Mateo County history or unrecorded Native American prehistoric archaeological sites exist in the project site, buried deeper under soils, particularly in or under Bay Mud deposits. Due to the depth of excavation, (greater than 20 feet), if archaeological resources are present at the project site, it is very likely that project activities (e.g., site preparation, grading, excavation, and trenching for utilities) would disturb or destroy such resources.

If any archaeological deposits meeting the definition of historical resource under Public Resources Code Section 21084.1 are damaged or destroyed by ground-disturbing construction activities, the ability of the deposits to convey their significance, either as containing information about prehistory or history, or as possessing traditional or cultural significance to Native American or other descendant communities, would be materially impaired, and would constitute a significant impact to cultural resources.

Recognition of archaeological deposits before they are destroyed or damaged would reduce impacts to resources. In order for construction crews to recognize potential archaeological resources, the City will implement Mitigation Measure CUL-1 to require cultural resources training to construction personnel engaged in ground disturbing activity

Impact CUL-1: Project construction personnel may not recognize buried archaeological resources during project demolition and construction.

Mitigation Measure CUL-1: Conduct Archaeological Sensitivity Training. In anticipation of discovery of unknown archaeological resources during construction, Archaeological Sensitivity Training shall be carried out by a qualified archaeologist for all personnel who will engage in ground disturbing activities on the site. The training shall be conducted at the start of construction and prior to ground disturbance.

The training shall include suitable photographic materials showing the kinds of artifacts and evidence of prehistoric archaeological sites likely to be found in the area, as well as written and verbal descriptions for archaeological resources and signs of potential archaeological discovery. The training will also include written materials describing what to do in the event of a discovery, or suspected discovery of archaeological resource. This language will include Mitigation Measures CUL-2 and CUL-3.

Effectiveness: This measure would minimize and/or avoid impacts to unanticipated archaeological resources to less-than-significant levels.

Implementation: The Applicant shall include these measures on all appropriate bid, contract, and engineering and site plan (e.g., building, grading, and improvement plans) documents. The Applicant and/or its contractor(s) shall implement this measure prior to ground disturbance on the site.

Timing: Prior to project ground disturbance.

Monitoring: The City shall review all appropriate bid, contract, and engineering and site plan documents for inclusion of cultural resource mitigation. The City shall ensure that archaeological training has been conducted for all personnel engaged in ground moving activities, prior to ground disturbance on the site.

Existing regulations would help to ensure that development and redevelopment activities allowed under the proposed project do not cause a substantial adverse change. The San Carlos General Plan includes policies that would address impacts to historical and pre-contact archaeological deposits.

To ensure compliance with regulations, the City will implement Mitigation Measure CUL-2 to address potential impacts to undiscovered archeological resources that may be unearthed during earthmoving activities associated with the proposed project.

Impact CUL-2: Project construction may unearth or disturb previously unidentified buried archaeological resources during project demolition and construction.

Mitigation Measure CUL-2: Protection of Archaeological Resources. In the event archaeological resources are unearthed during ground-disturbing activities, all ground-disturbing activities within 100 feet of the find shall be halted so that the find can be evaluated. Ground moving activities shall not be allowed to continue until a qualified archaeologist has examined the newly discovered artifact(s) and has evaluated the area of the find.

All archaeological resources unearthed by project construction activities shall be evaluated by a qualified professional archaeologist, who meets the U.S. Secretary of the Interior's Professional Qualifications and Standards.

All Native American artifacts (tribal finds) shall be considered as a significant Tribal Cultural Resource, pursuant to PRC 21074 until the lead agency has enough evidence to make a determination of significance.

The City shall coordinate with the archaeologist to develop an appropriate treatment plan for the resources. The plan may include implementation of archaeological data recovery excavations to address treatment of the resource along with subsequent laboratory processing and analysis. If appropriate, the archaeologist may introduce archaeological monitoring on all or part of the site. An archaeological report will be written detailing all archaeological finds and submitted to the City and the Northwest Information Center.

Effectiveness: This measure would minimize and/or avoid impacts on undetected archaeological resources to less than significant levels.

Implementation: The Applicant shall include these measures on all appropriate bid, contract, and engineering and site plan (e.g., building, grading, and improvement plans) documents. The Applicant and/or its contractor(s) shall implement this measure in the event cultural resources are discovered

Timing: During all earth moving phases of project construction.

Monitoring: The City shall review all appropriate bid, contract, and engineering and site plan documents for inclusion of cultural resource mitigation. An archaeological report, if appropriate, will be written detailing all archaeological finds and submitted to the City and the Northwest Information Center.

c) Disturb any human remains, including those interred outside of dedicated cemeteries?

Less than Significant Impact with Mitigation Incorporated. The project is not located on, within, or near a known historic or modern period cemetery. The potential for historic or modern human remains being present is extremely unlikely. Human remains associated with pre-contact Native American archaeological deposits have the potential to exist in soils below the project site. Due to the depth of excavation required for the project, if present, human remains would likely be disturbed by project activity.

The City's General Plan Land Use Element Policy 12.5 provides for the treatment of any human remains discovered during implementation of public and private projects within the city and ensure that they fully comply with the California Native American Graves Protection and Repatriation Act and other appropriate laws. Additionally, the City would implement Mitigation Measure CUL-3 to reduce potential impacts should human remains be unearthed during earthmoving activities associated with the proposed project.

Impact CUL-3: Project construction, particularly excavation of the underground parking garage, may disturb human remains during project demolition and construction.

Mitigation Measure CUL-3: Protection of Human Remains. If human remains are unearthed during ground-disturbing activities, Section 7050.5(b) of the California Health and Safety code will be implemented. Section 7050.5(b) states:

> In the event of discovery or recognition of any human remains in any location other than a dedicated cemetery, there shall be no further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent remains until the coroner of the county in which the human remains are discovered has determined, in accordance with Chapter 10 (commencing with Section 27460) of Part 3 of Division 2 of Title 3 of the Government Code, that the remains are not subject to the provisions of Section 27492 of the Government Code or any other related provisions of law concerning investigation of the circumstances, manner and cause of death, and the recommendations concerning treatment and disposition of the human remains have been made to the person responsible for the excavation, or to his or her authorized representative, in the manner provided in Section 5097.98 of the Public Resources Code.

The County Coroner, upon recognizing the remains as being of Native American origin, is responsible to contact the Native American Heritage Commission (NAHC) within 24 hours. The Commission has various powers and duties, including the appointment of a Most Likely Descendant (MLD) to the Project. The MLD, or in lieu of the MLD, the NAHC, has the responsibility to provide guidance as to the ultimate disposition of any Native American remains.

Effectiveness: This measure would reduce impacts on previously unknown human remains to less than significant levels.

Implementation: The Applicant shall include these measures on all appropriate bid, contract, and engineering and site plan (e.g., building, grading, and

improvement plans) documents. The Applicant and/or its contractor(s) shall implement this measure in the event human remains are discovered.

Timing: During all earth moving phases of project construction.

Monitoring: The City shall review all appropriate bid, contract, and engineering and site plan documents for inclusion of cultural resource mitigation. The County Coroner will detail the findings in a coroner's report.

3.5.4 References

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3.6 ENERGY

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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?	☐	☐	☐	☒

3.6.1 Environmental Setting

Energy consumption is closely tied to the issues of air quality and greenhouse gas (GHG) emissions, as the burning of fossil fuels and natural gas for energy has a negative impact on both, and petroleum and natural gas currently supply most of the energy consumed in California.

In general, California's per capita energy consumption is relatively low, in part due to mild weather that reduces energy demand for heating and cooling, and in part due to the government's proactive energy-efficiency programs and standards. According to the California Energy Commission, Californians consumed about 279,510 gigawatt hours (GWh) of electricity and 12,331 million therms of natural gas in 2020 (CEC 2021a and CEC 2021b). The CEC estimates that by 2030, California's electricity consumption will reach between 326,026 GWh and 354,209 GWh with an annual growth rate of 0.99 to 1.59 percent (CEC 2017), and natural gas consumption is expected to reach between 13,207 million and 14,190 million BTU with an annual growth rate of 0.25 to 0.77 percent (CEC 2017).

In 2020, total electricity use in San Mateo County was 4,168 million kilowatt hours (kWh), including 2,516 million kWh of consumption for non-residential land uses (CEC 2021a). Natural gas consumption was 200 million therms in 2020, including 82 million therms from non-residential uses (CEC 2021b).

Energy conservation refers to efforts made to reduce energy consumption to preserve resources for the future and reduce pollution. It may involve diversifying energy sources to include renewable energy, such as solar power, wind power, wave power, geothermal power, and tidal power, as well as the adoption of technologies that improve energy efficiency and adoption of green building practices. Energy conservation can be achieved through increases in efficiency in conjunction with decreased energy consumption and/or reduced consumption from conventional energy sources.

3.6.2 Regulatory Setting

Since increased energy efficiency is closely tied to the State's efforts to reduce GHG emissions and address global climate change, the regulations, policies, and action plans aimed at reducing GHG emissions also promote increased energy efficiency and the transition to renewable energy sources. The U.S. EPA and the State address climate change through numerous pieces of legislation, regulations, planning, policy-making, education, and implementation programs aimed at reducing energy consumption and the production of GHG.

CARB Low Carbon Fuel Standard Regulation

CARB initially approved the Low Carbon Fuel Standard (LCFS) regulation in 2009, identifying it as one of the nine discrete early action measures in its original 2008 Scoping Plan to reduce California's GHG emissions. Originally, the LCFS regulation required at least a 10% percent reduction in the carbon intensity of California's transportation fuels by 2020 (compared to a 2010 baseline). On September 27, 2018, CARB approved changes to the LCFS regulation that require a 20% reduction in carbon intensity by 2030. These regulatory changes exceed the assumption in CARB's 2017 Climate Change Scoping Plan, which targeted an 18% reduction in transportation fuel carbon intensity by 2030 as one of the primary measures for achieving the state's GHG 2030 target.

Renewable Portfolio Standard Program

In 2002, California established its Renewables Portfolio Standard (RPS) Program, with the goal of increasing the percentage of renewable energy in the state's electricity mix to 20 percent of retail sales by 2017. The *2003 Integrated Energy Policy Report* recommended accelerating that goal to 20 percent by 2010, and the *2004 Energy Report Update* further recommended increasing the target to 33 percent by 2020. The state's *Energy Action Plan* also supported this goal. In 2006 under Senate Bill 107, California's 20 percent by 2010 RPS goal was codified. The legislation required retail sellers of electricity to increase renewable energy purchases by at least one percent each year with a target of 20 percent renewables by 2010. Publicly owned utilities set their own RPS goals, recognizing the intent of the legislature to attain the 20 percent by 2010 target.

On November 17, 2008, Governor Schwarzenegger signed Executive Order S-14-08 requiring "[a]ll retail sellers of electricity shall serve 33 percent of their load with renewable energy by 2020." The following year, Executive Order S-21-09 directed the California Air Resources Board, under its AB 32 authority, to enact regulations to achieve the goal of 33 percent renewables by 2020.

In October 2015, Governor Brown signed Senate Bill 350 to codify ambitious climate and clean energy goals. One key provision of SB 350 is for retail sellers and publicly owned utilities to procure "half of the state's electricity from renewable sources by 2030."

The State's RPS program was further strengthened by the passage of SB 100 in 2018. SB 100 revised the State's RPS Program to require retail sellers of electricity to serve 50% and 60% of the total kilowatt-hours sold to retail end-use customers be served by renewable energy sources by 2026 and 2030, respectively, and requires 100% of all electricity supplied come from renewable sources by 2045.

Title 24 Energy Standards and City of San Carlos Reach Codes

Part 11 of the Title 24 Building Standards Code is referred to as the California Green Building Standards Code (CALGreen Code). The CalGreen Code contains both mandatory and voluntary measures. For non-residential land uses there are 39 mandatory measures including, but not limited to, exterior light pollution reduction, wastewater reduction by 20 percent, and commissioning of Projects over 10,000 square feet. On January 25, 2021, the San Carlos City Council adopted Reach Codes, which expand upon the energy efficiency requirements contained in the CalGreen Code. The City's Reach Codes were approved by the CEC and went into effect on May 12, 2021 (San Carlos 2021).

San Carlos Climate Mitigation and Adaptation Plan

On September 27, 2021, San Carlos adopted the Climate Mitigation and Adaptation Plan (CMAP) to reduce GHG emissions. The CMAP has goals which include reducing energy use, transitioning to carbon-free energy sources, promoting energy resilience, promoting

development which reduces VMT, and using low-carbon transportation. It identifies strategies and actions to reduce energy consumption.

3.6.3 Discussion

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?

Less than Significant Impact. Construction activities associated with the proposed project would require the use of heavy-duty, off-road equipment and construction-related vehicle trips that would combust fuel, primarily diesel and gasoline. Heavy-duty construction equipment would be required to comply with CARB's airborne toxic control measures, which restrict heavy-duty diesel vehicle idling to five minutes. Since petroleum use during construction would be temporary and needed to conduct development activities, it would not be wasteful or inefficient.

Once operational, the proposed project would function as a new life science building, and consume energy in the form of electricity and natural gas for building processes (e.g., heating and cooling, lighting, etc.) and petroleum products (e.g., gasoline and diesel) associated with vehicle trips to and from the site made by employees.

The proposed project would be subject to the energy standards contained in the CalGreen Code. The project would not be subject to the City's Reach Code, because it has received an exemption. The project has been approved for its natural gas exemption request under the San Carlos Municipal Code Section 15.04.080, meaning that it would not be all electric. Specifically, the Reach Code exemption for scientific labs allows for the use of natural gas for space heating as long as a third party verifies that an all-electric design is not cost-effective and technically feasible. The project Applicant has been approved for their request to be exempt from the all-electric Reach Code provision (San Carlos Municipal Code Section 15.04.080).[12] Therefore, the energy and greenhouse gas emissions estimates do not take credit for the potential natural gas reductions that could come from an all-electric design.

As estimated using CalEEMod, the proposed project would consume approximately 2,310,337 kWh of electricity and 5,043,560 kBTU on an annual basis. It is noted these values are considered conservative (i.e., likely to overestimate) estimates, because they do not account for the decrease in energy consumption that would occur when the existing storage facility ceases to operate at the project site (i.e., these values are gross not net).

Although the proposed project would increase energy demand at the site over the long term, it would do so in an efficient manner. The proposed project would meet or exceed the 2019 Title 24 Building Code requirements, which are approximately 30 percent more efficient than the 2016 CalGreen Code requirements for non-residential development.

The proposed project would also implement numerous green features to help reduce the amount of single-occupancy vehicle trips to and from the site. The project would comply with the San Carlos' Transportation Demand Management (TDM) policy, which requires a 20% trip reduction. To achieve this, the project would follow a TDM Plan. It would provide approximately 88 bicycle parking spaces, including 44 long-term indoor spaces. The proposed project would also provide 43 dedicated spaces for carpool and vanpool parking and 43 dedicated spaces with charging stations for electric vehicles. The project may include a pedestrian and bicycle

[12] The proposed project is also not required to install a photovoltaic system (i.e., solar panels) through the Reach Code exemption.

bridge from the southwestern portion of the site to Holly Street, which would allow convenient and safe access to the site for people using active transportation. The forms and quantity of energy the proposed project would consume are essential to successful and safe use of a laboratory and office development. As such, the proposed project's energy consumption would not be wasteful, inefficient, or unnecessary. This impact would be less than significant.

b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?

No Impact. The proposed project would not conflict with nor obstruct a state or local plan adopted for the purposes of increasing the amount of renewable energy or energy efficiency. As discussed under response a), the proposed project would be constructed to the latest CalGreen Code, which would make it more energy efficient than many of the buildings currently in operation in the City. Furthermore, the proposed project would not conflict with the City's CMAP, since many of the actions in the CMAP consist of items the City will pursue (see Section 3.8, Greenhouse Gas Emissions) and do not apply to the project. No impact would occur.

3.6.4 References

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3.7 GEOLOGY AND SOILS

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
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? *Note: Refer to Division of Mines and Geology Special Publication 42.*	☐	☐	☐	☒
ii) Strong seismic ground shaking?	☐	☐	☒	☐
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?	☐	☒	☐	☐

3.7.1 Environmental Setting

A Geotechnical Investigation was prepared for the project by Langan Engineering and Environmental Services, Inc. (Langan Engineering), dated May 26, 2021, and its findings are summarized in this section. The report findings are based on site and subsurface conditions, review of previous investigations at the site and its vicinity, as well as review of published literature.

From a geotechnical engineering standpoint, the Langan Engineering report found that the project site is suitable for the proposed development, provided the geotechnical recommendations in the report are properly incorporated into the design plans and

specifications. The primarily geotechnical concerns identified in the report that could affect the development on the site are:

- Slope stability along the drainage that borders the site to the south and east.
- Selection of appropriate foundation type(s) to support the planned building.
- Liquefaction hazard at the site and beneath the planned basement.
- Shallow groundwater table relative to the planned bottom of excavation.
- Support of neighboring improvement adjacent to the basement of excavation.

Regional Geology

The project site and the surrounding parts of San Carlos are located on the San Francisco Peninsula, which is set within the larger Coast Ranges Geomorphic Province. This province is characterized by northwest-southeast trending mountain ranges that stretch from the Oregon border on the north to Point Conception on the south. In the San Francisco Bay area, most of the Coast Ranges are underlain by the tectonically complex, Jurassic- to Cretaceous-age sedimentary and metamorphic bedrock of the Franciscan Complex. Based on geologic mapping by the US Geological Survey (USGS), the project site is underlain by Holocene-age coarse-grained alluvium (USGS, 1993).

Site Conditions

The site is relatively level, with ground surface elevations between about 9 to 10 feet. The site was originally a tidal marsh, which has since been reclaimed (Langan Engineering and Environmental Services, Inc. 2021). A former slough cut through the northern portion of the site, but has since been filled in within the footprint of the site. However, a five-foot-wide channelized drainage channel, which runs along the northeast and southeast portions of the site, remains in place.

Based on site reconnaissance, the drainage channel is about five feet wide at the base, with about five- to eight-feet-high creek banks, where adjacent to the site. The banks are sloped at about 1:1 (horizontal to vertical). At the toe of the drainage channel, there is an approximate 2-foot-tall vertical section. The concrete bottom of the channel is approximately 1.5 to 2 feet deep below the water surface where probed. Based on a review of a 1977 memorandum by Caltrans, Langan Engineering understood the construction of the drainage channel consisted of excavating out the majority of the Bay Mud within the channel alignment, lining the bottom of the channel with concrete, and backfilling the banks with engineered fill. This likely required backsloping and benching into the site onto the site to accommodate the overexcavation. These backsloped and benched areas were likely backfilled with engineered fill, although no records of the placement or compaction of this fill could be found at this time.

Groundwater

Groundwater depths recorded from borings were recorded with short periods of time following exploration. Groundwater was encountered during drilling in the borings at depths of about 4 to 10 feet below ground surface, between approximate Elevations of 5.5 to 0 feet. Groundwater levels beneath the site likely vary with the season and the amount of precipitation received.

Subsurface Conditions

The site is generally underlain by a layer of fill over Bay Mud. The fill consists of loose sandy material with gravel and cobbles and varies in thickness from three-to-five feet where explored during the geotechnical investigation. The underlying Bay Mud is a weak, compressible marine clay that is six to 11-1/2 feet thick across the site. The Bay Mud is predominantly underlain by medium stiff to stiff clay and sandy clay layers interbedded with intermittent loose to very dense clayey and silty sand layers with occasional gravel. The sandy layers, where encountered, are about 3 to 5-1/2 feet thick (Langan Engineering and Environmental Services, Inc. 2021).

Faulting and Seismicity

The San Francisco Bay Area contains numerous active faults and is considered seismically active. Numerous small earthquakes occur every year in the San Francisco Bay Region, and larger earthquakes have been recorded and can be expected to occur in the future.

The Monte Vista – Shannon (6.2 km or 3.8 miles), San Andreas (6.7 km or 4 miles), and Pilarcitos (9.9 km or 6.1 miles) are the major faults closest to the site. Other major earthquake faults in the San Francisco Bay Area include: the Hayward Fault, which is approximately 14 miles northeast of the site, the Calaveras Fault, which is approximately 21 miles to east of the project site, and the San Gregorio Fault, approximately 12 miles west of the project site (Langan Engineering and Environmental Services, Inc. 2021).

The 2016 U.S. Geologic Survey (USGS) predicted a 72 percent chance of a magnitude 6.7 or greater earthquake occurring in the San Francisco Bay Area in 30 years (Langan Engineering and Environmental Services, Inc. 2021).

During a major earthquake on a segment of one of the nearby faults, strong to very strong shaking is expected to occur at the site. Strong shaking during an earthquake can result in ground failure such as that associated with fault rupture, soil liquefaction, lateral spreading, and cyclic soil densification. Each of these conditions was evaluated based on the results of the Langan Engineering geologic hazard evaluation and geotechnical investigation and is discussed in the in detail in the geotechnical report and summarized here.

Surface Faulting

The geotechnical report evaluated the risk of surface faulting at the site associated with active or potentially active fault traces. Historically, ground surface displacements closely follow the traces of geologically young faults. The report concluded the site is not within an Earthquake Fault Zone, as defined by the Alquist-Priolo Earthquake Fault Zoning Act, and no known active or potentially active faults exist on the site. Therefore, the risk of surface faulting at the site is low. In a seismically active area, the remote possibility exists for future faulting in areas where no faults previously existed; however, the risk of surface faulting and consequent secondary ground failure at the site is low (Langan Engineering and Environmental Services, Inc. 2021).

Liquefaction Susceptibility

Liquefaction occurs when loose, saturated sandy soils lose strength and flow like a liquid during earthquake shaking. Ground settlement often accompanies liquefaction. Soils most susceptible to liquefaction are saturated, loose, silty sands, and uniformly graded sands.

A liquefaction analysis performed at the site indicate various sand layers below groundwater are potentially liquefiable. Consequences of liquefaction include surface disruption, settlement, and downdrag on deep foundations. The report concluded that the site may experience liquefaction-induced settlements of up to 1 inch (Langan Engineering and Environmental Services, Inc. 2021).

Lateral Spreading

Lateral spreading involves lateral ground movements caused by seismic shaking. These lateral ground movements are often associated with a weakening or failure of an embankment or soil mass overlying a continuous layer of liquefied sand or weak soils. Lateral spreading is generally the most pervasive and damaging type of liquefaction-induced ground failure generated by earthquakes.

The potential for lateral spreading lateral spreading is not considered an issue for the site (Langan Engineering and Environmental Services, Inc. 2021).

Cyclic Densification

Cyclic densification can occur during strong ground shaking in loose, clean granular deposits above the water table, resulting in ground surface settlement.

The potential for cyclic densification at the site is low (Langan Engineering and Environmental Services, Inc. 2021).

3.7.2 Regulatory Setting

Alquist-Priolo Earthquake Fault Zoning Act

The Alquist-Priolo Earthquake Fault Zoning Act regulates development in California near known active faults due to hazards associated with surface fault ruptures. There are no Alquist-Priolo earthquake fault zones on the Project site (Langan Engineering and Environmental Services, Inc. 2021).

Seismic Hazard Mapping Act

The Seismic Hazard Mapping Act was passed in 1990 following the Loma Prieta earthquake to reduce threats to public health and safety and to minimize property damage caused by earthquakes. The act directs the U.S. Department of Conservation to identify and map areas prone to the earthquake hazards of liquefaction, earthquake-induced landslides, and amplified ground shaking. The act requires site-specific geotechnical investigations to identify potential seismic hazards and formulate mitigation measures prior to permitting most developments designed for human occupancy within the Zones of Required Investigation.

California Building Code

The 2019 California Building Codes (CBC) covers grading and other geotechnical issues, building specifications, and non-building structures.

California Public Resources Code

Section 5097 of the Public Resources Code specifies the procedures to be followed in the event of the unexpected discovery of historic, archaeological, and paleontological resources, including human remains, historic or prehistoric resources, paleontological resources on nonfederal land. The disposition of Native American burials falls within the jurisdiction of the California Native American Heritage Commission (NAHC). Section 5097.5 of the Code states the following:

> *No person shall knowingly and willfully excavate upon, or remove, destroy, injure or deface any historic or prehistoric ruins, burial grounds, archaeological or vertebrate paleontological site, including fossilized footprints, inscriptions made by human agency, or any other archaeological, paleontological or historical feature, situated on public lands, except with the express permission of the public agency having jurisdiction over such lands. Violation of this section is a misdemeanor.*

San Carlos General Plan

The City adopted the San Carlos General Plan: Envision 2030 in October 2009. The following are the relevant policies and actions in the Community Safety and Services Element:

- **Policy CSS-1.1:** The City Building Official shall verify geotechnical and soils reports for development in areas where potentially serious geologic risks exist. These reports shall address the degree of hazard, design parameters for the project based on the hazard and appropriate mitigation measures. Based on the findings of these reports, the City shall require that new structures are designed and built to withstand the effects of seismically-induced ground failure.

- **Policy CSS-1.2:** Prohibit structural development in known areas where seismic and geological hazards cannot be mitigated.
- **Policy CSS-1.3:** Continue to monitor and enforce mitigation measures to reduce risk for projects where geological and seismic hazards can be mitigated.
- **Policy CSS-1.4:** Enforce requirements of the Alquist-Priolo Special Studies Zones Act should any fault traces in San Carlos be discovered and prove to be active or potentially active.
- **Policy CSS-1.5:** Continue to incorporate seismic risk analysis into the City's ongoing building inspection program through thorough review of projects by plan check and field inspections.
- **Policy CSS-1.9:** Continue to ensure that seismic hazards are mitigated to the greatest extent possible for critical public facilities, infrastructure and emergency services.

City of San Carlos Municipal Code

The City of San Carlos Municipal Code contains the following sections, which may be applicable to the proposed project:

12.08.165 Grading—Seasonal prohibitions

Grading shall be prohibited during the rainy season as defined in the Municipal Regional Permit, unless the City Engineer or his/her designee finds that the land disturbance is relatively minor and that erosion can be easily controlled, or is a necessary and integral part of an interim plan for previously initiated project phases, or is necessary to prevent an imminent threat to public safety as determined by the City Engineer or his/her designee.

12.08.180 Grading—Drainage restrictions.

No grading shall be conducted in such a manner as to alter the established gradient of natural drainage channels in such a manner as to cause excessive erosion or flooding

12.08.190 Grading—Slopes and banks

A. The exposed or finished banks or slopes of any fill or excavation shall be uniformly graded, and no such slope, bank or inclined graded surface shall exceed a vertical height of thirty feet unless intercepting drains or terraces are provided. Such drains or terraces shall be permanently lined or protected with approved materials, and accumulating surface waters shall be conducted to an approved point of discharge. Berms shall be provided to prevent overflow from any such terrace or intercepting drain.
B. All exposed or finished banks or slopes of any fill or excavation having a slope steeper than three horizontal to one vertical shall be protected from erosion by approved planting, cribbing, walls or terracing, or a combination thereof. Other unprotected graded surfaces exceeding five thousand square feet in area shall be planted, paved or built upon, or shall be provided with berms and approved drainage facilities adequate to prevent erosion and to conduct the accumulation or runoff of surface waters to an approved place of discharge (San Carlos 2021).

3.7.3 Discussion

Consistent with the California Supreme Court decision in *California Building Industry Association v. Bay Area Air Quality Management District* (62 Cal. 4th 369; 2015), the impact discussion presented below focuses on the project's effect on geology and soils rather than the effect of geologic hazards and site conditions upon the proposed project. The project is evaluated to determine whether it would create or exacerbate soil or geologic conditions identified in each of the above significance threshold criteria.

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 significant evidence of a known fault?

No Impact. The Alquist-Priolo Earthquake Fault Zoning Act regulates development in California near known active faults due to hazards associated with surface fault ruptures. There are no known active faults that traverse the project site, and the site is not within an Alquist-Priolo zone (Langan Engineering and Environmental Services, Inc. 2021). No impact would occur.

ii) Strong seismic ground shaking?

Less Than Significant Impact. The project site is located in the San Francisco Bay Area which is considered one of the most seismically active regions in the United States. Significant earthquakes have occurred in this area and strong to violent ground-shaking in the project area can be expected as a result of a major earthquake on one of the faults in the region. The 2014 Working Group on California Earthquake Probabilities estimated that the 30-year probability of a magnitude 6.7 or greater earthquake striking the San Francisco Bay area was 72 percent (WGCEP, 2015).

The project would not create potential for or exacerbate existing conditions related to seismic ground shaking. The proposed project would be designed and constructed in accordance with the current California Building Code requirements for seismic safety. This impact would be less than significant.

iii) Seismic-related ground failure, including liquefaction?

Less Than Significant Impact. Liquefaction occurs when loose, saturated sandy soils lose strength and flow like a liquid during earthquake shaking. Liquefaction can damage foundations, disrupt utility service, and cause damage to roadways.

According to the geotechnical study, the project site is located within a liquefaction hazard zone. The geotechnical study concluded that with the planned excavation as part of the project design, which would remove some liquifiable material, there would be approximately 0.25 - 0.75 inches of liquefaction-induced settlement within the site's planned basement footprint (Langan Engineering and Environmental Services, Inc., 2021). The geotechnical report includes recommendations for the foundation design, including supporting the proposed building on a mat, using a system of micropiles or tiedowns for support, and designing basement walls to resist lateral pressures. If needed, the liquefaction potential can be mitigated using ground improvement measures. The project would also install a shoring and dewatering system so that the groundwater level would not substantially lower outside of excavation.[13] These report recommendations that the project would follow address potential ground failure and liquefaction issues.

The geotechnical report also looked at the slope stability of the adjacent creek drainage channel under both static and seismic conditions.

Static Stability of Drainage Channel

The results of the static slope stability analyses indicate that the existing fill slopes of the drainage channel have a factor of safety of about 1.1 and are marginally stable. Based on the

[13] Drawing down water outside the excavation increases the overburden load on and reduces the buoyancy of soil, especially the Bay Mud layer, and could cause relatively significant settlement of the surrounding ground.

results of the analyses, observations, and previous performance of this slope, Langan Engineering concluded this slope is marginally stable under static conditions. However, the slopes could be subject to failure under equipment and other construction loading without implementing ground improvement or other slope stabilization measures; the Geotech Report provides that these conditions should be evaluated on a case-by-case basis once construction logistics are better understood (Langan Engineering and Environmental Services, Inc., 2021).

Seismic Slope Stability of Drainage Channel

A pseudo-static approach was used to evaluate the seismic slope stability and deformation behavior of the drainage channel slope. The modeling computed factors of safety of about 0.8 for potential slip surfaces at both Sections 1-1' and 2-2' for the design earthquake level of shaking, which indicates these slopes may move/deform during a large earthquake. Consequently, these slopes are expected to experience permanent displacements under these levels of ground shaking (Langan Engineering and Environmental Services, Inc., 2021).

The geotechnical report estimated median slope displacements for the critical failure surfaces on the order of several feet (approximately 18 to 42 inches) during a design earthquake level event (Langan Engineering and Environmental Services, Inc., 2021).

Design and Construction Considerations

The planned structure will be immediately adjacent to the channelized creek slope, and the basement and foundation will extend below the estimated slope failure surfaces. Therefore, the geotechnical report concluded that the impact to the overall performance of the building will be limited. The creek slope soils are expected to be displaced several feet away from the structure, toward the creek, during a major earthquake, and should not impact the structure other than to have passive resistance removed. Therefore, the creek slope soils, which have exhibited signs of erosion, should not be relied upon for lateral resistance during static or pseudo-static loading conditions. Because the existing slope is marginally stable (i.e. factor of safety less than 1.1), any loading from the structure on these soils may cause instability and additional slope movement. Also, during and following a major earthquake, the slope soils are not anticipated to be in contact with the structure. Therefore, the structure, where adjacent to the channelized creek, should only rely on the soils below the bottom of the Bay Mud for lateral resistance.

During construction, installation of the shoring wall will likely require heavy equipment to be staged within the vicinity of the crest of the slope. Heavy equipment may contribute to overall slope instability and potential slope movement. It should be the contractor's responsibility to maintain slope stability during construction. Langan should evaluate this temporary condition once the exact location of the shoring wall relative to the crest of the slope, as well as the type and weight of equipment to be used, is known. Any shoring work needed for the drainage channel stability may require an encroachment permit from Caltrans.

Conclusion

Although the project-specific geotechnical report indicated there was the potential for soil liquefaction, the project would adhere to all recommendations contained in the site-specific geotechnical analysis in addition to relevant California Building Code and American Concrete Institute (ACI) design code. This impact would be less than significant.

iv) Landslides?

No Impact. The project site and surrounding area are relatively level and are not subject to landslide hazards. Therefore, the proposed project would have no impacts related to landslides. No impact would occur.

b) Result in significant soil erosion or the loss of topsoil?

Less Than Significant Impact. The project would not cause erosion or loss of topsoil in the long term because the project site would be covered with the new building, paved areas, and landscaping following construction, and no bare soils would be present. However, project construction would require grading or soil exposure that could result in temporary erosion and/or loss of topsoil if not controlled.

The project would require the preparation of a Storm Water Pollution Prevention Plan (SWPPP) to prevent stormwater pollution during construction. After construction, the project site would be improved (i.e., repaved but also feature more permeable space for groundwater filtration) and would not leave surface soils susceptible to erosion or loss. Implementation of the site-specific SWPPP during construction and restoration of the site post-construction would prevent significant soil erosion or loss of topsoil. The impact is considered less than significant. In addition, the project would comply with San Carlos Municipal Code Sections 12.08.165 (Grading—Seasonal prohibitions), 12.08.180 (Grading—Drainage restrictions), and Section 12.08.190 (Grading—Slopes and Banks).

Compliance with these plans and regulations would prevent erosion and loss of topsoil during construction activities. This impact would be less than significant.

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?

Less Than Significant Impact. As described above, the topography at the project site is relatively flat. In light of this topography and the absence of significant slopes on or near the project site, the potential for on- or off-site landslides is considered extremely low. Furthermore, the project would not exacerbate landslide conditions on or adjacent to the site.

Lateral spreading involves the lateral movement of a liquefied soil layer (and overlying layers) toward a free face and caused by seismic shaking. These lateral ground movements are often associated with a weakening or failure of an embankment or soil mass overlying a continuous layer of liquefied sand or weak soils. The soils present in the project site, which are generally clayey or silty sands with gravel, have different characteristics than the soils associated with significant lateral spreading, which are saturated cohesionless sandy sediments (Langan Engineering and Environmental Services, Inc., 2021). The project would adhere to all recommendations contained in the site-specific geotechnical analysis and relevant portions of the ACI design code. There would be a low potential for liquefaction and lateral spreading after following these recommendations and design codes.

Subsidence is the sinking of the Earth's surface in response to geologic or man-induced causes. The principal causes are mining, withdrawal of groundwater or oil, karst formations, oxidation of organic soils, and thawing of permafrost. The proposed project would involve groundwater extraction in order to construct the bottom two levels of the parking garage; however, the geotechnical report provides recommendations so that groundwater levels outside of the exaction area do not lower (i.e., increasing the potential of subsidence / settlement). Therefore, the project is not expected to have significant impacts related to subsidence.

As stated previously, the project site has the potential for liquefaction (Langan Engineering and Environmental Services, Inc., 2021). With the planned excavation, which will remove some of the liquefiable material, and the use of a mat foundation system, the project would not create potential for or exacerbate existing conditions related to liquefaction.

Recommendations for Dewatering, Shoring, Underpinning, and Excavation

The geotechnical report contains recommendations for dewatering, shoring, underpinning, and excavation during construction.

Dewatering

Based on the groundwater levels encountered during the investigation, and review of historic groundwater levels in the vicinity, the geotechnical report concluded a design groundwater level of Elevation 6 feet is appropriate for this project. To construct the planned basement, the groundwater will need to be temporarily lowered to a depth of at least three feet below the bottom of the planned excavation. There are some intermittent sandy layers within the proposed depth of excavation that may act as a conduit for water to flow into the excavation from the sides.

Based on Langan Engineering experience, they consider dewatering of the excavation to be critical to the performance of the shoring and maintaining a stable subgrade for construction of the foundation. A well-designed, installed, and operated dewatering system is therefore essential. During excavation, the groundwater table within the site should be drawn down to at least three feet below the bottom of the excavation within the excavation limits. The dewatered level should be maintained at that depth until sufficient building weight is available to resist the hydrostatic uplift pressure of the design groundwater level (Elevation 6 feet). Special care should be taken to minimize the removal of fines from the granular layers. This could be done by placing a tap on each well and monitoring the amount of fines removed. Seepage under the cutoff shoring wall should be controllable if the cutoff wall extends into a clay layer sufficiently to cutoff groundwater. A sufficiently clay-embedded groundwater cutoff wall will reduce the potential for drawing down the groundwater level outside the excavation. Drawing down water outside the excavation increases the overburden load on and reduces the buoyancy of soil, especially the Bay Mud layer, and could cause relatively significant settlement of the surrounding ground. Therefore, the shoring and dewatering system should be designed to minimize groundwater drawdown beyond the face of the excavation.

Provided the excavation is supported by a cutoff wall shoring system (such as a deep soil mix wall) with sufficient embedment, Langan Engineering anticipates only dewatering within the site will be required, and there should be no significant lowering of the groundwater level outside of the excavation. In this case, significant settlement of the surrounding improvements associated with the required dewatering are not anticipated.

Variables that influence the performance of the dewatering system and the quantity of water produced include the number of wells, the depth and positioning of the wells, the interval over which each well is screened, and the rate at which each well is pumped. Different combinations of these variables can be used to successfully dewater the site. The site dewatering should be designed and implemented by an experienced dewatering contractor. The shoring and dewatering design should be done in concert with one another.

Shoring Considerations

An excavation between 18 to 22 feet deep will be required to accommodate the planned below-grade level parking structure. The adjacent ground and improvements, including the In-N-Out Burger building, roadways, channelized creek, and utilities surrounding the site should be retained by temporary shoring until the permanent basement walls have been constructed.

For the planned excavation depth, the shoring system may require tiebacks or internal bracing for lateral support. The geotechnical report recommends that a shoring wall cutoff system (SPTC or soil-mixed wall) should be used to reduce movements. The shoring wall should achieve cutoff extending within the clayey material beneath the sand exposed at the planned subgrade to cut off groundwater infiltration and reduce the potential for dewatering drawdown

outside of the excavation. The adjacent property owners should be notified of the planned excavation and consulted regarding any special requirements or encroachment agreements. In addition, if tiebacks are needed along the eastern portion of the property, an encroachment agreement with Caltrans will be required. It may be difficult to obtain such an agreement with Caltrans. Furthermore, considering the difficulty of obtaining encroachment agreement and potential issues with hydraulic fracturing from installation of pressure grouted tieback under the creek, the geotechnical report concludes tiebacks should not be installed below the creek and the shoring should be cantilevered along the creek. If additional lateral restraint is needed, internal bracing could be used for the shoring along the creek (Langan Engineering and Environmental Services, Inc., 2021).

Underpinning

Where the proposed excavation extends deeper than the foundations of adjacent buildings (existing In-N-Out Burger building and drive-thru) or where adjacent foundations are above an imaginary 1:1 (horizontal to vertical) line extending up from the base of the excavation, the shoring should be designed to support the surcharge pressures from the foundations or underpinning should be used. The most practical approach for underpinning adjacent structures includes conventional slant-drilled soldier piles (soldier piles initially drilled at a slight batter and then the upper part of the pile is reamed to allow for the vertical placement of the pile beneath the existing foundation) (Langan Engineering and Environmental Services, Inc., 2021).

Conclusion

The proposed project shall be designed and constructed in accordance with the current California Building Code and the site-specific geotechnical report. This impact would be less than significant.

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?

No Impact. The project site is not in an area with expansive soils according to Figure 8-4, Expansive Soils, of the San Carlos General Plan (City of San Carlos, 2009). No impact would occur.

e) Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?

No Impact. The proposed project would not require the construction or use of septic tanks or alternative wastewater disposal systems. Wastewater generated by the proposed project would be conveyed to the existing municipal sanitary sewer system that is maintained and operated by the City of San Carlos Public Works Department. Therefore, the proposed project would not have the potential to result in impacts related to septic tanks or alternative wastewater disposal systems. No impact would occur.

f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?

Less Than Significant Impact with Mitigation Incorporated. There are no known paleontological resources or unique geologic features at the project site. However, the proposed project could result in excavation and earth moving activities beyond prior depths of disturbance during excavation of the underground parking garage. Due to possible excavation into previously undisturbed soils, the proposed project has the potential to encounter previously undisturbed paleontological resources. The implementation of Mitigation Measure GEO-1 would avoid impacts to any paleontological resources uncovered during project construction.

Impact GEO-1: Project demolition and construction could unearth paleontological resources, including fossils.

Mitigation Measure GEO-1: Protection of Paleontological Resources. If paleontological resources are discovered during construction, ground-disturbing activities shall halt immediately until a qualified paleontologist can assess the significance of the discovery. Depending on determinations made by the paleontologist, work may either be allowed to continue once the discovery has been recorded, or if recommended by the paleontologist, recovery of the resource may be required, in which ground-disturbing activity within the area of the find will be temporarily halted until the resource is recovered. If treatment and salvage is required, recommendations shall be consistent with Society of Vertebrate Paleontology guidelines and current professional standards.

Effectiveness: This measure would reduce impacts to paleontological resources to less than significant.

Implementation: The Applicant shall include these measures on all appropriate bid, contract, and engineering and site plan (e.g., building, grading, and improvement plans) documents. The Applicant and/or its contractor(s) shall implement this measure in the event any paleontological resources are discovered.

Timing: During all earth moving phases of project demolition and construction.

Monitoring: The City shall review all appropriate bid, contract, and engineering and site plan documents for inclusion of paleontological mitigation. If paleontological resources are uncovered, a report shall be prepared by the qualified paleontologist describing the find and its deposition.

3.7.4 References

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3.8 GREENHOUSE GAS EMISSIONS

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	☐	☐	☒	☐

3.8.1 Environmental Setting

Gases that trap heat in the atmosphere and affect regulation of the Earth's temperature are known as greenhouse gases (GHGs). Many chemical compounds found in the earth's atmosphere exhibit the GHG property. GHGs allow sunlight to enter the atmosphere freely. When sunlight strikes the earth's surface, it is either absorbed or reflected back toward space. Earth that has absorbed sunlight warms up and emits infrared radiation toward space. GHGs absorb this infrared radiation and "trap" the energy in the earth's atmosphere. Entrapment of too much infrared radiation produces an effect commonly referred to as "Global Warming", although the term "Global Climate Change" is preferred because effects are not just limited to higher global temperatures.

GHGs that contribute to climate regulation are a different type of pollutant than criteria or hazardous air pollutants because climate regulation is global in scale, both in terms of causes and effects. Some GHGs are emitted to the atmosphere naturally by biological and geological processes such as evaporation (water vapor), aerobic respiration (carbon dioxide), and off-gassing from low oxygen environments such as swamps or exposed permafrost (methane); however, GHG emissions from human activities such as fuel combustion (e.g., carbon dioxide) and refrigerants use (e.g., hydrofluorocarbons) significantly contribute to overall GHG concentrations in the atmosphere, climate regulation, and global climate change.

Human production of GHG has increased steadily since pre-industrial times (approximately pre-1880) and atmospheric carbon dioxide concentrations have increased from a pre-industrial value of 280 parts per million (ppm) in the early 1800's to 417 ppm in December 2021 (NOAA, 2020). The effects of increased GHG concentrations in the atmosphere include increasing temperature, shifts in precipitation patterns and amounts, reduced ice and snow cover, sea level rise, and acidification of oceans. These effects in turn will impact food and water supplies, infrastructure, ecosystems, and overall public health and welfare.

The 1997 United Nations' Kyoto Protocol international treaty set targets for reductions in emissions of four specific GHGs – carbon dioxide, methane, nitrous oxide, and sulfur hexafluoride – and two groups of gases – hydrofluorocarbons and perfluorocarbons. These GHGs are the primary GHGs emitted into the atmosphere by human activities. The six common GHGs are described below.

Carbon Dioxide (CO_2). CO_2 is released to the atmosphere when fossil fuels (oil, gasoline, diesel, natural gas, and coal), solid waste, and wood or wood products are burned.

Methane (CH_4). CH_4 is emitted during the production and transport of coal, natural gas, and oil. Methane emissions also result from the decomposition of organic waste in municipal solid waste landfills and the raising of livestock.

Nitrous oxide (N_2O). N_2O is emitted during agricultural and industrial activities, as well as during combustion of solid waste and fossil fuels.

Sulfur hexafluoride (SF_6). SF_6 is commonly used as an electrical insulator in high voltage electrical transmission and distribution equipment such as circuit breakers, substations, and transmission switchgear. Releases of SF_6 occur during maintenance and servicing as well as from leaks of electrical equipment.

Hydrofluorocarbons (HFCs) and perfluorocarbons (PFCs). HFCs and PFCs are generated in a variety of industrial processes.

GHG emissions from human activities contribute to overall GHG concentrations in the atmosphere and the corresponding effects of global climate change (e.g., rising temperatures, increased severe weather events such as drought and flooding). GHGs can remain in the atmosphere long after they are emitted. The potential for a GHG to absorb and trap heat in the atmosphere is considered its global warming potential (GWP). The reference gas for measuring GWP is CO_2, which has a GWP of one. By comparison, CH_4 has a GWP of 25, which means that one molecule of CH_4 has 25 times the effect on global warming as one molecule of CO_2. Multiplying the estimated emissions for non-CO_2 GHGs by their GWP determines their carbon dioxide equivalent (CO_2e), which enables a project's combined global warming potential to be expressed in terms of mass CO_2 emissions. GHG emissions are often discussed in terms of Metric Tons of CO_2e, or $MTCO_2e$.

3.8.2 Regulatory Setting

California Global Warming Solutions Act (AB 32) and Related Legislation

California Air Resources Board (CARB) is the lead agency for implementing Assembly Bill (AB) 32, the California Global Warming Solutions Act adopted by the Legislature in 2006. AB 32 requires the CARB to prepare a Scoping Plan containing the main strategies that will be used to achieve reductions in GHG emissions in California.

Executive Order B-30-15, 2030 Carbon Target and Adaptation, issued by Governor Brown in April 2015, sets a target of reducing GHG emissions by 40 percent below 1990 levels in 2030. By directing state agencies to take measures consistent with their existing authority to reduce GHG emissions, this order establishes coherence between the 2020 and 2050 GHG reduction goals set by AB 32 and seeks to align California with the scientifically established GHG emissions levels needed to limit global warming below two degrees Celsius.

To reinforce the goals established through Executive Order B-30-15, Governor Brown went on to sign SB 32 and AB 197 on September 8, 2016. SB-32 made the GHG reduction target to reduce GHG emissions by 40 percent below 1990 levels by 2030 a requirement as opposed to a goal. AB 197 gives the Legislature additional authority over CARB to ensure the most successful strategies for lowering emissions are implemented, and requires CARB to, "protect the state's most impacted and disadvantaged communities …[and] consider the social costs of the emissions of greenhouse gases."

2017 Scoping Plan

On December 14, 2017, CARB adopted the second update to the Scoping Plan, the *2017 Climate Change Scoping Plan Update* (*2017 Scoping Plan Update*; CARB 2017). The primary objective of the *2017 Scoping Plan Update* is to identify the measures needed to achieve the mid-term GHG reduction target for 2030 (i.e., reduce emissions by 40 percent below 1990 levels by 2030), as established under Executive Order B-30-15 and SB 32. The *2017 Scoping Plan Update* identifies an increasing need for coordination among state, regional, and local governments to achieve the GHG emissions reductions that can be gained from local land use planning and decisions. It notes emission reduction targets set by more than one hundred local

jurisdictions in the state could result in emissions reductions of up to 45 $MMTCO_2E$ and 83 $MMTCO_2E$ by 2020 and 2050, respectively. To achieve these goals, the *2017 Scoping Plan Update* includes a recommended plan-level efficiency threshold of six metric tons or less per capita by 2030 and no more than two metric tons by 2050.

Plan Bay Area 2050

In January 2009, California SB 375 went into effect known as the Sustainable Communities and Climate Protection Act. The objective of SB 375 is to better integrate regional planning of transportation, land use, and housing to reduce greenhouse gas emissions and other air pollutants. SB 375 tasks CARB to set GHG reduction targets for each of California's 18 regional Metropolitan Planning Organizations (MPOs). Each MPO is required to prepare a Sustainable Communities Strategy (SCS) as part of their Regional Transportation Plan (RTP). The SCS is a growth strategy in combination with transportation policies that will show how the MPO will meet its GHG reduction target. If the SCS cannot meet the reduction goal, an Alternative Planning Strategy may be adopted that meets the goal through alternative development, infrastructure, and transportation measures or policies.

Plan Bay Area was the integrated long-range transportation, land-use, and housing plan developed for the Bay Area pursuant to SB 375 that was adopted by the Association of Bay Area Governments (ABAG) and Metropolitan Transportation Commission (MTC) in 2013. An update to *Plan Bay Area*, titled *Plan Bay Area 2040*, was jointly approved by the ABAG Executive Board and by MTC in 2017. *Plan Bay Area* and *Plan Bay Area 2040* identified Priority Development Areas, which were transit-oriented infill development opportunities in areas where future growth would not increase urban sprawl.

On October 1, 2021, MTC and AMBAG released *Plan Bay Area 2050* which focused on the elements of Housing, Economy, Transportation, and Environment. Across these elements, there were a total of 35 strategies, which are long-term policies or investments, and 80 implementation actions, which contain advocacy and legislation, initiatives, and planning and research. *Plan Bay Area 2050* projected that it would achieve a 20% reduction in GHG emissions from cars and light duty trucks by 2035 if all of its strategies were implemented, which would meet SB 375's GHG target.

2017 Clean Air Plan

As discussed in Section 3.3, Air Quality, the BAAQMD's *2017 Clean Air Plan* is a multi-pollutant plan focused on protecting public health and the climate (BAAQMD 2017a). The *2017 Clean Air Plan* lays the groundwork for a long-term effort to reduce Bay Area GHG emissions 40 percent below 1990 levels by 2030 and 80 percent below 1990 levels by 2050, consistent with GHG reduction targets adopted by the state of California. As opposed to focusing solely on the nearer 2030 GHG reduction target, the *2017 Clean Air Plan* makes a concerted effort to imagine and plan for a successful and sustainable Bay Area in the year 2050. In 2050, the Bay Area is envisioned as a region where:

- Energy efficient buildings are heated, cooled, and powered by renewable energy;
- The transportation network has been redeveloped with an emphasis on non-vehicular modes of transportation and mass-transit;
- The electricity grid is powered by 100 percent renewable energy; and
- Bay Area residents have adopted lower-carbon intensive lifestyles (e.g., purchasing low-carbon goods in addition to recycling and putting organic waste to productive use).

The *2017 Clean Air Plan* includes a comprehensive, multipollutant control strategy that is broken up into 85 distinct measures and categorized based on the same economic sector

framework used by CARB for the AB 32 Scoping Plan Update.[14] The accumulation of all 85 control measures being implemented support the three overarching goals of the plan. These goals are:

- Attain all state and national air quality standards;
- Eliminate disparities among Bay Area communities in cancer health risk from toxic air contaminants; and
- Reduce Bay Area GHG Emissions to 40 percent below 1990 levels by 2030 and 80 percent below 1990 levels by 2050.

San Carlos Climate Mitigation and Action Plan

In October 2009, the San Carlos adopted the City of San Carlos Climate Action Plan (2009 CAP). This plan established a 2005 baseline for GHG emissions and set a goal of reducing GHG emissions by 15% below 2005 levels by 2020 and included measures on energy, solid waste management, transportation, and land use. San Carlos updated the CAP in September 2021 by adopting the Climate Mitigation and Adaptation Plan (CMAP).

The CMAP set a goal of reducing GHG emissions 40% below 1990 levels by 2030 and 80 percent below 1990 levels by 2050, or equivalently of reducing GHG emissions 49 percent below 2005 levels by 2030 and 83 percent below 2005 levels by 2050. The CMAP consists of an emissions inventory, a climate change vulnerability assessment, 33 GHG reduction strategies, 12 climate adaptation strategies, and implementation and monitoring through 2050.

The GHG reduction strategies in the CMAP contain a combination of education and outreach programs, financial subsidies, and mandates across the sectors of energy, transportation and land use, off-road, waste, water and wastewater. These strategies aimed to accomplish the plan's goals of reducing energy use, transitioning to carbon-free energy sources, promoting energy resilience, promoting sustainable development that reduces VMT, transitioning to low-carbon transportation, supporting pollution-free outdoor equipment, becoming a zero-waste community, and reducing community-wide water use. The CMAP projected that with existing and planned government actions and the implementation of CMAP's strategies, San Carlos would meet the 2030 and 2050 emissions targets and be consistent with the state's AB 32 and SB 32 GHG reduction goals (San Carlos 2021).

3.8.3 Discussion

Global climate change is the result of GHG emissions worldwide; individual projects do not generate enough GHG emissions to influence global climate change. Thus, the analysis of GHG emissions is by nature a cumulative analysis focused on whether an individual project's contribution to global climate change is cumulatively considerable.

a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

b) Conflict with an applicable, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

Less Than Significant Impact. The BAAQMD CEQA Air Quality Guidelines, last comprehensively updated in June 2010 and revised in May 2017, contain guidance on assessing and mitigating both project- and plan-level GHG impacts. The BAAQMD CEQA

[14] The sectors included in the AB 32 Scoping Plan Update are: stationary (industrial) sources, transportation, energy, buildings, agriculture, natural and working lands, waste management, water, and super-GHG pollutants.

Guidelines provide two thresholds for project-level assessments: 1) a bright-line threshold of 1,100 $MTCO_2e$ per year, and 2) a GHG efficiency threshold of 4.6 $MTCO_2e$ per Service Population[15] per year ($MTCO_2e$/SP/YR) (BAAQMD 2017b). Both of these thresholds were developed for the year 2020, consistent with state-wide GHG emission reduction goals set forth under AB 32 and, therefore, does not directly address post-2020 GHG emissions.

As discussed under the Regulatory Setting section (see Section 3.8.2), the State of California has adopted additional (codified) goals and plans for the purposes of reducing GHG emissions through 2030. Therefore, this IS-MND compares estimated emissions against an interpolated efficiency metric of 2.76 $MTCO_2e$/SP/YR for the Year 2030 to help evaluate the significance of proposed project's GHG emissions.[16] The 2.76 $MTCO_2e$/SP/YR efficiency metric demonstrates substantial progress toward future GHG emission reduction goals at the state-level. While the interpolated project-specific goal of 2.76 $MTCO_2e$/SP/YR for Year 2030 is a helpful proxy for demonstrating substantial progress toward future state GHG emission reduction goals, it is also important that the proposed project be consistent with plans, policies, and regulations for the purposes of reducing GHG emissions, as the strategies / requirements contained in these documents also address GHG emission reduction goals through the region and state. Thus, in addition to demonstrating consistency with the interpolated 2030 project-specific efficiency metric, this Initial Study also relies upon consistency with the following plans to determine the significance of the proposed project's GHG emissions:

- CARB 2017 Climate Change Scoping Plan;
- ABAG/MTC Plan Bay Area 2050;
- BAAQMD 2017 Clean Air Plan; and
- City of San Carlos CMAP

The proposed project would generate GHG emissions from both short-term construction and long-term operational activities. Construction activities would generate GHG emissions primarily from equipment fuel combustion as well as worker, vendor, and haul trips to and from the project site during demolition, site preparation, grading, building construction, paving, and architectural coating activities. Construction activities would cease to emit GHGs upon completion, unlike operational emissions that continue year after year until the commercial building constructed as part of project closes or ceases operation. Once operational, the proposed project would generate GHG emissions from the area, energy, and mobile sources described in Section 3.3.3, as well as electricity consumption, water use and wastewater generation, and solid waste generation.

As described previously, the BAAQMD's currently adopted GHG thresholds were intended to address GHG emissions through the year 2020. Because the proposed project would become operational post-2020, this analysis utilizes the interpolated project-specific GHG efficiency goal of 2.76 $MTCO_2e$/SP/YR to help demonstrate project consistency with future state-wide GHG emissions reduction goals.

The BAAQMD has not adopted a threshold of significance for construction-related GHG emissions. The BAAQMD's CEQA Air Quality Guidelines do, however, encourage lead agencies to quantify and disclose construction-related GHG emissions, determine the significance of

[15] Service Population is defined as the number of residents and employees the project serves.

[16] The 2.76 $MTCO_2e$/SP/yr project-specific goal was developed by taking the 4.6 $MTCO_2e$/SP/yr threshold, which was the threshold to reduce emissions back to 1990 level, and reducing it by 40 percent (4.6 $MTCO_2e$/SP/yr * (1 - 0.4) = 2.76 $MTCO_2e$/SP/yr). This demonstrates the progress required under SB 32. This linear reduction approach oversimplifies the threshold development process. The City is not adopting nor proposing to use 2.76 $MTCO_2e$/SP/yr as a CEQA GHG threshold for general use; rather, it is only intended for use on this project.

these emissions, and incorporate BMPs to reduce construction-related GHG emissions. Accordingly, construction-related GHG emissions are amortized over the lifetime of the proposed project (presumed to be a minimum of 30 years). This normalizes construction emissions so that they can be grouped with operational emissions and compared to appropriate thresholds, plans, etc.

GHG emissions from construction and operation of the proposed project were estimated using CalEEMod, version 2020.4.0, based on default data assumptions contained in CalEEMod, with the project-specific modifications described in Section 3.3.3. The project's estimated construction and operational GHG emissions are presented below in Table 3-8.

Table 3-8: Project Greenhouse Gas Emissions

Source	GHG Emissions (MT/YR)			
	CO_2	CH_4	N_2O	TOTAL[(A)]
Area	<0.1	<0.1	0.0	<0.1
Energy	269.1	<0.1	<0.1	270.7
Mobile[(B)]	1,231.2	0.1	0.1	1,247.9
Stationary	0.9	<0.1	0.0	1.0
Solid Waste	3.3	0.2	0.0	8.2
Water/Wastewater	33.3	3.4	0.1	143.0
Amortized Construction	43.5	<0.1	<0.1	44.7
Total Mass Emissions[(C)]	*1,581.4*	*3.7*	0.1	*1,715.5*
Project Employment	--	--	--	*685*
GHG Efficiency Ratio ($MTCO_2e$/SP)				*2.50*
BAAQMD 2020 Threshold ($MTCO_2e$/SP)				*4.6*
Derived 2030 Emissions Goal ($MTCO_2e$/SP)				2.76
Exceeds Goal / Threshold				*No*

Source: BAAQMD 2017a, MIG 2022 (See Appendix B.2)

Note:

(A) $MTCO_2e$

(B) The mobile source emissions are based on weekday trip generation rates provided by Hexagon Transportation Consultants and reduced weekend trip generation rates (to reflect compliance with City TDM requirements. The trip distances were left as model defaults. The Vehicle Miles Traveled (VMT) Analysis prepared by Hexagon for the proposed project utilized average daily VMT associated with workers in the area, based on projections made in *Plan Bay Area 2040*. The CalEEMod estimates do not use this metric, because the transportation studies do not define a trip generation rate or the number of days per year employees are anticipated to travel to and from the site. In addition, the *Plan Bay Area 2040* data used in the VMT Analysis was used to draw a comparison between average VMT from trips associated with all employees in the City versus what occurs in the project area. CalEEMod does not require this comparison and, therefore, the default trip distance in CalEEMod is appropriate for use in this GHG analysis.

As shown in Table 3-8, implementation of the proposed project would result in a net mass increase of approximately 1,715.5 MTCO2e. The proposed project's GHG emissions, on a service population efficiency basis, would be reduced to approximately 2.50 $MTCO_2e$/SP/YR, which is below the BAAQMD threshold of 4.6 $MTCO_2e$/SP and 2030 project-specific goal used to demonstrate compliance with future GHG emission reduction goals (2.76 MTCO2e/SP/YR). As described above, this analysis also uses project consistency with the CARB 2017 Climate Change Scoping Plan, Plan Bay Area 2050, 2017 BAAQMD Clean Air Plan, and the San Carlos

Climate Mitigation and Adaptation Plan to determine the significance of the proposed project's GHG emissions, as discussed below.

CARB 2017 Climate Change Scoping Plan

Nearly all of the specific measures identified in the 2017 Climate Change Scoping Plan would be implemented at the state level, with CARB and/or another state or regional agency having the primary responsibility for achieving required GHG reductions. The proposed project, therefore, would not directly conflict with any of the specific measures identified in the 2017 Climate Change Scoping Plan.

Senate Bill 375 and Plan Bay Area 2050

The proposed project would be consistent with the relevant strategies in Plan Bay Area 2050 by following a Transportation Demand Management (TDM) Plan, potentially constructing a bike and pedestrian bridge, and installing electric vehicle charging stations. The implementation of the TDM plan would require the project to reduce project-related VMT by at least 20%. This requirement would be tracked and enforced through the implementation of Mitigation Measure TRANS-1 (see Section 3.17.2). Accordingly, the proposed project would support one of the primary goals of Plan Bay Area 2050, which is to reduce per capita mobile source emissions from light duty vehicles by 19% by 2035.

BAAQMD 2017 Clean Air Plan

The project would not conflict with or obstruct implementation of the BAAQMD's *2017 Clean Air Plan* (BAAQMD 2017b). The *2017 Clean Air Plan* includes GHG emissions from construction and operational GHG emissions sources in its emissions inventories and plans for achieving Clean Air Plan goals. As discussed in Section 3.3.3, the proposed project would not conflict with applicable control measures contained in the *2017 Clean Air Plan*. In addition, as described under response a), above, the proposed project would not exceed the BAAQMD's established 4.6 $MTCO_2e$/SP/YR threshold nor the project-specific goal 2.76 $MTCO_2e$/SP/YR, used to demonstrate progress toward the State's 2030 GHG emission reduction goal. Accordingly, the proposed project would not conflict with the *2017 Clean Air Plan*.

City of San Carlos Climate Mitigation and Action Plan

An analysis of the proposed project's consistency with potentially applicable measures in the City's CMAP is provided in Table 3-9.

Table 3-9: Project Consistency with the City of San Carlos's Climate Mitigation Action Plan

Potentially Applicable Measures	Consistency Analysis
Energy	
Strategy 6: Rooftop Solar. Continue to support and increase participation in rooftop and onsite solar energy systems in the community and at City facilities.	Not Applicable. The project would be exempt from the City's Reach Code, San Carlos Municipal Code Section 15.04.080, and would not be required to install solar panels on the building's rooftop.
Transportation and Land Use	
Strategy 12 Active Transportation. Prioritize bicycling and walking as safe, practical, and attractive travel options citywide, as directed by the Bicycle and Pedestrian Master Plan.	Consistent. The project would provide 66 bicycle parking spaces. Forty-four (44) of them would be long-term, indoor spaces. The project may also include the construction of a bike and pedestrian pathway connecting the project site to Industrial Road.

Table 3-9: Project Consistency with the City of San Carlos's Climate Mitigation Action Plan

Potentially Applicable Measures	Consistency Analysis
Strategy 14 Public Curbs. Assess opportunities in the downtown, mixed-use, office, and commercial areas to designate public curbs for passenger pick-up/drop-off in support of ridesharing.	Consistent. The project would have a passenger loading zone near the entry lobby for passenger pick-up/drop-off.
Strategy 16: Public Spaces. Create and maintain accessible public spaces, including the full spectrum of the public realm: sidewalks, alleys, pedestrian paseos, pedestrian and bicycle paths, plazas, squares, and public gathering spaces.	Consistent. The project may include the construction of a bike and pedestrian bridge that would provide public access to the site, along with on-site pedestrian crossings.
Strategy 17: Vehicle Miles Traveled. Reduce community-wide transportation-related emissions per resident and employee, with an emphasis on reductions from existing and new development in the city's core commercial, office, and industrial areas, including development on the east side.	Consistent. The project would follow San Carlos' Transportation Demand Management (TDM) policy, which requires a 20% trip reduction for the Project, by following a TDM Plan.
Strategy 18: Electric Vehicles. Support residents and business owners to transition to electric and plug-in hybrid vehicles	Consistent. The project would include 43 EV parking spaces with charging stations.
Off-Road	
Strategy 23: Clean-fuel Construction and Landscaping. Encourage hybrid and clean-fuel construction and landscaping equipment citywide.	Consistent. Project construction will use Tier 4 equipment.
Waste	
Strategy 27: Construction and Demolition Waste. Increase the amount of waste recycled during construction and demolition of buildings.	Consistent. The project would divert construction waste, consistent with CalGreen Code requirements and City Municipal Code Chapter 8.05.
Adaptation and Resilience	
Strategy 37: Heat Island Effect. Minimize the urban heat island effect	Consistent. The project would be subject to the 2019 Title 24 Building Code, which would require the proposed buildings to have roofs that meet the aged solar reflectance and thermal emittance requirements specified in CalGreen Code Section 140.3(a)(1)(A)(ii).
Source: San Carlos, 2021a	

As shown in Table 3-9, the proposed project would be consistent with the City's CMAP and therefore not conflict with it.

GHG Emissions Conclusion. The proposed project's GHG emissions would result in a net increase in GHG emissions; however, based on the preceeding analysis, these emissions would be below the project-specific efficiency goal of 2.76 $MTCO_2e$, and the project would not conflict, obstruct, or otherwise interfere with the implementation of a plan, policy, or regulation for the purposes of reducing GHG emissions. This impact would be less than significant.

3.8.4 References

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3.9 HAZARDS AND HAZARDOUS MATERIALS

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	☐	☐	☒	☐
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 which 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 2 miles of a public airport or public use airport, 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?	☐	☐	☐	☒

3.9.1 Environmental Setting

The project site is currently developed as a self-storage facility. The site is surrounded by existing single-family residential, commercial, and light industrial retail uses. According to aerial imagery and topographic maps of the project area, the self-storage facility has been on the project site since the late 1970s (ENGEO, 2021).

In January 2021, ENGEO prepared a Phase I Environmental Site Assessment (ESA) to review site use and current conditions to check for the storage, use, production, or disposal of hazardous or potentially hazards materials at the site based on the site's past and current use. The Phase I ESA conducted a limited soil and groundwater sampling effort to characterize potential contaminants at the site. The soil samples were analyzed for:

- The 17 heavy metals identified in the California Administrative Manual (CAM-17 metals)
- Volatile organic compounds (VOCs) and total petroleum hydrocarbons as gasoline (TPH-g)
- Total petroleum hydrocarbons as diesel and motor oil (TPH-d/mo)

Groundwater samples were analyzed for:

- VOCs and TPH-g
- TPH-d/mo
- CAM-17 metals (total and dissolved)
- Total oil and grease

The laboratory results identified detectable concentrations of the following metals in soil: arsenic, barium, chromium, cobalt, copper, lead, nickel, vanadium, and zinc. With the exception of arsenic, none of the detected metallic analytes within analyzed soil samples exceed their respective San Francisco Bay Regional Water Quality Control Board's (RWQCB's) Environmental Screening Levels (ESLs). Concentrations of arsenic were observed to be above the RWQCB's ESLs for shallow commercial soils. The Phase I ESA notes that although arsenic concentrations exceed the respective ESLs, the detected concentrations are within expected naturally occurring background concentrations for the San Francisco Bay Area and are not considered indicative of a human impact. Total petroleum hydrocarbons as diesel and TPH-mo were also detected in the soil samples, but concentrations were below RWQCB commercial ESLs. No VOCs were detected in the samples analyzed.[17] One soil sample taken at the site exhibited a chromium concentration of 56 milligrams per kilogram of collected soil, which is approximately 10 times the respective soluble threshold limit concentration of 5 milligrams per liter.

Various metals were detected in the two groundwater samples analyzed. With the exception of arsenic, all dissolved metallic concentrations in the groundwater were reported below respective Maximum Contaminant Level (MCL) priority-based ESLs. Minor concentrations of TPH-g and chloroform were detected in one of the samples; however, the detected concentrations were below respective ESLs. Total petroleum hydrocarbons as diesel, TPH-mo, and total oil and grease were not detected in any groundwater samples analyzed.

The Phase I ESA also determined that due to the age of the existing structures on site, that asbestos-containing materials and lead-based paint may exist within the structures.

According to the Phase I ESA, there are 108 sites listed on the Contaminated Sites List within one mile of the project site (ENGEO, 2021). While mapped hazardous materials sites are located in the project site vicinity, based on the distances to the identified database sites, regional topographic gradient, and findings from Environmental Data Resources (EDR), it is unlikely that the database sites in the project vicinity pose an environmental risk to the project site (ENGEO, 2021). No Recognized Environmental Conditions (RECs), no historical RECs, and no controlled RECs were identified for the site.

3.9.2 Regulatory Setting

Resource Conservation Recovery Act

The 1976 Resource Conservation Recovery Act (RCRA) (42 U.S.C. §6901 et seq.) gives the U.S. Environmental Protection Agency (EPA) the authority to control hazardous waste from cradle to grave. This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The RCRA was amended in 1986 to allow the EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances.

[17] Testing of VOCs included trichloroethylene and tetrachloroethylene through EPA Method 8260B, which is referred to as Method 8260 in the ENGEO reports, and organochlorine pesticides through EPA Method 8081 (ENGEO 2022).

Most of the compliance monitoring responsibility under the RCRA is delegated to the states and local authorities.

Comprehensive Environmental Response, Compensation, and Liability Act

The 1980 Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA or Superfund) (42 U.S.C. §9601 et seq.) provides a Federal "Superfund" to clean up uncontrolled or abandoned hazardous-waste sites as well as accidents, spills, and other emergency releases of pollutants and contaminants into the environment. The EPA cleans up orphan sites when potentially responsible parties cannot be identified or located, or when they fail to act. Through various enforcement tools, the EPA obtains private party cleanup through orders, consent decrees, and other small party settlements. Superfund site identification, monitoring, and response activities in states are coordinated through the state environmental protection or waste management agencies.

Hazardous Materials Transportation Act

The 1975 Hazardous Materials Transportation Act (HMTA) (49 U.S.C. §5101 et seq.) is the principal Federal law governing the transportation of hazardous materials. The HMTA sets regulations for procedures and policies, material designations and labeling, packaging requirements, and operational rules to guide the safe transportation of hazardous materials. The HMTA preempts state and local governmental requirements that are inconsistent with the statute, unless that requirement affords an equal or greater level of protection to the public than the HMTA requirement.

International Fire Code

The International Fire Code (IFC) (2021) is a model code that contains regulations to safeguard life and property from fires and explosion hazards. The IFC covers general precautions, emergency planning and preparedness, fire department access sand water supplies, automatic sprinkler systems, fire alarm systems, special hazards, and the storage and use of hazardous materials. The IFC has been adopted for use as a base code standard by many jurisdictions in the United States.

California Code of Regulations Title 22

California Code of Regulations (CCR) Title 22 (Social Security) Division 4.5 (Environmental Health Standards for the Management of Hazardous Waste regulates the generation, transportation, treatment, storage, and disposal of hazardous waste. CCR Title 22 Division 4.5 identifies wastes that are subject to regulation as hazardous waste, sets standards for generators and transporters of hazardous waste and owners and operators of hazardous waste transfer, treatment, storage, and disposal facilities; establishes the hazardous waste permit program; contains requirements pertaining to specific types of hazardous wastes; and more. The Department of Toxic Substances Control (DTSC) implements most chapters under this division.

California Code of Regulations Title 27

California Code of Regulations (CCR) Title 27 (Environmental Protection) contains the current regulations of CalRecycle and the State Water Resources Control Board pertaining to waste disposal on land. CCR Title 27 regulates the treatment, storage, and disposal of solid wastes by establishing criteria for waste management units, facilities, and disposal sites; setting documentation and reporting procedures for regulatory tiers, permits, waste discharge requirements (WDRs), and plans; and setting standards for special treatment, storage, and disposal units.

3.9.3 Discussion

Would the project:

a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?

Less Than Significant Impact. Hazardous materials include substances that are flammable, corrosive, explosive, radioactive, infectious, thermally unstable, and poisonous. The proposed life science building would include research and laboratory uses that would likely include the routine transport, use, storage, and disposal of hazardous materials associated with these uses. Project operation would also involve the use of small amounts of hazardous materials for cleaning and maintenance purposes, such as cleansers, degreasers, pesticides, and fertilizers. Construction activities at the project site would involve the short-term use of hazardous materials, such as petroleum-based fuels for maintenance and construction equipment, wet concrete and asphalt, paint, and other hazardous construction materials.

All hazardous substances associated with project operation would be used, transported, stored, and disposed of in conformance with applicable regulations, including:

- The Resource Conservation Recovery Act, which provides the "cradle to grave" regulation of hazardous wastes;
- The Comprehensive Environmental Response, Compensation, and Liability Act, which regulates closed and abandoned hazardous waste sites;
- The Hazardous Materials Transportation Act, which governs hazardous materials transportation on US roadways;
- The International Fire Code, which creates procedures and mechanisms to ensure the safe handling and storage of hazardous materials;
- California Code of Regulations Title 22, which regulates the generation, transportation, treatment, storage, and disposal of hazardous waste; and
- The California Code of Regulations Title 27, which regulates the treatment, storage, and disposal of solid wastes.

Compliance with applicable regulations would ensure that the project would not create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials.

As noted above in the environmental setting, one soil sample taken at the site exhibited a chromium concentration of 56 milligrams per kilogram of collected soil, which is approximately 10 times the respective soluble threshold limit concentration of 5 milligrams per liter. Additional soil testing would be done during grading / excavation activities to determine the appropriate disposal facility for the 20 feet of soil that would be excavated and off hauled to accommodate the underground parking (see more on quantities of off-haul presented in Section 2.3.7). The soil would be suitable for reuse on site, however, and would not require remediation per existing regulations. This impact would be less than significant.

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?

Less Than Significant Impact. Potential hazards to the public or the environment through the accidental release of hazardous materials into the environment during project construction and operation are discussed below.

Project Construction

Construction activities at the project site would involve the short-term use of hazardous materials, such as petroleum-based fuels for maintenance and construction equipment, wet concrete and asphalt, paint, and other hazardous construction materials. All spills or leaks of petroleum products during construction are required to be immediately contained, the hazardous material identified, and the material remediated in compliance with applicable State and local regulations. All contaminated waste is required to be collected and disposed of at an appropriately licensed disposal or treatment facility. Furthermore, strict adherence to all emergency response plan requirements set forth by the San Mateo County Environmental Health Department (San Mateo County Health) would be required throughout the duration of construction. In addition, as described under criterion a), soil off hauled during grading and excavation would be tested to determine the appropriate method of disposal. This testing is a typical practice associated with waste transportation and disposal and is not indicative of a human health or environmental risk at the site (ENGEO, 2022a). Therefore, substantial hazards to the public or the environment arising from the accidental release of hazardous materials during project construction would not occur.

Project Operation

As discussed above under criterion a), operation of the project would involve the use, storage and/or disposal of hazardous materials associated with operational activities, including laboratory use, cleaning, and landscape maintenance. The specific chemicals and their quantities are not known at this time, as it would depend on the tenant(s) who eventually occupy the building. Although compliance with applicable regulations would make it unlikely, project operation could result in the accidental release of one or more of these materials into the environment.

The tenant(s) of the project building would be required to prepare and implement a hazardous materials business plan (HMBP) for hazardous materials routinely used and stored at the site. San Mateo County Health Department is the Certified Unified Program Agency (CUPA) for San Mateo County, including the City of San Carlos, and is responsible for enforcing Chapter 6.95 of the Health and Safety Code. As the CUPA, San Mateo County Health is required to regulate HMBPs and chemical inventory, hazardous waste and tiered permitting, underground storage tanks, and risk-management plans (San Mateo County Health, 2022).

The HMBP is required to contain basic information on the location, type, quantity, and health risks of hazardous materials stored, used, or disposed of on development sites. The HMBP also contains an emergency response plan, which describes the procedures for mitigating a hazardous release, procedures, and equipment for minimizing the potential damage of a hazardous materials release, and provisions for immediate notification of the California Emergency Management Agency and other emergency response personnel, such as the San Carlos Fire Department. Implementation of the emergency response plan facilitates rapid response in the event of an accidental spill or release, thereby reducing potential adverse impacts.

Furthermore, San Mateo County Health is required to conduct ongoing routine inspections to ensure compliance with existing laws and regulations; to identify safety hazards that could cause or contribute to an accidental spill or release; and to suggest preventative measures to minimize the risk of a spill or release of hazardous substances (San Mateo County Health, 2022). Compliance with these regulations would ensure that the risk of accidents and spills is minimized to the maximum extent practicable during the operation of the proposed project. This impact would be less than significant.

c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or hazardous waste within one-quarter mile of an existing or proposed school?

No Impact. There are no schools within one-quarter mile of the project site. The schools closest to the project site are Central Middle School and Arroyo School, both of which are located approximately 0.8 miles south of the project site. No impact would occur.

d) Be located on a site which 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?

Less Than Significant Impact. The project site is not included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 (CalEPA, 2022). As described under this sections Environmental Setting, based on the distances to the identified database sites, regional topographic gradient, and findings from EDR, it is unlikely that the hazardous materials sites in the project vicinity pose an environmental risk to the project site (ENGEO, 2021). Therefore, the risk of contamination on the project site from nearby hazardous materials handling and storage is low.

As discussed under this section's Environmental Setting, a Phase I ESA was conducted to characterize potential soil and groundwater contaminants at the site.

With the exception of arsenic, none of the detected metallic analytes within analyzed soil samples exceed their respective San Francisco Bay RWQCB's ESLs. Concentrations of arsenic were observed to be above the RWQCB's ESLs for shallow commercial soils, but were within expected naturally occurring background concentrations for the San Francisco Bay Area and are not considered indicative of a human impact. Various metals were detected in the two groundwater samples analyzed. With the exception of arsenic, all dissolved metallic concentrations in the groundwater were reported below respective MCL priority-based ESLs.

The Phase I ESA determined that due to the age of the existing structures on site, asbestos-containing materials and lead-based paint may exist within the structures.

The Phase I ESA concluded there is no evidence of RECs in connection with the project site, and the project site is suitable for commercial development. The Phase I ESA included the following recommendations:

- A waste extraction test (WET) be performed on sampling location EB-2[18] at a depth of four feet (EB-2@4') to determine the transportation and disposal classification of representative soil if off-haul of soil material is necessary (see next section).
- An asbestos and lead-based paint survey should be performed prior to renovation or demolition of structures to determine if special handling requirements will be necessary.

Waste Extraction Test

In January 2022, ENGEO confirmed that the detected concentrations of chromium in sample EB-2@4' are consistent with expected naturally occurring background concentrations in the San Francisco Bay Area (ENGEO, 2022a). Given the absence of an anthropogenic cause for elevated chromium, it was determined that a comparison to the total chromium or chromium (III) ESL was appropriate, and the detected concentrations are well below these appropriate

[18] Sampling location EB-2 was located northeast of the self-storage facility's office, and is depicted in Figure 2 of the Phase I ESA prepared by ENGEO (ENGEO, 2022b).

screening levels. As such, the detected chromium concentrations were determined to not pose a risk to human health or the environment and the existing soil on site is suitable for reuse.

Soil would still be required undergo testing to determine its transportation and disposal classification, once a soil recipient site is identified.

Asbestos and Lead-Based Paint Survey

A significant hazard to the public or environment may occur if existing on-site structures that potentially contain asbestos or lead-based paint are disturbed during demolition activities and appropriate health and safety protocols demolition activities and removal of asbestos- and lead-containing materials are not implemented. The project is required to complete an asbestos and lead-based paint survey per the Phase I ESA recommendations. It is standard protocol to test for and remediate any asbestos containing materials and lead-based paint prior to demolition activities. The following describes the type of testing that would be conducted at the site, consistent with existing regulations.

A visual inspection/pre-demolition survey, and possible sampling, would be conducted prior to the demolition of on-site buildings to determine the presence of asbestos-containing materials (ACMs) and lead-based paint (LBP).

- During demolition activities, all building materials containing lead-based paint would be removed in accordance with Cal/OSHA Lead in Title 8, California Code of Regulations (CCR), Section 1532.1, including employee training, employee air monitoring, and dust control. Any debris or soil containing lead-based paint or coatings would be disposed of at landfills that meet acceptance criteria for the type of lead being disposed.
- All potentially friable asbestos containing materials (ACMs) would be removed in accordance with National Emission Standards for Air Pollution (NESHAP) guidelines prior to demolition or renovation activities that may disturb ACMs. All demolition activities would be undertaken in accordance with Cal/OSHA standards contained in Title 8, CCR, Section 1529, to protect workers from asbestos exposure.
- Materials containing more than one-percent asbestos would also be subject to BAAQMD regulations. Removal of materials containing more than one-percent asbestos would be required to be completed in accordance with BAAQMD requirements and notifications.
- Based on Cal/OSHA rules and regulations, the following conditions would be required to limit impacts to construction workers.
    - Prior to commencement of demolition activities, a building survey, including sampling and testing, would be completed to identify and quantify building materials containing lead-based paint.
    - During demolition activities, all building materials containing lead-based paint shall be removed in accordance with Cal/OSHA Lead in Construction Standard, Title 8, CCR, Section 1532.1, including employee training, employee air monitoring and dust control.
- Any debris or soil containing lead-based paint or coatings would be disposed of at landfills that meet acceptance criteria for the type of waste being disposed.

Completion of the asbestos and lead-based paint survey and adherence to testing requirements and compliance with existing regulations would render this impact less than significant.

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?

Less Than Significant Impact. The San Carlos Airport, located approximately 0.2 miles northeast of the project site, is a general-aviation airport. The project is located in the San Carlos Airport Land Use Compatibility Plan (ALUCP) area (C/CAG, 2015). According to the ALUCP, the project site is not within a primary flight path, but is within Zone 6, the traffic pattern zone. Research and development office land uses are identified as compatible land uses in this zone. Under the ALUCP, the project site has an allowable height of 155 feet above mean sea level (MSL).

The proposed building would be approximately 83-feet, 10-inches tall and at approximately 9-feet MSL, putting its total height at approximately 93 feet MSL, well below the allowable height of 155 feet. Accordingly, the proposed project would not subject people working in the project building or structures to substantial safety hazards or excessive noise and the proposed building would not create a hazard to air navigation. The project requires conformance review by C/CAG for the Airport Land Use Consistency Plan. This impact would be less than significant.

f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?

No Impact. The City of San Carlos has established emergency preparedness procedures to respond to a variety of natural and man-made disasters that could affect the community. In the event of an emergency, the City would respond according to the Standardized Emergency Management System (SEMS) developed by the State. The SEMS system establishes a hierarchy of response, with local government as the first responders. If San Carlos does not have sufficient resources to respond to a disaster, the County of San Mateo would lend resources. San Carlos established an Emergency Operations Center program in 1987. San Mateo County Sheriff's Office of Emergency Services (OES) is responsible for coordinating emergency response in the county. The OES operates under a Joint Powers Agreement with the 20 incorporated cities in the county (San Mateo County OES, 2014).

The proposed project would not interfere with the City's emergency response plan or emergency evacuation plan. The proposed project would not block roads and would not impede emergency access to surrounding properties or neighborhoods. The project would follow all of the City's construction best management practices, which include that vehicle parking and storage occur in a designated, on-site area. The project site plans include plans emergency vehicle access. No impact would occur.

g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury, or death involving wildland fires?

No Impact. The project site is developed with existing self-storage facility structures and associated paved parking lot. The site is surrounded by built-out urban uses, and is not mapped in a Fire Hazard Severity Zone by the California Department of Forestry and Fire Prevention (CALFIRE, 2020). The proposed project would not subject people or structures to wildfire hazards. No impact would occur.

3.9.4 References

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3.10 HYDROLOGY AND WATER QUALITY

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater 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?	☐	☐	☐	☒

3.10.1 Environmental Setting

Site topography is relatively flat with a slope of 1.5 percent and surface elevations of approximately nine feet above mean sea level (MSL) across the site (Langan Engineering and Environmental Associates 2021).

The project site is in the watershed of Steinberger Slough, downstream of both the Belmont Creek and Pulgas Creek watersheds (Tillery, 2007). The project site is bordered on the south and east by an engineered, natural bottom channel in the Caltrans right-of-way that collects stormwater from San Carlos, and empties into Phelps Slough, approximately 0.3 miles northeast of the project site. Phelps Slough enters a lagoon before being released to Steinberger Slough through a tidegate. During the February 3, 2022, site visit, the channel had flowing water. The side slope of the channel behind one of the site's existing buildings has experienced ongoing erosion (Langan Engineering and Environmental Associates, 2021).

The City of San Carlos and the project site are located within the Santa Clara Valley Groundwater Basin, San Mateo Plain Sub-basin, as identified by the San Francisco Regional Water Quality Control Board (RWQCB).

The project site is located fully within flood zone AE, as mapped by the Federal Emergency Management Agency (FEMA). Zone AE corresponds to a high-risk flood area with at least a 1 percent annual chance of flooding with a flood base elevation of 10 feet (FEMA 2019).

3.10.2 Regulatory Setting

In addition to CEQA, other federal and state laws apply to the hydrology and water quality associated with the proposed project. Each of these laws is identified and discussed below

Federal Clean Water Act

The Clean Water Act (CWA) is the primary federal legislation governing water quality and forms the basis for several state and local laws throughout the nation. The objective of the CWA is "to restore and maintain the chemical, physical, and biological integrity of the Nation's waters." Important and applicable sections of the Act are:

- Section 303 of the federal Clean Water Act requires states to develop water quality standards to protect the beneficial uses of receiving waters. In accordance with California's Porter/Cologne Act, the Regional Water Quality Control Boards (RWQCBs) of the State Water Resources Control Board (SWRCB) are required to develop water quality objectives that ensure their region meets the requirements of Section 303 of the Clean Water Act.
- Section 402 establishes the National Pollutant Discharge Elimination System (NPDES), which is a permitting system for the discharge of any pollutant (except for dredge or fill material) into waters of the U.S. In California, this permit program is administered by the RWQCBs, and is discussed in detail below.

National Pollutant Discharge Elimination System

The CWA has nationally regulated the discharge of pollutants to the waters of the U.S. from any point source since 1972. In 1987, amendments to the CWA added Section 402(p), which established a framework for regulating nonpoint source storm water discharges under the NPDES. The NPDES General Construction Permit (GCP) requirements apply to clearing, grading, and disturbances to the ground such as excavation. Construction activities on one or more acres are subject to a series of permitting requirements contained in the NPDES GCP. The GCP includes requirements for training, inspections, record keeping, and, for projects of certain risk levels, monitoring. The general purpose of the requirements is to minimize the discharge of pollutants and to protect beneficial uses and receiving waters from the adverse effects of construction-related storm water discharges.

The GCP requires the preparation and implementation of a Stormwater Pollution Prevention Plan (SWPPP) that includes Best Management Practices (BMPs) to be implemented during Project construction. The project sponsor is also required to submit a Notice of Intent (NOI) with the State Water Resources Control Board Division of Water Quality. The NOI includes general information on the types of construction activities that would occur on the site.

Porter-Cologne Water Quality Control Act

The State's Porter-Cologne Water Quality Control Act, as revised in December 2007 (California Water Code Sections 13000-14290), provides for protection of the quality of all waters in the State of California for use and enjoyment by the people of California. It further provides that all activities that may affect the quality of waters of the state shall be regulated to obtain the highest water quality that is reasonable, considering all demands being made and to be made on those waters.

The Act also establishes provisions for a statewide program for the control of water quality, recognizing that waters of the state are increasingly influenced by interbasin water development projects and other statewide considerations, and that factors such as precipitation, topography, population, recreation, agriculture, industry, and economic development vary regionally within the State. The statewide program for water quality control is, therefore, administered most effectively on a local level with statewide oversight. Within this framework, the Act authorizes the State Water Resources Control Board and RWQCBs to oversee the coordination and control of water quality within California.

State Water Resources Control Board

Created by the California State Legislature in 1967, the State Water Resources Control Board holds authority over water resources allocation and water quality protection within the State. The five-member State Water Resources Control Board allocates water rights, adjudicates water right disputes, develops statewide water protection plans, establishes water quality standards, and guides the nine RWQCBs. The mission of the State Water Resources Control Board is to, "preserve, enhance, and restore the quality of California's water resources, and ensure their proper allocation and efficient use for the benefit of present and future generations."

San Francisco Bay Regional Water Quality Control Board

The City of San Carlos is under the jurisdiction of the San Francisco Bay RWQCB. As mentioned above, activities that disturb one or more acres of soil (including all construction disturbance) are required to obtain coverage under the General Permit for Discharges of Storm Water Associated with Construction Activity (Construction General Permit, 99-08-DWQ). Construction activity subject to this permit includes clearing, grading and disturbances to the ground such as stockpiling or excavation, but does not include regular maintenance activities. The Construction General Permit requires the development and implementation of a SWPPP. The SWPPP must list BMPs the discharger will use to protect storm water runoff and the placement of those BMPs. Furthermore, the SWPPP must contain a visual monitoring program; a chemical monitoring program for "non-visible" pollutants to be implemented if there is a failure of BMPs; and a sediment monitoring plan if the site discharges directly to a water body listed on the 303(d) list for sediment. Section A of the Construction General Permit describes the elements that must be contained in a SWPPP.

National Flood Insurance Program

The Federal Emergency Management Agency (FEMA) established the National Flood Insurance Program (NFIP) to reduce impacts of flooding on private and public properties. The program provides subsidized flood insurance to communities that comply with FEMA regulations protecting development in floodplains. As part of the program, FEMA publishes Flood Insurance Rate Maps (FIRMs) that identify Special Flood Hazard Areas (SFHAs). An SFHA is an area that would be inundated by the one-percent annual chance flood, which is also referred to as the base flood or 100-year flood.

San Mateo Countywide Water Pollution Control Prevention Program

The City of San Carlos participates in the San Mateo Countywide Water Pollution Prevention Program (SMCWPPP), a partnership of the City/County Association of Governments (C/CAG), each incorporated city and town in the county, and the County of San Mateo, which share a common National Pollutant Discharge Elimination System (NPDES) permit. The Federal Clean Water Act and the California Porter-Cologne Water Quality Control Act require that large urban areas discharging stormwater into the San Francisco Bay or the Pacific Ocean have an NPDES permit to prevent harmful pollutants from being dumped or washed by stormwater runoff, into the stormwater system, then discharged into local waterbodies.

The Municipal Regional Permit outlines the State's requirements for municipal agencies in San Mateo County to address the water quality and flow-related impacts of stormwater runoff. Some of these requirements are implemented directly by municipalities while others are addressed by the SMCWPPP on behalf of all the municipalities. This is a comprehensive permit that requires activities related to construction sites, industrial sites, illegal discharges and illicit connections, new development, and municipal operations. The permit also requires a public education program, implementing targeted pollutant reduction strategies, and a monitoring program to help characterize local water quality conditions and to begin evaluating the overall effectiveness of the permit's implementation.

The Municipal Regional Stormwater NPDES Permit (MRP) issued by the San Francisco Bay RWQCB (Order No. R2-2015.0049) for San Mateo County includes the City of San Carlos under its coverage. Under Provision C.3 of the MRP, new development and redevelopment projects are required to implement appropriate source control, site design, and stormwater treatment measures. The San Mateo Countywide Water Pollution Prevention Program (SMCWPPP) is a partnership of each incorporated city and town within San Mateo County, San Mateo County, and the C/CAG, which all share the MRP. The SMCWPPP requires submittal of the C.3 and C.6 Development Review Checklist for new development and redevelopment projects to ensure that the appropriate construction best management practices (BMPs), source control measures, low impact development (LID) site design measures, and stormwater treatment measures will be implemented.

San Carlos Municipal Code

Chapter 13.14 of the San Carlos Municipal Code, Stormwater Management and Discharge Control, establishes requirements to protect and enhance the water quality of the City’s watercourses, water bodies, and wetlands in a manner pursuant to and consistent with the Clean Water Act. Chapter 13.14 enforces the tenets of the Clean Water Act by:

1. Eliminating non-stormwater discharges to the municipal separate storm sewer;
2. Controlling the discharge to municipal separate storm sewers from spills, dumping or disposal of materials other than stormwater;
3. Reducing pollutants in stormwater discharges to the maximum extent practicable.

Chapter 13.14 sets minimum standards for the reduction of pollutants in stormwater; these requirements include standards for parking lots and similar structures, best management practices for new developments and redevelopments, and compliance with best management practices guidelines or requirements that have been adopted by the City for a specific activity, operation, or facility.

Chapter 15.56. of the San Carlos Municipal Code sets forth construction requirements for development that would minimize flood hazard risks, including anchoring, elevation, and flood-proofing, and standards for utilities, subdivisions, residential, and non-residential construction. Non-residential structures can either be elevated above the base flood elevation or be floodproofed below the base flood level. Compliance with Section 15.56.120 requires a development permit approval from the Floodplain Administrator for the City of San Carlos (i.e., the Building Official) that provides plans drawn to scale showing the nature, location, dimensions, and elevation of the area in question; the location and elevation of existing or proposed structures, fill, storage of material, and drainage facilities; and floodproofing provisions.

San Carlos 2030 General Plan

The San Carlos 2030 General Plan was adopted in 2009. The following policies from the General Plan's Environmental Management Element are relevant to hydrology and water quality.

- **Policy EM-5.1:** Reduce the discharge of toxic materials into the city's sanitary sewer and stormwater collection system by promoting the use of Best Management Practices (BMPs).
- **Policy EM-5.2:** Promote the use of less toxic household and commercial cleaning materials.
- **Policy EM-5.3:** Promote the conservation and efficient use of water in new and existing residences and by commercial and industrial consumers.
- **Policy EM-5.5:** Recycled water distribution system (purple pipe) should be used for landscaping and other non-potable water uses for residential, commercial and industrial customers, where technically and financially feasible.
- **Policy EM-5.7:** Encourage site designs that manage the quantity and quality of storm water run-off.
- **Policy EM-5.10:** Require the evaluation of potential groundwater depletion that could occur from new development through dewatering.

3.10.3 Discussion

Would the project:

a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?

Less Than Significant Impact. Potential impacts to water quality during the construction and operation phases of the proposed project are discussed below.

Project Construction

Demolition, excavation, grading, and other construction activities associated with the proposed project have the potential to impact water quality through increasing the amount of silt, debris, and pollutants carried in runoff. The use of fuels, solvents, paints, and other types of hazardous materials during construction may present a risk to surface water quality. The refueling and parking of construction vehicles and other equipment on-site during construction may result in oil, grease, or related pollutant leaks and spills that may discharge into the storm drain system and/or channel on the southern and eastern sides of the project site.

To minimize these potential impacts, the proposed project would be required to comply with the NPDES GCP as well as prepare a SWPPP that requires the incorporation of BMPs to control sedimentation, erosion, and hazardous materials contamination of runoff during construction. The SWRCB mandates that projects that disturb one or more acres must obtain coverage under the Statewide GCP. The project would disturb the entire site, which is approximately 2.4 acres in size and, therefore, would be subject to these requirements.

The Applicant is required to comply with C.6 provisions of the MRP – Construction Stormwater and attach the San Mateo Countywide SWPPP's construction best management practices plan sheet to project plans, and has done so as of the plan sheets dated December 21, 2021 (see Sheet C14.0). The project contractor would be required to implement the applicable BMPs identified on that sheet.

In addition, the project must comply with the City of San Carlos' existing regulatory requirements, including Chapter 13.14, Stormwater Management and Discharge Control, which is intended to reduce pollutants in stormwater discharges to the maximum extent practicable.

Adherence to applicable water quality regulations, including the active implementation of construction stormwater BMPs, and compliance with the City of San Carlos Municipal Code would ensure that water quality standards are not violated during construction. Therefore, potential impacts to water quality during project construction would be less than significant.

Project Operation

The proposed project would increase the amount of pervious surface area at the project site compared to existing conditions. The existing project site is almost entirely covered with impervious surfaces (a paved parking lot and buildings). The project site includes approximately 2.4 acres (105,067 square feet) of impervious surface area and little to no pervious surface area. The proposed project includes approximately 2.23 acres (97,084 square feet) of impervious surface area, and approximately 0.18 acres (7,983 square feet) of pervious surface area (BKF Engineers, 2021). As such, the project would decrease the amount of impervious surface area, or increase the amount of pervious area, at the site by approximately 0.18 acres (7,983 square feet) compared to existing conditions. This decrease in impervious surface area would be a result of the new landscaped areas.

Although an increase in the amount of pervious area provided at the project site would reduce the amount of water runoff from the site, the proposed project could still impact water quality during the operational phase of the project. Runoff from commercial properties and roadways typically contain oils, grease, fuel, antifreeze, by products of combustion (such as lead, cadmium, nickel, and other metals), as well as fertilizers, herbicides, pesticides, and other pollutants. Precipitation at the beginning of the rainy season may result in initial stormwater runoff (first flush) with high pollutant concentrations.

Stormwater runoff water quality is regulated locally by the SMCWPPP, which includes the C.3 provisions set by the San Francisco Bay RWQCB's MRP. The MRP was amended in 2015 and includes stricter requirements for incorporating post-construction stormwater control/LID measures into new development and redevelopment projects. Because the proposed project would replace 10,000 square feet or more of impervious surface, it is considered a, "regulated project." In order to comply with Provision C.3 of the MRP, the project would be required to include appropriate source control, site design, and storm water treatment measures to address both soluble and insoluble storm water runoff pollutant discharges and prevent increases in runoff flows. Project elements that address C.3 provisions include, but are not limited to:

- Marking on-site inlets with the words "No Dumping! Flows to Bay" or equivalent.
- Plumbing interior floor drains to sanitary sewer.
- Plumbing interior parking garage drains to sanitary sewer.
- Retaining existing vegetation as practicable.
- Selecting diverse species appropriate to the site.
- Including plants that are pest and/or disease-resistant, drought-tolerant, and/or attract beneficial insects.
- Minimizing use of pesticides and quick-release fertilizers.
- Using an efficient irrigation system designed to minimize runoff.
- Providing a sink or other area for equipment cleaning, which is:
    - Connected to a grease interceptor prior to sanitary sewer discharge.
    - Large enough for the largest mat or piece of equipment to be cleaned.
    - Indoors or in an outdoor roofed area designed to prevent stormwater run-on and run-off, and signed to require equipment washing in this area.
- Providing a roofed and enclosed area for dumpsters, recycling containers, etc., designed to prevent stormwater run-on and runoff.
- Connecting any drains in or beneath dumpsters, compactors, and tallow bin areas serving food service facilities to the sanitary sewer.

- Performing process activities either indoors or in roofed outdoor area, designed to prevent stormwater run-on and runoff, and to drain to the sanitary sewer.
- Covering or designing outdoor equipment/materials storage areas to avoid pollutant contact with stormwater runoff.
- Locating outdoor equipment/materials storage areas only on paved and contained areas.
- Roofing storage areas that will contain non-hazardous liquids.
- Designating a vehicle/equipment repair/maintenance area indoors, or an outdoors area designed to prevent stormwater run-on and runoff and provide secondary containment.
- Not installing drains in the secondary containment areas.
- Not installing floor drains unless pretreated prior to discharge to the sanitary sewer.
- Connecting containers or sinks used for parts cleaning to the sanitary sewer.
- Designing fire sprinkler systems for discharge of fire sprinkler test water to landscape or sanitary sewer.
- Directing roof runoff to vegetated areas.
- Directing roof runoff from sidewalks, walkways and/or patios to vegetated areas.
- Directing runoff from driveways and/or uncovered parking lots onto vegetated areas.
- Limiting disturbance of natural water bodies and drainage systems; minimizing compaction of highly permeable soils; protecting slopes and channels; and minimizing impacts from stormwater and urban runoff on the biological integrity of natural drainage systems and water bodies.
- Minimizing impervious surfaces.

The proposed project would comply with applicable C.3 provisions, and has proportioned the site into five Drainage Management Areas (DMAs) as shown in Sheet C8.0 of the December 21, 2021 plan set. These DMAs would generally direct stormwater runoff to planters around the perimeter of the site where water would flow through vegetation before reaching the outfall on the southwestern corner of the project site.

Project conformance with NPDES permit requirements and required permit approvals by the City of San Carlos would ensure that implementation of the proposed project would result in a less than significant impact to 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?

Less than Significant Impact. Construction of the proposed project would involve dewatering of the site so that the subterranean parking garage could be constructed. Although groundwater in proximity of the excavation area may also lower slightly during construction activities, measures would be taken in accordance with the recommendations contained in the geotechnical report such that this reduction in groundwater would not be substantial.[19] Once constructed, however, the proposed project would increase the amount of permeable space at the project site by approximately 0.18 acres (7,983 square feet) and add stormwater retention features that would facilitate the percolation of collected stormwater. Therefore, the proposed project would not interfere with groundwater recharge.

Implementation of the proposed project would result in an increase in water demand compared to existing conditions. However, groundwater is not used for municipal supply in San Carlos. The Mid-Peninsula Water District (MPWD) would provide potable water for the proposed

[19] As discussed in Section 3.7.3, lowering the groundwater in proximity of the excavated area reduces the buoyancy of soil, especially the Bay Mud layer, and could cause relatively significant settlement of the surrounding ground.

project. MPWD does not use groundwater supplies to meet demand. Since the proposed project would not develop or increase the use of groundwater supplies, implementation of the project would not impact groundwater supplies. Further, although the proposed project would introduce a subterranean structure at the site, it would also increase the amount of pervious area at the site and allow for greater groundwater recharge at the site compared to existing conditions. This impact would be less than significant.

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;

Less Than Significant Impact. The project would not substantially alter the drainage pattern of the site or area. Currently, the interior of the site's existing drainage patterns direct stormwater from the interior to the site to an open engineered drainage channel on the southwestern corner of the site. Under the proposed project, stormwater would be directed to on-site stormwater retention features and then to the outfall located at the southwest corner of the site. Stormwater run-off from the site would be directed to a series of DMAs/bioretention swales that allow for the cleansing and infiltration of stormwater before reaching out the outfall. The project would feature planter areas (for stormwater treatment) primarily on the north side of the building, but also on the eastern, southern, and western project site perimeters (see Figure 12 – Stormwater Control Plan). The project would also require the installation of 10" PVC pipe along the northern side of the project site, as well as a series of five, new, storm drain manholes on the interior of the site that generally parallel the building's western façade. The project would result in an increase of 7,983 square feet of pervious surface area from landscaping at the project site under implementation of the proposed project.

The proposed project would not cause erosion or siltation over the long term because the project site would be covered with the new building, paved areas, and landscaping. No bare soils would be present. However, project construction would require grading and soil exposure that could result in temporary erosion and/or siltation if not controlled. As stated previously, the project would be required to comply with existing regulations and implement BMPs to prevent erosion and saltation. Compliance with these provisions would prevent erosion and siltation on- or off-site during construction activities. This impact would be less than significant.

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;

Less Than Significant Impact (Responses ii) and iii)). The project would not alter the existing drainage pattern of the site except for adding bioretention swales and flow-through planters for on-site stormwater retention and treatment. In addition, the project would not add new impervious surfaces; the project would reduce impervious surface area at the site by approximately 0.18 acres compared to existing conditions. The project includes source control and site design measures to prevent pollutants from entering stormwater and help retain storm water on site. As a result, the project is expected to result in a decrease in pollutants entering stormwater and in the volume of stormwater exiting the site compared to existing conditions. Therefore, the project would not increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site, create or contribute to runoff water which would exceed the capacity of existing or planned stormwater drainage systems, or provide substantial additional sources of polluted runoff. This impact would be less than significant.

iv) Impede or redirect flood flows?

Less Than Significant Impact. The project site is located with FEMA flood zone AE, which is a special flood hazard area (SFHA) subject to inundation by the 100-year flood with a base flood elevation of approximately 10 feet above mean sea level (FEMA, 2019). The elevation at the site is approximately 9 feet above mean sea level, so flooding could occur in the event of a 100-year storm. In addition, the San Mateo County Multijurisdictional Local Hazard Mitigation Plan (2021) presents a map showing much of the area between Highway 101 and State Route 82 (El Camino Real) as being impacted by flooding under future sea level rise scenarios.

Construction within SFHAs is governed by the City's Municipal Code Chapter 15.56 (Flood Damage Prevention). Section 15.56.080 requires a development permit to be obtained before construction begins in a SFHA. City building permits serve as the vehicles for permitting development in the floodplain. Municipal Code Section 15.56.120 sets forth construction requirements for development that would minimize flood hazard risks, including anchoring, elevation, and flood-proofing, and standards for utilities, subdivisions, residential, and non-residential construction. Non-residential structures can either be elevated above the base flood elevation or be floodproofed below the base flood level. Compliance with Section 15.56.120 would require the approval of a development permit from the Floodplain Administrator for the City of San Carlos (i.e., the Building Official) which provides plans drawn to scale showing the nature, location, dimensions, and elevation of the area in question; the location and elevation of existing or proposed structures, fill, storage of material, and drainage facilities; and floodproofing provisions. Specifically, the following information is required:

- Proposed elevation, in relation to mean sea level, of the lowest floor (including basement) of all structures.
- Proposed elevation in relation to mean sea level to which any structure shall be floodproofed. Floodproofing requires the structure to be watertight with walls substantially impermeable to the passage of water below the base flood level and have structural components capable of resisting hydrostatic and hydrodynamic loads and effects of buoyancy.
- All appropriate elevation and floodproofing certifications as listed in Section 15.56.100(D) of the San Carlos Municipal Code.

Approximately 51,234 square feet of the surface of the site would be dedicated to building coverage; 45,850 square feet would be for sidewalks, patios, paths, driveways, and streets; and approximately 7,983 square feet would be landscaping. Compliance with the City's Municipal Code Chapter 15.56 (Flood Damage Prevention) would result in flood water being diverted around the project building (51,234 square feet) resulting in the redirection of flood waters. Furthermore, constructing a subterranean structure at the project site could displace groundwater. In the event of flood event, however, the area excavated and comprised of the subterranean parking garage could provide more area for water to flow into. Whereas under existing conditions flood water would have to seep between rocks, soils, etc. that underlay the site, under proposed conditions those elements would be removed, resulting in additional area that could be filled with water (i.e., rocks, soils, etc. would not be located in the same volume area as the garage). Furthermore, as described under the response to criterion b), the proposed project would increase the amount of pervious area at the project site, which would allow for a greater amount of water to percolate into the ground than under existing conditions. In addition, the majority of the first floor of the building would be utilized for parking; a single wall / barrier would not surround entirety of the building's footprint. In the event of a flood, this would allow some water to pass through the structure. While some flow may be redirected on site, around the building, it would not be as substantial as if the building featured occupancy space on the

entire bottom floor.[20] Elevating the main levels of occupancy to levels three through six would also have the added benefit of preparing the project for sea level rise and having most of the building's usable space above potential sea level rise predictions.

The potential for the project to impede or redirect flood flows would be less than significant because of the small size of the project building area, the fact that water could flow into and pass through the parking garage, (meaning that all flood water would not have to be directed around the building. This impact would be less than significant.

d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?

Less Than Significant Impact. As stated in response to criterion c(iv), the project site is located with FEMA flood zone AE, which is a SFHA subject to inundation by the 100-year flood with a base flood elevation of approximately 10 feet (FEMA, 2019). The elevation at the site is approximately nine feet, so flooding could occur in the event of a 100-year storm.

A tsunami is a large tidal wave generated by an earthquake, landslide, or volcanic eruption. Tsunami inundation maps have been developed for the San Francisco Bay area. The project site is not within a tsunami inundation zone; therefore, it would not be subject to flooding from a tsunami (California Department of Conservation, 2021).

Seiches are waves that oscillate in enclosed water bodies, such as reservoirs, lakes, ponds, swimming pools, or semi-enclosed bodies of water, such as San Francisco Bay. The project site is 0.5 miles west of the San Francisco Bay; however, as it is not within the tsunami inundation zone for the Bay, the site is not expected to be inundated by a seiche (California Department of Conservation, 2021).

Although the project site is at risk of inundation from flooding, the project would reduce the risk of flooding on the site by compliance with the City's Municipal Code Chapter 15.56 (Flood Damage Prevention). Section 15.56.080 requires a development permit to be obtained before construction begins in a SFHA. City building permits serve as the vehicles for permitting development in the floodplain. Municipal Code Section 15.56.120 sets forth construction requirements for development that would minimize flood hazard risks. Compliance with Chapter 15.56 of the Municipal Code would identify measures to help prepare the site in the event of a flood and would help reduce the potential for pollutants at the project site from being released. Furthermore, as discussed previously, floors three through six would comprise the majority of occupiable building space, and would be the floor on which lab activities occur. It is anticipated that various chemicals would be stored above grade. Therefore, the elevated nature of these chemicals would reduce the potential for them to be released into the environment in the event of a flood.

In addition, to comply with C.3 provisions of the MRP, post construction BMPs are required to protect water quality at the site. The project Applicant would also be required to prepare a project Stormwater Operations and Maintenance Plan. The risk of pollutant release due to project inundation is expected to be low based on project characteristics and requirements set forth in the City's Municipal Code. This impact would be less than significant.

e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?

No Impact. The project would comply with all applicable regulations to protect water quality (see response to criterion a) and would not impact ground water (see response to criterion b).

[20] In this case, all flood water would have to be directed around the building.

Therefore, the project would not obstruct implementation of a water quality control plan or groundwater management plan. No impact would occur.

3.10.4 References

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3.11 LAND USE AND PLANNING

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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?	☐	☐	☒	☐

3.11.1 Environmental Setting

The project site is currently occupied by a self-storage facility and associated parking lot area. The project site has a zoning designation of Landmark, Commercial (LC) and a General Plan designation of Commercial/Industrial (GCI). Single-family residences are located west of the project site, across Industrial Road. The San Carlos Airport is located east of the project site, across Highway 101. A parcel currently developed with a light industrial use, but that is being proposed for redevelopment as a hotel (the Hotel Indigo), is located south of the project site across Holly Street. In the immediate vicinity of the project site, Highway 101 borders the site to the east and south, a Sutter Health medical facility and its associated parking garage are located north of the project site, and an In-N-Out is located west of the project site.

405 Industrial Road is a key location identified as a LC and Gateway site in the Zoning Code and General Plan, respectively, and is included in several City plans, including the Economic Development Plan and the East Side Innovation District Vision Plan. The consistent theme is that this site is a “gateway” to and a "landmark" for the City.

3.11.2 Regulatory Setting

City of San Carlos General Plan

The San Carlos 2030 General Plan designates the project site as General Commercial/Industrial (GCI), a land use designation intended primarily for production and manufacturing uses. Uses in this land use designation generally include retail, service, office, R&D, and industrial uses.

The Land Use Element of the General Plan identifies the project site as a Primary Gateway into the City and Land Use Element policies LU-11.1 through 11.12 apply to the design of the proposed project. The General Plan contains other policies that are applicable to the proposed project. These policies are presented in the environmental resource sections that they are applicable to. For example, policies related to aesthetics are presented in Section 3.1.2 and policies related to geology and soils are presented in Section 3.7.2.

City of San Carlos Zoning Code

The City’s Zoning Code is contained as Title 18 of the Municipal Code. The project site has a zoning designation of LC (Landmark, Commercial) (see Chapter 18.06). This zoning designation is intended to accommodate key parcels known collectively as landmark sites, which are targeted for economic development of regional retail and destination-oriented uses, including large-scale office complexes and hotels as individual or combined uses that are intended to serve regional users and have significant beneficial results in employment growth and contribute to the economic sustainability of the City and implementation of the City’s Economic

Development Plan. The LC zoning designation has a maximum building height of 50 feet, a maximum floor area ratio (FAR) of 2.0, and requires a 10-foot setback on front and side lot lines (see Municipal Code Table 18.06.030). Additional details regarding aesthetics of the LC and Planned Development (PD) designations, as well as information on the City's design review process, can be found in Section 3.1.2.

San Carlos Municipal Code Section 18.20.040, Required Parking Spaces, requires vehicular parking spaces as follows:

- One vehicular parking space for every 300 square feet of office space.
- One vehicular parking space for every 800 square feet of laboratory space.

Municipal Code Section 18.20.080, Bicycle Parking, requires short-term and long-term bicycle parking as follows:

- Long-Term Bicycle Parking: one per 20 total required standard vehicle spaces.
- Short-Term Bicycle Parking: 10 percent of total required standard vehicle spaces.

Municipal Code Section 18.20.100, Parking Area Design and Development Standards requires 10 percent of the required parking spaces for offices to be reserved for carpools or vanpools. These spaces shall be located closest to the main entrance (exclusive of spaces designated for handicapped).

San Carlos Airport Land Use Compatibility Plan

The project is located in the San Carlos Airport Land Use Compatibility Plan (ALUCP) area. According to the ALUCP, the project site is not within a primary flight path, but is within Zone 6, the traffic pattern zone. Under the ALUCP, the project site has an allowable height of 155 feet.

Climate Mitigation and Adaptation Plan

On September 27, 2021, San Carlos adopted the Climate Mitigation and Adaptation Plan (CMAP). The CMAP details the City's strategy for reducing city-wide GHG emissions through 2030 and 2050 and identifies 12 climate adaptation and resiliency strategies for preparing the city for the adverse effects anticipated under a changing climate. The following reflects adaptation strategies that may be applicable to the proposed project:

- **Strategy 36: Open Space Preservation.** Preserve existing open space by supporting urban infill.
- **Strategy 37: Heat Island Effect.** Minimize the urban heat island effect.

Section 3.8 of this Initial Study addresses the strategies that would be applicable to the project from a GHG emissions standpoint.

East Side Innovation District Vision Plan

The East Side Innovation District Vision Plan (2021) addresses future changes in development patterns and influx of jobs coming from market-driven biotech and life science industries. The Vision Plan sets forth clear goals and principles written to achieve the desired character for San Carlos's East Side Innovation District. The following East Side Innovation District Vision Plan principles concerning land use may be relevant to the proposed project.

GOAL Establish two distinct subareas within the District enabling a diverse mix of businesses, development types, and uses (including residential) to thrive.

A. Prioritize a mix of uses in the Catalyst Subarea, including new life sciences, technology, and other commercial office uses with active uses and other community amenities at the ground floor.

i. Maintain development heights at 50 feet maximum (as per existing zoning regulations); potential for additional height, up to a maximum of 120 feet, may be considered through approval of a Planned Development (PD) Plan per San Carlos zoning requirements.

ii. Locate taller development along Industrial Road, Commercial Street, and Brittan Avenue.

iii. In response to the Council's strategic objective for the District, adopt a tiered system where new development contributes certain resources and amenities based on the scale of development. Potential resources include: community open space, non-vehicular connections, active ground floor uses, and community facilities.

iv. Study the potential for introducing, within the plan area only, mixed-use residential development and other high density housing that is contextual to the neighborhood along arterial and collector streets within a half-mile from the San Carlos Caltrain Station.

3.11.3 Discussion

Would the project:

a) Physically divide an established community?

No Impact. The development of the proposed project would occur on a site that is currently developed with a self-storage facility. The project would not alter existing roadway patterns and would not introduce any new major roadways or other physical features that would create new barriers in existing residential neighborhoods or other communities. As such, the project would not physically divide an established community. No impact would occur.

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?

Less than Significant Impact. The proposed project would not conflict with any land use plan, policy, or regulation adopted for the purposes of avoiding or mitigating an environmental effect.

San Carlos 2030 General Plan

The General Plan Guidelines published by the State Office of Planning and Research defines consistency as follows; "An action, program, or project is consistent with the General Plan if, considering all its aspects, it would further the objectives and policies of the General Plan and not obstruct their attainment." Therefore, the standard for analysis used in this Initial Study is based on general agreement with the policy language and furtherance of the policy intent. The City General Plan has included numerous policies for the purposes of avoiding or mitigating an environmental effect. These policies are applicable to various environmental resource sections contained in this Initial Study. For example, General Plan policies related to aesthetics (e.g., site and building design) and designating the site as a Gateway are described in the aesthetics discussion (see Section 3.1), while policies related to geotechnical considerations are described in the geology and soils discussion (see Section 3.7). Similarly, policies related to noise, as well as the project's consistency with those policies, can be found in Section 3.13. As described throughout this Initial Study, the proposed project would not conflict with applicable General Plan policies that were adopted for the purposes of avoiding or mitigating an environmental effect.

Zoning Ordinance

Height and Setbacks

The proposed project would involve the construction of a six-story life science (R&D) building in the LC zoning district. The LC district has a maximum building height of 50 feet and a maximum floor area ratio (FAR) of 2.0. The district requires a 10-foot setback on front, a 10-foot setback on the street side, and zero-foot setback on the rear and interior side. Offices and R&D uses are permitted in the LC district with approval of a minor use permit by the Zoning Administrator. The proposed project meets the 10-foot front yard setback along Industrial Road, the 10-foot street side setback along Holly Street, and the 0-foot minimum interior side and rear yard setback. The proposed building would have a FAR of 2.77, which exceeds the City's designated FAR standard of 2.0.[21] The project building would be constructed to a height of 83 feet, 10 inches, which exceeds the maximum building height of 50 feet for the LC District.. The project Applicant is proposing to rezone the site to Planned Unit Development (PD) to allow for the proposed building height and FAR which exceeds the height and FAR limitations based on its current zoning.

The project site is a gateway and landmark, as indicated by the site's current General Plan and zoning designations. The project would incorporate an artistic building element (i.e., fritted glass along the southern/eastern façade), which would function as designating the building a landmark / gateway location. Though the project Applicant intends to rezone the site to PD, the project would incorporate design elements consistent with the site's existing zoning district and land use designation. Further, the project would be subject to the City's design review process outline in Municipal Code Chapter 18.29 (see Section 3.1 for more information).

Parking

San Carlos Municipal Code Section 18.20.040, Required Parking Spaces, requires one vehicular parking space for every 300 square feet of office space (or 274 spaces, based on a proposed office building area of 82,109 square feet) and one vehicular parking space for every 800 square feet of laboratory space (or 154 spaces, based on a proposed laboratory building area of 123,163 square feet). Under these requirements, in total, the project is required to provide 428 vehicular parking spaces.

The proposed project includes 458 vehicular parking spaces. Of the 458 parking spaces provided, 165 spaces are required for the laboratory use and 293 spaces are required for the office use. Of the 458 parking spaces provided, nine spaces would be accessible stalls, 82 spaces would be for Clean Air Vehicles (CAV)/carpool, and 43 spaces would be electric vehicle (EV) parking, all of which exceed the requirements contained within Municipal Code Section 18.20.100.C, Parking Area Design and Development Standards. The amount of parking provided by the project is 30 spaces more than what is required for the building space at the project site under San Carlos Municipal Code Section 18.20.040. The proposed project would be consistent with San Carlos Municipal Code Section 18.20.040, Required Parking Spaces, as the project would provide more than the required on-site parking spaces.

In addition, per Municipal Code Section 18.20.080, Bicycle Parking, the proposed project includes 44 short-term and 44 long-term, secured bicycle parking spaces. All bicycle parking spaces would be located inside the parking garage. This impact would be less than significant.

[21] This calculated FAR includes parking space. Excluding parking space, the FAR planning floor area is approximately 205,273 square feet, which when divided by the area of the site (i.e., approximately 2.41 acres; 105,050 square feet) results in the designated FAR of 1.95.

San Carlos Climate Mitigation and Adaptation Plan

As described in Section 3.8, the proposed project would be consistent with applicable strategies in the CMAP that have been adopted for the purposes of reducing GHG emissions. The proposed project would also be consistent with Strategies 36 and 37, as described below.

- **Strategy 36: Open Space Preservation.** The proposed project consists of infill development. The new life science building would be constructed on a site that is currently occupied by a self-storage facility. It would not increase urban sprawl or reduce open space. The project would provide more pervious surfaces than is currently within the site.
- **Strategy 37: Heat Island Effect.** The proposed project would result in a greater amount of greenspace at and in proximity of the project site. The project would result in more tree cover and would include building elements that would reflect sunlight,[22] reducing the amount of area that could absorb the sun's energy and then reemit it in the form of heat (i.e., the process that contributes to the heat island effect). The project provides more pervious surfaces than currently found on the site.

The proposed project would be consistent with the City's CMAP and would not conflict with a strategy that was adopted for the purposes of avoiding or mitigating an environmental impact.

San Carlos Airport Land Use Compatibility Plan

According to the ALUCP, the project site is within Safety Zone 6, the traffic pattern zone. Office and R&D uses are identified as compatible uses in this zone. Therefore, the project would be consistent with the permitted land uses in the ALUCP. The height limit for the project site per San Mateo County and FAA regulations is approximately 155 feet above mean sea level (MSL). The topography at the project site is nearly flat, with an elevation of approximately 9 feet above. Therefore, the roof of the 83-foot, 10-inch building would, at most, be approximately 93 feet MSL. As such, the proposed project would be consistent with the ALUCP. This impact would be less than significant.

Conclusion

The proposed project would request rezoning to a PD permit, which would allow it's FAR and height to exceed the limitations set forth for the LC zoning designation, and would be consistent with the City's General Plan, Municipal Code parking requirements, CMAP, and San Carlos ACLUP. This impact would be less than significant.

3.11.4 References

City/County Association of Governments of San Mateo County (C/CAG). 2015. *Comprehensive Airport Land Use Compatibility Plan for the Environs of San Carlos Airport.* Adopted October 2015. Available at: https://ccag.ca.gov/wp-content/uploads/2015/06/Draft-Final-ALUCP-San-Carlos-Airport-062515.pdf.

City of San Carlos. 2009. San Carlos General Plan: Envision 2030. Adopted October 12, 2009.

_____. 2021a. San Carlos Municipal Code Title 18: Zoning. Revised March 2021.

_____. 2021b. City of San Carlos Climate Mitigation and Adaptation Plan. Adopted September 27, 2021

[22] Although sunlight would be reflected, it would not be significant for the reasons discussed in Section 3.1.3.

3.12 MINERAL RESOURCES

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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?	☐	☐	☐	☒

3.12.1 Environmental Setting

The project site is located in the City of San Carlos at an existing, surface parking lot surrounded by light industrial, warehousing, and retail land uses. There are no mines or known mineral resources in the City of San Carlos (San Carlos, 2009).

3.12.2 Discussion

Would the proposed 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?

No Impact (Responses a – b). No locally important mineral resources are designated in the City of San Carlos (San Carlos, 2009). The project site has no potential for use in resource recovery and therefore, would have no impact on the availability of mineral resources.

3.12.3 References

City of San Carlos (San Carlos) 2009. 2030 General Plan. Adopted October 12, 2009.

3.13 NOISE

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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 in other applicable standards of other agencies?	☐	☐	☒	☐
b) Generation of excessive groundborne vibration or groundborne noise levels?	☐	☐	☒	☐
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?	☐	☐	☒	☐

3.13.1 Environmental Setting

Noise may be defined as loud, unpleasant, or unwanted sound. The frequency (pitch), amplitude (intensity or loudness), and duration of noise all contribute to the effect on a listener, or receptor, and whether the receptor perceives the noise as objectionable, disturbing, or annoying.

The Decibel Scale (dB)

The decibel scale (dB) is a unit of measurement that indicates the relative amplitude of a sound. Sound levels in dB are calculated on a logarithmic basis. An increase of 10 dB represents a tenfold increase in acoustic energy, while 20 dBs is 100 times more intense, 30 dBs is 1,000 more intense, and so on. In general, there is a relationship between the subjective noisiness, or loudness of a sound, and its amplitude, or intensity, with each 10 dB increase in sound level perceived as approximately a doubling of loudness.

Sound Characterization

There are several methods of characterizing sound. The most common method is the “A-weighted sound level,” or dBA. This scale gives greater weight to the frequencies of sound to which the human ear is typically most sensitive. Thus, most environmental measurements are reported in dBA, meaning decibels on the A-scale.

Human hearing matches the logarithmic A-weighted scale, so that a sound of 60 dBA is perceived as twice as loud as a sound of 50 dBA. In a quiet environment, an increase of 3 dB is usually perceptible, however, in a complex noise environment such as along a busy street, a noise increase of less than 3 dB is usually not perceptible, and an increase of 5 dB is usually perceptible. Normal human speech is in the range from 50 to 65 dBA. Generally, as environmental noise exceeds 50 dBA, it becomes intrusive and above 65 dBA noise becomes excessive. Nighttime activities, including sleep, are more sensitive to noise and are considered affected over a range of 40 to 55 dBA. Table 3-10 lists typical outdoor and indoor noise levels in terms of dBA.

Table 3-10: Typical Outdoor and Indoor Noise Levels

Common Outdoor Activities	Noise Level (dBA)	Common Indoor Activities
	-110-	Rock Band
Jet flyover at 1,000 feet		
	-100-	
Gas lawn mower at 3 feet		
	-90-	
Diesel truck at 50 feet at 50 mph		Food blender at 3 feet
	-80-	Garbage disposal at 3 feet
Noise urban area, daytime		
Gas lawnmower, 100 feet	-70-	Vacuum cleaner at 10 feet
Commercial area		Normal speech at 3 feet
Heavy traffic at 300 feet	-60-	
		Large business office
Quiet urban daytime	-50	Dishwasher next room
Quite urban nighttime	-40-	Theater, large conference room (background)
Quiet suburban nighttime		
	-30-	Library
Quite rural nighttime		Bedroom at night
	-20-	
		Broadcast/recording studio
	-10-	
Lowest threshold of human hearing	-0-	Lowest threshold of human hearing

Source: Caltrans 2013

Sound levels are typically not steady and can vary over a short time period. The equivalent noise level (Leq) is used to represent the average character of the sound over a period of time. The Leq represents the level of steady noise that would have the same acoustical energy as the sum of the time-varying noise measured over a given time period. Leq is useful for evaluating shorter time periods over the course of a day. The most common Leq averaging period is hourly, but Leq can describe any series of noise events over a given time period.

Variable noise levels are values that are exceeded for a portion of the measured time period. Thus, L01 is the level exceeded one percent of the time and L90 is the level exceeded 90 percent of the time. The L90 value usually corresponds to the background sound level at the measurement location.

Noise exposure over the course of an entire day is described by the day/night average sound level, or Ldn, and the community noise equivalent level, or CNEL. Both descriptors represent the 24-hour noise impact on a community. For Ldn, the 24-hour day is divided into a 15-hour daytime period (7 AM to 10 PM) and a nine-hour nighttime period (10 PM to 7 AM) and a 10 dB

"penalty" is added to measure nighttime noise levels when calculating the 24-hour average noise level. For example, a 45 dBA nighttime sound level would contribute as much to the overall day-night average as a 55 dBA daytime sound level. The CNEL descriptor is similar to Ldn, except that it includes an additional 5 dBA penalty beyond the 10 dBA for sound events that occur during the evening time period (7 PM to 10 PM). The artificial penalties imposed during Ldn and CNEL calculations are intended to account for a receptor's increased sensitivity to sound levels during quieter nighttime periods.

Sound Propagation

The energy contained in a sound pressure wave dissipates and is absorbed by the surrounding environment as the sound wave spreads out and travels away from the noise generating source. Theoretically, the sound level of a point source attenuates, or decreases, by 6 dB with each doubling of distance from a point source. Sound levels are also affected by certain environmental factors, such as ground cover (asphalt vs. grass or trees), atmospheric absorption, and attenuation by barriers. Outdoor noise is also attenuated by the building envelope so that sound levels inside a residence are from 10 to 20 dB less than outside, depending mainly on whether windows are open for ventilation or not.

When more than one point source contributes to the sound pressure level at a receiver point, the overall sound level is determined by combining the contributions of each source. Decibels, however, are logarithmic units and cannot be directly added or subtracted together. Under the dB scale, a doubling of sound energy corresponds to a 3 dB increase in noise levels. For example, if one noise source produces a sound power level of 70 dB, two of the same sources would not produce 140 dB – rather, they would combine to produce 73 dB.

Under controlled conditions in an acoustical laboratory, the trained, healthy human ear can discern 1-dB changes in sound levels when exposed to steady, single-frequency ("pure-tone") signals in the mid-frequency (1,000–8,000 Hz) range. In typical noisy environments, changes in noise of 1 to 2 dB are generally not perceptible. However, it is widely accepted that people can begin to detect sound level increases of 3 dB in typical noisy environments. Further, a 5-dB increase is generally perceived as a distinctly noticeable increase, and a 10-dB increase is generally perceived as a doubling of loudness.

Noise Effects

Noise effects on human beings are generally categorized as:

- Subjective effects of annoyance, nuisance, and/or dissatisfaction
- Interference with activities such as speech, sleep, learning, or relaxing
- Physiological effects such as startling and hearing loss

Most environmental noise levels produce subjective or interference effects; physiological effects are usually limited to high noise environments such as industrial manufacturing facilities or airports.

Predicting the subjective and interference effects of noise is difficult due to the wide variation in individual thresholds of annoyance and past experiences with noise; however, an accepted method to determine a person's subjective reaction to a new noise source is to compare it to the existing environment without the noise source, or the "ambient" noise environment. In general, the more a new noise source exceeds the ambient noise level, the more likely it is to be considered annoying and to disturb normal activities.

Under controlled conditions in an acoustical laboratory, the trained, healthy human ear is able to discern 1-dB changes in sound levels when exposed to steady, single-frequency ("pure-tone") signals in the mid-frequency (1,000–8,000 Hz) range. In typical noisy environments, changes in

noise of 1 to 2 dB are generally not perceptible. However, it is widely accepted that people are able to begin to detect sound level increases of 3 dB in typical noisy environments. Further, a 5 dB increase is generally perceived as a distinctly noticeable increase, and a 10 dB increase is generally perceived as a doubling of loudness that would almost certainly cause an adverse response from community noise receptors.

Existing Noise Environment

The primary sources of noise in San Carlos include vehicles, commercial uses, and activities associated with neighborhoods and schools. The primary source of noise at the project site is from traffic on surrounding roadways – primarily from Highway 101, Holly Street, and Industrial Road – and from adjacent properties, which produce noise from activities in parking lots, movement of various materials, and stationary sources (e.g., heating, ventilation, and air conditioning (HVAC) equipment). The project is also located in the San Carlos Airport Land Use Compatibility Plan (ALUCP) area (C/CAG, 2015) and may receive periodic noise from flights associated with the airport. According to the ALUCP, the project site is not within a primary flight path, but is within Zone 6, the traffic pattern zone. Office and R&D uses are identified as compatible uses in this zone. There are no private airstrips near the project site; no private airstrips or heliports are in the cities of San Carlos, Redwood City, or Belmont.

Existing ambient sound levels at the project site were monitored from approximately 11 AM on Thursday, October 7, 2021, to approximately 11 AM on Friday, October 8, 2021. Ambient sound levels were measured with a Larson Davis Model LxT, Type I, sound level meter. Measurements were collected on 1-minute intervals. Weather conditions on between October 7th and October 8th varied between clear and mostly-cloudy conditions, with high and low temperatures of 62 and 53 degrees, respectively.

One long-term (LT) measurement (i.e., 24-hours) was collected at the project site. The sound level meter was placed on top of the building in the northeastern portion of the project site, and the microphone was set to a level of 5 feet above the building surface. This location and height were selected to identify sound level measurements at a height that is representative of where future employees could reside in the building (i.e., on the third story of the proposed building).

The results of the ambient noise monitoring are summarized in Table 3-11. It is noted that measured ambient noise levels are a composite of noise from all sources, near and far. In this context, the ambient noise level constitutes the normal or existing level of environmental noise at a given location. Please refer to Appendix C.1 for detailed ambient noise monitoring results and data sheets.

Table 3-11: Existing Ambient Noise Levels (dBA) at the Project Site

Monitoring Site	Duration	L_{min}	L_{max}	Hourly L_{eq} Range			Ldn(B)
				Daytime (7 AM - 7 PM)	Evening(A) (7 PM - 10 PM)	Nighttime (10 PM - 7 AM)	
LT-1	24 Hours	38.1	80.1	58.6 – 63.2	58.6 – 60.7	52.2 – 61.4	64.7

Source: MIG 2022 (see Appendix C.1)

(A) Although the City of San Carlos's land use compatibility metrics are based on the Ldn 24-hour weighting descriptor, an evening noise range has been provided, since some activities at the project site could occur during this time frame.

As shown in Table 3-11 there was relatively little variation in daytime sound levels at the project site; there was less than an approximately 5 dBA difference in hourly Leq values from 7 AM to 7 PM. The difference in evening hourly Leq values was even lower, at approximately 2 dBA. The measurements collected during the nighttime period (10 PM to 7 AM) showed the greatest

variability. In general, sound levels tended to be quietest during the early morning hours (i.e., 1 AM and 2 AM) before gradually increasing with the morning commute (starting as early as 4 AM). Overall, the measurement collected at the project site showed that 24-hour sound levels were approximately 64.7 Ldn.

Sensitive Receptors

Noise sensitive receptors are areas where unwanted sound or increases in sound may have an adverse effect on people or land uses. Residential areas, hospitals, schools, and parks are examples of noise receptors that could be sensitive to changes in existing environmental noise levels. Noise sensitive receptors within 1,000 feet of the project site include:

- Residential dwelling units, the closest of which are approximately 255 feet west of the project site boundary on Springfield Drive.
- A Sutter Health urgent care and outpatient medical facility, approximately 700 feet both of the project site.

There are no schools within 1,000 feet of the project site.

3.13.2 Regulatory Setting

California Green Building Standards Code

The California Green Building Standards Code is Part 11 to the California Building Standards Code. Chapter 5, Nonresidential Mandatory Standards, Section 5.507 establishes the following requirements for nonresidential development that may be applicable to the proposed project.

- Section 5.507.4.1.1 sets forth that buildings exposed to a noise level of 65 dBA L_{eq} (1-hour) during any hour of operation shall have exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composting sound transmission class (STC) rating of at least 45 (or an outdoor indoor transmission class [OITC] of 35), with exterior windows of a minimum STC of 40.
- Section 5.507.4.2 sets forth that wall and roof assemblies for buildings exposed to a 65 dBA L_{eq} pursuant to Section 5.507.4.1.1 shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed 50 dBA L_{eq} in occupied areas during any hour of operation. This requirement shall be documented by an acoustical analysis documenting interior sound levels prepared by personnel approved by the architect or engineer of record.

City of San Carlos Municipal Code

The City of San Carlos Municipal Code Chapter 9.30 discusses noise control regulations. Chapter 9.30.070 Section B specifies that construction activities are exempt from noted regulations when limited to Monday through Friday between 8:00 AM and 6:00 PM, and Saturday and Sunday between 9:00 AM and 5:00 PM. No construction noise-related activities are permitted on holidays listed in the Municipal Code. All gasoline-powered construction equipment is required to be equipped with an operating muffler or baffling system as originally provided by the manufacturer, and no modification to the systems is permitted (the Building Official shall have the authority to grant exceptions in specific cases).

City of San Carlos General Plan

The City of San Carlos General Plan provides guidance for the control of noise to protect residents, workers, and visitors from potentially adverse noise impacts. Its primary goal is to regulate long-term noise impacts to preserve acceptable noise environments for all types of land uses. Figure 9-1 in the City's General Plan Noise Element provides land use and noise compatibility standards for various land uses in the City. For commercial land uses, noise levels up to 70 dBA Ldn are considered "Normally Acceptable".

The General Plan Noise Element also includes the following policies that may be applicable to the proposed project:

- **Policy NOI-1.1:** Use the Noise and Land Use Compatibility Standards shown in Figure 9-1, in the noise level performance standards in Table 9-1 and the projected future noise contours for the General Plan shown in Figure 9-3 and detailed in Table 9-2, as a guide for future planning and development decisions.
- **Policy NOI-1.2:** Minimize noise impacts on noise-sensitive land uses. Noise-sensitive land uses include residential uses, retirement homes, hotel/motels, schools, libraries, community centers, places of public assembly, daycare facilities, churches, and hospitals.
- **Policy NOI-1.3:** Limit noise impacts on noise-sensitive land uses to noise level standards as indicated in Table 9-1.
- **Policy NOI-1.8:** During all phases of construction activity, reasonable noise reduction measures shall be utilized to minimize the exposure of neighboring properties to excessive noise levels.
    a. Construction activities shall comply with the City's noise ordinance.
- **Policy NOI-1.12:** Ensure consistency with the noise compatibility policies and criteria contained in the San Carlos Airport Land Use Plan.
- **Action NOI-1.4:** Require the evaluation of mitigation measures for projects that would cause the following criteria to be exceeded or would cause a significant adverse community response:
    a. Cause the Ldn at noise-sensitive uses to increase by 3 dB or more and exceed the "normally acceptable" level.
    b. Cause the Ldn at noise-sensitive uses to increase 5 dB or more and remain "normally acceptable."
    c. Cause noise levels to exceed the limits in Table 9-1.

Table 9-1 of the City's General Plan is presented below in Table 3-11. Only land uses relevant to the proposed project are shown.

Table 3-12: San Carlos General Plan Non-Transportation Noise Standards

Land Use Receiving the Noise	Hourly Noise-Level Descriptor	Exterior Noise-Level Standard in Any Hour (dBA)		Interior Noise-Level Standard in Any Hour (dBA)	
		Daytime (7AM – 10PM)	Nighttime (7AM – 10PM)	Daytime (7AM – 10PM)	Nighttime (7AM – 10PM)
Residential	Leq	55	45	40	30
	Lmax	70	60	55	45
Medical, convalescent	Leq	55	45	45	35
	Lmax	70	60	55	45

Sources: City of San Carlos 2009, Table 9-1

Notes:

1. The Residential standards shall apply to all residentially zoned properties.
2. Each of the noise levels specified above shall be lowed by 5 dBA for tonal noises characterized by a whine, screech, or hum, noise consisting primarily of speech or music, or reoccurring impulsive noises.
3. In situations where the existing noise level exceeds the noise levels indicated in the above table, any new noise source must include mitigation that reduces the noise level of the noise source to the existing level.
4. The exterior noise standards are measured at any point on the receiving property where there is, or could be in the future, frequent human use and quiet would be beneficial
5. These standards do not apply to temporary sources such as construction activities.

3.13.3 Discussion

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 in other applicable local, state, or federal standards?

Less than Significant Impact. Construction and operation of the proposed project would not result in a temporary or permanent increase in ambient noise levels in the vicinity of the project site that are in excess of standards established in the City's General Plan or Noise Ordinance, nor would it conflict with other applicable local, state, or federal standards.

Short-term, Temporary Construction Noise Levels

As described in Section 2.3.7, construction of the proposed project is anticipated to take approximately 19.5 months. During this time, heavy-duty off-road equipment (e.g., bulldozers, backhoes, loaders, etc.) would be required during demolition, grading and excavation, and development of the proposed life science building. These activities could temporarily increase noise levels at adjacent properties. Typical noise levels that could be generated by equipment at the site are presented below in Table 3-13.

Table 3-13: Typical Construction Equipment Noise Levels

Equipment	Noise Level at 50 feet (Lmax)(A)	Percent Usage Factor(B)	Predicted Equipment Noise Levels (Leq)(C)					
			50 Feet	100 Feet	150 Feet	200 Feet	250 Feet	300 Feet
Backhoe	80	40	76	70	66	64	62	60
Bulldozer	85	40	81	75	71	69	67	65
Crane	85	16	77	71	67	65	63	61
Excavator	85	40	81	75	71	69	67	65
Pneumatic tools	85	50	82	76	72	70	68	66
Delivery Truck	85	40	81	75	71	69	67	65
Vibratory Roller	80	20	73	67	63	61	59	57

Sources: Caltrans, 2013; FHWA, 2010

(A) L_{max} noise levels based on manufacturer's specifications.

(B) Usage factor refers to the amount (percent) of time the equipment produces noise over the time period

(C) Estimate does not account for any atmospheric or ground attenuation factors. Calculated noise levels based on Caltrans, 2009: L_{eq} (hourly) = L_{max} at 50 feet – 20log (D/50) + 10log (UF), where: L_{max} = reference L_{max} from manufacturer or other source; D = distance of interest; UF = usage fraction or fraction of time period of interest equipment is in use.

As shown in Table 3-13, the worst case Leq and Lmax construction equipment noise levels associated with the project are predicted to be approximately 82 and 85 dBA, respectively, at 50 feet. When two or more pieces of equipment are operating in close proximity, construction noise levels could be approximately 85 dBA Leq and 88 dBA Lmax at a distance of 50 feet. These are considered to be worst-case noise levels, as the actual magnitude of the project's temporary and periodic increase in ambient noise levels would depend on the nature of the construction activity (e.g., demolishing the existing, private parking lot, grading the site, etc.) and the distance between the construction activity and receptor areas.

At a distance of 225 feet, construction noise from a bulldozer (i.e., one of the loudest pieces of equipment that would operate at the site) would be approximately 68 dBA Leq. If two bulldozers were operating concurrently at the project boundary, noise levels could approach 71 dBA Leq.

In general, noise levels associated with construction are anticipated to be much lower than 71 dBA Leq at nearby residential locations, because:

1. The 71 dBA noise level estimate reflects two pieces of equipment operating at the property boundary. In actuality, equipment would primarily operate further into the site (i.e., to the east) away from residential receptor locations. A greater amount of distance between the equipment and the receptor would result in lower noise levels due to atmospheric attenuation. For example, two bulldozers operating at a distance of 375 feet (i.e., the distance from the residential receptors to the approximate center of the project site) would generate noise levels of approximately 67 dBA Leq.
2. As project construction ensues, some pieces of equipment (e.g., loader and excavator) may operate below grade, as the area for the structure is excavated. When equipment is below grade, the earthen walls of the excavated area and/or soil stockpile could serve as barriers between the source of noise and receptor locations.
3. The existing In-N-Out building would also serve as a barrier and inhibit the transmission of noise from the project site to receptor locations to the west when equipment is operating in the northern portion of the project site.

Construction noise would be intermittent, occurring only when equipment is in operation. Consistent with Municipal Code Section 9.30.070-B, construction activities at the site would only occur between the hours of 8:00 a.m. and 6:00 p.m. Monday through Friday, and between 9:00 a.m. and 5:00 p.m. on Saturdays. Construction activities would not occur on holidays and Sundays. The timeframes in which construction noise is exempt avoid noise-sensitive nighttime hours. The noise generated from project construction would be temporary (construction would last approximately 19.5 months) and would not produce the same sound levels every day. Construction activities would occur within the permissible timeframes identified in the City's Municipal Code and, therefore, would not conflict with any applicable standards. The proposed project would be consistent with General Plan Policy NOI-1.8.

Land Use Compatibility

Figure 9-1 in the City's General Plan Noise Element provides land use and noise compatibility standards for various land uses in the City. For commercial land uses, noise levels up to 70 dBA Ldn are considered "Normally Acceptable". As shown in Table 3-11, sound levels at the project site are approximately 65 Ldn, which is below the "Normally Acceptable" land use compatibility standard of 70 dBA Ldn. The project, therefore, would be located in a noise environment that is appropriate for its designated use, and is consistent with General Plan Policy NOI-1.1.

The proposed project's land use and location is also consistent with the San Carlos Airport Land Use Plan. Therefore, the project would be consistent with General Plan Policy NOI-1.12.

Long-term Operational Noise Levels

Once operational, the proposed project would generate noise from vehicular activity (e.g., cars driving to and from the site) and stationary sources (e.g., heating, ventilation, and air conditioning (HVAC) equipment). The noise generating activities at the site under proposed conditions would be similar to the existing environment and would be consistent with applicable City standards. Although it is anticipated that additional noise would be generated at the site under operation of the proposed project, it would not adversely increase the noise environment for a number of reasons.

First, the types of operational noise sources under buildout of the project (e.g., motor vehicle operation, car doors shutting, etc.) would be similar to those that have historically operated at the site, as well as those generated by land uses surrounding the project site (e.g., the In-N-Out immediately west of the project site).

Second, the HVAC units, as well as the chiller and boiler, would be located on the center of the building's roof, which is off-site to the east due to the step-back provided on the western side of the building. The elevated height of the HVAC unit, boiler, and chiller would not only shield them from being visible to ground-level receptors, but also to the ears of the receptors, as well. These building system components would also be located behind an approximately 13-foot-tall parapet wall made of metal panel system, which would further inhibit the transmission of noise in a horizontal direction (i.e., toward receptor locations to the west and north). These noise levels would not exceed the daytime or nighttime standards shown in Table 3-12 for residential or medical/convalescent land uses.

Third, the proposed building would be sufficiently far enough from residences such that the noise from vehicular operations associated with parking activities at the site would not impact those receptors, even under peak hour parking activities or during the evening / nighttime hours when the site may be used by guests of the Hotel Indigo. Using a methodology provided in the Federal Transit Administration's (FTA) Transit Noise and Vibration Impact Assessment manual, it is estimated that 220 vehicle trips to the site in a given hour (i.e., the equivalent number of trips that would occur during the AM peak hour) would generate an hourly average sound level of 49.8 dBA Leq at a distance of 50 feet. This sound would attenuate to less than 36 dBA at a distance of 255 feet and would be indistinguishable from other environmental noise sources (e.g., vehicles on Industrial Road, Holly Street, in the In-N-Out parking lot, etc.). Even if vehicle activities in a given hour were to be slightly higher, these findings that noise levels from parking activities at the site would be imperceptible at residential receptor locations would hold true. Please see Appendix C.2 for a discussion of the methodology used to estimate this sound level.

Finally, Caltrans considers a doubling of total traffic volume to result in a three dBA increase in traffic-related noise levels (Caltrans, 2013). If the proposed project would not result in a doubling of traffic volumes on the local roadway system, it would not result in a substantial permanent increase in traffic-related noise levels. Although the proposed project would increase traffic volumes along Industrial Road and Holly Street, it would not be at a rate that doubles the current volume. The project, therefore, would not result in a substantial, permanent increase in noise levels in proximity of the proposed project. The proposed project would therefore be consistent with General Plan Policy NOI-1.3 and General Plan Action NOI-1.4.

Policy NOI-1.2 contained in the City's General Plan Noise Element requires projects to minimize noise impacts on noise-sensitive land uses, including residential uses. As discussed previously, there are a number of factors that would help minimize noise impacts to residential receptors to the west during construction, including shielding provided by the existing In-N-Out, equipment operating below grade during excavation activities, and compliance with the City's permissible construction hours as identified in in the Municipal Code. Because of this, and the fact that the proposed project would not result in substantial, permanent increase in noise levels in proximity of the project site, the proposed project would not conflict with any applicable noise standards. This impact would be less than significant.

b) Generation of excessive groundborne vibration or groundborne noise levels?

Less Than Significant Impact. Vibration is the movement of particles within a medium or object such as the ground or a building. As is the case with airborne sound, groundborne vibrations may be described by amplitude and frequency. Vibration amplitudes are usually expressed in peak particle velocity (PPV) or root mean squared, in inches per second (in/sec). PPV represents the maximum instantaneous positive or negative peak of a vibration signal and is most appropriate for evaluating the potential for building damage. Human response to groundborne vibration is subjective and varies from person to person. Caltrans' Transportation and *Construction Vibration Guidance Manual* provides a summary of vibration criteria that have been reported by researchers, organizations, and governmental agencies (Caltrans, 2018). Chapters six and seven of this manual summarize vibration detection and annoyance criteria

from various agencies and provide criteria for evaluating potential vibration impacts on buildings and humans from transportation and construction projects. These thresholds are summarized in Table 3-14 and Table 3-15.

Table 3-14: Caltrans' Vibration Criteria for Building Damage

Structural Integrity	Maximum PPV (in/sec)	
	Transient	Continuous
Extremely fragile buildings, ruins, monuments	0.12	0.08
Fragile buildings	0.2	0.1
Historic and some older buildings	0.50	0.25
Older residential structures	0.50	0.30
New residential structures	1.00	0.50
Modern industrial and commercial structures	2.00	0.50
Source: Caltrans, 2018		

Table 3-15: Caltrans' Vibration Criteria for Human Response

Human Response	Maximum PPV (in/sec)	
	Transient	Continuous
Barely perceptible	0.035	0.012
Distinctly perceptible	0.24	0.035
Strongly perceptible	0.90	0.10
Severely perceptible	2.00	0.40
Source: Caltrans, 2018		

Development of the proposed project would not require rock blasting, or pile driving, but could require use a vibratory roller, large bulldozer, and loaded trucks. Construction activities that use vibratory rollers and bulldozers would be mobile and not operating at the same location for a prolonged period of time; therefore, the *transient* criteria is used. The nearest commercial land use adjacent to the project site is to the west (i.e., the In-N-Out building). To evaluate potential impacts, the *Modern Industrial and Commercial Structures* criteria is used. As shown in Table 3-16, the operation of a vibratory roller could generate groundborne vibration of approximately 0.098 in/sec PPV at a distance of 50 feet. Based on the criteria summarized in Table 3-14, this would not cause damage to any structures.

Table 3-16: Groundborne Vibration Estimates

Equipment	Reference PPV at 25 feet (inches/second)	Reference Lv at 25 feet (dBV)	Estimated PPV at 50 feet (inches/second)	Estimated Lv at 50 feet (dBV)
Vibratory roller	0.21	94.0	0.098	85.0
Large bulldozer	0.089	87.0	0.042	78.0
Small bulldozer	0.003	58.0	0.014	49.0
Loaded truck	0.076	86.0	0.035	77.0
Jackhammer	0.035	79.0	0.016	70.0

Source: Caltrans, 2018, FTA, 2006.

Notes: Estimated PPV calculated as: PPV(D)= PPVref*(25/D)^1.1 where PPV(D)= Estimated PPV @ Distance, PPVref=Reference PPV @ 25 feet, D=Distance from equipment to receiver, and 1.1=ground attenuation rate

Estimated Lv calculated as: Lv(D)=Lv(25 feet)-30log(D/25) where Lv(D)=velocity level in decibels, and v=RMS velocity amplitude @ 25 feet

Although some construction activities may generate groundborne vibration that is slightly perceptible (i.e., between barely perceptible and distinctly perceptible thresholds for transient sources shown in Table 3-15), this impact would be less than significant for a number of reasons. First, equipment that have the potential to generate groundborne vibration would be mobile, meaning that they would not operate at the same location and expose a potential receptor to vibration for a prolonged amount of time. Second, equipment is unlikely to operate near the property boundary on a frequent basis. Instead, the equipment would likely be used on the interior of the site where the majority of development would occur. Third, the receptors at the commercial property would be transient, meaning that they would not be subject to vibration on a frequent basis or continuously while they are at the site. Finally, equipment operation that could generate groundborne vibration would be short-term, since most activities that would have the potential to generate perceptible groundborne vibration would occur during demolition, site preparation, and grading, which are only anticipated to last approximately a few of months. As such, the proposed project would not generate excessive groundborne vibration or groundborne noise levels. This impact would be 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?

Less than Significant Impact. The project site is approximately 1,040 feet from the runway of the San Carlos Airport. As a result, arriving and departing aircraft contribute to the ambient noise in the vicinity of the proposed project. The majority of air traffic is due to general aviation aircraft, with the airport also housing a small number of helicopters. According to the General Plan, the project site is outside of the 55 CNEL contour. While single-event noise from over-flights could momentarily elevate noise levels at the project site, the 55 dBA CNEL noise levels attributed to airport noise are notably lower than the sound levels observed during the ambient noise monitoring conducted at the site (i.e., 64.7 Ldn; see Table 3-11). The proposed project would not expose people working at the project site to excessing noise levels. This impact would be less than significant.

3.13.4 References

California Department of Transportation (Caltrans) 2013. *Technical Noise Supplement to the Traffic Noise Analysis Protocol.* Sacramento, California. September 2013.

_____2018. *Transportation and Construction Vibration Guidance Manual*. Sacramento, California. April 2018.

City/County Association of Governments of San Mateo County (C/CAG) 2015. *Comprehensive Airport Land Use Compatibility Plan for the Environs of San Carlos Airport,* Exhibits 4-3, *San Carlos Airport Safety Zones*, on page 4-16 and 4-4, *San Carlos Airport Part 77 Airspace Protection Surfaces* on page 4-31, and Table 2-4, *Safety Compatibility Criteria on* p. 4-25. Adopted October 2015.

City of San Carlos (San Carlos) 2009. 2030 General Plan Noise Element. Adopted October 12, 2009.

U.S. Federal Transit Administration (FTA) 2006. *Transit Noise and Vibration Assessment*. FTA-VA-90-1003-06. Washington, DC. May 2006.

3.14 POPULATION AND HOUSING

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a) Induce a 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)?	☐	☐	☒	☐
b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?	☐	☐	☐	☒

3.14.1 Environmental Setting

The project site is currently developed with a self-storage facility and associated parking spaces.

According to the US Census Bureau, the City of San Carlos has a population of approximately 30,722, including 11,223 households (U.S. Census Bureau, 2020). The City's population is projected to reach 35,245 by the year 2040 (MTC/ABAG, 2017). The proposed project is intended to provide office and research space for life sciences within the City of San Carlos.

3.14.2 Regulatory Setting

Plan Bay Area 2050

Plan bay Area 2050, adopted in 2021, is the Metropolitan Transportation Commission's (MTC) and Association of Bay Area Government's (ABAG) regional, long-range planning document for the San Francisco Bay Area. *Plan Bay Area 2050* outlines strategies for growth and investment through the year 2050, while simultaneously striving to meet and exceed federal and state requirements. *Plan Bay Area 2050* does not fund projects or change local policies, rather, it includes actions for future investment in infrastructure, housing, public transportation systems, and resilient environments, and lays out public policies necessary to realize a future growth pattern for housing and jobs. *Plan Bay Area 2040*, adopted in 2017, was the previous iteration of Plan Bay Area, and included employment and household projections through 2040.

3.14.3 Discussion

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)?

Less than Significant Impact. The project does not include any residential development that would directly increase population growth. The proposed project would involve the development and operation of a new life science building whose future tenants could provide jobs for approximately 685 employees. As discussed in Section 3.11.3, the proposed project's development intensity would be inconsistent with its existing zoning designation (2.0 FAR); however, the project would request Planned Development Permit to exclude the proposed

above grade parking from the FAR. Excluding the above grade parking from the FAR calculations would result in a FAR of 1.95, which would be consistent with the site's current zoning standards. As such, the proposed project would not construct more occupiable building space or result in additional employment growth beyond that planned for at the site.

The proposed project is anticipated to employ approximately 685 employees. While the existing land use at the site supports some employment, the majority of employees at the site would be new under the proposed project. According to estimates provided in *Plan Bay Area 2040*, the City of San Carlos is estimated to generate approximately 2,800 new jobs between 2010 and 2040; the proposed project, therefore represents approximately 24 percent of that total (but would likely be less because of jobs already provided at the site by its existing land use) (MTC/ABAG, 2017). As described in the paragraph above, the proposed project would result in a FAR of 1.95 after excluding at- and above-grade parking from the FAR calculation, meaning that the project site would not exceed the development capacity originally planned for at the site.

It is unlikely future population growth in the City alone would be able to meet the expected job growth generated by the project; however, the project also would not induce population growth beyond that which has already been planned for. The project is expected to draw employees from within the City, was well as the surrounding cities and the greater San Francisco Bay Area region. For context, *Plan Bay Area 2050* estimates that the San Francisco Bay Area region as a whole will add 1.4 million new jobs from 2015 to 2050 (MTC/ABAG, 2021). In comparison to regional job growth estimates, the project would amount to a small percentage in new job growth. Further, given many of the recent development projects in San Carlos have consisted of redeveloping sites that already provide employment (i.e., the redevelopment of other project sites incrementally increases employment on those sites in a nominal way). The new employment associated with the proposed project would be within the forecasted employment growth in San Carlos. The proposed project's potential impact on growth from new employment would be less than significant.

The proposed project also does not include the construction of infrastructure or roads which could indirectly induce additional population growth. This impact would be less than significant.

b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?

No Impact. The project site does not contain any residential units and would not displace housing or people. Therefore, the project would not displace any people or necessitate the construction of replacement housing elsewhere. No impact would occur.

3.14.4 References

Metropolitan Transportation Commission / Association of Bay Area Governments (MTC/ABAG). 2017. *Plan Bay Area 2040 Land Use Modeling Report.* July 2017. Accessed January 25, 2022 at http://2040.planbayarea.org/files/2020-02/Land_Use_Modeling_PBA2040_Supplemental%20Report_7-2017.pdf.

_____. 2021. *Plan Bay Area 2050 Forecasting and Modeling Report.* October 2021. Accessed January 25, 2022 at https://www.planbayarea.org/sites/default/files/documents/Plan_Bay_Area_2050_Forecasting_Modeling_Report_October_2021.pdf.

U.S. Census Bureau. 2021. QuickFacts, San Carlos city, California; United States. Accessed January 10, 2022 at https://www.census.gov/quickfacts/fact/table/sancarloscitycalifornia,US/PST045221.

3.15 PUBLIC SERVICES

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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:				
i) Fire protection?	☐	☐	☒	☐
ii) Police protection?	☐	☐	☒	☐
iii) Schools?	☐	☐	☒	☐
iv) Parks?	☐	☐	☒	☐
v) Other public facilities?	☐	☐	☒	☐

3.15.1 Environmental Setting

Public service providers in San Carlos that would serve the proposed project include the following:

- Redwood City-San Carlos Fire Departments (RC-SCFD), a joint powers and governmental agency, provides fire and emergency response services to the cities of San Carlos and Redwood City.
- The San Carlos Police Bureau, a division of the San Mateo County Sheriff's Office, provides police protection services in the City.
- The project site is within the boundaries of the San Carlos School District and the Sequoia Union High School District. The schools closest to the project site are Central Middle School, located approximately 0.8 miles south of the project site, and Arroyo School, located approximately 0.8 miles south of the project site.
- The San Mateo County library district governs and administers 12 community libraries. The closest library to the project site is the San Carlos Library located at 610 Elm Street approximately 0.7 miles south of the project site.
- The City of San Carlos Department of Parks and Recreation owns and manages 16 parks. The closest park to the project site is Laureola Park located approximately 0.2 miles southwest of the project site (Google Earth Pro 2022).

3.15.2 Discussion

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:

i) Fire protection?

ii) Police?

iii) Schools?

iv) Parks?

v) Other public facilities?

Less than Significant Impact (Responses i) through v)). The proposed project would have a significant environmental impact if it would exceed the ability of fire and emergency medical responders and law enforcement to adequately serve the project site, thereby requiring construction of new facilities or modification of existing facilities, the construction of which could cause significant environmental impacts.

At capacity, the proposed project could result in approximately 685 new employees in the City. Accordingly, the proposed project would generate additional jobs in San Carlos beyond what currently exists at the site. Although the relationship is not directly proportional, more intense uses of land typically result in the increased potential for fire and emergency incidents. Therefore, the proposed project could create an increased demand for fire and police protection services.

Fire service delivery in San Mateo County is borderless and therefore other fire departments service other cities as needed. San Carlos Fire Station 13, which is owned by the City of San Carlos and operated by the Redwood City Fire Department under a contractual agreement between the City of Redwood City and the City of San Carlos, is the closest fire station to the project site, located approximately 0.4 miles to the southwest. While the proposed project could potentially increase the number and frequency of calls for service by the RC-SCFD from the addition of transient population on the project site (i.e., because the project site would be located less than 0.5 miles from Fire Station 13) response times for many calls from the project site would be expected to fall within the RC-SCFD's response time goals.

Although the proposed project would increase the number of persons and level of activity on the project site, it is reasonable to expect that the proposed project would not result in a meaningful increase in the amount of crime in the project vicinity. As such, the effect that the proposed project would have on police response times is considered to be minimal.

In addition, increases in demand for services would be offset through payment of development fees and annual taxes, a portion of which go toward ongoing provision of and improvements to public services. Therefore, considering the project's proximity to Fire Station 13 and the surrounding commercial land uses, constructing new or expanded public facilities would not be necessary to maintain acceptable service ratios, response times, or other performance objectives for fire and police protection services. Proposed project impacts related to fire and police protection services would be less than significant.

The proposed project involves commercial development; it does not propose residential dwelling units, nor would it result in population growth beyond that already planned for (see Section 3.14). Therefore, the proposed project would not impact schools, libraries, or other public facilities. This impact would be less than significant.

3.15.3 References

Google Earth Pro. 2022. Accessed on January 31, 2022.

3.16 RECREATION

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a) 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) Include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?	☐	☐	☒	☐

3.16.1 Environmental Setting

The City of San Carlos Department of Parks and Recreation is responsible for the maintenance of the City's 16 parks within the city limit (San Carlos 2009). The City of San Carlos has adopted a parkland dedication standard of 2.5 acres of parkland for every 1,000 residents. There are a total of approximately 62.5 acres of existing traditional developed parkland in San Carlos, or approximately 2.09 acres per 1,000 residents, based on an existing population of 29,860 people in 2018. Laureola Park, Michael Park, Frank D. Harrington Park, Rosek Park, and Hillcrest Circle Park are located within a mile of the Project site.

Regional park facilities operated by the Midpeninsula Open Space District (MROSD) and San Mateo County Parks could be used by residents of the project site. The closest MROSD parks to San Carlos are Pulgas Ridge Open Space, Purisima Creek Redwoods, and Teague Hill. San Mateo County Parks manages five regional parks. The largest is the 467-acre Edgewood Preserve, located approximately three miles south of San Carlos. The California Department of Fish and Wildlife runs Bair Island, a 1,985-acre Ecological Preserve within the Don Edwards National Wildlife Refuge, located adjacent to the San Carlos in the wetlands of San Francisco Bay. Open space within San Carlos includes Bic Canyon Park, Eaton Park, and land designated as open space in the General Plan.

3.16.2 Discussion

Would the project:

a) Increase the use of existing neighborhood or regional parks or other recreational facilities such that significant physical deterioration of the facility would occur or be accelerated?

b) 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 (Responses a) and b)). There are no parks or recreational facilities within the immediate vicinity of the project site; the closest recreational facility is Laureola Park, approximately 1,000 feet south of the project site. Because there are no parks or recreational facilities in the immediate vicinity of the project site, employees of the proposed project would not likely visit or use any of the recreational facilities.

The proposed project involves commercial development; it does not propose residential dwelling units, nor would it result in population growth beyond that already planned for (see Section 3.14). The project, therefore, would not induce population growth that would necessitate the construction of new parkland or recreational facilities. Furthermore, the project may include the construction of a pedestrian bridge that would connect the project site to the Industrial Road / Holly Street intersection, which would provide access to the "green boulevard" envisioned for Industrial Road. The proposed project would not increase the use of existing neighborhood or regional parks such that significant physical deterioration would occur, nor would it require the construction or expansion of recreational facilities that could have an adverse physical effect on the environment. This impact would be less than significant.

3.16.3 References

City of San Carlos, 2009. San Carlos 2030 General Plan. October 2009. Accessed August 13, 2020 at https://www.cityofsancarlos.org/government/departments/community-development/planning/plans-document-library/general-plan

3.17 TRANSPORTATION

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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(b), which pertains to vehicle miles travelled?	☐	☒	☐	☐
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?	☐	☐	☐	☒

3.17.1 Environmental Setting

On July 1, 2020, an assessment of vehicle miles traveled (VMT) associated with land use projects became the metric by which transportation impacts are assessed under CEQA. Prior to July 1, 2020, Level of Service (LOS) standards, or the amount of delay automobiles would cause, were commonly used by Lead Agencies to assess transportation impacts.

VMT is the total miles of travel by personal motorized vehicles a project is expected to generate in a day. VMT measures the full distance of personal motorized vehicle-trips with one end within the project. Hexagon Transportation Consultants prepared a trip generation estimate for the proposed project as well as a VMT analysis. Table 3-17 summarizes the trips generated by the existing self-storage facility and trip generation estimates for the proposed project. The VMT analysis prepared for the project is contained as Appendix D.2.

Table 3-17: Project Trip Generation

Trip Type	Daily Trips	AM Peak-Hour Trips			PM Peak Hour Trips		
		In	Out	Total	In	Out	Total
Proposed Trips							
Gross	2,420	234	41	275	45	225	270
TDM Reduction(A)	-484	-47	-8	-55	-9	-45	-54
Subtotal Project Trips	1,936	187	33	220	36	180	216
Existing Trips(B)	80	3	2	5	4	4	8
Net New Vehicle Trips	1,856	184	31	215	32	176	208

Source: Hexagon 2022a

(A) The project would be required to meet a 20 percent trip reduction based on the ITE trip generation rates, per the San Carlos Municipal Code (Section 18.25.030).

(B) The trip generation rates for the existing land use (i.e., storage facility) are based on the trip generation rates provided for Mini-Warehouse land use (Land Use Code 151), as provided for the ITE *Trip Generation Manual, 11th Edition* (2021). The Mini-Warehouse rates are typically used for projects that are mostly self-storage units with some auxiliary uses such as the RV parking and small offices.

3.17.1 Regulatory Setting

Chapter 18.25 "Transportation Demand Management" of the Municipal Code outlines the TDM objectives for the City. It states that, "All projects subject to the requirements of this chapter shall incorporate measures to meet vehicle trip generation rates that are twenty percent lower than the standard rates as established in the most recent edition of the Institute of Transportation Engineers (ITE) trip generation manual. (Ord. 1438 § 4 (Exh. A(part)), 2011))."

3.17.2 Discussion

Would the project:

a) Conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities?

No Impact. The proposed project would not conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities. As described under response b) the proposed project would be consistent with the City's VMT policy. The additional traffic that would be generated by the proposed project is anticipated to be consistent with City's General Plan LOS standards, since all intersections in proximity of the project site are anticipated to operate at an acceptable level of service during the AM and PM peak hours. In addition, both vehicular parking and bicycle parking provided by the project would be consistent with the City's policies. The project would provide approximately 458 vehicular parking spaces, which meets the City's parking standards for the proposed land use at the site (Municipal Code Section 18.20.040-A(3)). The proposed project would also provide approximately 44 short-term and 44 long-term, secured bicycle parking spaces, which would exceed City requirements (Municipal Code Section 18.20.080) by 22 spaces. The project would provide approximately 46 bicycle parking spots, which exceeds City requirements (Municipal Code Section 18.20.080) by seven (7) spaces. Furthermore, the project may include a pedestrian bridge to the Industrial Road / Holly Street intersection, which would improve the walkability of the project site and the surrounding area by providing continuity with non-vehicular transportation infrastructure. The proposed project would not conflict with a program, plan, ordinance, or policy addressing the City's circulation system. No impact would occur.

b) Conflict or be inconsistent with CEQA Guidelines section 15064.3(b), which pertains to vehicle miles travelled?

Less Than Significant Impact with Mitigation Incorporated. The San Carlos VMT policy specifies that office use projects shall be considered less-than- significant if the project generates 15-percent (15%) below the daily VMT per job in the City. The San Carlos VMT policy sets the daily existing VMT and the 2040 General Plan buildout VMT at 27.6 daily miles per job and 26.7 daily miles per job, respectively. Thus, the VMT thresholds for an office use to be considered less-than significant are 23.5 and 22.7 VMT per job for existing conditions and 2040 conditions, respectively.

Daily VMT for the proposed project zone were determined based on the Metropolitan Transportation Commission (MTC) travel demand forecast model for the Plan Bay Area 2040. The average daily VMT for the project based on the MTC travel demand forecast model for existing (2020 pre-COVID) conditions and 2040 conditions are 26.6 and 26.3, respectively, daily VMT per worker. After compliance with the 20% trip reduction required under Municipal Code Section 18.25, however, the project existing and 2040 VMT conditions would be 21.3 and 21.0, respectively, VMT per worker. These values are presented in tabular form below, in Table 3-18.

Table 3-18: Project VMT Summary

Scenario	VMT / Employee (Daily)	
	Existing	2040
Proposed Project Baseline	26.6	26.3
Proposed Project with TDM (i.e., 20% Reduction)	21.3	21.0
San Carlos VMT Threshold	23.5	22.7
Exceeds Threshold	No	No
Source: Hexagon, 2022b		

As shown in Table 3-18, with a 20-percent reduction from implementation of the required TDM Plan, the estimated VMT per employee for the project would be 21.3 and 21.0 under existing and Year 2040 conditions, both of which are below their respective VMT thresholds of 23.5 and 22.7. The TDM Plan is presented as Appendix D.1. As detailed in Mitigation Measure TRANS-1, additional measures for annual reporting and enforcement are required to ensure target reductions are achieved. With successful implementation of a TDM Plan resulting in a 20-percent reduction in trips, the VMT generated by the proposed project would be reduced to a less-than-significant level. This impact would be less than significant with mitigation incorporated.

Impact TRANS-1: Vehicle trips and vehicle miles traveled (VMT) generated by operation of the project could be inconsistent with City Municipal Code Chapter 18.25 and the City's VMT policy if not properly tracked and enforced.

Mitigation Measure TRANS-1: Additional TDM Plan Requirements. A Transportation Demand Management (TDM) Plan shall be prepared and implemented that includes, at a minimum, the following elements:

1. The project Applicant will designate an on-site Transportation Coordinator that will be responsible for implementation of the TDM Plan, including providing relevant TDM trip reduction and program information to all employees on site, and arranging for independent annual monitoring and employee surveys.
2. The project Applicant and the project's Transportation Coordinator will be responsible for ensuring that the TDM Plan is implemented each year and an annual monitoring report is submitted to the City of San Carlos.
3. The TDM Plan monitoring will be prepared by an independent consultant per City of San Carlos Municipal Code Section 18.25.080. Regular monitoring will be necessary to ensure that the implemented TDM measures are effective and achieve the 20-percent trip reduction requirement.
4. Consistent with common traffic engineering data collection practices, traffic conditions will be monitored annually by means of a.m. and p.m. commute hour driveway counts at each project access point. The counts will include daily and peak hour traffic counts conducted between 7:00 a.m. and 9:00 a.m. and between 4:00 p.m. and 6:00 p.m. on three non-consecutive days per year on typical weekdays (Tuesday, Wednesday, or Thursday) during the fall when school is in session. Mechanical tube counts or video counts may be used. The peak 60-minute period will be calculated for both the a.m. and p.m. peak period.
5. An annual employee survey will be conducted by an independent consultant to determine employee transportation mode choice (e.g., drive alone, carpool, bus, Caltrain, etc.). This annual commuter survey should be formatted as a general survey including non-transportation questions (e.g., satisfaction with property management, activities, etc.) to increase the response rate.

6. The site Transportation Coordinator will work with an independent consultant to obtain traffic count data, implement the annual employee commuter surveys and document all findings in a TDM monitoring report. The annual monitoring report will be submitted to the City of San Carlos by the Transportation Coordinator. The TDM Plan monitoring data will be reviewed by the City to assess whether the goal of a 20-percent trip reduction is being met. This will be assessed by comparing the driveway counts to the trip targets of this TDM plan report.
7. If the City of San Carlos determines that the 20-percent trip reduction goal is not being achieved, additional TDM measures may be implemented. Modifications to the TDM Plan may include additional programs or substitute activities for achieving vehicle trip reductions. The annual TDM monitoring report will describe any planned modifications to the TDM program such that the 20-percent trip reduction is maintained or achieved by the following monitoring cycle.
8. If the 20-perent trip reduction goal is not met based on a five-year review of TDM monitoring reports, the City may require more stringent TDM measures be implemented along with a six-month monitoring schedule. If the 20-percent trip reduction goal is not achieved by year six, then the City may initiate a review of the building occupancy permit, condition use permit, or enact other measures (including fines) aimed at achieving a minimum of 20-percent trip reduction.

Effectiveness: This measure would effectively track and implement the City's TDM requirements for projects, and reduce potential VMT impacts to less than significant.

Implementation: The Applicant and/or its Transportation Coordinator shall be responsible for the implementation of the TDM Plan. An independent consultant shall conduct the monitoring for the TDM Plan.

Timing: During project operation.

Monitoring: As specified in City of San Carlos Municipal Code Section 18.25.080.

c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?

Less Than Significant Impact. The proposed project would not increase hazards due to a geometric design feature or incompatible uses. The project driveway that currently ties into Industrial Road would be maintained under implementation of the proposed project. It provides adequate sight distance looking toward both northbound and southbound traffic. The proposed project would generate primarily light duty vehicle trips. These passenger vehicle trips, as well as vendor trips for deliveries, would not be incompatible with driveway's design. The proposed project would not increase hazards due to a geometric design feature, nor would involve incompatible uses that would substantially increase hazards. This impact would be less than significant.

d) Result in inadequate emergency access?

No Impact. The proposed project would have a continuous vehicle path around the building. This vehicle path would be 26 feet wide along the northern side of the building, providing access for fire arial apparatuses (e.g., fire ladders) and 20 feet along the eastern, southern, and western sides of the building. This continuous vehicle path would be sufficient to allow emergency vehicle access throughout the project site. No impact would occur.

3.17.3 References

City of San Carlos 2022. San Carlos Municipal Code Title 18: Zoning. Revised 1/22.

Hexagon Transportation Consultants (Hexagon) 2022a. “405 Industrial Road (San Carlos) Trip Generation 2022.01.21.pdf” Transmitted from Rueben Rodriguez, Hexagon Transportation Consultants, to Phil Gleason, MIG, on January 21, 2022. Email. “RE: 405 Industrial Road CEQA – data request”.

_____. 2022b. *VMT Analysis for the Proposed 405 Industrial Road Project in San Carlos, CA*. January 18, 2022

3.18 TRIBAL CULTURAL RESOURCES

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a) Cause a substantial adverse change in the significance of a tribal cultural resources, 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:				
i) 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)?	☐	☒	☐	☐
ii) 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.	☐	☒	☐	☐

3.18.1 Environmental Setting

Assembly Bill (AB) 52 requires the CEQA lead agency consult with a California Native American Tribe that is traditionally and culturally affiliated with the geographic area of the proposed project if the Tribe requests, in writing, to be informed by the lead agency through formal notification of the proposed projects in the area. The consultation is required before the determination of whether a negative declaration, mitigated negative declaration, or EIR is required. In addition, AB 52 includes time limits for certain responses regarding consultation. AB 52 also adds “tribal cultural resources” (TCRs) to the specific cultural resources protected under CEQA. CEQA Section 21084.3 has been added, which states that “public agencies shall, when feasible, avoid damaging effects to any tribal cultural resources.” Information shared by tribes as a result of AB 52 consultation shall be documented in a confidential file, as necessary, and made part of a lead agencies administrative record. In response to AB 52, City of San Carlos has not received any request from any Tribes in the geographic area with which it is traditionally and culturally affiliated with or otherwise to be notified about projects in the City of San Carlos.

A TCR is defined under AB 52 as a site, feature, place, cultural landscape that is geographically defined in terms of size and scope, sacred place, and object with cultural value to a California Native American tribe that are either included or eligible for inclusion in the California Register of Historic Resources or included a local register of historical resources, or if the City of San Carlos, acting as the lead agency, supported by substantial evidence, chooses at its discretion to treat the resource as a TCR.

3.18.2 Discussion

Would the project:

a) Cause a substantial adverse change in the significance of a tribal cultural resources, 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:

i. 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)?

ii. 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?

Less Than Significant Impact with Mitigation Incorporated (Responses i and ii). As discussed under criteria (b) and (c) in Section 3.5, Cultural Resources, there no known archeological resources, ethnographic sites or Native American remains are located on the project site. As discussed under criteria (b) and (c) in Section 3.5, ground-disturbing activities associated with development under the proposed project could have the potential to uncover and damage or destroy unknown resources, including tribal cultural resources, in sub-surface soils. The City would implement Mitigation Measures CUL-1 through CUL-3 to reduce these potential impacts. Implementation of these Mitigation Measures further reinforces compliance with State and federal regulations, as well as introducing protections for Native American objects that have potential to be considered tribal cultural resources but are not otherwise considered significant under CEQA. This impact would be less than significant with mitigation incorporated.

3.18.3 References

California State Parks, 2022. Office of Historic Preservation. http://ohp.parks.ca.gov/ Accessed January 27, 2022.

NAHC. 2022. Unpublished letter containing search results from Sacred Lands File search. Kept on file at NAHC and with MIG. Inc.

National Park Service, 2022. National Register of Historic Places. https://www.nps.gov/nR/index.htm Accessed January 27, 2022.

NWIC. 2020. Report number 21-0581. Unpublished confidential report containing search results from site specific survey. Kept on file at NWIC and with MIG. Inc.

3.19 UTILITIES AND SERVICE SYSTEMS

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or stormwater drainage, electric power, natural gas, or telecommunication 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 wastewater 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?	☐	☐	☒	☐

3.19.1 Environmental Setting

Water

Water service is provided to the project site by the Mid-Peninsula Water District (MPWD).

Wastewater

The San Carlos Public Works Department provides wastewater collection and treatment service for San Carlos. Sanitary wastewater generated on the project site would be treated by the Silicon Valley Clean Water (SVCW), formerly the South Bayside System Authority, at the Redwood City Wastewater Treatment Facility (RCWTF) in Redwood City. SVCW has completed its 2020 Capital Improvement Program (CIP) Update, which includes projects related to the RCWTF and the SVCW conveyance system, which includes remote pump stations, transmission sewer pipelines (e.g., influent force main, Belmont force main, tunnel and gravity sewer), and effluent outfall. Future treatment for nutrients is also included in the (SVCW, 2020). The SVCW Plant has capacity to treat 29.5 million gallons per day (mgd), but currently receives approximately 20 mgd from residential and commercial customers in the SVCW service area.

Stormwater Drainage

The City of San Carlos provides stormwater drainage service to the project site. The City maintains approximately 27 miles of stormwater drainage channels and 680 stormwater

drainage inlets. Developers and property owners are responsible for extending the existing stormwater drainage system onto a property and tying into the City's stormwater infrastructure when new development occurs.

Solid Waste

Solid waste and recyclables are collected within the city by a provider contracted through the South Bayside Waste Management Authority (SBWMA). San Carlos' solid waste and recyclables are initially taken to the Shoreway Recycling and Disposal Center (SRDC) and then to Ox Mountain Landfill in Half Moon Bay.

Gas and Electricity

Electricity and natural gas would be provided to the project site by Peninsula Clean Energy (PCE) and Pacific Gas and Electric (PG&E), respectively. PCE is San Mateo County's Community Choice Aggregate (CCA), a community-controlled, not-for-profit joint powers agency. PCE procures sources of electricity throughout San Mateo County, while PG&E manages and maintains the electrical infrastructure used to supply consumers with electricity.

3.19.2 Regulatory Setting

Assembly Bill 939

The California Integrated Waste Management Act of 1989, or AB 939, established the Integrated Waste Management Board, required the implementation of integrated waste management plans, and mandated that local jurisdictions divert from the landfill at least 50 percent of solid waste generated beginning January 1, 2000, and divert at least 75 percent by 2010. Projects that would have an adverse effect on waste diversion goals are required to include waste diversion mitigation measures.

Assembly Bill 341

AB 341 (2011) sets forth the requirements of the statewide mandatory commercial recycling program for businesses that generate four or more cubic yards of commercial solid waste per week and multi-family dwellings with five or more units in California. AB 341 sets a statewide goal for 75 percent disposal reduction by the year 2020.

Assembly Bill 1826

AB 1826 (2014) sets forth the requirements of the statewide mandatory commercial organics recycling program for businesses and multi-family dwellings with five or more units that generate two or more cubic yards of commercial solid waste per week. AB 1826 sets a statewide goal for 50 percent reduction in organic waste disposal by the year 2020.

Senate Bill 1383

SB 1383 (2016) establishes targets to achieve a 50 percent reduction in the level of the statewide disposal of organic waste from the 2014 level by 2020 and a 75 percent reduction by 2025. The bill grants CalRecycle the regulatory authority required to achieve the organic waste disposal reduction targets and establishes an additional target that at least 20 percent of currently disposed edible food is recovered for human consumption by 2025. On January 1, 2022, CalRecycle's regulations to meet the organic waste reduction targets for 2025 took effect and became enforceable.

California Green Building Standards Code Compliance for Construction, Waste Reduction, Disposal and Recycling

In January 2010, the State of California adopted the California Green Building Standards Code ("CALGreen"), establishing mandatory green building standards for all buildings in California.

The code covers five categories: planning and design, energy efficiency, water efficiency and conservation, material conservation and resources efficiency, and indoor environmental quality. These standards include the following mandatory set of measures, as well as more rigorous voluntary guidelines, for new construction projects to achieve specific green building performance levels:

- Reducing indoor water use by 20 percent;
- Reducing wastewater by 20 percent;
- Recycling and/or salvaging 65 percent of nonhazardous construction and demolition ("C&D") debris, or meeting the local construction and demolition waste management ordinance, whichever is more stringent (see San Carlos-specific CALGreen building code requirements below); and
- Providing readily accessible areas for recycling by occupants.

San Carlos Climate Mitigation and Adaptation Plan

The San Carlos CMAP includes a goal to transform San Carlos into a zero-waste community. The CMAP includes waste reduction strategies geared toward City operations and public events, waste haulers, and construction contractors, and actions that encourage community material reuse and repairs programs, compostable food service ware, increased composting, improved recycling, and sustainable food consumption. CMAP strategies aimed at reducing construction and demolition waste include:

- Incentivize the recycling of construction debris by working with regional partners.
- Research and consider providing financial incentives to encourage the recycling of construction debris.
- Determine how certain construction materials may be donated and reused to help those in need by working with local community based organizations and construction companies.

San Carlos Recycling and Diversion of Construction and Demolition Debris Ordinance

Chapter 8.05 of the San Carlos Municipal Code requires projects that qualify for coverage under CALGreen that generate waste comprised of mixed debris, including both structural debris (e.g., wood, metal, wallboard) and inert materials (dirt, asphalt, brick, and/or cinderblock), to divert at least 60 percent of all generated tonnage. All project applicants are required to submit a properly completed "waste management plan" (WMP) to the City Department of Planning and Building's WMP Compliance Official, as a portion of the building or demolition permit process. The completed WMP must indicate, at minimum, all of the following:

- The estimated volume or weight of project construction and demolition debris, by materials type, to be generated;
- The maximum volume or weight of such materials that can feasibly be diverted via reuse or recycling;
- The vendor or facility that the applicant proposes to use to collect or receive that material; and
- The estimated volume or weight of construction and demolition debris that will be land filled.

Project contractors are required to keep records in tonnage or in other measurements approved by the WMP Compliance Official. Project applicants must also pay and administrative fee and submit a deposit for each estimated ton of construction and/or demolition debris that equals no less than one thousand dollars (the deposit). The deposit is returned to the project applicant upon proof to the satisfaction of the WMP Compliance Official that no less than the required percentages of the waste tonnage of construction and demolition debris generated by the

project have been diverted from landfills and have been recycled or reused or stored for later reuse or recycling.

3.19.3 Discussion

Would the project:

a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or stormwater drainage, electric power, natural gas, or telecommunication facilities, the construction or relocation of which could cause significant environmental effects?

Less than Significant Impact. The project site is in a developed area served by existing utilities, and no new or expanded off-site facilities would be required to serve the project. The proposed project would require new connections to existing facilities and construct new on-site storm water treatment and retention facilities, as described below. Installation of these new connections and construction of on-site improvements could result in short-term environmental effects during construction. However, there would be no impacts over the long-term and best management practices (BMPs) and mitigation measures, as described in other sections of this IS checklist, would avoid significant impacts during construction. The proposed on-site stormwater treatment and retention facilities would have long-term beneficial effects to the environment by reducing the amount of water runoff and pollutants exiting the site.

Water Supply

The project requires new potable water connections for research and development purposes, domestic use, and fire water service. Implementation of the proposed project would require the following installations / improvements to the water connections at and in proximity of the site as described below:

- Extend 12” water main on the west side of Industrial Road for the approximate length of the project’s driveway.
- Install one 6” and one 2” water lines from the water main on Industrial Road into the project site. The 6” water line would be used for potable water service to the building, the 2” water line would be used for irrigation purposes.
- Install three new fire hydrants
    - One on the northern side of the driveway, where the driveway ties into Industrial Road
    - One on the southern side of the building, near the stairwell / elevator
    - One on the eastern side of the building, near the bike room

The MPWD determined a Water Supply Assessment was not required for the proposed project (MPWD 2020).

Sanitary Sewer Service

Implementation of the proposed project would require installation of a new sanitary sewer manhole in the northbound lane of Industrial Road, adjacent to the project’s driveway. The new sanitary sewer manhole would connect to an existing sewer main, and no other new or expanded wastewater facilities would be required for the project onsite. A memorandum prepared by Mott MacDonald in June 2022 evaluated sewer capacity in the East Side Innovation District, and how the existing sewer system would perform with additional sanitary flow from proposed and approved project in the East Side area (Mott MacDonald, 2022). The sewer capacity modeling found that while some hydraulic bottlenecking of sewer flows could occur under the conditions evaluated for the proposed project (Scenario B), that it would not result in unacceptable performance of the collection system. The proposed project would not require upsizing of any sewer pipes. The existing wastewater treatment facility that serves the

site has sufficient capacity to serve the project, and no new or expanded wastewater treatment facilities are required (see response to criterion c).

Stormwater Management

The project would construct new on-site stormwater drainage features, consistent with the C.3 provisions set by the San Francisco Bay RWQCB's MRP (see Section 3.10.3), but would not require any new or expanded off-site stormwater drainage facilities. Stormwater run-off from the site would be directed to a series of drainage management areas/bioretention swales that allow for the cleansing and infiltration of stormwater before draining to the outfall on southwest corner of the site.

The project would feature planter areas (for stormwater treatment) primarily on the north side of the building, but also on the eastern, southern, and western project site perimeters (see Figure 12 – Stormwater Control Plan). As noted previously, implementation of the proposed project would increase the amount of pervious area on the site by approximately 7,983 square feet.

The project would also require the installation of 10" PVC pipe along the northern side of the project site, as well as a series of five, new storm drain manholes on the interior of the site that generally parallel the building's western façade, and two new stormwater overflow discharge outlets in the drainage channel south of the project site.

Electricity, Natural Gas, and Telecommunications Facilities

The project would be served by existing electric power, natural gas, telephone, and internet services.

The proposed building would have an emergency standby power system. The generator set would be located in the service area in the northeastern corner of the project site, within a weatherproof and acoustical enclosure. The generator would be equipped with a diesel particulate filter (DPF) and meet U.S. EPA Tier 4 emission standards. The fuel capacity would allow for a minimum of 12 hours of runtime during a life safety event. A dedicated emergency electrical room to house the generator's automatic transfer switches and emergency distribution equipment would be located on the ground floor of the building. Electrical lines from the generator to the emergency distribution equipment would be located underground.

The project has been approved for its natural gas exemption request, meaning that it would not be all electric (City of San Carlos, 2021).

Existing electric power, natural gas, and telecommunications facilities would not need to be relocated or expanded to serve the project. This impact would be less than significant.

b) 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. Sufficient water supply would be available to serve the project and reasonably foreseeable future development during normal, dry, and multiple dry years. The water demand created by the project and reasonably foreseeable future development in the project area, and water supply and management in the project area are discussed below.

Water Demand

The proposed project would consume potable water for research and development activities, employee use, and irrigation of landscaping. Based on existing flow rates, MPWD's existing system should have capacity to serve the new demand generated by the project (Menlo Equities, 2021).

The project area is already heavily developed. Therefore, reasonably foreseeable future development is minimal in the project area and limited to redevelopment of sites that may

already have an existing demand for water supply. Therefore, reasonably foreseeable development in the project area is not expected to significantly increase the demand for water in the project area.

Water Supply and Management

Water supply and demand information is provided in the 2020 Urban Water Management Plan (UWMP) for the MPWD. The MPWD purchases its entire water supply from the San Francisco Public Utilities Commission (SFPUC). SFPUC's regional water conveyance system (RWS) supplies consist of surface water imported from the Sierra Nevada near the Hetch Hetchy project and local surface water from the San Francisco Bay Region (MPWD, 2020). MPWD's long-term contract with SFPUC does not limit daily or monthly water purchases and use. MPWD's total contractual Individual Supply Guarantee (ISG) allocation from SFPUC is 3.891 mgd for an average day or 1,420.22 MG per year. MPWD receives its SFPUC supplies as part of the Bay Area Water Supply & Conservation Agency's (BAWSCA) wholesale supply allocations to the San Francisco Bay Area region.

To evaluate its supply reliability, SFPUC closely monitors the hydrologic conditions impacting its watersheds in the Sierras and the San Francisco Bay Area. Based on hydrologic conditions, SFPUC routinely provides updates about its water supply that may impact water supply for BAWSCA agencies. Unlike previous SFPUC water supply reliability forecasts that were mostly focused on hydrologic conditions and projects that impacted infrastructure, in January 2021 SFPUC provided BAWSCA with two scenarios for forecasts: "with Bay Delta Plan", ("with BDP"), and "without BDP" (they were presented by SFPUC as: Scenario 1 and Scenario 2, respectively) for the reliability of its water supply and used the Supply Assurance as the projected wholesale supply for 2025 through 2045.

If the BDP is implemented as presented in SFPUC's "with BDP," the SFPUC will be able to meet the MPWD's projected water demands in normal years but would experience supply shortages in single dry years or multiple dry years. Such implementation of the BDP will require rationing in all single dry years and multiple dry years. Since the MPWD's water supply relies solely on the SFPUC RWS, impacts from the potential implementation of the BDP, as presented in SFPUC's "with BDP" scenario, will impact MPWD's service reliability. MPWD will be able to meet the projected water demands in normal years but would experience supply shortages in single dry years or multiple dry years.

MPWD is working with BAWSCA and its agencies to identify potential regional mitigation measures to improve reliability for regional and local water supplies and to meet its customers' water needs. If conditions for large drought cutbacks to BAWSCA wholesale agencies persist, such as those presented by SFPUC in "with BDP", until SFPUC provides additional alternate supplies, MPWD will need to implement extensive demand management practices to invoke strict restrictions on potable water use.

MPWD's WSCP implements actions for six shortage levels in the case of water shortage conditions from its sole supplier, the SFPUC. Each ascending shortage level corresponds to an additional 10 percent consumer remand reduction.

Conclusion

While the 2020 UWMP indicated water supply deficiencies during single and multiple dry years, the water conservation measures under the 2020 UWMP, along with City of San Carlos measures related to water conservation, would ensure adequate supply of water to serve the project and reasonably foreseeable future development. For example, San Carlos Municipal Code Section 18.18.080, Water Efficient Landscaping and Irrigation, requires landscaping to be designed and plantings selected so that water use is minimized. In addition, the project and future development would be constructed using the most recent California Green Buildings

Code (Part 11, Title 24, known as "CalGreen"), which requires construction to incorporate water efficiency and conservation measures, such as the installation of low flow toilets and faucets. This impact would be less than significant.

c) Result in a determination by the wastewater 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?

Less Than Significant Impact. In addition to serving customers within San Carlos, the City conveys wastewater from four small neighboring county-operated sewer maintenance districts to the RCWTF. The City is currently preparing a system sanitary sewer capacity study (City project number 2021-00098), which will cover the project site and existing infrastructure in the vicinity. The project Applicant has conveyed project estimated sanitary sewer information as required by the City. The project Applicant has also submitted a Public Works Plan Review deposit to the City of San Carlos Community Development Department to cover the work associated with the sanitary sewer capacity study.

The project would be required to complete any improvements / upgrades to the City's sanitary sewer infrastructure needed to serve the project, as determined by the forthcoming sanitary sewer capacity study.

Compliance with any sanitary sewer infrastructure upgrades specified in the sanitary sewer capacity study would ensure the City has adequate conveyance capacity to serve the project. The RCWTF has a capacity to treat 29.5 mgd and currently receives approximately 20 mgd from residential and commercial customers in the SVCW service area. Accordingly, the RCWTF has adequate capacity to treat project-generated wastewater. This impact would be less than significant.

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?

Less Than Significant Impact. (Responses d and e). The proposed project would not 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. The project would comply with all applicable Federal, State, and local management and reduction statutes and regulations related to solid waste. Potential impacts related to solid waste would be less than significant during project construction and operation, as discussed below.

Construction Waste

Solid waste generated by construction of the proposed project would largely consist of demolition waste and construction debris. In compliance with the California Green Building Standards Code (Part 11, Title 24, known as "CalGreen"), the project Applicant would be required to prepare a waste management plan for on-site sorting of construction debris and submit the plan to the City of San Carlos for approval. The City Municipal Code includes construction waste diversion and recycling requirements through Municipal Code Chapter 8.05, Recycling and Diversion of Construction and Demolition Debris. Chapter 8.05 requires covered projects generating waste comprised of mixed debris, including both structural debris (e.g., wood, metal, wallboard) and inert materials (dirt, asphalt, brick, and/or cinderblock), to divert at least 60 percent of all generated tonnage. Compliance with these regulations would prevent significant solid waste impacts during project construction.

Operational Waste

For the purposes of this analysis, the proposed project is estimated to generate a maximum of approximately 16.2 tons of solid water per year. Most of the solid waste generated in San Carlos is transported to the Ox Mountain Landfill near Half Moon Bay. The landfill, owned and operated by Browning Ferris Industries, is expected to reach capacity in 2034 (CalRecycle, 2022a). In 2019, the landfill received 611,511 tons of solid waste per year, of which 5,258 tons were from San Carlos (CalRecycle, 2022b). The proposed project's solid waste generation would be a small percentage (approximately 0.003% based on historical values) of the total solid waste received at the landfill and is well within the capacity of the landfill.

The proposed project would include areas for storage of solid waste and recyclable materials for pick up by Recology. The proposed project would not impair the City of San Carlos' compliance with AB 341, SB 1018, or SB 1383. Compliance with these regulations would prevent significant solid waste impacts during project operation.

3.19.4 References

CalRecycle. 2022a. SWIS Facility/Site Activity Details: Corinda Los Trancos Landfill (Ox Mtn) (41-AA-0002). Accessed January 27, 2022 at https://www2.calrecycle.ca.gov/SolidWaste/Site/Summary/3223.

_____. 2022b. California Solid Waste Statistics. Accessed February 2, 2022 at https://www2.calrecycle.ca.gov/LGCentral/DisposalReporting/.

City of San Carlos. 2001. San Carlos Municipal Code Chapter 8.05: Recycling and Diversion of Construction and Demolition Debris.

_____2011. San Carlos Municipal Code Chapter 18.18: Landscaping.

_____2021. Personal Communication. Email. "RE: 405 Industrial Way, San Carlos". From Chris Valley, San Carlos, to Katherine Ingersoll, Menlo Equities. December 9, 2021.

Menlo Equities 2021. Personal Communication. Email. "RE: 405 Industrial Road CEQA – data request". From Katherine Ingersoll, Menlo Equities, to Lisa Costa Sanders, San Carlos. December 28, 2021.

Mid-Peninsula Water District (MPWD). 2020. 202 Urban Water Management Plan. Accessed January 28, 2022 at https://storage.googleapis.com/midpeninsulawater-org/uploads/FINAL_MPWD_2020_UWMP_MW_202109302.pdf.

_____2022. Memorandum. Re: Water Supply Assessment – Not Required – for 405 Industrial Road. From Rene Ramirez, MPWD Operations/Capital Program Manager, to Lisa Costa Sanders, City of San Carlos.

Mott MacDonald. 2022. Memorandum. Subject: Task Order #10 Amendment: Various San Calros Development Alternatives – Sewer Capacity Model Update. From Brian Moore, Mott MacDonald, to Grace Le, City of San Carlos. June 17, 2022.

Silicon Valley Clean Water (SVCW). 2020. Capital Improvement Program 2020 Update FY20-21 to FY29-30. Accessed January 31 at https://svcw.org/wp-content/uploads/2020/08/2020-SVCW-CIP-Update.pdf.

3.20 WILDFIRE

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Is the project located near state responsibility areas or lands classified as very high fire hazard severity zones?	☐ Yes		☒ No	
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 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?	☐	☐	☐	☒

3.20.1 Environmental Setting

The project site is located within the City of San Carlos. According to 2020 mapping data from the California Department of Forestry and Fire Protection, the project site is not within a State Responsible Area or a Fire Hazard Severity Zone (FHSZ) (i.e., a mapped area that designates zones – based on factors such as fuel, slope, and fire weather – with varying degrees of fire hazards) (CalFire, 2022).

3.20.2 Discussion

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 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?

No Impact (a-d). The project site is in an urban area and not within or near a FHSZ. The proposed project would result in the construction of a new life science building; it would not affect wildfire hazards in the area. No impact would occur.

3.20.3 References

California Department of Forestry and Fire Protection (CalFire) 2022. Fire and Resource Assessment Program, California Fire Hazard Severity Zone Viewer, https://gis.data.ca.gov/datasets/789d5286736248f69c4515c04f58f414, updated January 13, 2020. Accessed on February 9, 2022.

3.21 MANDATORY FINDINGS OF SIGNIFICANCE

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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 the incremental effects of a project are considerable when viewed in connection with the efforts 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?	☐	☐	☒	☐

3.21.1 Discussion

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. As described above, the project site is in an urbanized, extensively developed area of San Carlos. It is entirely built out with commercial development and associated surface parking; the project site is almost entirely hardscaped with the exception of one tree. There are no sensitive natural communities, no areas of sensitive habitat, and no areas of critical habitat occurring at the project site. Additionally, there are no buildings currently listed or eligible for listing on the California Register of Historical Resources, no recorded archaeological sites, and no known paleontological resources located on the project site. Therefore, implementation of the proposed project would result in a less-than-significant impact to the environment and wildlife on the project site.

b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means the incremental effects of a project are considerable when viewed in connection with the efforts of past

projects, the effects of other current projects, and the effects of probable future projects)?

Less Than Significant Impact with Mitigation Incorporated. As described in the environmental checklist, the impacts of the proposed project would be less than significant with mitigation incorporated. As described under Section 3.4, the proposed project, in conjunction with other glass façade buildings within and in proximity of San Carlos, may result in a cumulative loss of birds over time. The project would be required to implement Mitigation Measure BIO-1 and implement bird-safe design to minimize the loss of birds by window strike associated with the proposed project. Therefore, with the implementation of Mitigation Measure BIO-1 and the other mitigation measures identified herein this Initial Study, the proposed project would not be expected to contribute to significant cumulative impacts when considered along with other impacts or other reasonably foreseeable projects or when considered with the overall buildout under the City's General Plan.

c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?

Less Than Significant Impact. As discussed previously, the proposed project would not result in a significant impact, thus the proposed project's environmental effects would be less than significant.

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Chapter 4. List of Preparers

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405 Industrial Road Life Science Project IS/MND

Appendix A: Glare Study

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405 Industrial Road :: Glare Study

2021.11.18

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Executive Summary and Table of Contents

Loisos + Ubbelohde was contacted to provide consulting services on a proposed life-science laboratory building at 405 Industrial road in San Carlos, California. The project site sits to the West of U.S. 101 and the San Carlos Airport and East of a neighboring residential area. Potential impacts from both solar reflections during daytime hours and interior light emanating from the building during nighttime hours were of concern for the design team.

This report addresses:

- Sunlight Reflections and Glare potential for the areas surrounding the site.
- Light Emanating From the Building at Night.
- A Review of the ***Comprehensive Airport Land Use Compatibility Plan for the Environs of San Carlos Airport*** relative to Sunlight Reflections and Light Egress considerations above.

Every building with glass will generate sunlight reflections (see appendix), when and where, and for how long these reflections are visible is what can be addressed through the building's design. Where Sunlight Reflections from this building are visible to pedestrians and motorists, this project is equivalent to or better preforming than typical buildings of this scale with glass (punched openings or curtain wall). The building's specified glass has 14% exterior visual reflectance, which is not considered "highly reflective" while the orientation of the building's elevations work to limit the times when and the areas where reflections are visible.

Interior Electric Light emanating from the building can generate unwanted issues such as Light Egress and Glare when bright surfaces and light fixtures can be seen from the outside during night hours. While there is no metric for excessive brightness, we have described the issue with typical night images of buildings that have interior lights on coupled with a calibrated false color image that details the luminance (or brightness) of the view in candelas per meter squared. If you can see the light source directly, the building may be considered a source of glare, although generally it will not be as bright as the exterior commercial, landscape, or street lighting. If the windows are equipped with automated roller shades, the luminance or brightness of the building is markedly decreased. The resulting luminance levels of less than 100 candelas per meter squared are less than a computer monitor and cannot be considered to cause problems of light egress or glare.

Based on our detailed analyses and our review of the SQL CALUP, the proposed building at 450 Industrial Road will not generate glare from reflections of the sun visible to air traffic, on the runway or in flight paths. Similarly, the interior roller shade recommendations will address any glare concern from the interior electric lighting.

Architect's Render

Table of Contents

Sunlight Reflections

Analysis Assumptions

This study characterizes and quantifies the extent of reflections from the proposed building that fall off site. We selected ground level view locations in coordination with the Architect to address the items / areas requested by the EIR consultant. View locations were selected with the Architect to represent worst case building generated reflections as visible for motorists and pedestrians at locations surrounding the site. At these view locations, a representative reflection occurrence time during a clear sky is simulated and annual statistics are provided.

Since the project's glazed area is flat and vertical, convergence (multiple simultaneous reflections landing in the same location) from curved facades and reflections directed into the air (tilted glass) are not a concern. This study is therefore limited to potential glare from reflections in the visual spectrum, the total solar spectrum and thermal impact from reflections is not included.

The accuracy of these simulations is limited by the resolution of the provided model and represents the glass as perfectly flat, clean planes. Actual IGUs have subtle curvature from differential pressures and the accumulated dirt on the glass surface can impact reflection angles and scattering.

All simulations use Radiance, a research grade lighting simulation tool based on the physics of light and material properties. These studies modeled the building geometry on site, and were calibrated with local sky and climate data and precise project location coordinates and orientation. See the following page for climate data description.

Materials: Where applicable, the glazing, cladding and other material used in the simulations followed the specifications in the table below.

ID	Description : Product	Transmittance			Reflectance		
		VLT	Solar	UV	V-Out	V-In	Solar
GL-1	Vision Glass : SNX 51/23	51%	19%	10%	14%	14%	35%
GL-2	Spandrel Glass : SNX 51/23	-	-	-	14%	14%	35%

ID	Description : Product	VLR	Gloss
MTL - 1,3,4	Light Grey Metal Panel : Platinum	55%	"low to medium" ***
MTL - 2	Painted Dark Grey Mullion / Plate	3%	-
-	non-paved / planted areas	3%	-
-	paved areas as modeled	8%	-
-	all remaining surfaces : medium grey	30%	-

Geometry: Building Geometry and additional documents used to generate and calibrate our simulation model provided by RMW include:

- 2202032.00_405 Industrial Rd San Carlos_A_R21_211014.rvt**
- 405 Industrial - G1-0-0 - TITLE SHEET.dwg
- 405 Industrial Road_210930 issue for planning entitlements response #1_arch.pdf
- 210923_405 Industrial_Community Meeting Boards.pdf

- Google map + elevations.pdf**
- 20-0003_ReynobondCompositeMaterialColorChart.pdf ***
- Reynobond_FR_Colorweld_500_07082018.pdf
- SNX-51_23 (1).pdf

Reference Documents for Glare Assessment:

- SQL_FinalALUCP_Oct15_read.pdf
- Noise.pdf
- REquirements for Filing with FAA.pdf

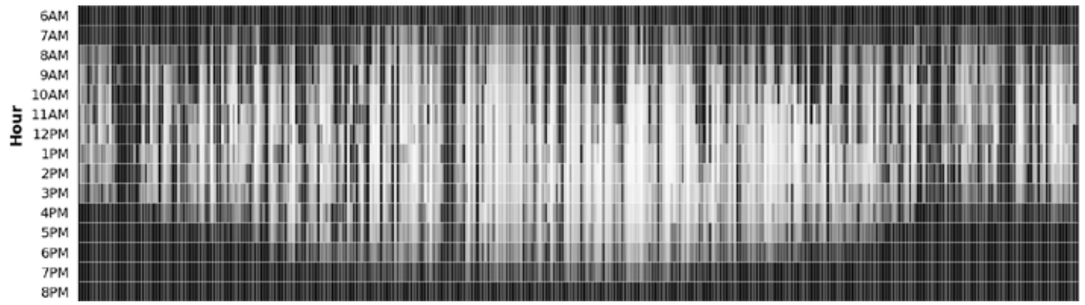
** the provided model does not include topography beyond the immediate site, surrounding landscape, or neighboring buildings (other than the In-n-out and 3 residential buildings). A ground plane was modeled at the proposed project's ground floor level. Annual analyses exclude the project's landscaping that is included in the point-in-time views - to represent worst-case occurrences if planting size or locations change.

Regional Weather Data

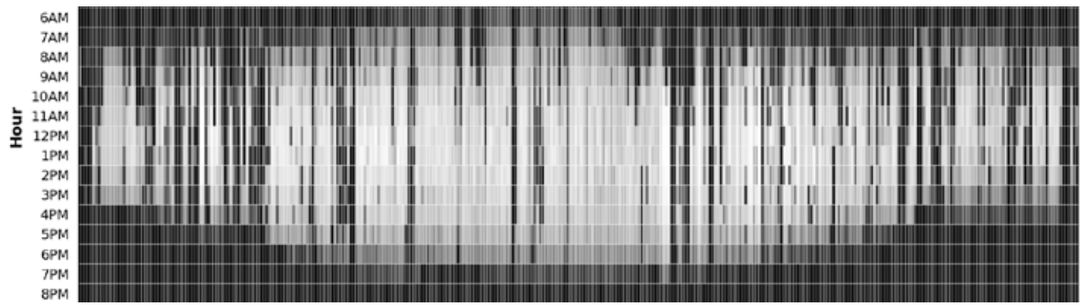
The project's location is ~10 miles South East of San Francisco International Airport (SFO) and ~13 miles North West of Moffett Federal Airfield (NUQ), both locations with publicly available Typical Metrological Year (TMY) data. We reviewed both data sets and found slight differences, with SFO having slightly more annual hours with clear and intermediate sky conditions. NUQ has higher midday direct normal radiation than SFO, but all visible reflections at our view locations occur during low solar angles (sunrise and sunset) so we use clear days from the SFO data set for the point-in-time studies. For our annual studies, we use an ASHRAE annual clear sky calculation to account for all potential reflections from all solar positions under clear sky conditions. All solar angles are calculated for the project's exact coordinates, not the weather station's location.

Building Site and Weather Stations

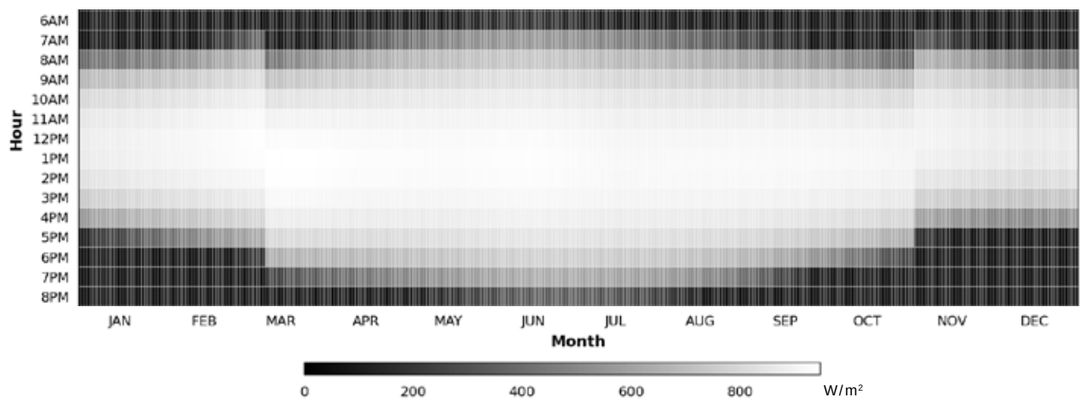
SFO :: Direct Normal Radiation - W/m²



NUQ :: Direct Normal Radiation - W/m²



SFO Annual Clear Skies :: Direct Normal Radiation - W/m²

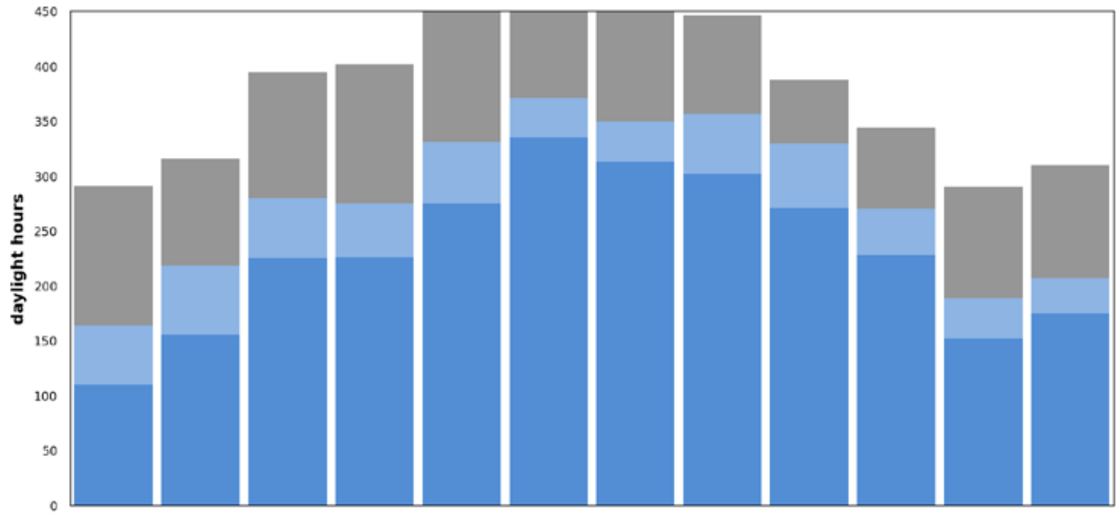


Regional Weather Data

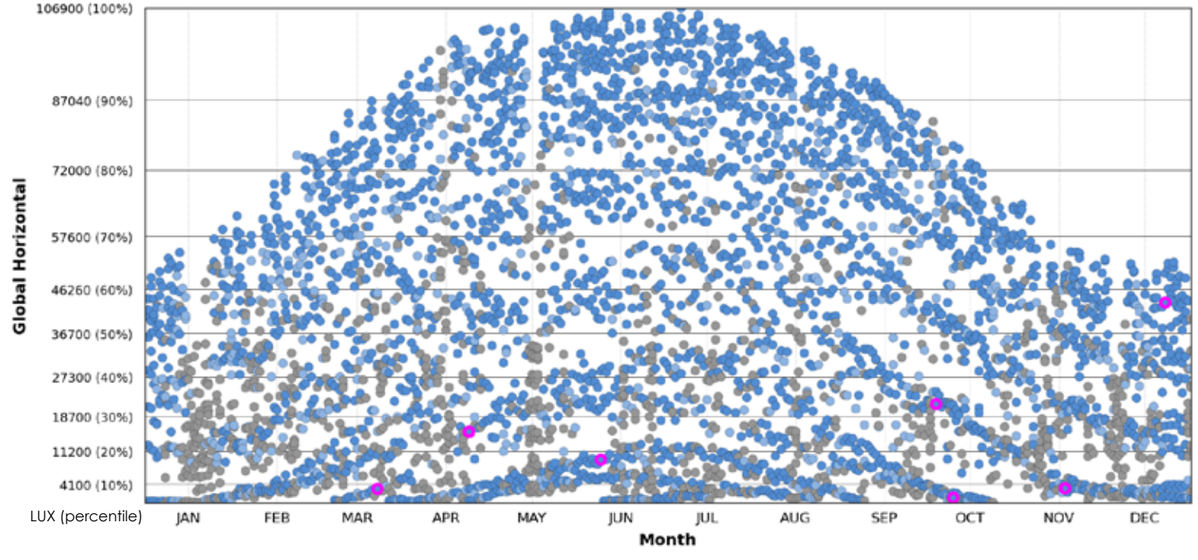
All solar positions that generate refections visible from the selected view locations (with the exception of view 03) occur at times that are within ~2 hours of sunrise or sunset. So while we are picking the clear sky conditions that occur during those solar positions for our simulations (see annual graphs that accompany each view), these times will never reach global horizontal illuminance values or the direct normal radiation values of mid day clear skies, hence the simulated times (other than the time for view 03) are all below the 40th percentile - 4 of these are below the 20th percentile.

View 03 is the only mid day time simulated and is a ~60th percentile sky. Please see the pages for view 03 for more information.

SFO :: Daylight Hours by Sky Condition



SFO :: Typical Annual Global Horizontal Illuminance - LUX (percentile)



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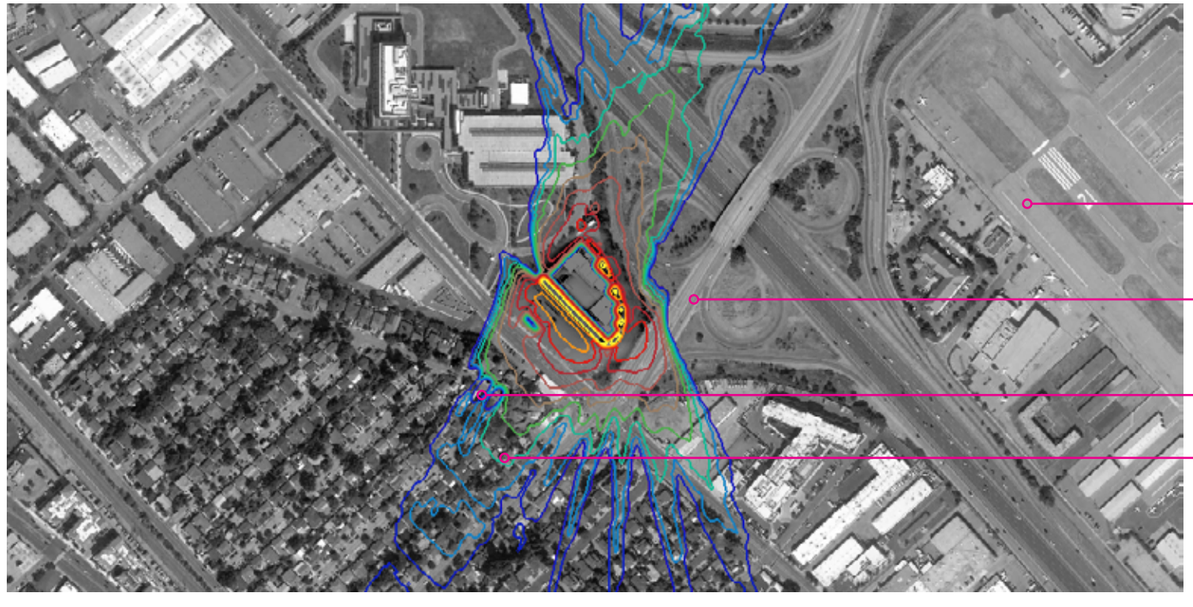
Annual Hours of Visible Reflections

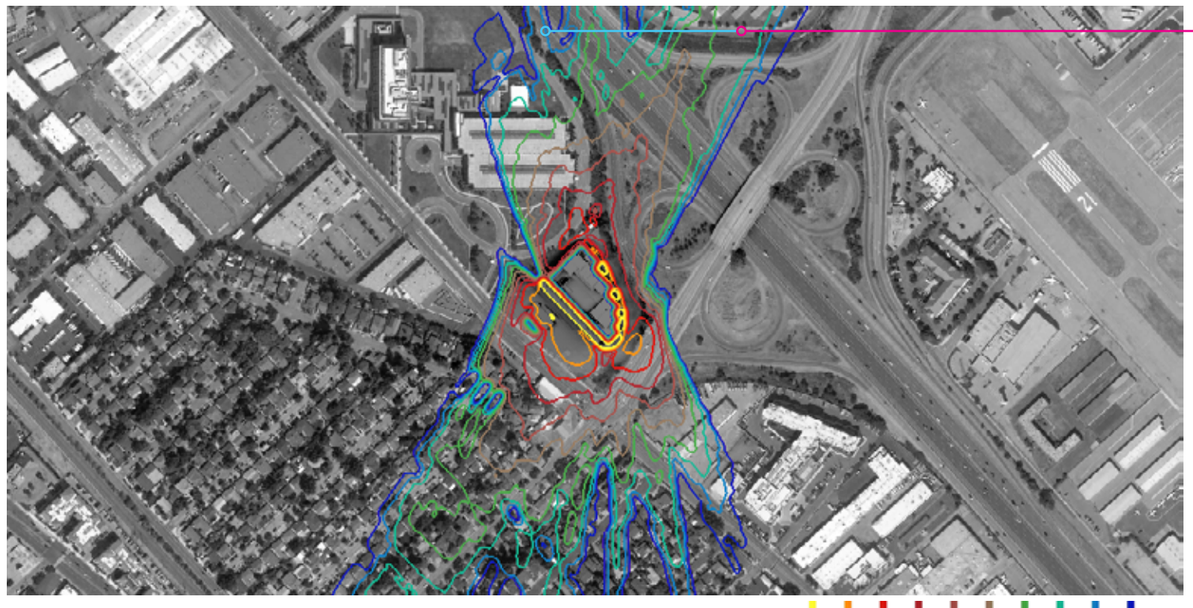
SFO TMY :: Annual Hours of Visible Reflections by Location



For our annual studies, we use an ASHRAE annual clear sky calculation to account for all potential reflections from all solar positions under clear sky conditions. We then filter these results through the SFO TMY data set to show typical annual hours of visible reflections.

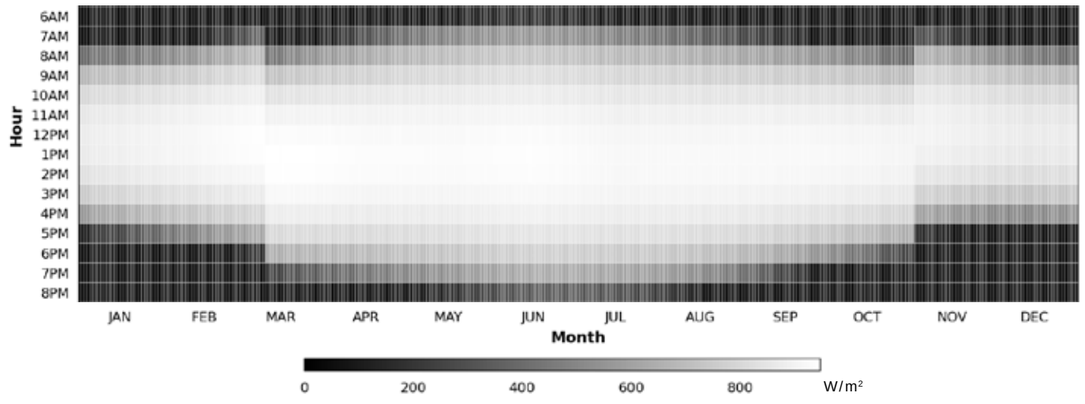
- no reflections visible at airport
- no reflections visible at Holly overpass
- Reflections obstructed by 3 residential buildings modeled
- Many of these reflections will be obstructed by buildings and trees that are not included in our model

SFO Annual Clear Skies :: Annual Hours of Visible Reflections by Location



- Clear Sky model accounts for all possible solar and reflection angles

SFO Annual Clear Skies :: Direct Normal Radiation - W/m²



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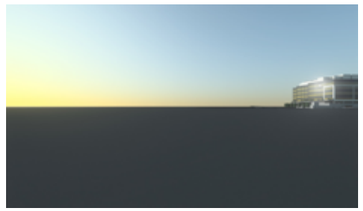
View Selection Locations and Descriptions

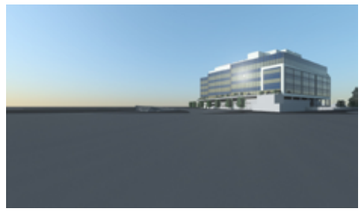
1



Southbound 101

- From further South on 101 the building is mostly out of view.
- From further North on 101 no reflections are visible.

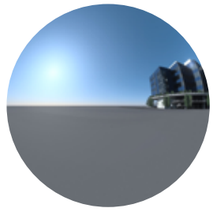
2



Holly St. off-ramp, Southbound 101

- This location of the off-ramp faces the building directly and is far enough back that reflections will likely be seen over the trees lining the off-ramp.

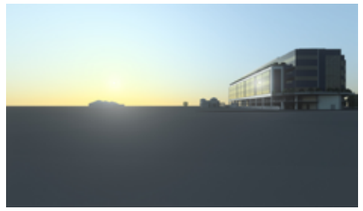
3



Westbound Holly St. approaching Industrial Rd.

- From further East on Holly no reflections are visible.
- From further West on Holly the building is out of the field of vision - a 180° Fisheye is shown for this effect - this view to reflection source relationship is typical of reflections landing this close to the building.

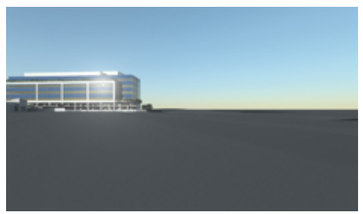
4



Northbound Industrial Rd. at Holly St. intersection

- Reflections are seen in the SouthEast (Holly) elevation in the AM and the South West (Industrial) elevation in the PM, a representative time is shown for each.

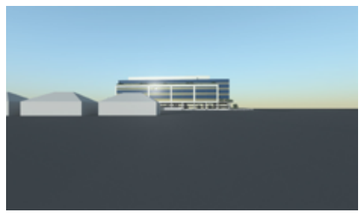
5



Eastbound Holly St. approaching Industrial Rd.

- Reflections of low angle sunsets will be visible along this path of travel.

6

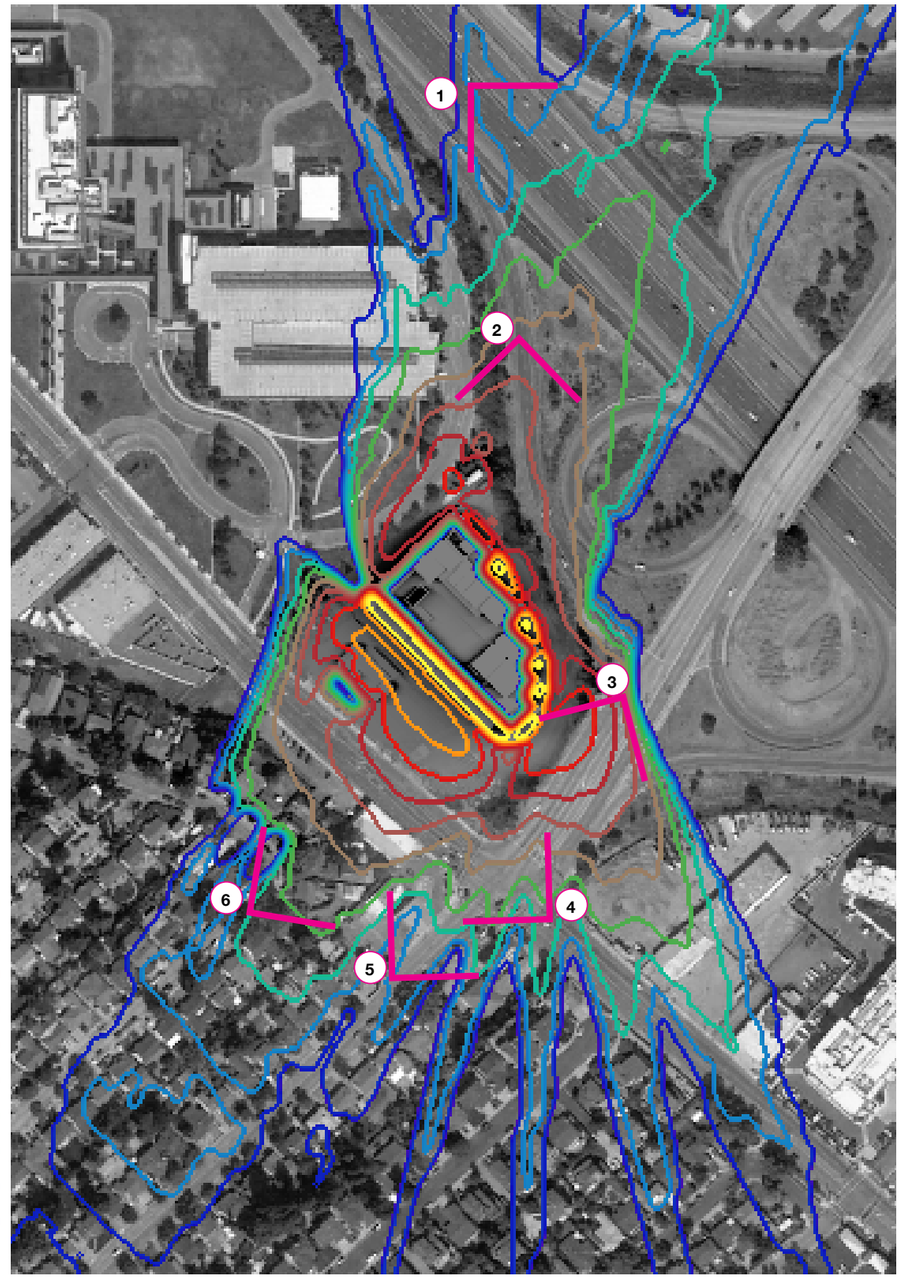


Eastbound Springfield Rd.

- Minimal reflections of low angle sunsets will be visible over neighboring houses and trees.

Note: All views are 90° horizontal X 60° vertical, 5' above the ground plane as modeled and are in line with the direction of traffic.

View Locations :: SFO TMY underlay



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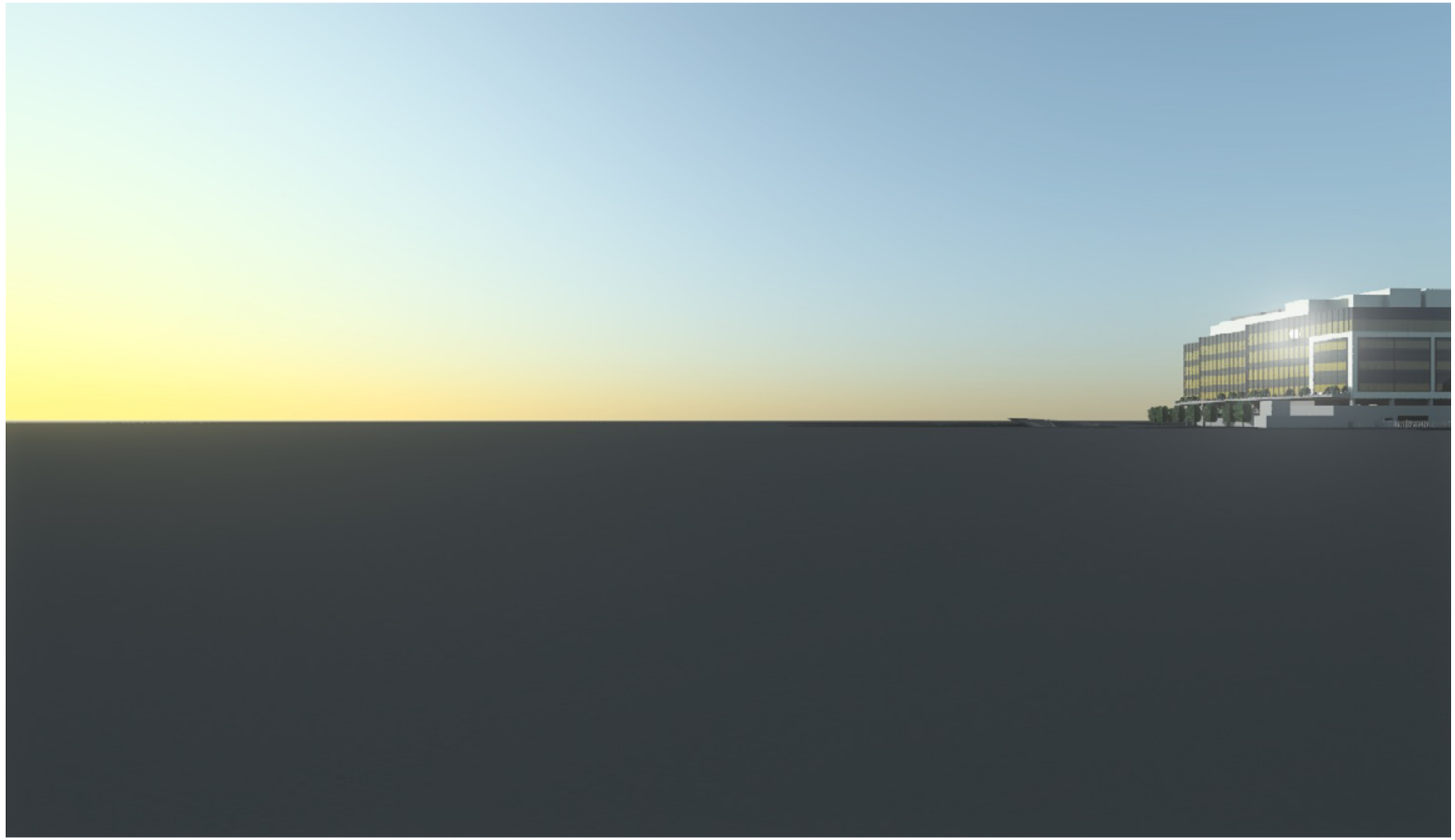
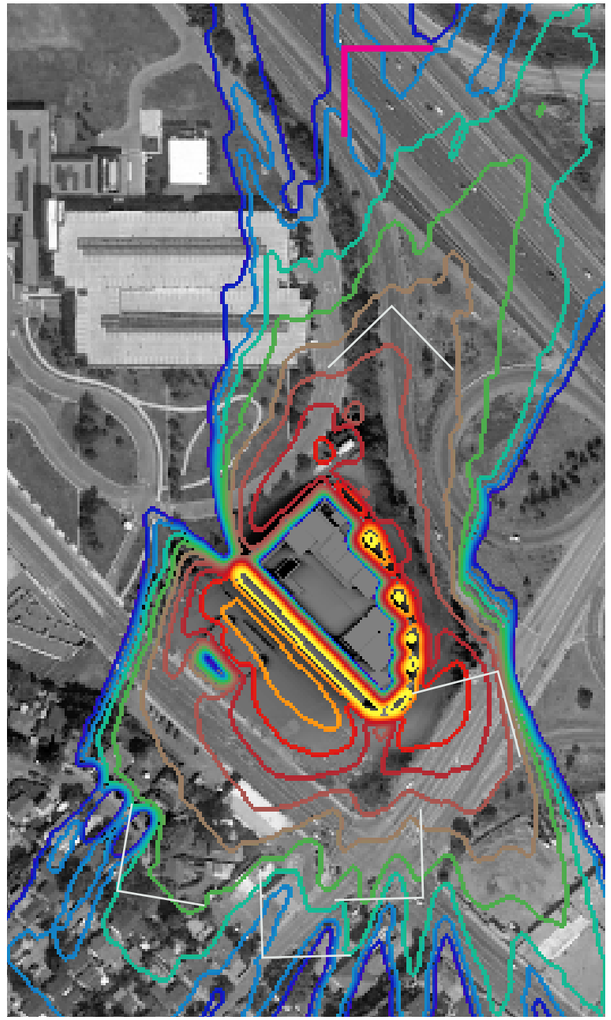
01 : Southbound 101

Human Adaptation with Veiling Glare

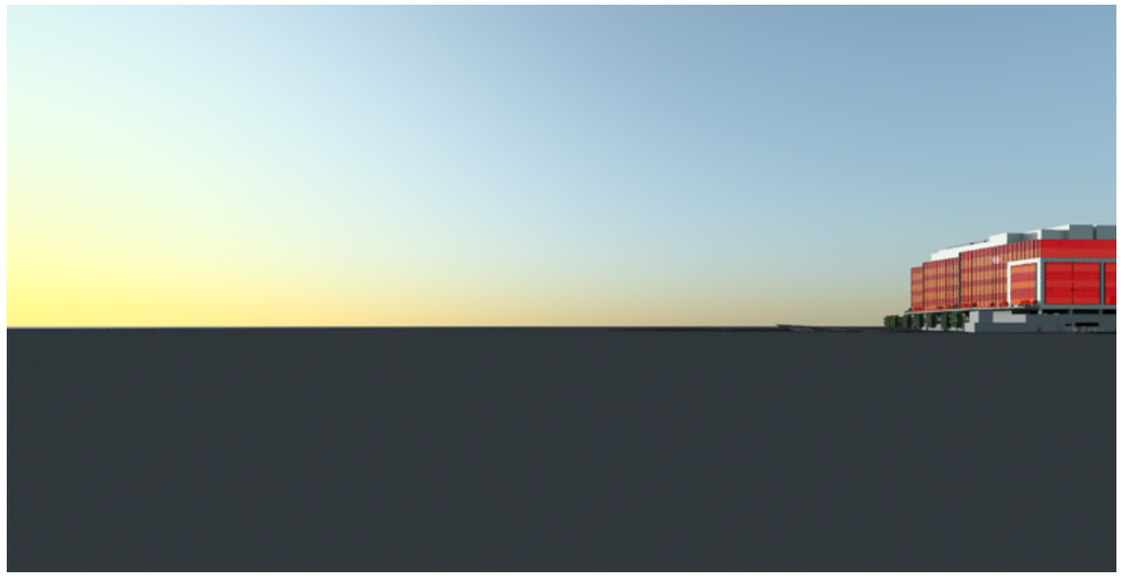


March 22nd, 7:45 am PDT

View Locations :: SFO TMY underlay

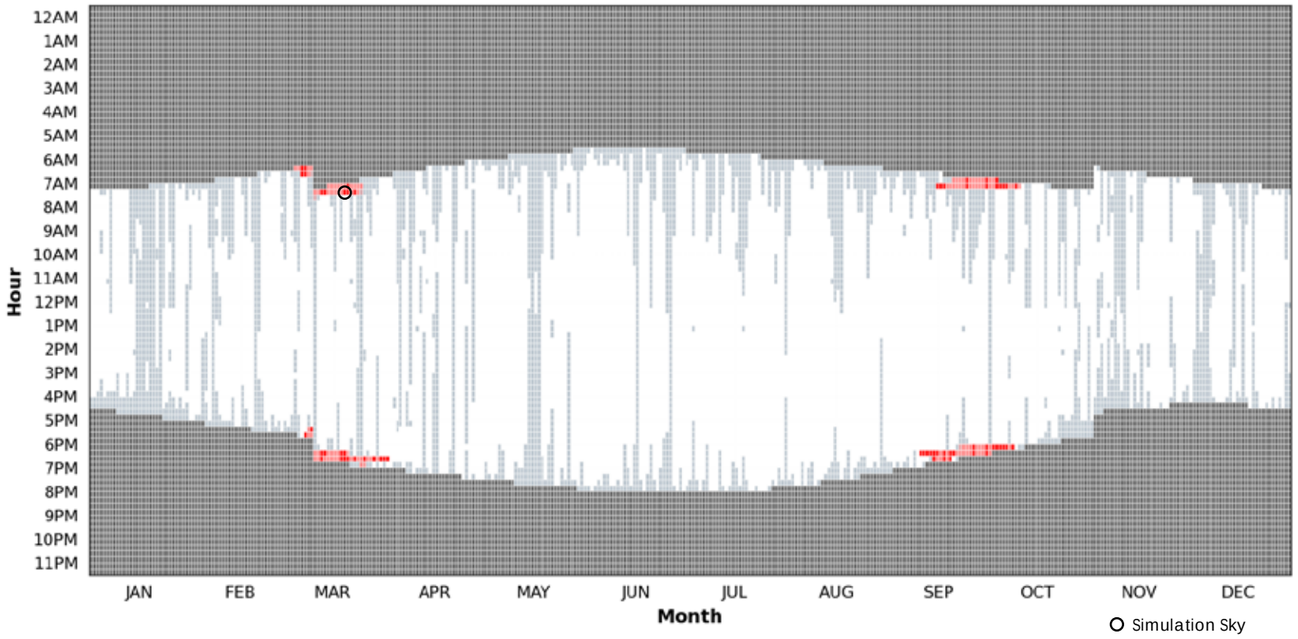


Area of Glazing that will have visible reflections in Red - see annual graph



Google Maps Street View at Approximate View Location

Annual Visual Reflection Potential :: SFO TMY filtered - 15 min. increments



Annual Hours	TMY : Clear + Intermediate Skies	TMY: Overcast Skies
Visible Reflections	15.75	25.5
Total TMY	3280	1073

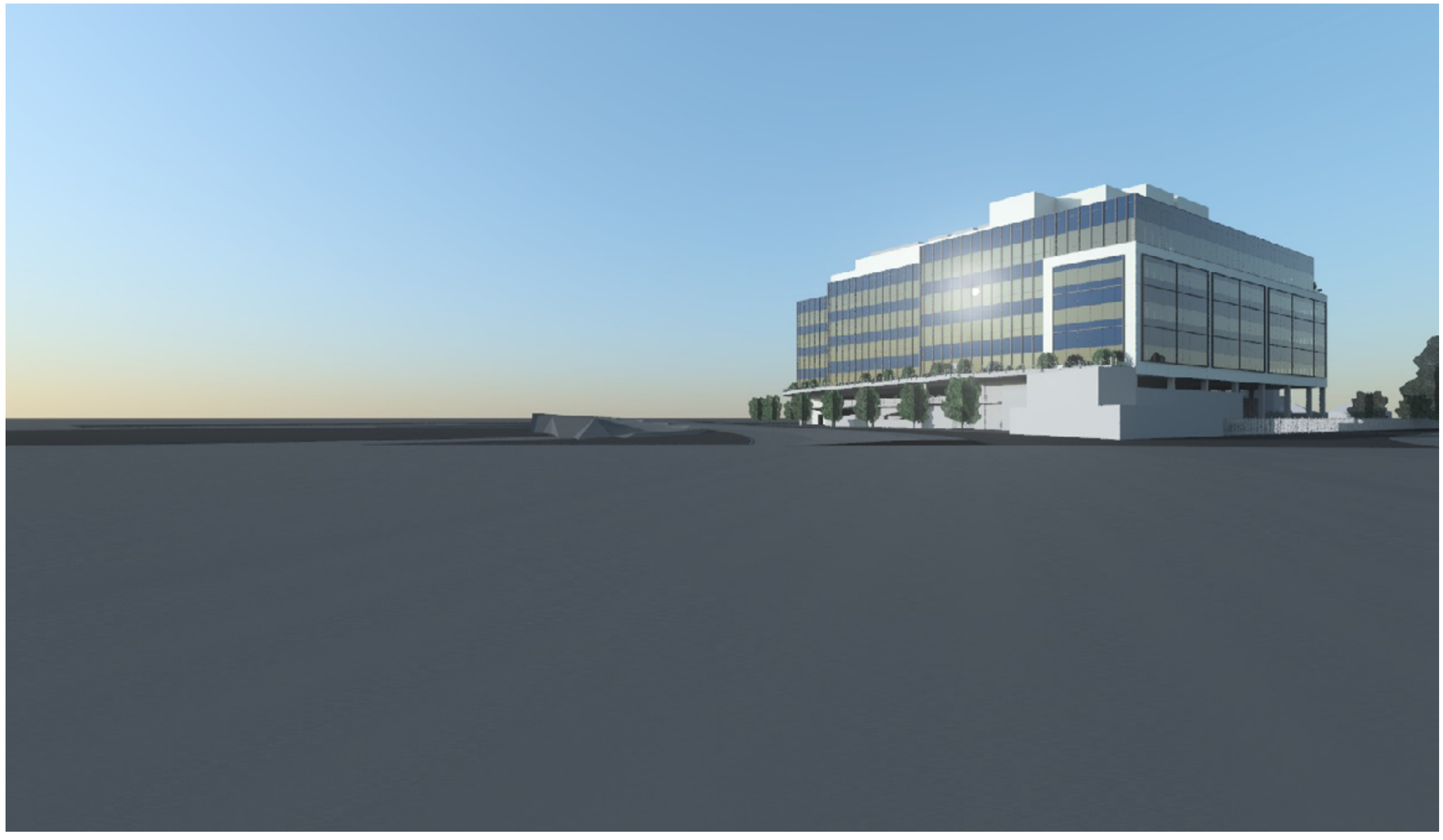
At this view location, reflections of the Sun in the building's NE elevation may be visible during March and September during the first ~30 minutes after sunrise.

Reflections of the Sun in the building's NW elevation may be visible during March and September during the last ~30 minutes before sunset.

Note that the surrounding trees that will obstruct much of the building are not modeled.

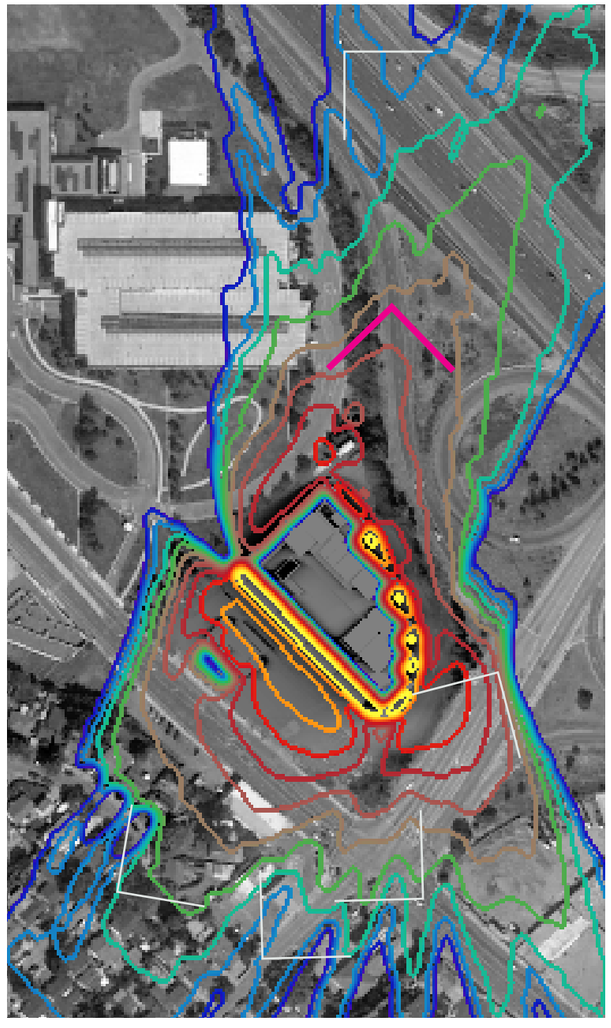
02 : Holly St. off-ramp, Southbound 101

Human Adaptation with Veiling Glare



April 23rd, 7:15 am PDT

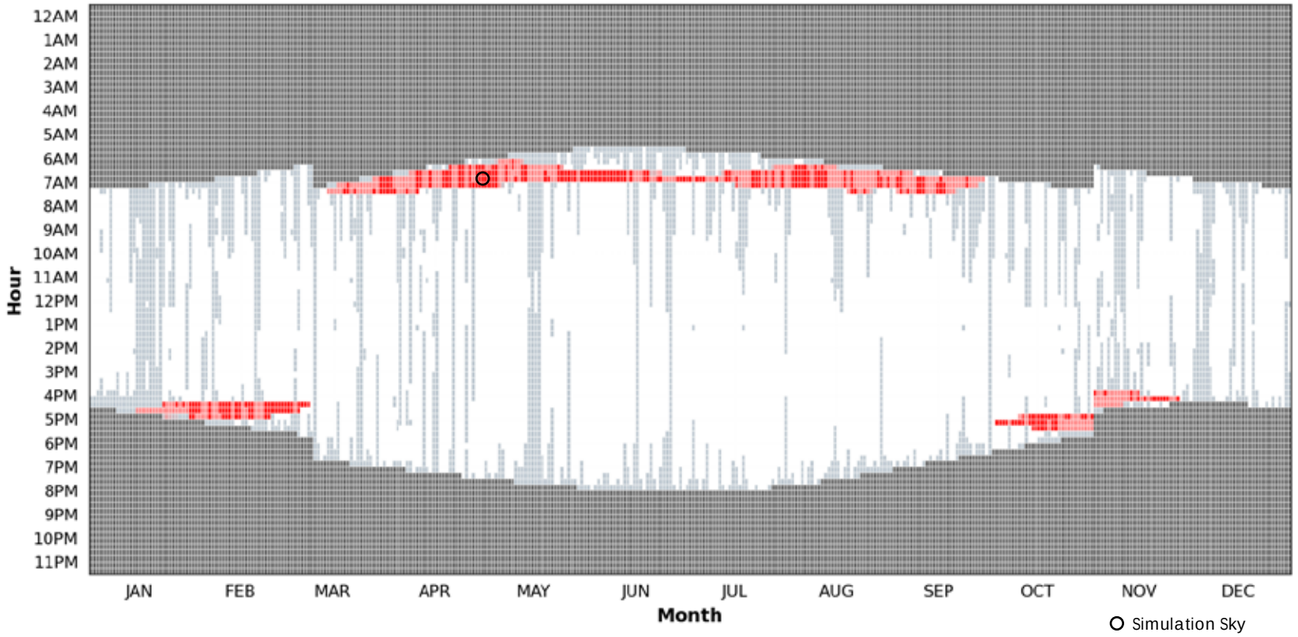
View Locations :: SFO TMY underlay



Area of Glazing that will have visible reflections in Red - see annual graph

Google Maps Street View at Approximate View Location

Annual Visual Reflection Potential :: SFO TMY filtered - 15 min. increments



Annual Hours	TMY : Clear + Intermediate Skies	TMY: Overcast Skies
Visible Reflections	97.75	115.75
Total TMY	3280	1073

At this view location, reflections of the Sun in the building's NE elevation may be visible March through September during the first hour after sunrise.

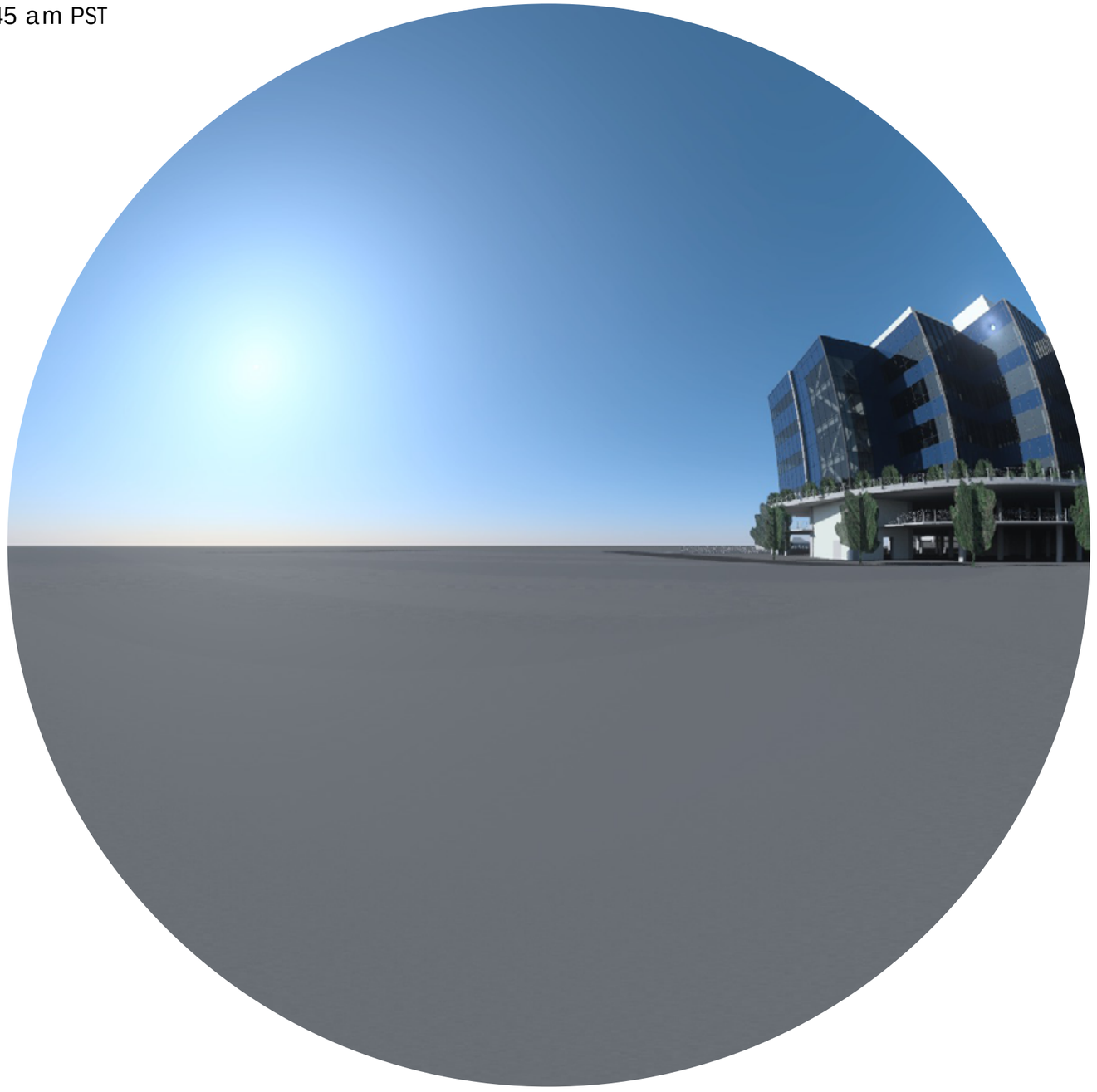
Reflections of the Sun in the building's NW elevation may be visible during Jan., Feb., Mar. and Oct., Nov. during the last hour before sunset.

The trees lining the off-ramp are likely to obscure much of the building's elevations but are not modeled for this study.

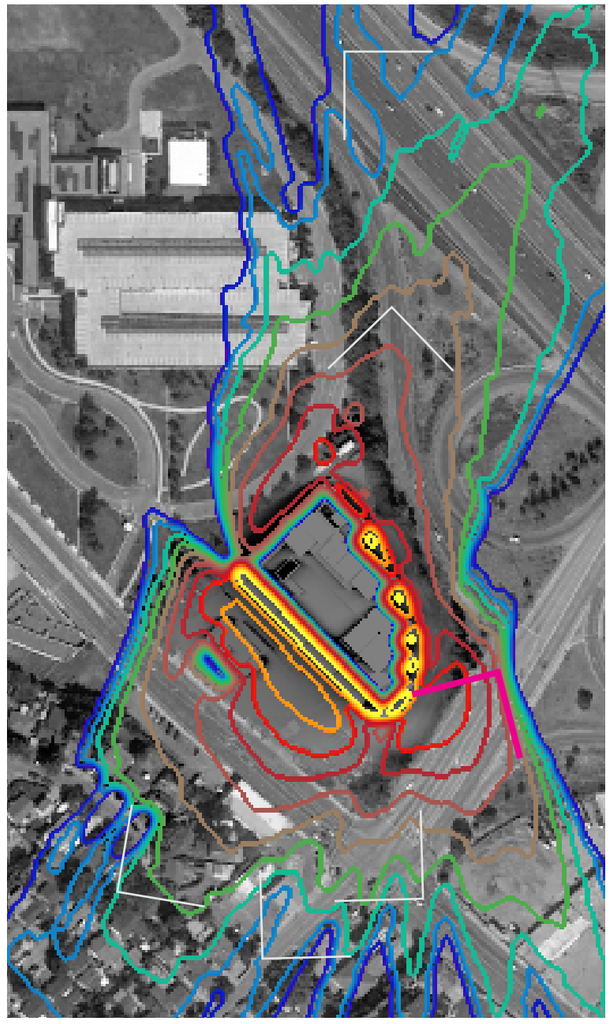
03 : Westbound Holly St. approaching Industrial Rd.

Human Adaptation with Veiling Glare

Dec. 22nd, 10:45 am PST



View Locations :: SFO TMY underlay



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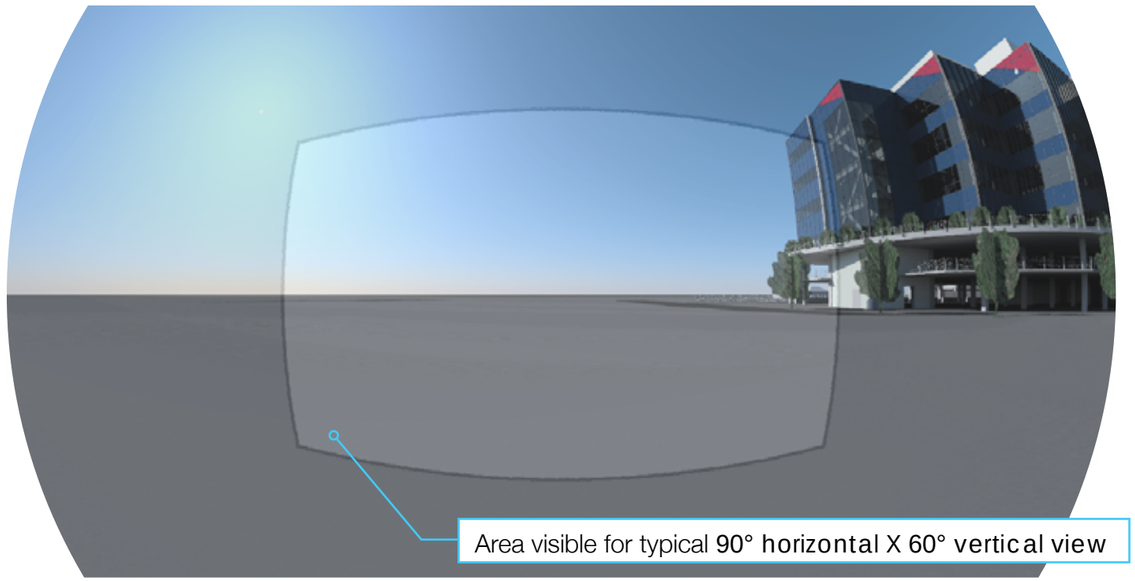
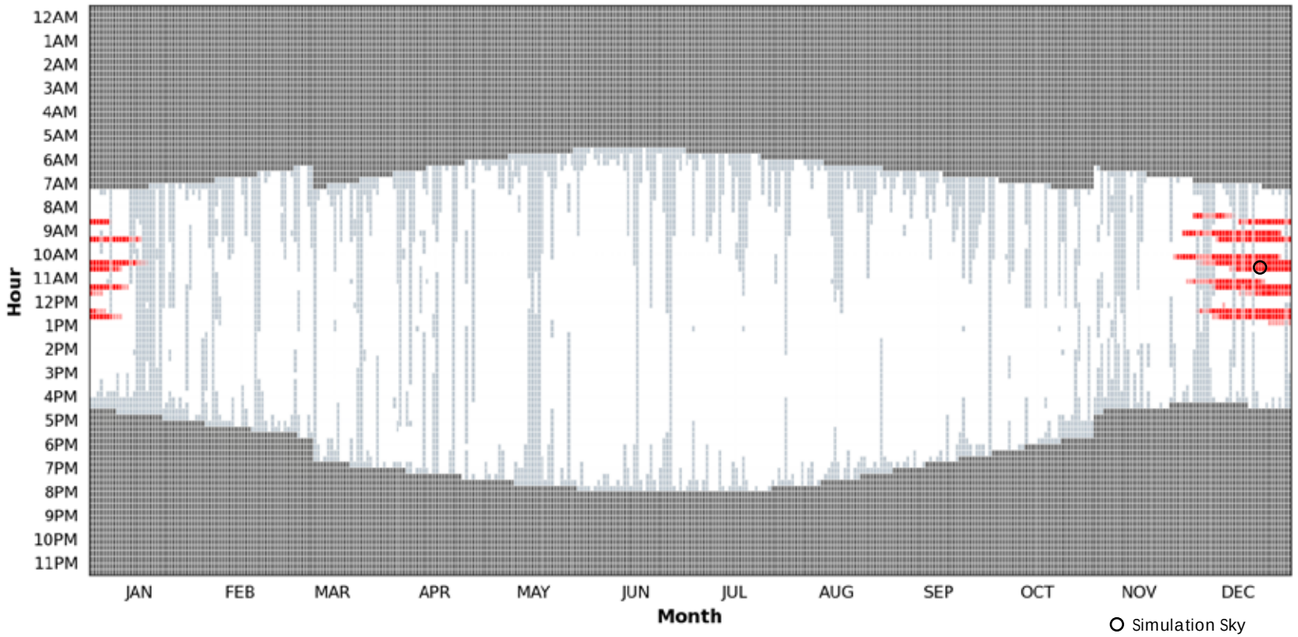
03 : Westbound Holly St. approaching Industrial Rd.

Area of Glazing that will have visible reflections in Red - see annual graph



Google Maps Street View at Approximate View Location

Annual Visual Reflection Potential :: SFO TMY filtered - 15 min. increments



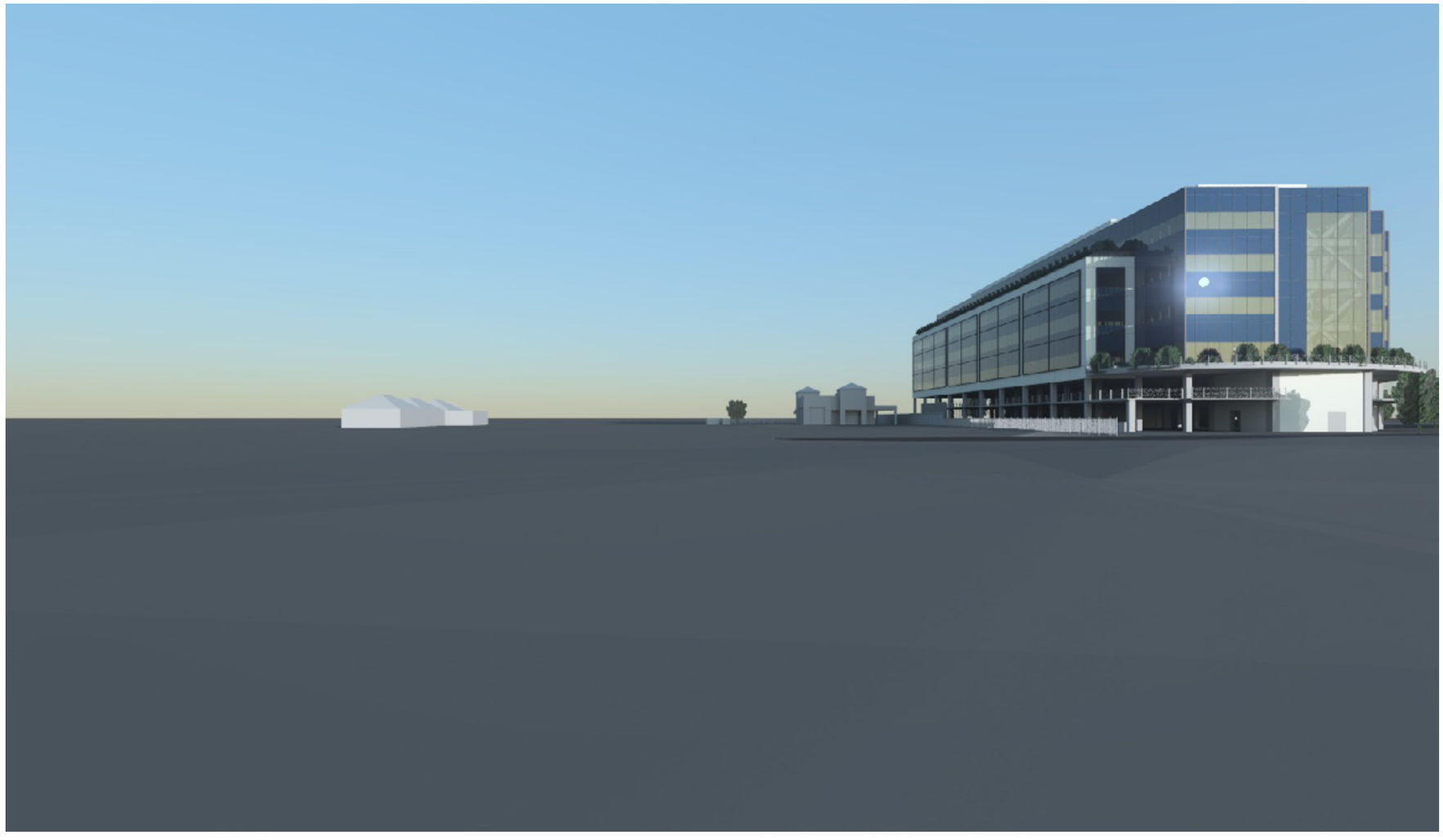
Annual Hours	TMY : Clear + Intermediate Skies	TMY: Overcast Skies
Visible Reflections	51	12.5
Total TMY	3280	1073

At this view location, the source of reflections (on the building's elevation) that land on the road (heatmap above and annual overlay) will not typically be visible. These primary reflections will come from outside of a typical field of view for a driver.

The trees lining the road way are not modeled as part of this analysis.

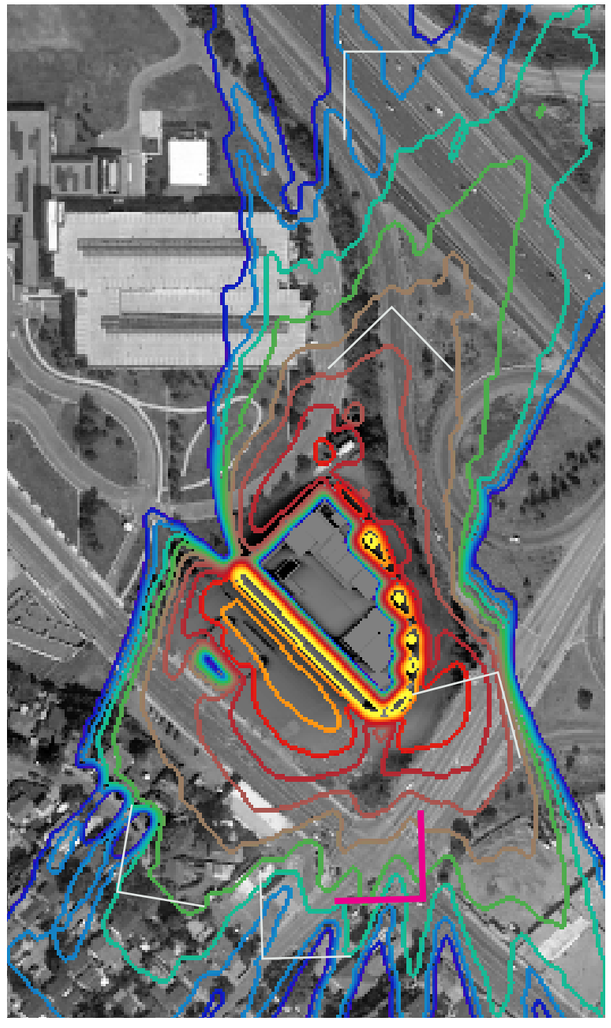
04 : Northbound Industrial Rd. at Holly St. intersection

Human Adaptation with Veiling Glare



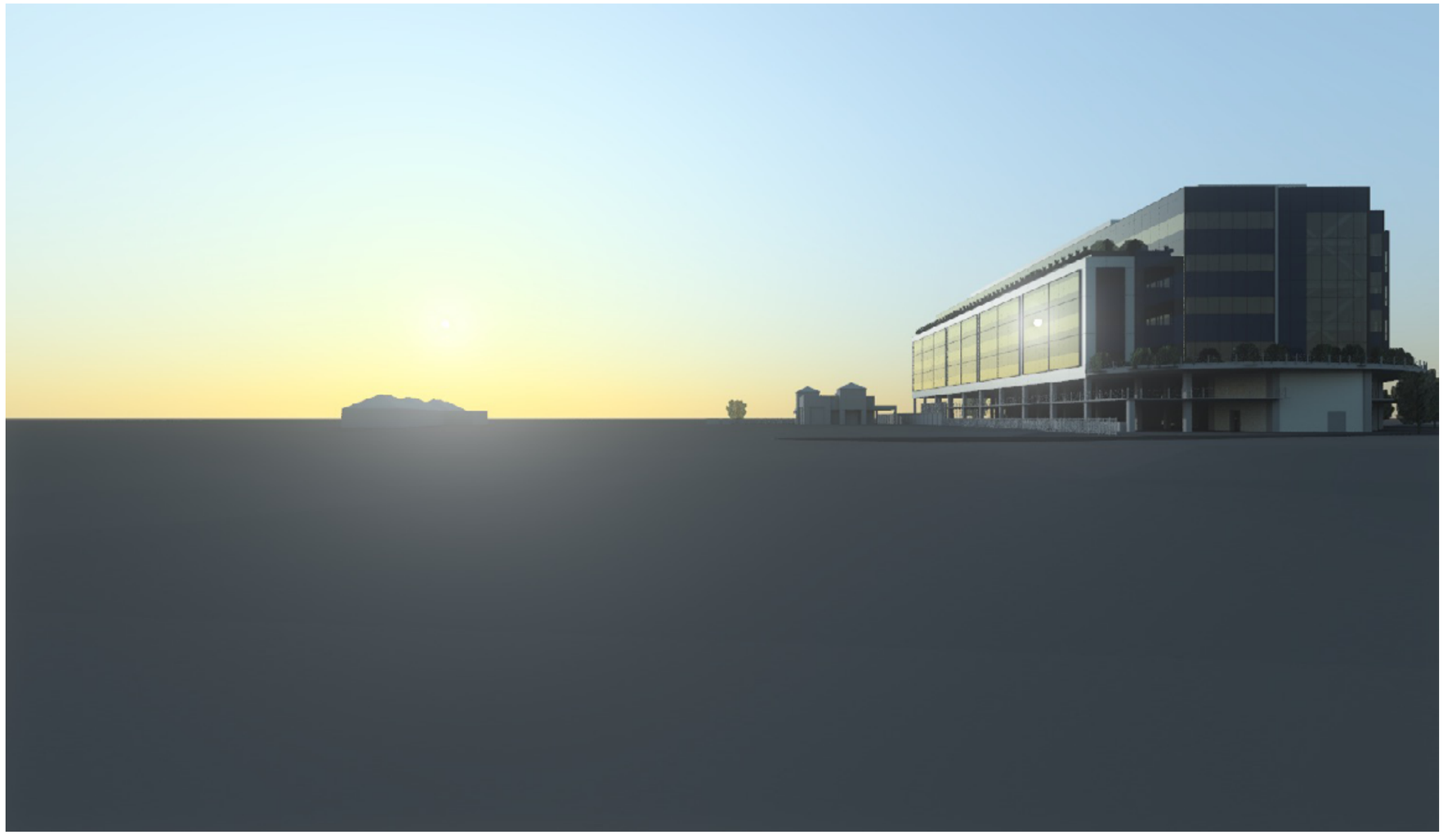
Oct. 3rd, 8:00 am PDT

View Locations :: SFO TMY underlay



04 : Northbound Industrial Rd. at Holly St. intersection

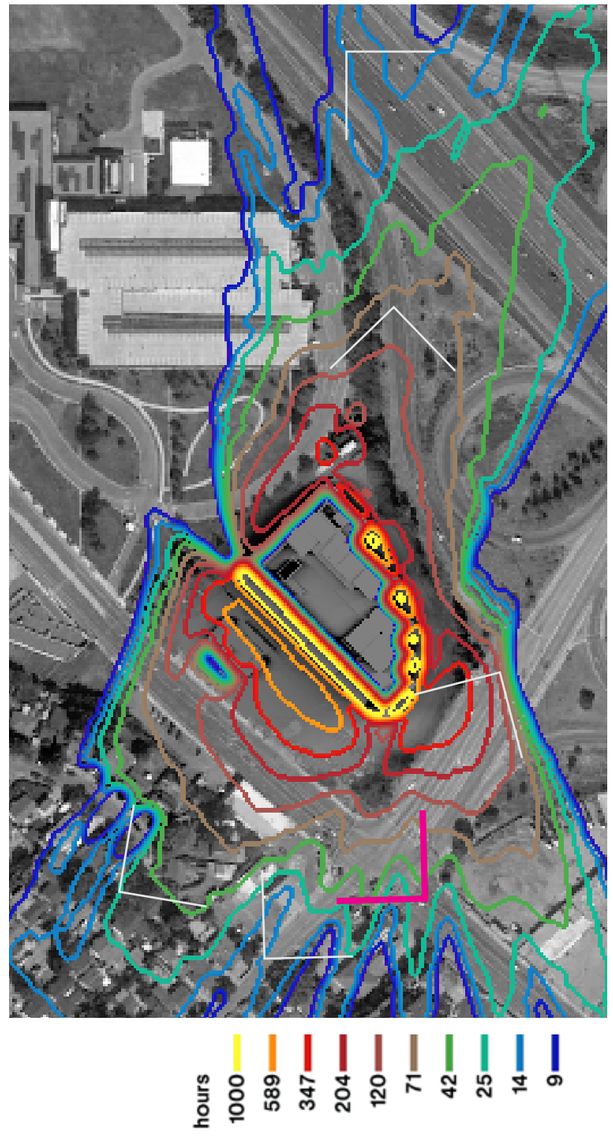
Human Adaptation with Veiling Glare



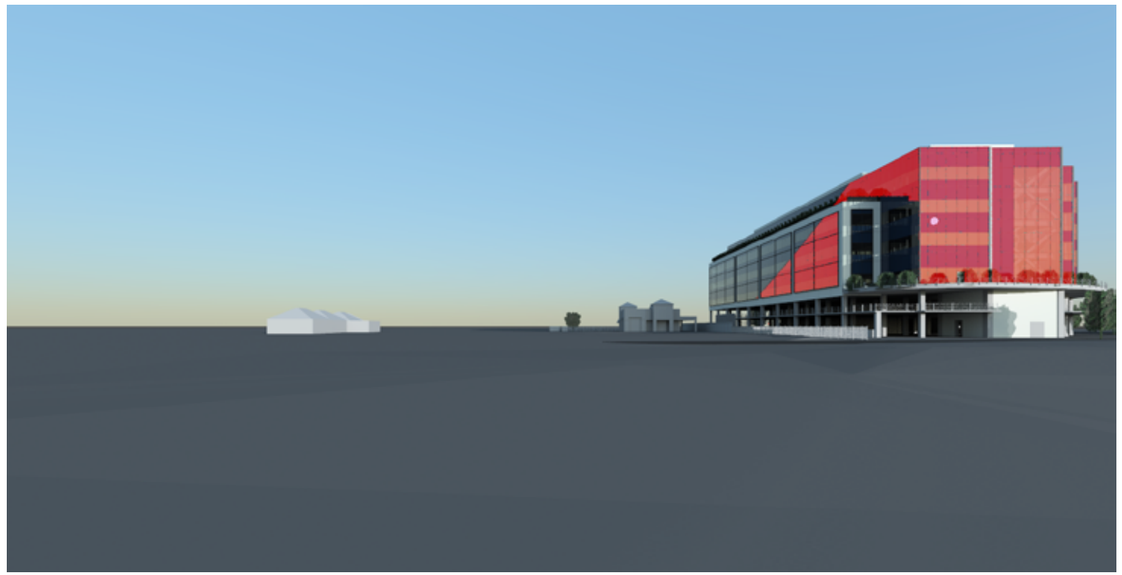
June 8th, 7:45 pm PDT

During the evening times in the spring and summer months when reflections may be visible at this view location, the sun will also be within a driver's field of view and sun and reflections will be at approximately equal altitudes so driver mitigation such as interior visors can address both direct sun and visible reflections.

View Locations :: SFO TMY underlay

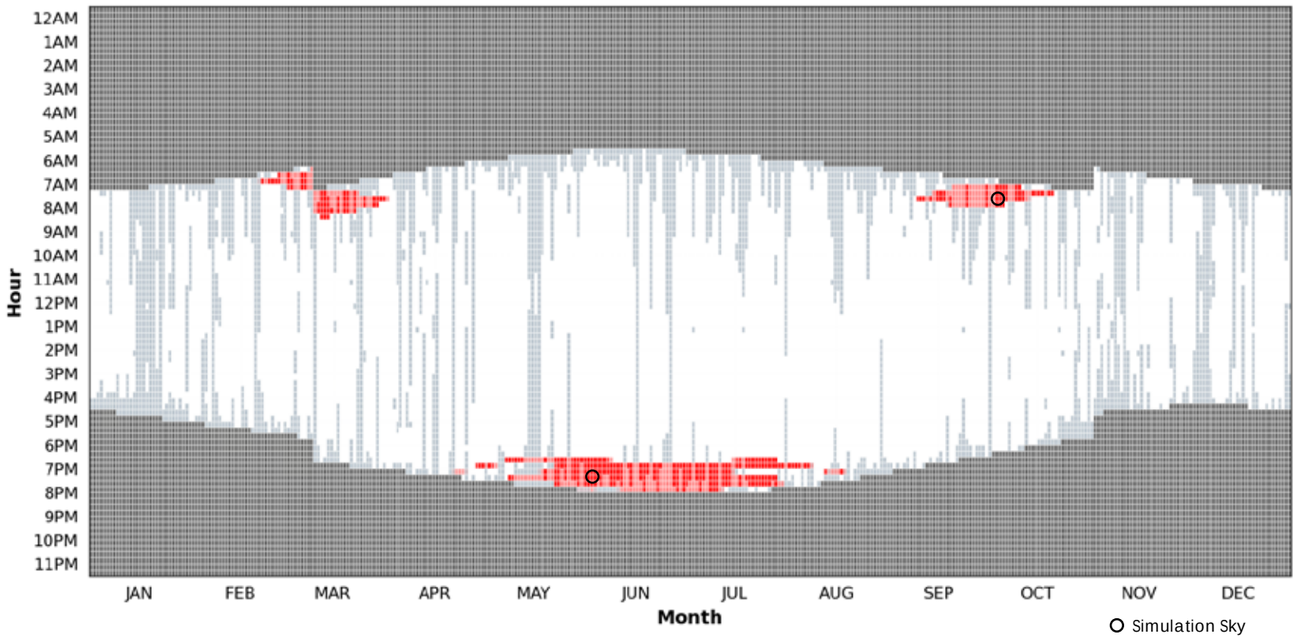


Area of Glazing that will have visible reflections in Red - see annual graph



Google Maps Street View at Approximate View Location

Annual Visual Reflection Potential :: SFO TMY filtered - 15 min. increments



Annual Hours	TMY : Clear + Intermediate Skies	TMY: Overcast Skies
Visible Reflections	91.25	70.25
Total TMY	3280	1073

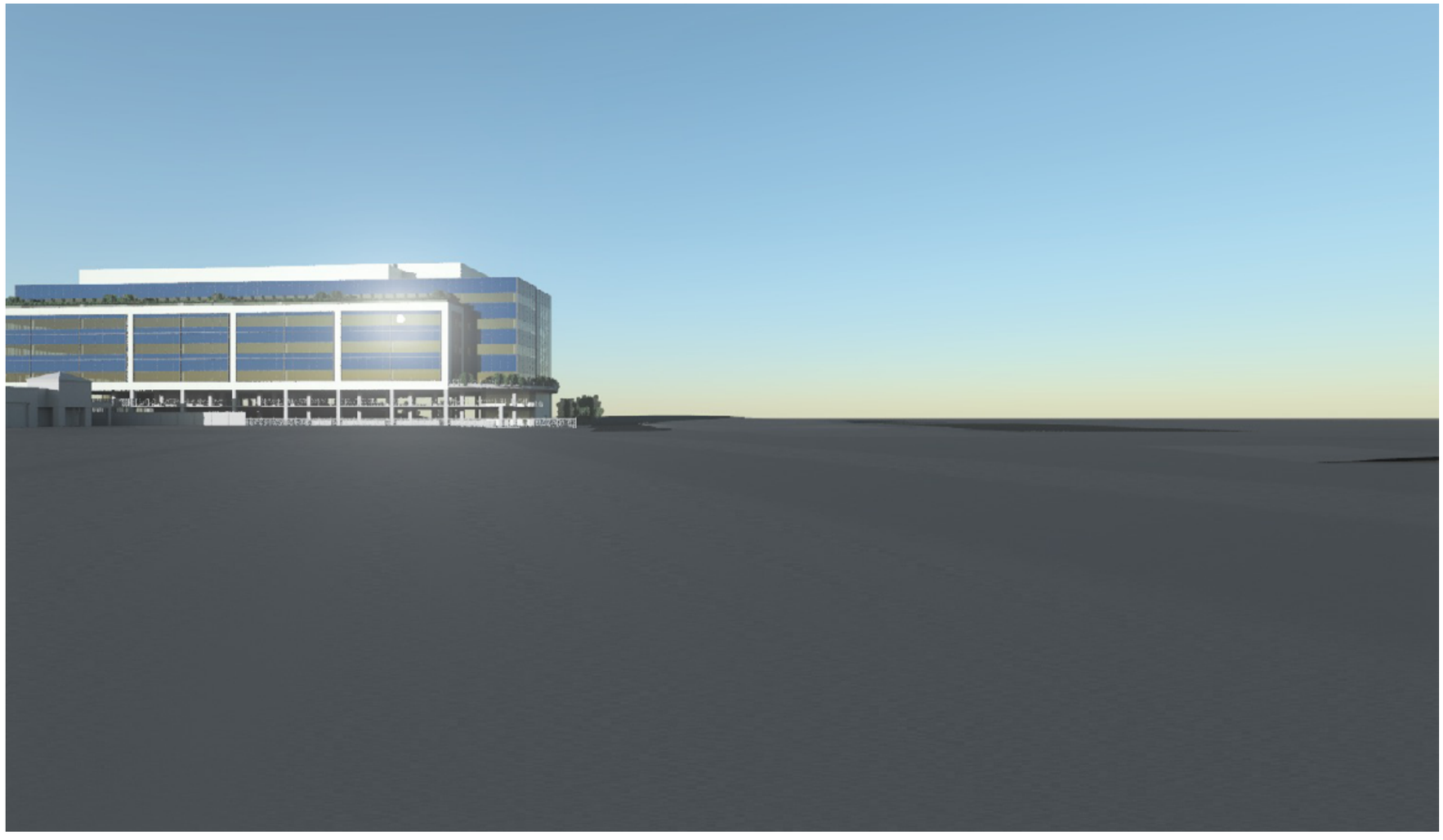
At this view location, reflections of the Sun in the building's SE elevation may be visible around March and Sept. / Oct. during the first hour+ after sunrise.

Reflections of the Sun in the building's SW elevation may be visible April through August during the last hour+ before sunset.

The trees lining the road that are likely to obscure much of the building's elevations are not modeled for this study.

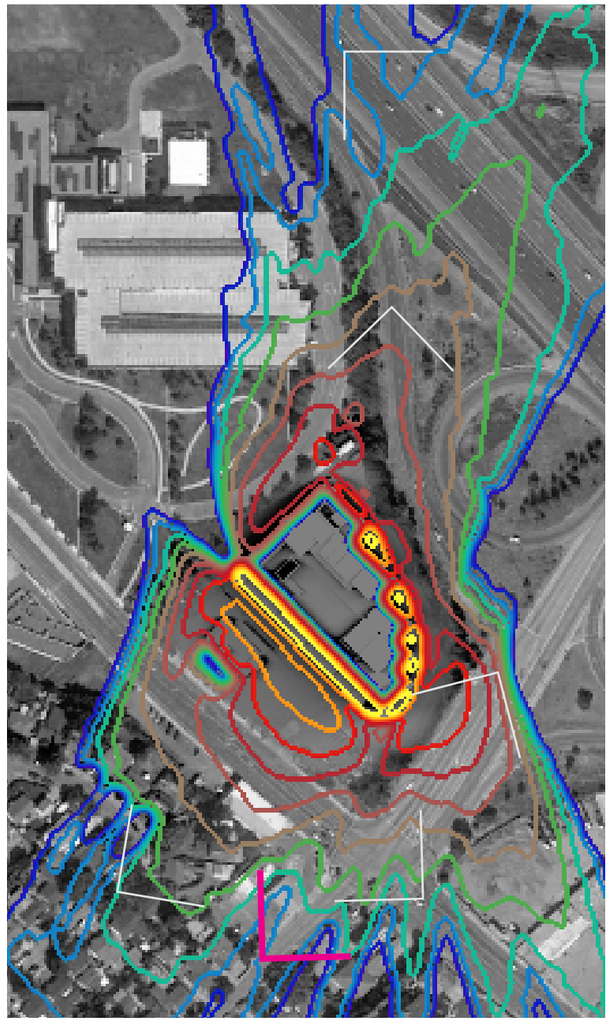
05 : Eastbound Holly St. approaching Industrial Rd.

Human Adaptation with Veiling Glare



Oct. 9th, 6:00 pm PDT

View Locations :: SFO TMY underlay



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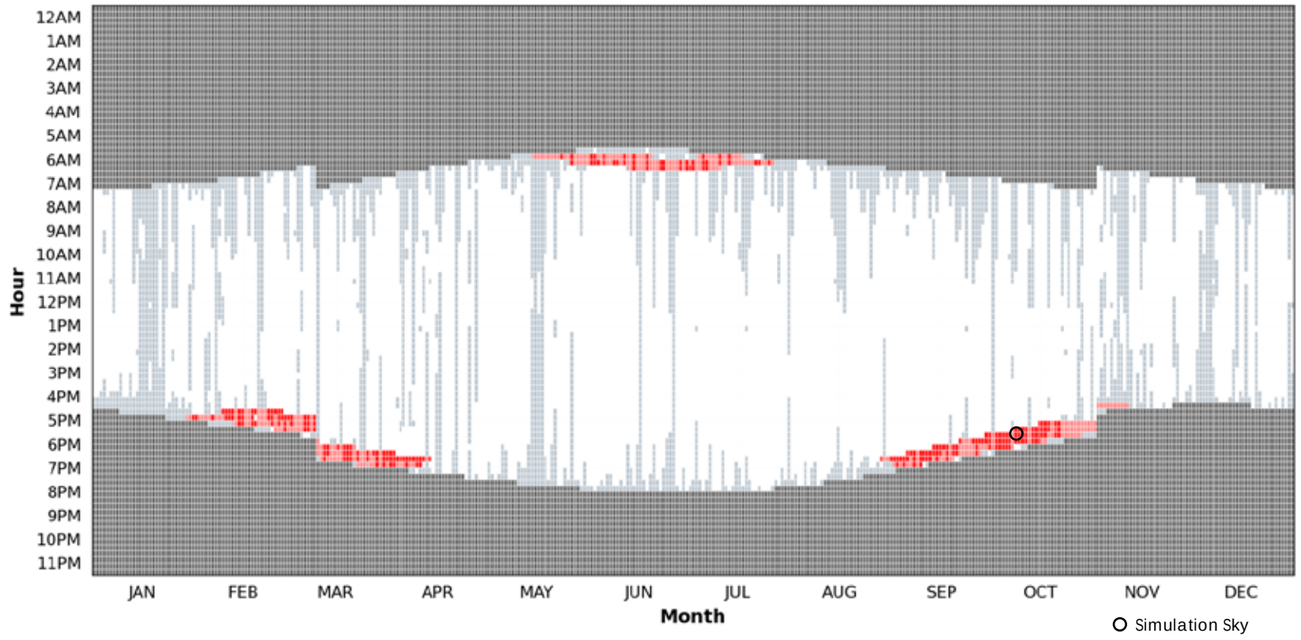
05 : Eastbound Holly St. approaching Industrial Rd.

Area of Glazing that will have visible reflections in Red - see annual graph

Annual Visual Reflection Potential :: SFO TMY filtered - 15 min. increments



Google Maps Street View at Approximate View Location

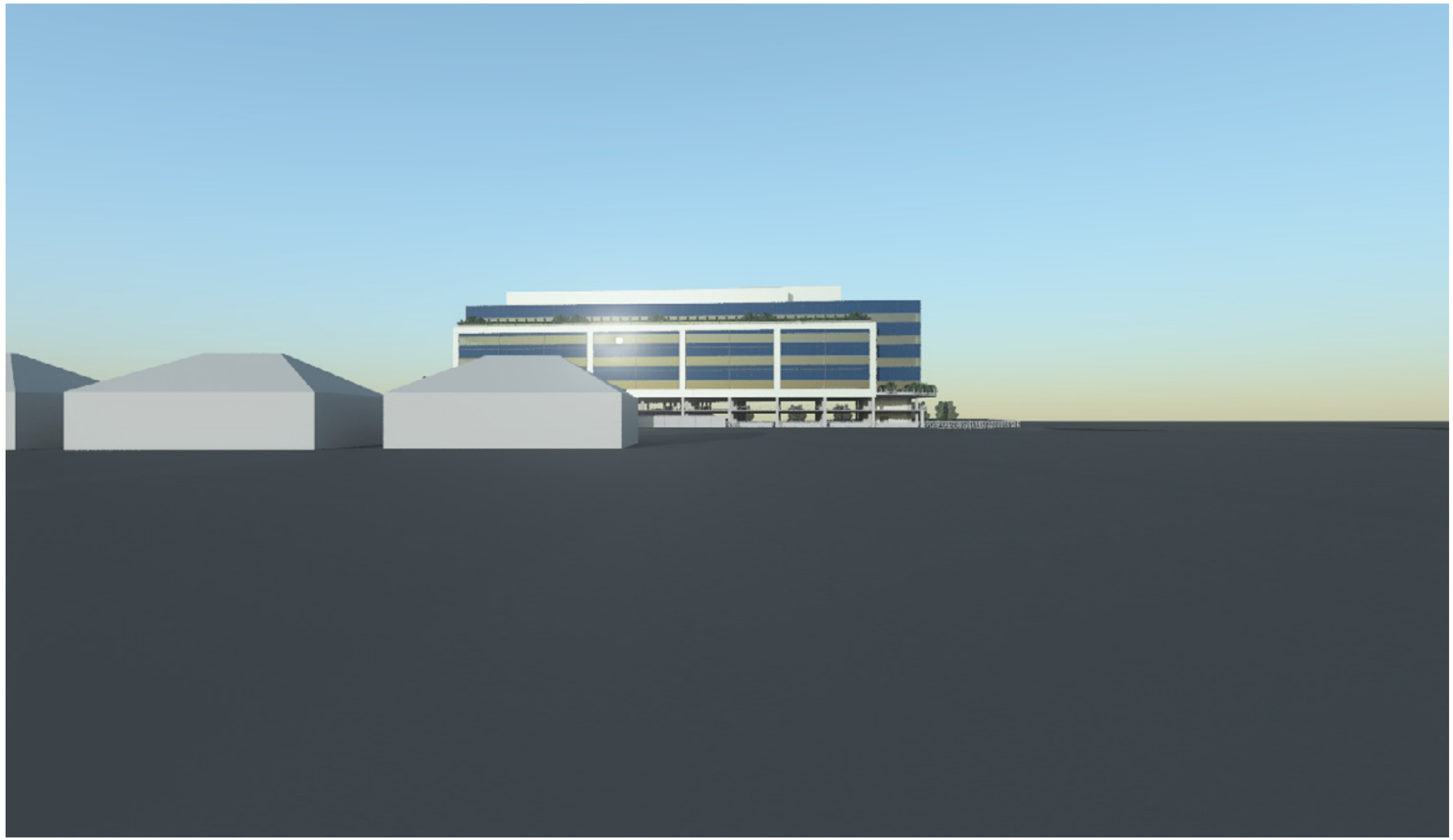
Annual Hours	TMY : Clear + Intermediate Skies	TMY: Overcast Skies
Visible Reflections	60.25	72.25
Total TMY	3280	1073

At this view location, reflections of the Sun in the building's SE elevation may be visible briefly May through July 30-45 minutes after sunrise.

Reflections of the Sun in the building's SW elevation may be visible during Feb., Mar., Apr. and Sept., Oct., Nov. during the last hour before sunset.

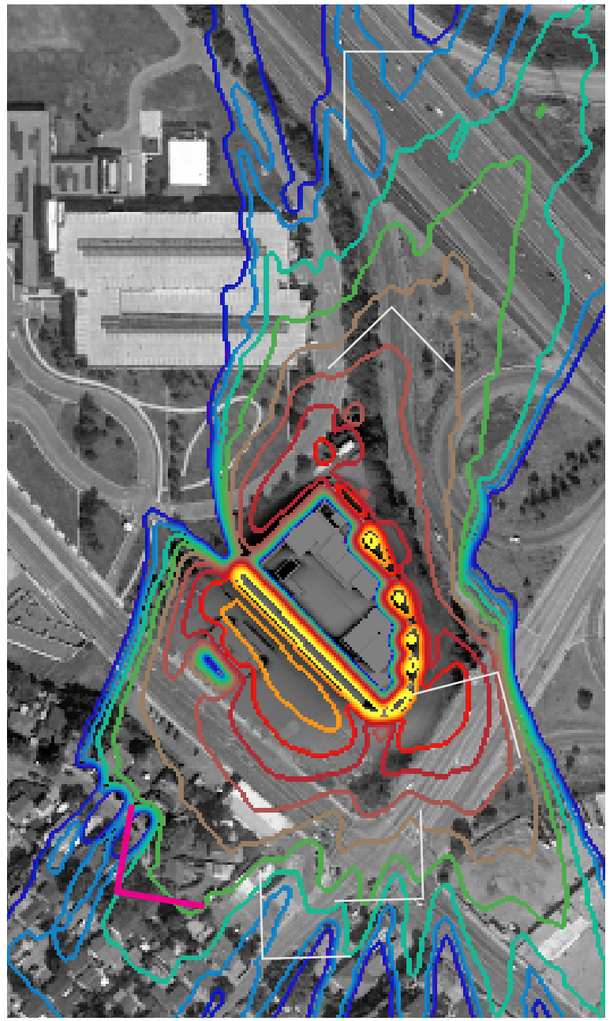
The trees at the corner of the intersection that will obscure most of the AM reflections are not modeled.

Human Adaptation with Veiling Glare

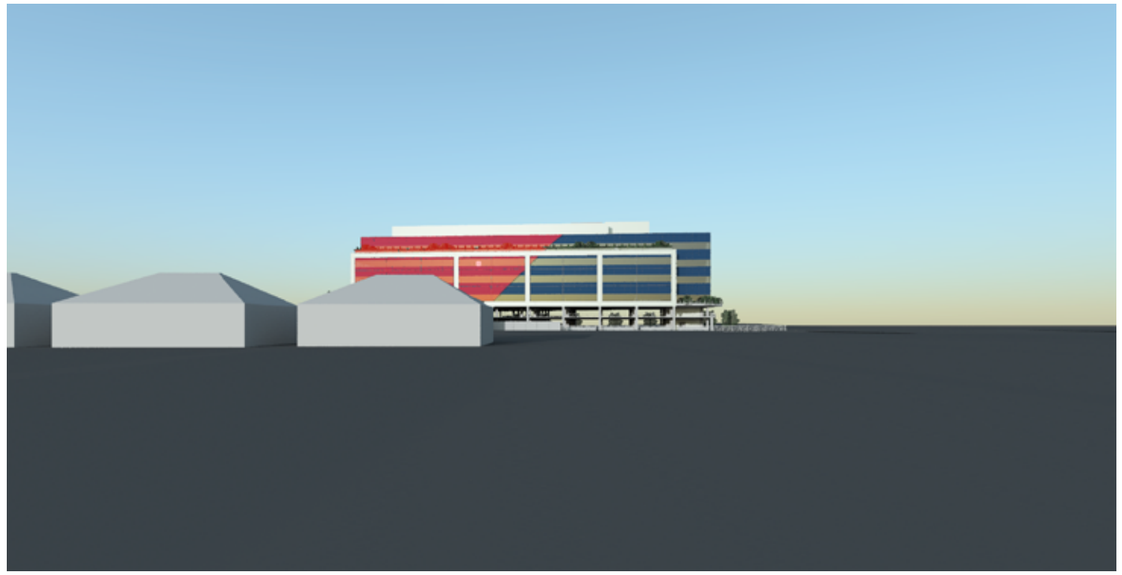


Nov. 17th, 4:15 pm PST

View Locations :: SFO TMY underlay

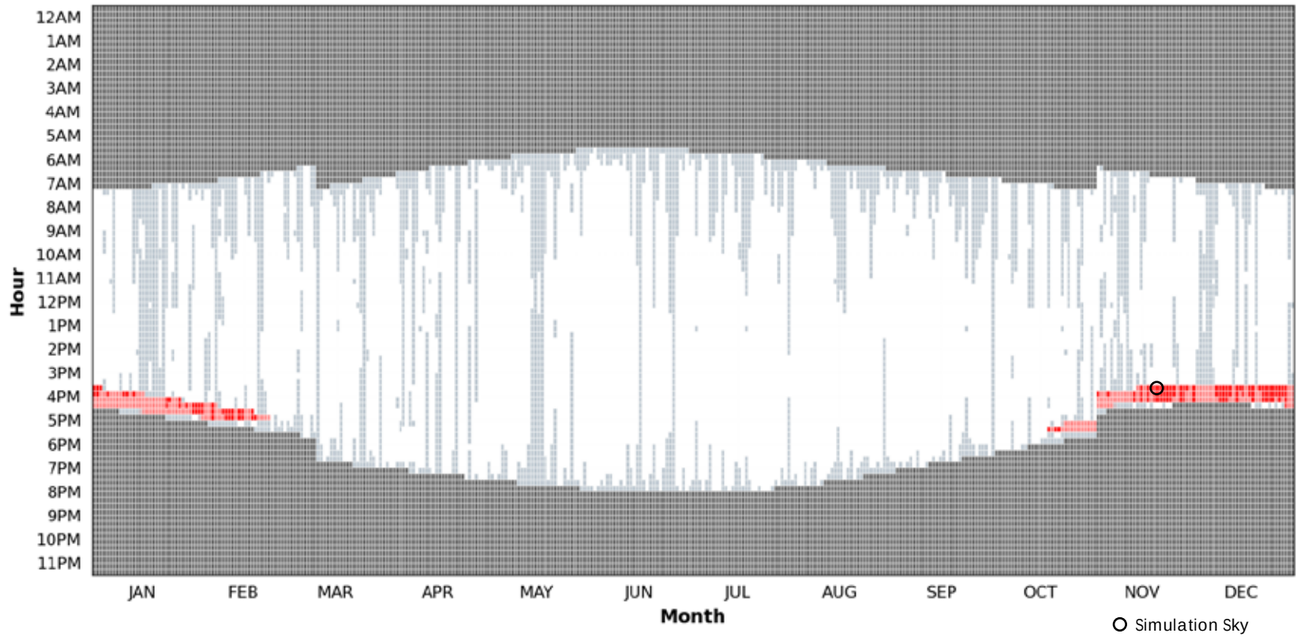


Area of Glazing that will have visible reflections in Red - see annual graph



Google Maps Street View at Approximate View Location

Annual Visual Reflection Potential :: SFO TMY filtered - 15 min. increments



Annual Hours	TMY : Clear + Intermediate Skies	TMY: Overcast Skies
Visible Reflections	34.5	55.75
Total TMY	3280	1073

At this view location, reflections of the Sun in the building's SW elevation may be visible Oct. through Feb. during the last hour before sunset.

Trees and the neighborhood buildings (excluding the 3 shown along Fairfield Dr.) that will obscure many of the reflections are not modeled.

Light Emanating from Within the Building at Night

Typical Electric Light Egress + Glare

Light Emanating from a building can be problematic when the electrically lit interior surfaces and light fixtures can be seen from outside.

Typical open office fixture selection, poor roller shades fabric selection, and manual shade control exacerbate the issue.

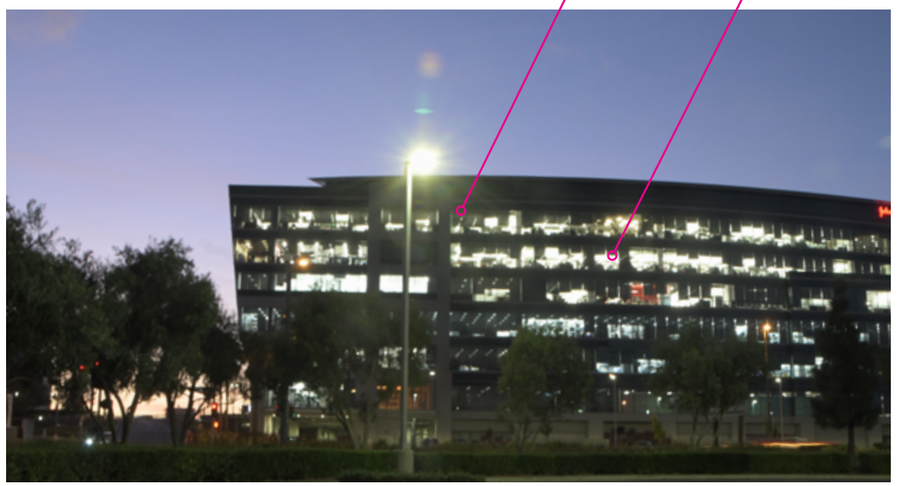
Exterior feature lighting, site lighting, and street lights are all potential sources of glare.

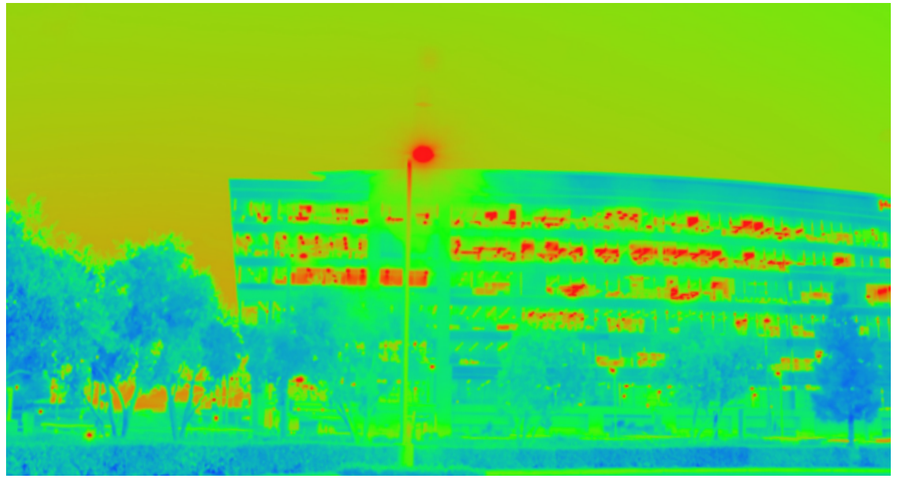
Interior Shades are effective at blocking Light Trespass, when used

Direct Views to Light Fixtures

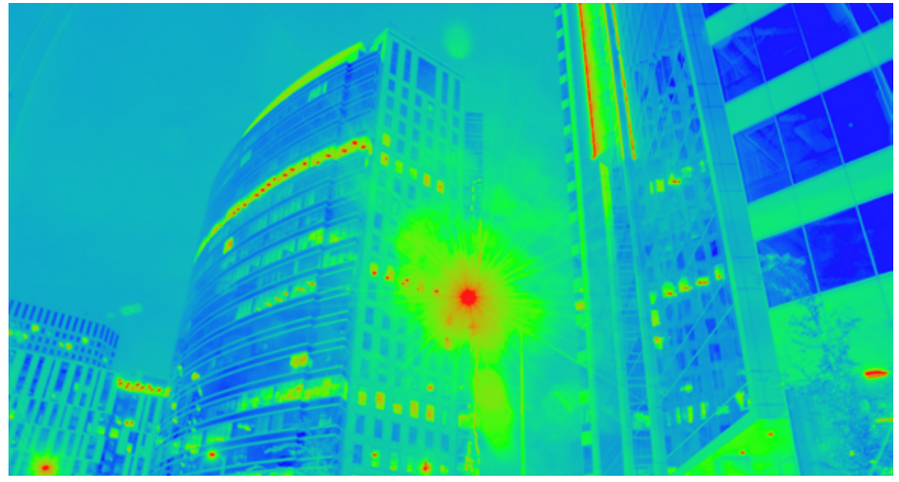
Exterior Lighting

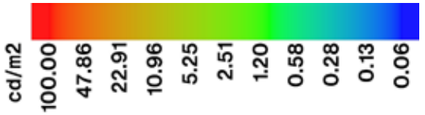
Sunnyvale





Oakland





Typical Electric Light Egress + Glare

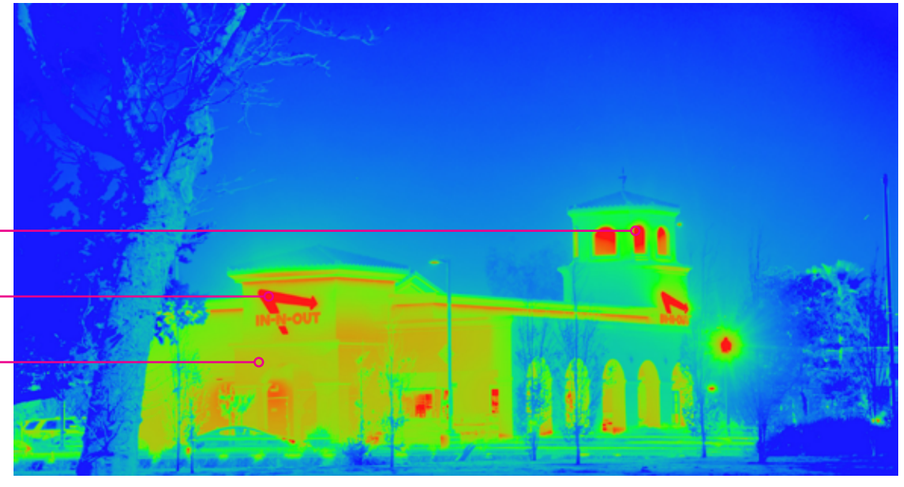
If you can see the light source directly, the building may be considered a source of glare. Exterior commercial, landscape, or street lighting often exceeds (by multiples if not orders of magnitude) the brightness or luminance value of the outside surface of carefully selected interior roller shades.

Nuisance Glare from Electric Lighting at night can come from contrast (bright surfaces close to dark surfaces) such overly lit exterior walls against a dark sky.

Discomfort Glare is possible with surfaces that

For reference, a computer monitor is typically between 300-400 cd/m^2 for white in its brightest setting.

In-N-Out Alameda



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Mitigating Electric Light Egress + Glare

Carefully selected interior roller shades can reduce or eliminate Light Egress + Glare. Shade fabric colors, openness, and automation are recommended for this project.

This building uses a shade fabric (weave, openness, and color) that meet our recommendations. It also employs motorized automation that also meets our

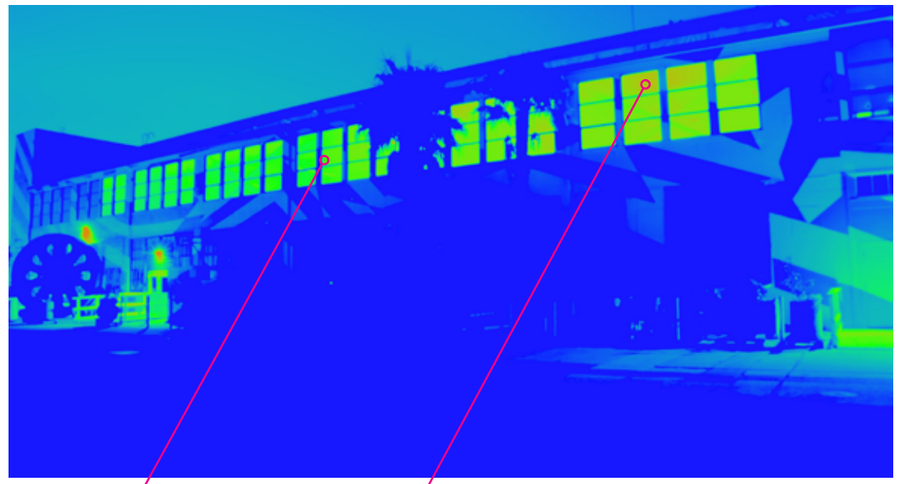
With automated roller shades, the luminance or brightness of the building is markedly decreased. The resulting luminance levels of less than 20 candelas per meter squared (cd/m^2) cannot be considered to cause problems of light egress or glare.

Even “low-glare” fixtures can be bright

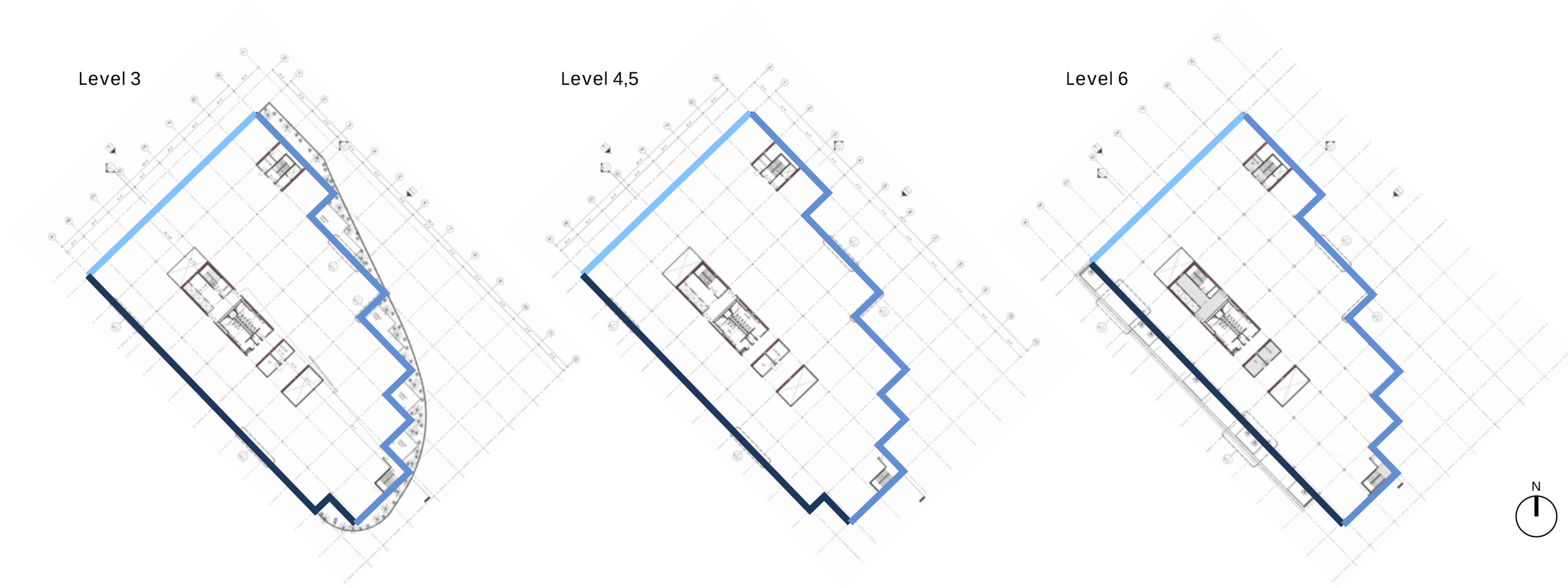
View of fixture screened by shade

Roller Shades Retracted

Roller Shades Deployed



405 Industrial rd. : Glare Study
2021.11.18



1% openness : Ecoveil or Soho, see following pages

3% openness w/ seats perpendicular to facade, 1% w/ faces or backs to facade : Ecoveil or Soho, see following pages

3% openness : Ecoveil or Soho, see following pages

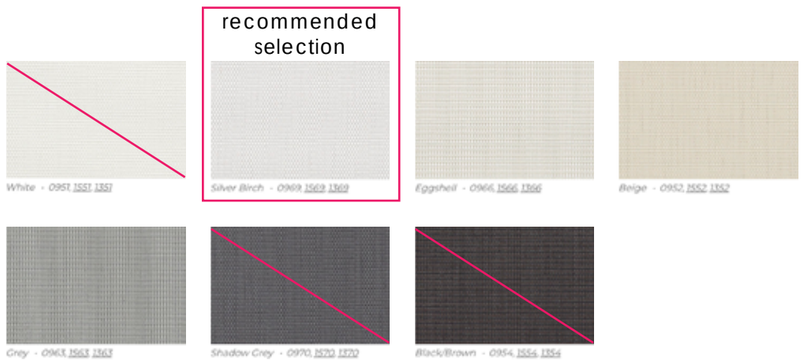
Interior Roller Shade Recommendation : Fabric and Color

Shade Fabric recommendations balance daylight contribution (light transmission) with visual comfort (solar and glare control) and the reduction of electric light trespass during night hours in terms of the shade as a luminous surface, view to light fixtures through the fabric and light transmission through the fabric.

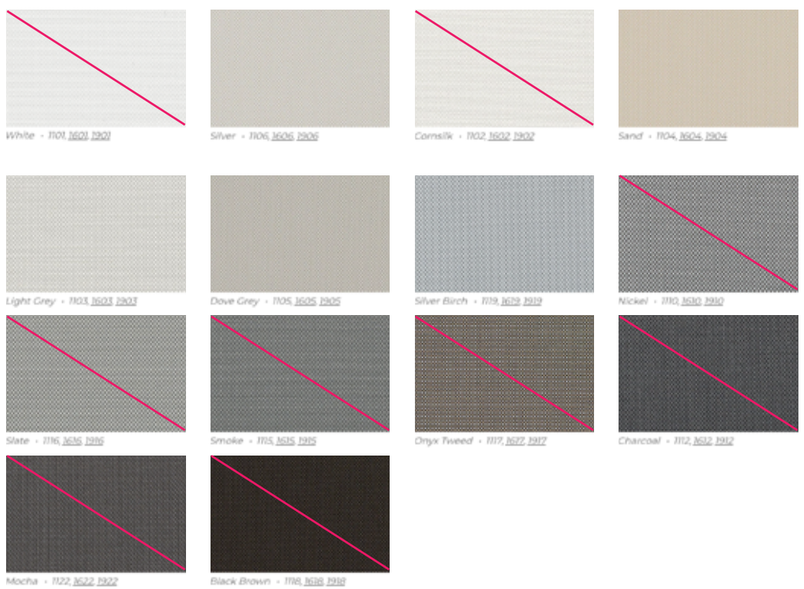
The previous page provided recommendations for openness factor by orientation. This page provides color options with comparable performance for each fabric line. We recommend Ecoveil Silver birch as the best balance of the performance criteria for this project, however Soho is a very high performing weave and the color options (not crossed through) also balance performance criteria extremely well.

It must be understood that other manufacturers with similar colors and openness factors will not necessarily achieve the same performance. The shade material, color processes and weave structure are all integral to the shade's ability to provide the performance required.

If an alternate fabric is proposed, we can analyze the comparative performance relative to this recommendation.



https://www.mechoshade.com/products/shadecloth/sustainability-and-performance/#ecoveil



https://www.mechoshade.com/products/shadecloth/solar-collections/#soho

EcoVeil® Screens 0950 Series, 1550 Series, 1350 Series

> This series has a basket-weave design and is a truly eco-effective solar sunscreen. As a Cradle to Cradle Certified℠ product, it can be reclaimed, recycled, and remain in a perpetual loop of continuous use.

Specifications

- **Content:** 100% Thermoplastic Olefin (TPO)
- **Stocked:** 126" wide
- **Railroading Avaialble:** No
- **Fire Classification:** NFPA 701
- **Disinfect with:** Hydrogen Peroxide solution. See full disinfecting options here.
- **Acoustic Performance:** 0950 Series: 0.60 NRC/0.58 SAA • 1550 Series: 0.35 NRC/0.38 SAA • 1350 Series: negligible
- **Mesh Weight:** 0950 Series: 13.27 oz/yd² • 1550 Series: 13.57 oz/yd² • 1350 Series: 12.68 oz/yd²
- **Fabric Thickness:** 0950 Series: 0.034 in • 1550 Series: 0.034 in • 1350 Series: 0.034 in

NFPA 701 · GREENGUARD · PVC-Free · Recyclable · Cradle to Cradle · Material Health · hpd

SoHo 1100 Series, 1600 Series, 1900 Series

> This collection features thin, finely woven yarns in a 2 x 2 basket weave pattern with a soft hand and smooth texture to create elegant solutions for any project.

Specifications

- **Content:** 76% PVC and 24% polyester
- **Stocked:** 126" wide
- **Railroading Avaialble:** Yes
- **Fire Classification:** NFPA 701
- **Bacterial and Fungal Resistance:** ASTM G21 & ASTM E2180
- **Disinfect with:** Hydrogen Peroxide solution. See full disinfecting options here.
- **Acoustic Performance:** 1100 Series: 0.60 NRC/0.64 SAA • 1600 Series: 0.25 NRC/0.29 SAA • 1900 Series: negligible
- **Mesh Weight:** 1100 Series: 14.70 oz/yd² • 1600 Series: 13.50 oz/yd² • 1900 Series: 12.68 oz/yd²
- **Fabric Thickness:** 1100 Series: 0.026 in • 1600 Series: 0.024 in • 1900 Series: 0.024 in

NFPA 701 · GREENGUARD · hpd

To maximize daylight harvesting, maintain views, and limit electric light emanating from the building at night, we recommend roller shade automation that is responsive to sky conditions and solar position.

Roller shade automation in addition to occupancy sensors for the interior electric lights will minimize the electric light trespass during nighttime hours.

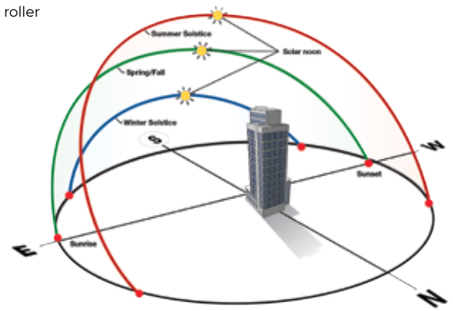
https://www.mechoshade.com/products/control-systems/automated-controls/solartrac/

SolarTrac®

The ultimate WindowManagement® control system

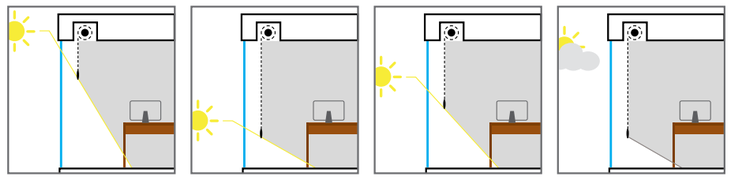
An intelligent controller that:

- Automatically and incrementally adjusts roller shades and other window treatments.
- Calculates sun angles and BTU loads on every inch of glass.
- Evaluates real-time sky conditions on a minute-by-minute basis.
- Minimizes solar-heat gain.
- Optimizes natural light and avoids glare.
- Interacts with lighting and HVAC.
- Maximizes views to the outside.
- Promotes wellness
- Fosters sustainability
- Offers optional Brightness-Override, Shadow-Override, and Reflective Modules for greater optimization.
- Facilitates peak-demand load-shedding strategies



This representation shows the dynamic sun and how its light impacts a building. SolarTrac calculates and matches the ASHRAE Clear-Sky model to effectively adjust shades.

Allowable Solar Penetration



June 21
Shadecloth Position: 1

Peak solar altitudes during the year on the south elevation, 40° north latitude. SolarTrac system preset to five or more positions plus user-defined solar penetration (3 ft./91cm shown here).

December 21
Shadecloth Position: 3

March 21 / September 21
Shadecloth Position: 2

Pre-defined shade position is set for the sun angle in the spring or the fall at 5 ft./152cm.

Overcast Sky
Shadecloth Position: 3

In the glare mode, the shade provides protection from the glare of a bright sky while offering a view to the outside.

Mecho
INNOVATIVE DESIGN.
TRUSTED PERFORMANCE.

(718) 729-2020
mechoshade.com

M18037.08_SolarTrac

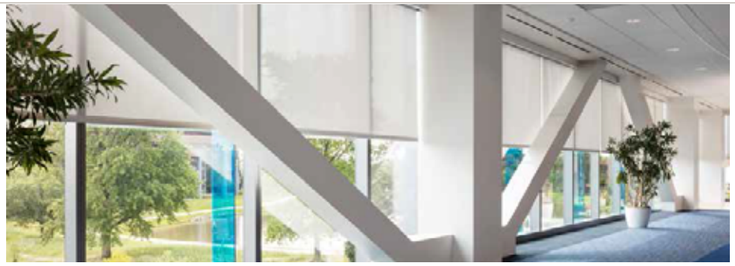
1

AUTOMATION SYSTEMS

Mecho Automation Systems

Mecho provides three tiers of automation shading systems to maximize daylight and energy savings. So regardless of project size, Mecho has the versatility to provide solutions for a single room, individual floor, a building or an entire campus.

CAMPUS AND BUILDING



SolarTrac 4.0®

SolarTrac 4.0® is Mecho's state-of-the-art, scalable software solution for shade automation. Its patented algorithms use ASHRAE models and three roof-mounted radiometers to proactively measure the sun and sky conditions for the total electromagnetic spectrum—not just visible light.

Designed to maximize the natural daylight in your building, increase energy efficiency across multiple glass facades, ensure occupant comfort and performance.

Precise Shading Control

- Incorporates an open BACNet certified system that works with all major building management systems for peak building efficiency and control. Certified to meet ASHRAE Standard 135.
- Manage 1,000 or more shade zones, with continuous minute/day/year analysis to control a comprehensive automated shading system for the entire project no matter the size.
- Allows for manual override + recapture on any individual shade or shade zone (conference rooms, dwelling units or healthcare facilities). Overrides are based on occupant preferences, timed events or when blackout shades supersedes automation.

Technology-Driven Performance

- SolarTrac 4.0 software allows management by multiple users onsite or remotely, via computer or mobile device. The user friendly interface features an interactive floor plan.
- Self-diagnostics alert you to potential maintenance needs.
- Data logging allowing the ability to fine tune the system over time.
- Supports POE technology, the first automation system to embrace IOT operation on an all low voltage infrastructure.

MECHOSHADE.COM

M20008.1_Automation Systems

SQL CALUCP Review and Response

L+U reviewed the ***Comprehensive Airport Land Use Compatibility Plan for the Environs of San Carlos Airport - Oct. '15*** for any applicable regulations relating to building generated glare from reflections and electric light trespass from the interior of the building. Below you will find the relevant excerpts and our response to the right, based on the detailed analysis in this report and our specialized knowledge in this field.

SQL CALUCP

Table 4-2 (Section 4, Page 3)
Safety Compatibility Factor : 1996 CLUP/ALUCP

The 1996 CLUP does not propose specific intensity or density limits as they relate to nonresidential or residential uses. The Plan discourages certain types of uses that could pose safety hazards to aircraft in flight, for example:

- Any use that would cause glare

Exhibit 4-3 San Carlos Airport Safety Zones

Zone 2 – Inner Approach/Departure Zone
Zone 3 – Inner Turning
Zone 4 – Outer Approach/Departure Zone
Zone 6 – Traffic Pattern Zone

Exhibit 4-4 San Carlos Airport Part 77 Airspace Protection Surfaces

Table 4-4 SAFETY COMPATIBILITY CRITERIA

NOTES:
Y – COMPATIBLE: Uses or activities are compatible with airport operations and are permitted, however, these activities should be reviewed to ensure that they will not create height hazard obstructions, smoke, glare, electronic, wildlife attractants, or other airspace hazards. Noise, airspace protection, and/or overflight policies may still apply.

Airspace Protection Policy 6 – Other Flight Hazards are Incompatible (Section 4, Page 36)

Specific characteristics which are incompatible and should be avoided include:
1. Sources of glare, such as highly reflective buildings or building features, or bright lights, including search lights or laser displays, which would interfere with the vision of pilots making approaches to San Carlos Airport;

Other Federal Airspace Protection Guidance (Section D, Page 9)

Additional guidelines regarding protection of airport airspace are set forth in other FAA documents. In general, these criteria specify that no use of land or water anywhere within the boundaries encompassed by FAR Part 77 should be allowed if it could endanger or interfere with the landing, take off, or maneuvering of an aircraft at an airport (FAA–1987). Specific characteristics to be avoided include:

- Glare in the eyes of pilots using the airport;

Please note, no lighting design (fixture selection, output, and layout) has been provided for our review and our comments assume a typical lighting design providing 30-40 FC on the workplane through direct or direct/indirect light sources, occupancy sensors as required by local and state codes, and all exterior signage and site lighting (and all applicable regulations the SQL-CALUCP) are excluded from our comments and should be addressed directly by the lighting designer.

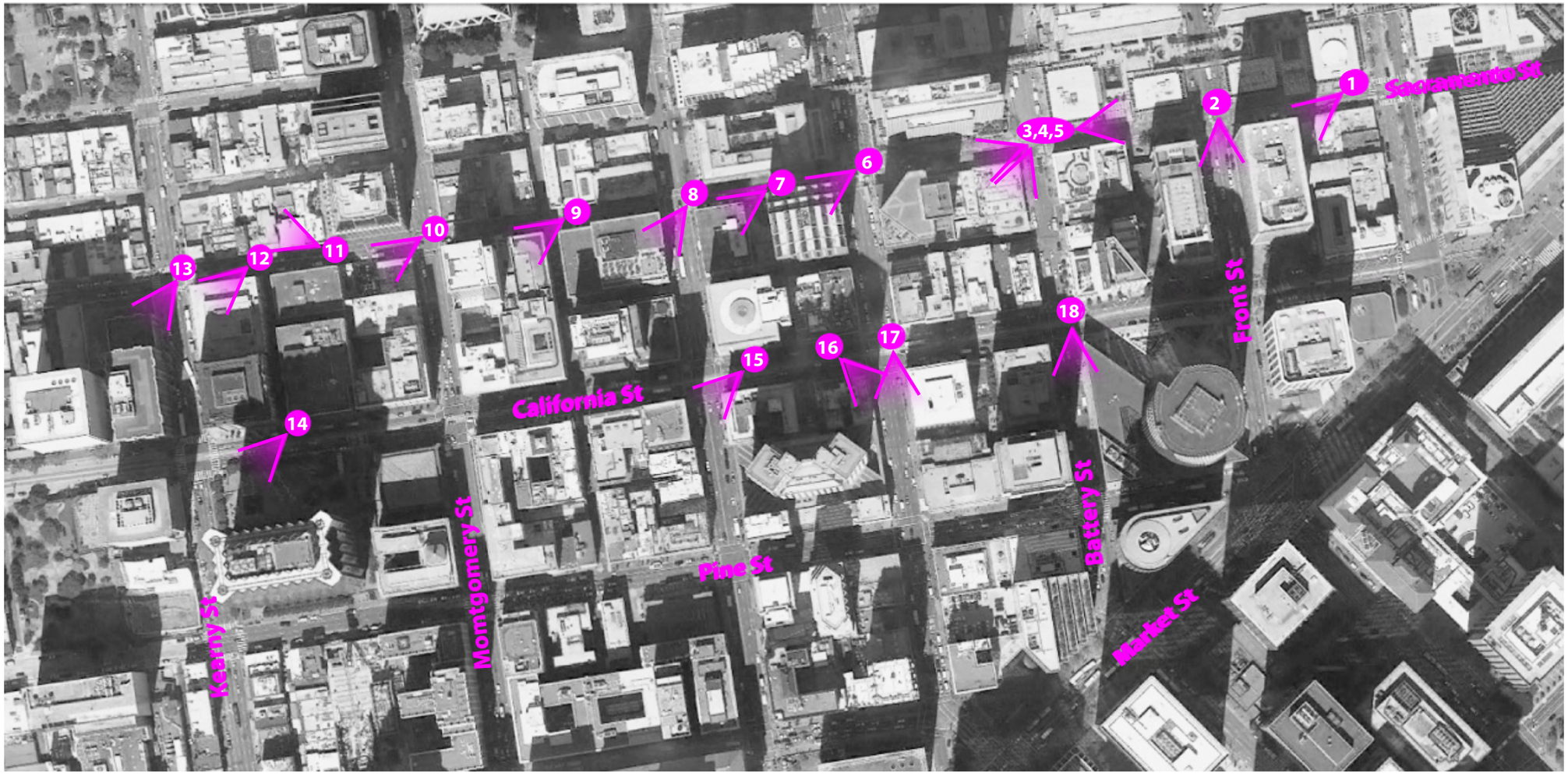
Since the project's glazed area is flat and vertical, no reflections will be visible from above the project's building height. The provided project documentation did not include any photovoltaic panels, any future PV layout should be reviewed for glare contribution separately.

Based on our analysis (assumptions listed p.1) ***no reflections (glare) are expected to be visible from the SQL runways or approach paths*** or to enter the Protection Surfaces diagramed in **Exhibit 4-4**. Reflections will be visible in **Safety Zone 6** and may be visible briefly at the ground level directly under **Safety Zones 2,3, and 4** as diagramed in **Exhibit 4-3**.

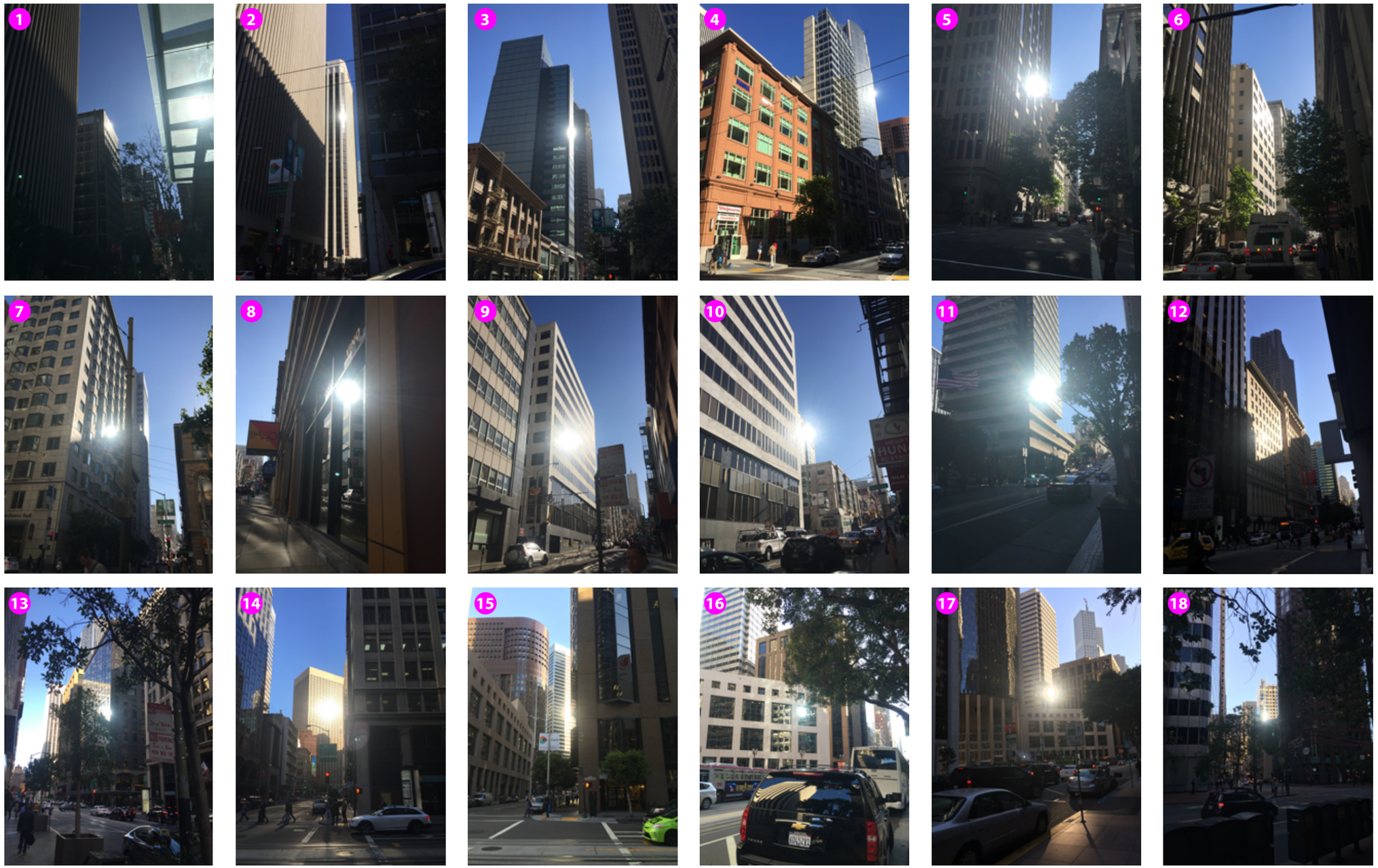
The glass types specified and included in our analysis have a visual exterior reflectance of 14%. While all glass has some exterior reflectance, this is not considered a "highly reflective building" by most standards **- Airspace Protection Policy 6.**

Appendix

Typical Sunlight Reflections : San Francisco



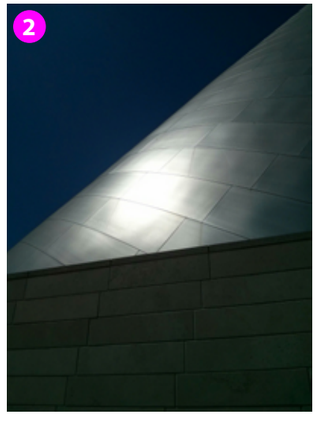
Typical Sunlight Reflections : San Francisco

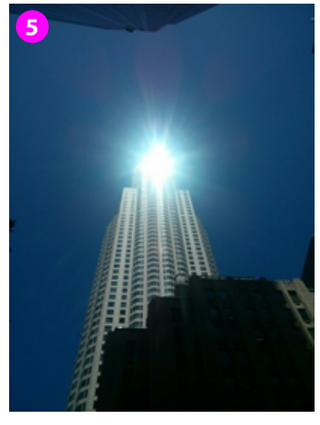


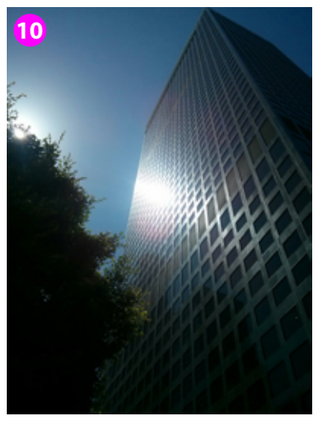
405 Industrial rd. : Glare Study
2021.11.18

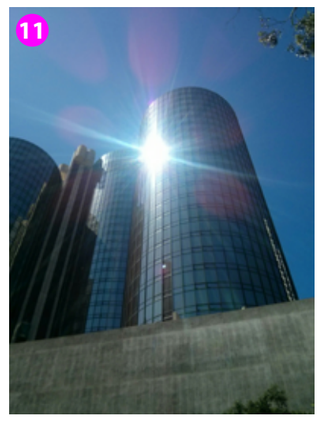

1
2
3
4
5
6
7
8
9
10
11
S Figueroa St
W 1st St
W 2nd St
W 4th St
W 5th St
W 6th St
7th St
S Hope St
S Grand Av
S Hill St

Typical Sunlight Reflections : Los Angeles









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405 Industrial Road Life Science Project IS/MND

Appendix B: Air Quality, Health Risk Assessment, Energy, and Greenhouse Gas Materials

Appendix B.1: Unmitigated CalEEMod Output Files
Appendix B.2: Mitigated CalEEMod Output Files
Appendix B.3: Health Risk Assessment Methodology
Appendix B.4: Health Risk Assessment Results
Appendix B.5: AERMOD Output Files

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405 Industrial Road Life Science Project IS/MND

Appendix B.1: Unmitigated CalEEMod Output Files

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405 Industrial Road Project Conditions - San Mateo County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

405 Industrial Road Project Conditions

San Mateo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Research & Development	205.27	1000sqft	1.18	205,273.00	0
Enclosed Parking with Elevator	116.61	1000sqft	0.00	116,611.00	0
Parking Lot	53.83	1000sqft	1.24	53,833.00	0
Unenclosed Parking Structure	89.79	1000sqft	0.00	89,789.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	70
Climate Zone	5			**Operational Year**	2024
Utility Company	Peninsula Clean Energy				
CO2 Intensity (lb/MWhr)	0	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - MIG modeler KK

Land Use - Land use and building information from project applicant.

Construction Phase - Construction schedule provided by applicant

Off-road Equipment - default

Off-road Equipment - Equipment information modified to reflect project conditions

Off-road Equipment -

Off-road Equipment - Equipment information modified to reflect project conditions

Off-road Equipment - Default equipment

Off-road Equipment - default equipment

405 Industrial Road Project Conditions - San Mateo County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-road Equipment - Equipment modified to reflect project characteristics

Off-road Equipment -

Off-road Equipment - Equipment information modified to reflect project conditions

Off-road Equipment -

Off-road Equipment - Equipment information modified to reflect project characteristics

Trips and VMT - Truck hauling trips from site preparation are from applicant. Remaining values are default.

Demolition - Demolition of existing 55,000 sqft storage building

Grading - Material exported from project applicant. Remaining values are caleemod defaults.

Vehicle Trips - Trip rates modified based on information in Hexagon traffic report.

Vehicle Emission Factors - EMFAC2021 San Mateo 2024

Vehicle Emission Factors - EMFAC2021 San Mateo 2024

Vehicle Emission Factors - EMFAC2021 San Mateo 2024

Woodstoves -

Area Coating -

Construction Off-road Equipment Mitigation - Site watering twice a day

Stationary Sources - Emergency Generators and Fire Pumps - One emergency generator added to default

Stationary Sources - Process Boilers -

Stationary Sources - User Defined -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	102,637.00	106,806.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	307,910.00	320,418.00
tblArchitecturalCoating	ConstArea_Parking	15,614.00	14,635.00
tblAreaCoating	Area_Nonresidential_Exterior	102637	106806
tblAreaCoating	Area_Nonresidential_Interior	307910	320418
tblAreaCoating	Area_Parking	15614	14635
tblConstructionPhase	NumDays	220.00	82.00
tblConstructionPhase	NumDays	220.00	72.00
tblConstructionPhase	NumDays	220.00	130.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	6.00	10.00
tblConstructionPhase	NumDays	10.00	60.00
tblConstructionPhase	NumDays	3.00	45.00
tblConstructionPhase	NumDays	3.00	35.00
tblConstructionPhase	NumDays	3.00	20.00
tblGrading	MaterialExported	0.00	49,600.00
tblLandUse	LandUseSquareFeet	205,270.00	205,273.00
tblLandUse	LandUseSquareFeet	116,610.00	116,611.00
tblLandUse	LandUseSquareFeet	53,830.00	53,833.00
tblLandUse	LandUseSquareFeet	89,790.00	89,789.00
tblLandUse	LotAcreage	4.71	1.18
tblLandUse	LotAcreage	2.68	0.00
tblLandUse	LotAcreage	2.06	0.00
tblOffRoadEquipment	HorsePower	89.00	367.00
tblOffRoadEquipment	LoadFactor	0.20	0.48
tblOffRoadEquipment	UsageHours	7.00	3.50
tblSolidWaste	SolidWasteGenerationRate	15.60	16.23
tblTripsAndVMT	HaulingTripNumber	6,200.00	8,268.00
tblTripsAndVMT	VendorTripNumber	76.00	75.00
tblTripsAndVMT	VendorTripNumber	76.00	75.00
tblTripsAndVMT	VendorTripNumber	76.00	75.00
tblTripsAndVMT	VendorTripNumber	76.00	75.00
tblTripsAndVMT	VendorTripNumber	76.00	75.00
tblTripsAndVMT	WorkerTripNumber	35.00	34.00
tblTripsAndVMT	WorkerTripNumber	175.00	171.00
tblTripsAndVMT	WorkerTripNumber	175.00	171.00
tblTripsAndVMT	WorkerTripNumber	175.00	171.00
tblTripsAndVMT	WorkerTripNumber	175.00	171.00

405 Industrial Road Project Conditions - San Mateo County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblTripsAndVMT	WorkerTripNumber	175.00	171.00
tblVehicleEF	HHD	0.03	0.27
tblVehicleEF	HHD	0.17	0.26
tblVehicleEF	HHD	3.0000e-006	1.0000e-006
tblVehicleEF	HHD	5.25	4.67
tblVehicleEF	HHD	0.93	1.67
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	944.14	782.39
tblVehicleEF	HHD	1,618.63	1,785.76
tblVehicleEF	HHD	0.26	0.29
tblVehicleEF	HHD	0.15	0.13
tblVehicleEF	HHD	0.26	0.29
tblVehicleEF	HHD	3.0000e-006	1.0000e-006
tblVehicleEF	HHD	5.30	4.03
tblVehicleEF	HHD	3.11	2.65
tblVehicleEF	HHD	2.39	2.71
tblVehicleEF	HHD	3.9570e-003	3.2460e-003
tblVehicleEF	HHD	0.06	0.09
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	2.0000e-006	5.0000e-006
tblVehicleEF	HHD	3.7860e-003	3.1010e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.7110e-003	8.6250e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	2.0000e-006	4.0000e-006
tblVehicleEF	HHD	4.0000e-006	7.3600e-004
tblVehicleEF	HHD	1.8800e-004	2.1400e-004
tblVehicleEF	HHD	0.36	0.29

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	HHD	3.0000e-006	0.00
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.7000e-005	1.9900e-004
tblVehicleEF	HHD	1.4000e-005	3.0000e-006
tblVehicleEF	HHD	8.4280e-003	6.5500e-003
tblVehicleEF	HHD	0.01	0.02
tblVehicleEF	HHD	4.0000e-006	7.3600e-004
tblVehicleEF	HHD	1.8800e-004	2.1400e-004
tblVehicleEF	HHD	0.42	0.59
tblVehicleEF	HHD	3.0000e-006	0.00
tblVehicleEF	HHD	0.21	3.0000e-006
tblVehicleEF	HHD	8.7000e-005	1.9900e-004
tblVehicleEF	HHD	1.6000e-005	3.0000e-006
tblVehicleEF	HHD	0.03	0.27
tblVehicleEF	HHD	0.17	0.26
tblVehicleEF	HHD	3.0000e-006	1.0000e-006
tblVehicleEF	HHD	5.15	4.60
tblVehicleEF	HHD	0.93	1.68
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	939.25	778.30
tblVehicleEF	HHD	1,618.64	1,785.77
tblVehicleEF	HHD	0.26	0.29
tblVehicleEF	HHD	0.15	0.13
tblVehicleEF	HHD	0.26	0.29
tblVehicleEF	HHD	3.0000e-006	1.0000e-006
tblVehicleEF	HHD	5.14	3.91
tblVehicleEF	HHD	3.00	2.55
tblVehicleEF	HHD	2.39	2.71
tblVehicleEF	HHD	3.4070e-003	2.8130e-003

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	HHD	0.06	0.09
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	2.0000e-006	5.0000e-006
tblVehicleEF	HHD	3.2590e-003	2.6850e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.7110e-003	8.6250e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	2.0000e-006	4.0000e-006
tblVehicleEF	HHD	9.0000e-006	1.0620e-003
tblVehicleEF	HHD	2.0300e-004	2.3400e-004
tblVehicleEF	HHD	0.38	0.30
tblVehicleEF	HHD	5.0000e-006	0.00
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.3000e-005	2.0200e-004
tblVehicleEF	HHD	1.3000e-005	3.0000e-006
tblVehicleEF	HHD	8.3810e-003	6.5110e-003
tblVehicleEF	HHD	0.01	0.02
tblVehicleEF	HHD	9.0000e-006	1.0620e-003
tblVehicleEF	HHD	2.0300e-004	2.3400e-004
tblVehicleEF	HHD	0.44	0.61
tblVehicleEF	HHD	5.0000e-006	0.00
tblVehicleEF	HHD	0.21	2.0000e-006
tblVehicleEF	HHD	8.3000e-005	2.0200e-004
tblVehicleEF	HHD	1.4000e-005	3.0000e-006
tblVehicleEF	HHD	0.03	0.27
tblVehicleEF	HHD	0.17	0.26
tblVehicleEF	HHD	3.0000e-006	1.0000e-006
tblVehicleEF	HHD	5.39	4.77

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	HHD	0.93	1.67
tblVehicleEF	HHD	0.04	0.03
tblVehicleEF	HHD	950.91	788.03
tblVehicleEF	HHD	1,618.62	1,785.75
tblVehicleEF	HHD	0.27	0.30
tblVehicleEF	HHD	0.15	0.13
tblVehicleEF	HHD	0.26	0.29
tblVehicleEF	HHD	3.0000e-006	1.0000e-006
tblVehicleEF	HHD	5.53	4.20
tblVehicleEF	HHD	3.16	2.69
tblVehicleEF	HHD	2.39	2.71
tblVehicleEF	HHD	4.7170e-003	3.8450e-003
tblVehicleEF	HHD	0.06	0.09
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	2.0000e-006	5.0000e-006
tblVehicleEF	HHD	4.5130e-003	3.6740e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.7110e-003	8.6250e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	2.0000e-006	4.0000e-006
tblVehicleEF	HHD	2.0000e-006	6.6900e-004
tblVehicleEF	HHD	1.9600e-004	2.0200e-004
tblVehicleEF	HHD	0.33	0.27
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	9.8000e-005	2.0800e-004
tblVehicleEF	HHD	1.5000e-005	3.0000e-006
tblVehicleEF	HHD	8.4940e-003	6.6030e-003

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	HHD	0.01	0.02
tblVehicleEF	HHD	2.0000e-006	6.6900e-004
tblVehicleEF	HHD	1.9600e-004	2.0200e-004
tblVehicleEF	HHD	0.39	0.57
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	0.21	3.0000e-006
tblVehicleEF	HHD	9.8000e-005	2.0800e-004
tblVehicleEF	HHD	1.6000e-005	3.0000e-006
tblVehicleEF	LDA	1.5500e-003	1.8160e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.49	0.57
tblVehicleEF	LDA	2.11	2.92
tblVehicleEF	LDA	231.09	246.71
tblVehicleEF	LDA	49.25	64.18
tblVehicleEF	LDA	3.7240e-003	3.8360e-003
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.16	0.23
tblVehicleEF	LDA	0.04	6.4230e-003
tblVehicleEF	LDA	1.2500e-003	1.1640e-003
tblVehicleEF	LDA	1.6730e-003	1.9790e-003
tblVehicleEF	LDA	0.02	2.2480e-003
tblVehicleEF	LDA	1.1510e-003	1.0720e-003
tblVehicleEF	LDA	1.5380e-003	1.8200e-003
tblVehicleEF	LDA	0.03	0.25
tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.03	0.00
tblVehicleEF	LDA	5.8840e-003	7.0240e-003
tblVehicleEF	LDA	0.03	0.03

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LDA	0.19	0.29
tblVehicleEF	LDA	2.2860e-003	2.4390e-003
tblVehicleEF	LDA	4.8700e-004	6.3400e-004
tblVehicleEF	LDA	0.03	0.25
tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.03	0.00
tblVehicleEF	LDA	8.5530e-003	0.31
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.21	0.32
tblVehicleEF	LDA	1.7200e-003	1.9230e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.55	0.72
tblVehicleEF	LDA	1.66	2.29
tblVehicleEF	LDA	245.41	262.46
tblVehicleEF	LDA	48.43	63.03
tblVehicleEF	LDA	3.4460e-003	3.4080e-003
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.14	0.20
tblVehicleEF	LDA	0.04	6.4230e-003
tblVehicleEF	LDA	1.2500e-003	1.1640e-003
tblVehicleEF	LDA	1.6730e-003	1.9790e-003
tblVehicleEF	LDA	0.02	2.2480e-003
tblVehicleEF	LDA	1.1510e-003	1.0720e-003
tblVehicleEF	LDA	1.5380e-003	1.8200e-003
tblVehicleEF	LDA	0.07	0.31
tblVehicleEF	LDA	0.09	0.08
tblVehicleEF	LDA	0.05	0.00
tblVehicleEF	LDA	6.4140e-003	7.3020e-003

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.16	0.24
tblVehicleEF	LDA	2.4280e-003	2.5940e-003
tblVehicleEF	LDA	4.7900e-004	6.2300e-004
tblVehicleEF	LDA	0.07	0.31
tblVehicleEF	LDA	0.09	0.08
tblVehicleEF	LDA	0.05	0.00
tblVehicleEF	LDA	9.3270e-003	0.26
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.18	0.27
tblVehicleEF	LDA	1.5050e-003	1.7690e-003
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.49	0.57
tblVehicleEF	LDA	2.42	3.35
tblVehicleEF	LDA	230.22	245.74
tblVehicleEF	LDA	49.81	64.98
tblVehicleEF	LDA	3.9420e-003	4.0870e-003
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.17	0.24
tblVehicleEF	LDA	0.04	6.4230e-003
tblVehicleEF	LDA	1.2500e-003	1.1640e-003
tblVehicleEF	LDA	1.6730e-003	1.9790e-003
tblVehicleEF	LDA	0.02	2.2480e-003
tblVehicleEF	LDA	1.1510e-003	1.0720e-003
tblVehicleEF	LDA	1.5380e-003	1.8200e-003
tblVehicleEF	LDA	0.02	0.23
tblVehicleEF	LDA	0.09	0.07
tblVehicleEF	LDA	0.01	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LDA	5.7810e-003	6.9200e-003
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.21	0.32
tblVehicleEF	LDA	2.2770e-003	2.4290e-003
tblVehicleEF	LDA	4.9300e-004	6.4200e-004
tblVehicleEF	LDA	0.02	0.23
tblVehicleEF	LDA	0.09	0.07
tblVehicleEF	LDA	0.01	0.00
tblVehicleEF	LDA	8.4030e-003	0.35
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.23	0.35
tblVehicleEF	LDT1	2.4400e-003	4.7080e-003
tblVehicleEF	LDT1	0.05	0.09
tblVehicleEF	LDT1	0.64	1.09
tblVehicleEF	LDT1	2.21	4.62
tblVehicleEF	LDT1	271.39	318.31
tblVehicleEF	LDT1	57.89	83.21
tblVehicleEF	LDT1	4.5100e-003	7.5870e-003
tblVehicleEF	LDT1	0.02	0.04
tblVehicleEF	LDT1	0.05	0.10
tblVehicleEF	LDT1	0.18	0.34
tblVehicleEF	LDT1	0.04	8.0370e-003
tblVehicleEF	LDT1	1.5140e-003	1.6830e-003
tblVehicleEF	LDT1	1.9900e-003	2.6340e-003
tblVehicleEF	LDT1	0.02	2.8130e-003
tblVehicleEF	LDT1	1.3930e-003	1.5480e-003
tblVehicleEF	LDT1	1.8300e-003	2.4220e-003
tblVehicleEF	LDT1	0.04	0.46
tblVehicleEF	LDT1	0.10	0.13

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LDT1	0.04	0.00
tblVehicleEF	LDT1	0.01	0.02
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.22	0.46
tblVehicleEF	LDT1	2.6860e-003	3.1470e-003
tblVehicleEF	LDT1	5.7300e-004	8.2300e-004
tblVehicleEF	LDT1	0.04	0.46
tblVehicleEF	LDT1	0.10	0.13
tblVehicleEF	LDT1	0.04	0.00
tblVehicleEF	LDT1	0.01	0.51
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.24	0.51
tblVehicleEF	LDT1	2.6840e-003	4.9640e-003
tblVehicleEF	LDT1	0.04	0.08
tblVehicleEF	LDT1	0.73	1.36
tblVehicleEF	LDT1	1.74	3.60
tblVehicleEF	LDT1	285.79	336.41
tblVehicleEF	LDT1	57.02	81.34
tblVehicleEF	LDT1	4.1300e-003	6.7330e-003
tblVehicleEF	LDT1	0.02	0.03
tblVehicleEF	LDT1	0.04	0.09
tblVehicleEF	LDT1	0.16	0.30
tblVehicleEF	LDT1	0.04	8.0370e-003
tblVehicleEF	LDT1	1.5140e-003	1.6830e-003
tblVehicleEF	LDT1	1.9900e-003	2.6340e-003
tblVehicleEF	LDT1	0.02	2.8130e-003
tblVehicleEF	LDT1	1.3930e-003	1.5480e-003
tblVehicleEF	LDT1	1.8300e-003	2.4220e-003
tblVehicleEF	LDT1	0.10	0.59

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LDT1	0.10	0.14
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.01	0.02
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.18	0.39
tblVehicleEF	LDT1	2.8280e-003	3.3260e-003
tblVehicleEF	LDT1	5.6400e-004	8.0400e-004
tblVehicleEF	LDT1	0.10	0.59
tblVehicleEF	LDT1	0.10	0.14
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.02	0.42
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.20	0.42
tblVehicleEF	LDT1	2.3790e-003	4.6030e-003
tblVehicleEF	LDT1	0.05	0.10
tblVehicleEF	LDT1	0.64	1.08
tblVehicleEF	LDT1	2.54	5.32
tblVehicleEF	LDT1	270.51	317.21
tblVehicleEF	LDT1	58.49	84.51
tblVehicleEF	LDT1	4.7980e-003	8.0870e-003
tblVehicleEF	LDT1	0.02	0.04
tblVehicleEF	LDT1	0.05	0.11
tblVehicleEF	LDT1	0.20	0.36
tblVehicleEF	LDT1	0.04	8.0370e-003
tblVehicleEF	LDT1	1.5140e-003	1.6830e-003
tblVehicleEF	LDT1	1.9900e-003	2.6340e-003
tblVehicleEF	LDT1	0.02	2.8130e-003
tblVehicleEF	LDT1	1.3930e-003	1.5480e-003
tblVehicleEF	LDT1	1.8300e-003	2.4220e-003

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LDT1	0.02	0.43
tblVehicleEF	LDT1	0.10	0.13
tblVehicleEF	LDT1	0.02	0.00
tblVehicleEF	LDT1	9.8730e-003	0.02
tblVehicleEF	LDT1	0.08	0.06
tblVehicleEF	LDT1	0.25	0.52
tblVehicleEF	LDT1	2.6770e-003	3.1360e-003
tblVehicleEF	LDT1	5.7900e-004	8.3600e-004
tblVehicleEF	LDT1	0.02	0.43
tblVehicleEF	LDT1	0.10	0.13
tblVehicleEF	LDT1	0.02	0.00
tblVehicleEF	LDT1	0.01	0.56
tblVehicleEF	LDT1	0.08	0.06
tblVehicleEF	LDT1	0.27	0.56
tblVehicleEF	LDT2	2.1380e-003	2.1100e-003
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.59	0.64
tblVehicleEF	LDT2	2.61	3.21
tblVehicleEF	LDT2	285.14	327.47
tblVehicleEF	LDT2	61.30	83.04
tblVehicleEF	LDT2	4.5260e-003	4.6930e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.04	0.05
tblVehicleEF	LDT2	0.21	0.27
tblVehicleEF	LDT2	0.04	7.6930e-003
tblVehicleEF	LDT2	1.3550e-003	1.2500e-003
tblVehicleEF	LDT2	1.7390e-003	2.0170e-003
tblVehicleEF	LDT2	0.02	2.6930e-003
tblVehicleEF	LDT2	1.2470e-003	1.1500e-003

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LDT2	1.5990e-003	1.8550e-003
tblVehicleEF	LDT2	0.03	0.19
tblVehicleEF	LDT2	0.08	0.06
tblVehicleEF	LDT2	0.04	0.00
tblVehicleEF	LDT2	8.2710e-003	8.0290e-003
tblVehicleEF	LDT2	0.05	0.02
tblVehicleEF	LDT2	0.24	0.32
tblVehicleEF	LDT2	2.8210e-003	3.2370e-003
tblVehicleEF	LDT2	6.0700e-004	8.2100e-004
tblVehicleEF	LDT2	0.03	0.19
tblVehicleEF	LDT2	0.08	0.06
tblVehicleEF	LDT2	0.04	0.00
tblVehicleEF	LDT2	0.01	0.35
tblVehicleEF	LDT2	0.05	0.02
tblVehicleEF	LDT2	0.26	0.35
tblVehicleEF	LDT2	2.3640e-003	2.2330e-003
tblVehicleEF	LDT2	0.05	0.06
tblVehicleEF	LDT2	0.67	0.80
tblVehicleEF	LDT2	2.05	2.52
tblVehicleEF	LDT2	298.83	344.35
tblVehicleEF	LDT2	60.29	81.78
tblVehicleEF	LDT2	4.1790e-003	4.1800e-003
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.18	0.24
tblVehicleEF	LDT2	0.04	7.6930e-003
tblVehicleEF	LDT2	1.3550e-003	1.2500e-003
tblVehicleEF	LDT2	1.7390e-003	2.0170e-003
tblVehicleEF	LDT2	0.02	2.6930e-003

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LDT2	1.2470e-003	1.1500e-003
tblVehicleEF	LDT2	1.5990e-003	1.8550e-003
tblVehicleEF	LDT2	0.08	0.24
tblVehicleEF	LDT2	0.08	0.06
tblVehicleEF	LDT2	0.06	0.00
tblVehicleEF	LDT2	8.9960e-003	8.3460e-003
tblVehicleEF	LDT2	0.04	0.02
tblVehicleEF	LDT2	0.20	0.27
tblVehicleEF	LDT2	2.9560e-003	3.4040e-003
tblVehicleEF	LDT2	5.9700e-004	8.0800e-004
tblVehicleEF	LDT2	0.08	0.24
tblVehicleEF	LDT2	0.08	0.06
tblVehicleEF	LDT2	0.06	0.00
tblVehicleEF	LDT2	0.01	0.29
tblVehicleEF	LDT2	0.04	0.02
tblVehicleEF	LDT2	0.22	0.29
tblVehicleEF	LDT2	2.0780e-003	2.0560e-003
tblVehicleEF	LDT2	0.06	0.08
tblVehicleEF	LDT2	0.59	0.63
tblVehicleEF	LDT2	3.00	3.69
tblVehicleEF	LDT2	284.30	326.44
tblVehicleEF	LDT2	62.00	83.92
tblVehicleEF	LDT2	4.7940e-003	4.9930e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.22	0.29
tblVehicleEF	LDT2	0.04	7.6930e-003
tblVehicleEF	LDT2	1.3550e-003	1.2500e-003
tblVehicleEF	LDT2	1.7390e-003	2.0170e-003

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LDT2	0.02	2.6930e-003
tblVehicleEF	LDT2	1.2470e-003	1.1500e-003
tblVehicleEF	LDT2	1.5990e-003	1.8550e-003
tblVehicleEF	LDT2	0.02	0.18
tblVehicleEF	LDT2	0.08	0.06
tblVehicleEF	LDT2	0.02	0.00
tblVehicleEF	LDT2	8.1300e-003	7.9130e-003
tblVehicleEF	LDT2	0.06	0.02
tblVehicleEF	LDT2	0.27	0.35
tblVehicleEF	LDT2	2.8120e-003	3.2270e-003
tblVehicleEF	LDT2	6.1400e-004	8.3000e-004
tblVehicleEF	LDT2	0.02	0.18
tblVehicleEF	LDT2	0.08	0.06
tblVehicleEF	LDT2	0.02	0.00
tblVehicleEF	LDT2	0.01	0.39
tblVehicleEF	LDT2	0.06	0.02
tblVehicleEF	LDT2	0.29	0.39
tblVehicleEF	LHD1	4.8690e-003	5.3230e-003
tblVehicleEF	LHD1	6.2330e-003	5.7120e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.18	0.20
tblVehicleEF	LHD1	0.54	0.73
tblVehicleEF	LHD1	1.00	2.42
tblVehicleEF	LHD1	8.66	8.42
tblVehicleEF	LHD1	766.61	763.92
tblVehicleEF	LHD1	11.40	19.31
tblVehicleEF	LHD1	7.2200e-004	5.7700e-004
tblVehicleEF	LHD1	0.04	0.04
tblVehicleEF	LHD1	0.02	0.03

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LHD1	0.05	0.04
tblVehicleEF	LHD1	0.39	0.40
tblVehicleEF	LHD1	0.27	0.41
tblVehicleEF	LHD1	8.3600e-004	6.1000e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	9.7710e-003	9.2850e-003
tblVehicleEF	LHD1	7.3860e-003	9.2260e-003
tblVehicleEF	LHD1	2.3100e-004	1.8200e-004
tblVehicleEF	LHD1	8.0000e-004	5.8400e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.4430e-003	2.3210e-003
tblVehicleEF	LHD1	7.0200e-003	8.7890e-003
tblVehicleEF	LHD1	2.1200e-004	1.6700e-004
tblVehicleEF	LHD1	1.1350e-003	0.09
tblVehicleEF	LHD1	0.05	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	7.2100e-004	0.00
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.15	0.05
tblVehicleEF	LHD1	0.06	0.10
tblVehicleEF	LHD1	8.4000e-005	8.2000e-005
tblVehicleEF	LHD1	7.4860e-003	7.4700e-003
tblVehicleEF	LHD1	1.1300e-004	1.9100e-004
tblVehicleEF	LHD1	1.1350e-003	0.09
tblVehicleEF	LHD1	0.05	0.02
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	7.2100e-004	0.00
tblVehicleEF	LHD1	0.09	0.10
tblVehicleEF	LHD1	0.15	0.05

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LHD1	0.06	0.11
tblVehicleEF	LHD1	4.8830e-003	5.3480e-003
tblVehicleEF	LHD1	6.3690e-003	5.8960e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.18	0.20
tblVehicleEF	LHD1	0.55	0.76
tblVehicleEF	LHD1	0.93	2.25
tblVehicleEF	LHD1	8.66	8.42
tblVehicleEF	LHD1	766.63	763.96
tblVehicleEF	LHD1	11.28	19.02
tblVehicleEF	LHD1	7.2500e-004	5.8100e-004
tblVehicleEF	LHD1	0.04	0.04
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	0.05	0.04
tblVehicleEF	LHD1	0.38	0.38
tblVehicleEF	LHD1	0.25	0.38
tblVehicleEF	LHD1	8.3600e-004	6.1000e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	9.7710e-003	9.2850e-003
tblVehicleEF	LHD1	7.3860e-003	9.2260e-003
tblVehicleEF	LHD1	2.3100e-004	1.8200e-004
tblVehicleEF	LHD1	8.0000e-004	5.8400e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.4430e-003	2.3210e-003
tblVehicleEF	LHD1	7.0200e-003	8.7890e-003
tblVehicleEF	LHD1	2.1200e-004	1.6700e-004
tblVehicleEF	LHD1	2.7340e-003	0.11
tblVehicleEF	LHD1	0.05	0.03
tblVehicleEF	LHD1	0.02	0.02

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LHD1	1.2220e-003	0.00
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.14	0.05
tblVehicleEF	LHD1	0.05	0.09
tblVehicleEF	LHD1	8.4000e-005	8.2000e-005
tblVehicleEF	LHD1	7.4860e-003	7.4700e-003
tblVehicleEF	LHD1	1.1200e-004	1.8800e-004
tblVehicleEF	LHD1	2.7340e-003	0.11
tblVehicleEF	LHD1	0.05	0.03
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.2220e-003	0.00
tblVehicleEF	LHD1	0.09	0.10
tblVehicleEF	LHD1	0.14	0.05
tblVehicleEF	LHD1	0.06	0.10
tblVehicleEF	LHD1	4.8580e-003	5.3050e-003
tblVehicleEF	LHD1	6.1450e-003	5.6480e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.18	0.20
tblVehicleEF	LHD1	0.53	0.72
tblVehicleEF	LHD1	1.06	2.56
tblVehicleEF	LHD1	8.66	8.42
tblVehicleEF	LHD1	766.60	763.90
tblVehicleEF	LHD1	11.51	19.56
tblVehicleEF	LHD1	7.2000e-004	5.7500e-004
tblVehicleEF	LHD1	0.04	0.04
tblVehicleEF	LHD1	0.02	0.04
tblVehicleEF	LHD1	0.05	0.04
tblVehicleEF	LHD1	0.40	0.41
tblVehicleEF	LHD1	0.29	0.43

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LHD1	8.3600e-004	6.1000e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	9.7710e-003	9.2850e-003
tblVehicleEF	LHD1	7.3860e-003	9.2260e-003
tblVehicleEF	LHD1	2.3100e-004	1.8200e-004
tblVehicleEF	LHD1	8.0000e-004	5.8400e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.4430e-003	2.3210e-003
tblVehicleEF	LHD1	7.0200e-003	8.7890e-003
tblVehicleEF	LHD1	2.1200e-004	1.6700e-004
tblVehicleEF	LHD1	6.7100e-004	0.09
tblVehicleEF	LHD1	0.06	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.0900e-004	0.00
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.17	0.05
tblVehicleEF	LHD1	0.06	0.11
tblVehicleEF	LHD1	8.4000e-005	8.2000e-005
tblVehicleEF	LHD1	7.4850e-003	7.4690e-003
tblVehicleEF	LHD1	1.1400e-004	1.9300e-004
tblVehicleEF	LHD1	6.7100e-004	0.09
tblVehicleEF	LHD1	0.06	0.02
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	3.0900e-004	0.00
tblVehicleEF	LHD1	0.09	0.11
tblVehicleEF	LHD1	0.17	0.05
tblVehicleEF	LHD1	0.06	0.12
tblVehicleEF	LHD2	3.0260e-003	3.0920e-003
tblVehicleEF	LHD2	5.6680e-003	5.3750e-003

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LHD2	6.5810e-003	0.01
tblVehicleEF	LHD2	0.14	0.15
tblVehicleEF	LHD2	0.47	0.46
tblVehicleEF	LHD2	0.59	1.36
tblVehicleEF	LHD2	13.42	13.11
tblVehicleEF	LHD2	742.79	804.88
tblVehicleEF	LHD2	7.75	10.40
tblVehicleEF	LHD2	1.6540e-003	1.5540e-003
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	0.08	0.07
tblVehicleEF	LHD2	0.43	0.53
tblVehicleEF	LHD2	0.16	0.24
tblVehicleEF	LHD2	1.3960e-003	1.3030e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.2500e-004	9.1000e-005
tblVehicleEF	LHD2	1.3360e-003	1.2470e-003
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	2.6840e-003	2.6480e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	1.1500e-004	8.3000e-005
tblVehicleEF	LHD2	6.1800e-004	0.05
tblVehicleEF	LHD2	0.03	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	3.9800e-004	0.00
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.08	0.03

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LHD2	0.03	0.06
tblVehicleEF	LHD2	1.2800e-004	1.2600e-004
tblVehicleEF	LHD2	7.1760e-003	7.7600e-003
tblVehicleEF	LHD2	7.7000e-005	1.0300e-004
tblVehicleEF	LHD2	6.1800e-004	0.05
tblVehicleEF	LHD2	0.03	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	3.9800e-004	0.00
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	0.08	0.03
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	3.0340e-003	3.1060e-003
tblVehicleEF	LHD2	5.7250e-003	5.4350e-003
tblVehicleEF	LHD2	6.2100e-003	0.01
tblVehicleEF	LHD2	0.14	0.15
tblVehicleEF	LHD2	0.48	0.47
tblVehicleEF	LHD2	0.55	1.27
tblVehicleEF	LHD2	13.42	13.11
tblVehicleEF	LHD2	742.80	804.90
tblVehicleEF	LHD2	7.68	10.24
tblVehicleEF	LHD2	1.6560e-003	1.5560e-003
tblVehicleEF	LHD2	0.06	0.08
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	0.08	0.07
tblVehicleEF	LHD2	0.41	0.51
tblVehicleEF	LHD2	0.15	0.22
tblVehicleEF	LHD2	1.3960e-003	1.3030e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.2500e-004	9.1000e-005
tblVehicleEF	LHD2	1.3360e-003	1.2470e-003
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	2.6840e-003	2.6480e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	1.1500e-004	8.3000e-005
tblVehicleEF	LHD2	1.4860e-003	0.07
tblVehicleEF	LHD2	0.03	0.02
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.7500e-004	0.00
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.07	0.03
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	1.2800e-004	1.2600e-004
tblVehicleEF	LHD2	7.1760e-003	7.7610e-003
tblVehicleEF	LHD2	7.6000e-005	1.0100e-004
tblVehicleEF	LHD2	1.4860e-003	0.07
tblVehicleEF	LHD2	0.03	0.02
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.7500e-004	0.00
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	0.07	0.03
tblVehicleEF	LHD2	0.03	0.06
tblVehicleEF	LHD2	3.0200e-003	3.0820e-003
tblVehicleEF	LHD2	5.6300e-003	5.3350e-003
tblVehicleEF	LHD2	6.8580e-003	0.01
tblVehicleEF	LHD2	0.14	0.15
tblVehicleEF	LHD2	0.47	0.46

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LHD2	0.63	1.44
tblVehicleEF	LHD2	13.42	13.11
tblVehicleEF	LHD2	742.78	804.87
tblVehicleEF	LHD2	7.81	10.54
tblVehicleEF	LHD2	1.6530e-003	1.5520e-003
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	0.08	0.07
tblVehicleEF	LHD2	0.43	0.54
tblVehicleEF	LHD2	0.17	0.25
tblVehicleEF	LHD2	1.3960e-003	1.3030e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.2500e-004	9.1000e-005
tblVehicleEF	LHD2	1.3360e-003	1.2470e-003
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	2.6840e-003	2.6480e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	1.1500e-004	8.3000e-005
tblVehicleEF	LHD2	3.7200e-004	0.05
tblVehicleEF	LHD2	0.03	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.7400e-004	0.00
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.09	0.03
tblVehicleEF	LHD2	0.03	0.06
tblVehicleEF	LHD2	1.2800e-004	1.2600e-004
tblVehicleEF	LHD2	7.1760e-003	7.7600e-003

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LHD2	7.7000e-005	1.0400e-004
tblVehicleEF	LHD2	3.7200e-004	0.05
tblVehicleEF	LHD2	0.03	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.7400e-004	0.00
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	0.09	0.03
tblVehicleEF	LHD2	0.04	0.07
tblVehicleEF	MCY	0.33	0.15
tblVehicleEF	MCY	0.26	0.17
tblVehicleEF	MCY	18.49	11.05
tblVehicleEF	MCY	9.24	7.75
tblVehicleEF	MCY	212.87	186.93
tblVehicleEF	MCY	60.07	46.09
tblVehicleEF	MCY	0.07	0.04
tblVehicleEF	MCY	0.02	7.5490e-003
tblVehicleEF	MCY	1.15	0.52
tblVehicleEF	MCY	0.27	0.13
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.1340e-003	2.0120e-003
tblVehicleEF	MCY	3.1040e-003	3.7080e-003
tblVehicleEF	MCY	5.0400e-003	4.2000e-003
tblVehicleEF	MCY	1.9920e-003	1.8810e-003
tblVehicleEF	MCY	2.9110e-003	3.4820e-003
tblVehicleEF	MCY	0.61	1.64
tblVehicleEF	MCY	0.52	3.55
tblVehicleEF	MCY	0.36	0.00
tblVehicleEF	MCY	2.18	0.93
tblVehicleEF	MCY	0.42	1.28

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MCY	1.94	1.28
tblVehicleEF	MCY	2.1060e-003	1.8480e-003
tblVehicleEF	MCY	5.9400e-004	4.5600e-004
tblVehicleEF	MCY	0.61	1.64
tblVehicleEF	MCY	0.52	3.55
tblVehicleEF	MCY	0.36	0.00
tblVehicleEF	MCY	2.72	1.39
tblVehicleEF	MCY	0.42	1.28
tblVehicleEF	MCY	2.11	1.39
tblVehicleEF	MCY	0.32	0.15
tblVehicleEF	MCY	0.22	0.15
tblVehicleEF	MCY	17.36	10.90
tblVehicleEF	MCY	7.91	6.59
tblVehicleEF	MCY	210.79	186.65
tblVehicleEF	MCY	56.88	43.55
tblVehicleEF	MCY	0.06	0.03
tblVehicleEF	MCY	0.01	7.1610e-003
tblVehicleEF	MCY	1.01	0.46
tblVehicleEF	MCY	0.25	0.12
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.1340e-003	2.0120e-003
tblVehicleEF	MCY	3.1040e-003	3.7080e-003
tblVehicleEF	MCY	5.0400e-003	4.2000e-003
tblVehicleEF	MCY	1.9920e-003	1.8810e-003
tblVehicleEF	MCY	2.9110e-003	3.4820e-003
tblVehicleEF	MCY	1.81	2.47
tblVehicleEF	MCY	0.64	3.69
tblVehicleEF	MCY	0.88	0.00
tblVehicleEF	MCY	2.10	0.92

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MCY	0.38	1.25
tblVehicleEF	MCY	1.61	1.06
tblVehicleEF	MCY	2.0860e-003	1.8450e-003
tblVehicleEF	MCY	5.6300e-004	4.3100e-004
tblVehicleEF	MCY	1.81	2.47
tblVehicleEF	MCY	0.64	3.69
tblVehicleEF	MCY	0.88	0.00
tblVehicleEF	MCY	2.62	1.15
tblVehicleEF	MCY	0.38	1.25
tblVehicleEF	MCY	1.76	1.15
tblVehicleEF	MCY	0.34	0.15
tblVehicleEF	MCY	0.29	0.19
tblVehicleEF	MCY	19.77	11.30
tblVehicleEF	MCY	10.45	8.77
tblVehicleEF	MCY	215.16	187.38
tblVehicleEF	MCY	62.88	48.30
tblVehicleEF	MCY	0.07	0.04
tblVehicleEF	MCY	0.02	7.8380e-003
tblVehicleEF	MCY	1.22	0.55
tblVehicleEF	MCY	0.29	0.13
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.1340e-003	2.0120e-003
tblVehicleEF	MCY	3.1040e-003	3.7080e-003
tblVehicleEF	MCY	5.0400e-003	4.2000e-003
tblVehicleEF	MCY	1.9920e-003	1.8810e-003
tblVehicleEF	MCY	2.9110e-003	3.4820e-003
tblVehicleEF	MCY	0.26	1.50
tblVehicleEF	MCY	0.64	3.40
tblVehicleEF	MCY	0.12	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MCY	2.25	0.95
tblVehicleEF	MCY	0.50	4.03
tblVehicleEF	MCY	2.21	1.45
tblVehicleEF	MCY	2.1290e-003	1.8520e-003
tblVehicleEF	MCY	6.2200e-004	4.7700e-004
tblVehicleEF	MCY	0.26	1.50
tblVehicleEF	MCY	0.64	3.40
tblVehicleEF	MCY	0.12	0.00
tblVehicleEF	MCY	2.81	1.58
tblVehicleEF	MCY	0.50	1.39
tblVehicleEF	MCY	2.40	1.58
tblVehicleEF	MDV	2.2040e-003	2.4060e-003
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.58	0.66
tblVehicleEF	MDV	2.74	3.34
tblVehicleEF	MDV	342.68	392.51
tblVehicleEF	MDV	72.68	98.90
tblVehicleEF	MDV	5.9130e-003	5.7940e-003
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.04	0.06
tblVehicleEF	MDV	0.23	0.32
tblVehicleEF	MDV	0.04	7.7260e-003
tblVehicleEF	MDV	1.3830e-003	1.2700e-003
tblVehicleEF	MDV	1.7680e-003	2.0650e-003
tblVehicleEF	MDV	0.02	2.7040e-003
tblVehicleEF	MDV	1.2750e-003	1.1700e-003
tblVehicleEF	MDV	1.6260e-003	1.8980e-003
tblVehicleEF	MDV	0.04	0.22
tblVehicleEF	MDV	0.08	0.06

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MDV	0.04	0.00
tblVehicleEF	MDV	8.7520e-003	9.6890e-003
tblVehicleEF	MDV	0.05	0.02
tblVehicleEF	MDV	0.27	0.38
tblVehicleEF	MDV	3.3860e-003	3.8780e-003
tblVehicleEF	MDV	7.1900e-004	9.7800e-004
tblVehicleEF	MDV	0.04	0.22
tblVehicleEF	MDV	0.08	0.06
tblVehicleEF	MDV	0.04	0.00
tblVehicleEF	MDV	0.01	0.42
tblVehicleEF	MDV	0.05	0.02
tblVehicleEF	MDV	0.30	0.42
tblVehicleEF	MDV	2.4360e-003	2.5440e-003
tblVehicleEF	MDV	0.05	0.07
tblVehicleEF	MDV	0.66	0.83
tblVehicleEF	MDV	2.16	2.62
tblVehicleEF	MDV	356.18	409.29
tblVehicleEF	MDV	71.60	97.55
tblVehicleEF	MDV	5.5580e-003	5.2300e-003
tblVehicleEF	MDV	0.02	0.03
tblVehicleEF	MDV	0.04	0.05
tblVehicleEF	MDV	0.20	0.28
tblVehicleEF	MDV	0.04	7.7260e-003
tblVehicleEF	MDV	1.3830e-003	1.2700e-003
tblVehicleEF	MDV	1.7680e-003	2.0650e-003
tblVehicleEF	MDV	0.02	2.7040e-003
tblVehicleEF	MDV	1.2750e-003	1.1700e-003
tblVehicleEF	MDV	1.6260e-003	1.8980e-003
tblVehicleEF	MDV	0.10	0.28

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MDV	0.09	0.07
tblVehicleEF	MDV	0.07	0.00
tblVehicleEF	MDV	9.4890e-003	0.01
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.23	0.32
tblVehicleEF	MDV	3.5200e-003	4.0440e-003
tblVehicleEF	MDV	7.0900e-004	9.6400e-004
tblVehicleEF	MDV	0.10	0.28
tblVehicleEF	MDV	0.09	0.07
tblVehicleEF	MDV	0.07	0.00
tblVehicleEF	MDV	0.01	0.35
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.25	0.35
tblVehicleEF	MDV	2.1450e-003	2.3480e-003
tblVehicleEF	MDV	0.06	0.09
tblVehicleEF	MDV	0.58	0.66
tblVehicleEF	MDV	3.16	3.84
tblVehicleEF	MDV	341.85	391.49
tblVehicleEF	MDV	73.43	99.84
tblVehicleEF	MDV	6.1870e-003	6.1250e-003
tblVehicleEF	MDV	0.03	0.04
tblVehicleEF	MDV	0.05	0.06
tblVehicleEF	MDV	0.25	0.34
tblVehicleEF	MDV	0.04	7.7260e-003
tblVehicleEF	MDV	1.3830e-003	1.2700e-003
tblVehicleEF	MDV	1.7680e-003	2.0650e-003
tblVehicleEF	MDV	0.02	2.7040e-003
tblVehicleEF	MDV	1.2750e-003	1.1700e-003
tblVehicleEF	MDV	1.6260e-003	1.8980e-003

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MDV	0.02	0.21
tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.02	0.00
tblVehicleEF	MDV	8.6300e-003	9.5800e-003
tblVehicleEF	MDV	0.06	0.03
tblVehicleEF	MDV	0.30	0.42
tblVehicleEF	MDV	3.3780e-003	3.8680e-003
tblVehicleEF	MDV	7.2700e-004	9.8700e-004
tblVehicleEF	MDV	0.02	0.21
tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.02	0.00
tblVehicleEF	MDV	0.01	0.46
tblVehicleEF	MDV	0.06	0.03
tblVehicleEF	MDV	0.33	0.46
tblVehicleEF	MH	6.1010e-003	9.3180e-003
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	0.49	0.86
tblVehicleEF	MH	1.85	2.40
tblVehicleEF	MH	1,447.76	1,669.61
tblVehicleEF	MH	17.04	21.87
tblVehicleEF	MH	0.05	0.07
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.95	1.21
tblVehicleEF	MH	0.23	0.28
tblVehicleEF	MH	0.13	0.04
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	2.4900e-004	3.1100e-004
tblVehicleEF	MH	0.06	0.02

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MH	3.2780e-003	3.3220e-003
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	2.2900e-004	2.8600e-004
tblVehicleEF	MH	0.28	24.03
tblVehicleEF	MH	0.03	6.71
tblVehicleEF	MH	0.12	0.00
tblVehicleEF	MH	0.04	0.06
tblVehicleEF	MH	6.6690e-003	1.6070e-003
tblVehicleEF	MH	0.08	0.11
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	1.6900e-004	2.1600e-004
tblVehicleEF	MH	0.28	24.03
tblVehicleEF	MH	0.03	6.71
tblVehicleEF	MH	0.12	0.00
tblVehicleEF	MH	0.05	0.11
tblVehicleEF	MH	6.6690e-003	1.6070e-003
tblVehicleEF	MH	0.09	0.12
tblVehicleEF	MH	6.2830e-003	9.6230e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.51	0.90
tblVehicleEF	MH	1.70	2.21
tblVehicleEF	MH	1,447.79	1,669.67
tblVehicleEF	MH	16.79	21.54
tblVehicleEF	MH	0.05	0.07
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.90	1.15
tblVehicleEF	MH	0.21	0.26
tblVehicleEF	MH	0.13	0.04
tblVehicleEF	MH	0.01	0.01

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	2.4900e-004	3.1100e-004
tblVehicleEF	MH	0.06	0.02
tblVehicleEF	MH	3.2780e-003	3.3220e-003
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	2.2900e-004	2.8600e-004
tblVehicleEF	MH	0.65	30.66
tblVehicleEF	MH	0.03	7.21
tblVehicleEF	MH	0.21	0.00
tblVehicleEF	MH	0.04	0.06
tblVehicleEF	MH	6.4420e-003	1.6160e-003
tblVehicleEF	MH	0.08	0.10
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	1.6600e-004	2.1300e-004
tblVehicleEF	MH	0.65	30.66
tblVehicleEF	MH	0.03	7.21
tblVehicleEF	MH	0.21	0.00
tblVehicleEF	MH	0.05	0.11
tblVehicleEF	MH	6.4420e-003	1.6160e-003
tblVehicleEF	MH	0.08	0.11
tblVehicleEF	MH	5.9860e-003	9.1320e-003
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	0.48	0.84
tblVehicleEF	MH	1.97	2.56
tblVehicleEF	MH	1,447.74	1,669.58
tblVehicleEF	MH	17.24	22.14
tblVehicleEF	MH	0.05	0.07
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.97	1.24

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MH	0.24	0.29
tblVehicleEF	MH	0.13	0.04
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	2.4900e-004	3.1100e-004
tblVehicleEF	MH	0.06	0.02
tblVehicleEF	MH	3.2780e-003	3.3220e-003
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	2.2900e-004	2.8600e-004
tblVehicleEF	MH	0.16	22.46
tblVehicleEF	MH	0.03	6.35
tblVehicleEF	MH	0.04	0.00
tblVehicleEF	MH	0.04	0.06
tblVehicleEF	MH	7.1760e-003	1.6640e-003
tblVehicleEF	MH	0.08	0.11
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	1.7100e-004	2.1900e-004
tblVehicleEF	MH	0.16	22.46
tblVehicleEF	MH	0.03	6.35
tblVehicleEF	MH	0.04	0.00
tblVehicleEF	MH	0.05	0.12
tblVehicleEF	MH	7.1760e-003	1.6640e-003
tblVehicleEF	MH	0.09	0.12
tblVehicleEF	MHD	3.9480e-003	0.01
tblVehicleEF	MHD	1.6080e-003	0.01
tblVehicleEF	MHD	9.9120e-003	0.01
tblVehicleEF	MHD	0.39	0.67
tblVehicleEF	MHD	0.22	0.40
tblVehicleEF	MHD	1.12	1.33

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MHD	63.54	150.10
tblVehicleEF	MHD	1,063.89	1,267.25
tblVehicleEF	MHD	9.92	10.76
tblVehicleEF	MHD	9.0030e-003	0.02
tblVehicleEF	MHD	0.13	0.15
tblVehicleEF	MHD	8.2440e-003	8.1870e-003
tblVehicleEF	MHD	0.35	0.86
tblVehicleEF	MHD	1.29	1.10
tblVehicleEF	MHD	1.65	1.32
tblVehicleEF	MHD	2.8000e-004	2.2030e-003
tblVehicleEF	MHD	0.13	0.05
tblVehicleEF	MHD	6.1520e-003	0.01
tblVehicleEF	MHD	1.2100e-004	1.3500e-004
tblVehicleEF	MHD	2.6800e-004	2.1070e-003
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	5.8790e-003	0.01
tblVehicleEF	MHD	1.1200e-004	1.2400e-004
tblVehicleEF	MHD	2.8800e-004	0.03
tblVehicleEF	MHD	0.02	7.1450e-003
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	1.8700e-004	0.00
tblVehicleEF	MHD	0.01	0.04
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	6.0300e-004	1.3930e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	9.8000e-005	1.0600e-004
tblVehicleEF	MHD	2.8800e-004	0.03
tblVehicleEF	MHD	0.02	7.1450e-003

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	1.8700e-004	0.00
tblVehicleEF	MHD	0.02	0.06
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.06	0.07
tblVehicleEF	MHD	3.7150e-003	0.01
tblVehicleEF	MHD	1.6560e-003	0.01
tblVehicleEF	MHD	9.3100e-003	0.01
tblVehicleEF	MHD	0.32	0.60
tblVehicleEF	MHD	0.22	0.40
tblVehicleEF	MHD	1.03	1.22
tblVehicleEF	MHD	63.59	149.58
tblVehicleEF	MHD	1,063.90	1,267.27
tblVehicleEF	MHD	9.76	10.57
tblVehicleEF	MHD	8.9640e-003	0.02
tblVehicleEF	MHD	0.13	0.15
tblVehicleEF	MHD	7.8530e-003	7.8000e-003
tblVehicleEF	MHD	0.34	0.84
tblVehicleEF	MHD	1.24	1.05
tblVehicleEF	MHD	1.64	1.31
tblVehicleEF	MHD	2.3900e-004	1.8660e-003
tblVehicleEF	MHD	0.13	0.05
tblVehicleEF	MHD	6.1520e-003	0.01
tblVehicleEF	MHD	1.2100e-004	1.3500e-004
tblVehicleEF	MHD	2.2900e-004	1.7850e-003
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	5.8790e-003	0.01
tblVehicleEF	MHD	1.1200e-004	1.2400e-004
tblVehicleEF	MHD	7.0700e-004	0.04

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MHD	0.02	7.6640e-003
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	3.2800e-004	0.00
tblVehicleEF	MHD	0.01	0.04
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	6.0400e-004	1.3880e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	9.7000e-005	1.0400e-004
tblVehicleEF	MHD	7.0700e-004	0.04
tblVehicleEF	MHD	0.02	7.6640e-003
tblVehicleEF	MHD	0.02	0.05
tblVehicleEF	MHD	3.2800e-004	0.00
tblVehicleEF	MHD	0.02	0.05
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	4.1790e-003	0.01
tblVehicleEF	MHD	1.5780e-003	0.01
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.45	0.76
tblVehicleEF	MHD	0.21	0.39
tblVehicleEF	MHD	1.20	1.42
tblVehicleEF	MHD	63.61	150.94
tblVehicleEF	MHD	1,063.89	1,267.24
tblVehicleEF	MHD	10.05	10.91
tblVehicleEF	MHD	9.0630e-003	0.02
tblVehicleEF	MHD	0.13	0.15
tblVehicleEF	MHD	8.5310e-003	8.4720e-003
tblVehicleEF	MHD	0.36	0.88

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MHD	1.31	1.12
tblVehicleEF	MHD	1.66	1.32
tblVehicleEF	MHD	3.3700e-004	2.6680e-003
tblVehicleEF	MHD	0.13	0.05
tblVehicleEF	MHD	6.1520e-003	0.01
tblVehicleEF	MHD	1.2100e-004	1.3500e-004
tblVehicleEF	MHD	3.2300e-004	2.5520e-003
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	5.8790e-003	0.01
tblVehicleEF	MHD	1.1200e-004	1.2400e-004
tblVehicleEF	MHD	1.7100e-004	0.03
tblVehicleEF	MHD	0.02	6.7680e-003
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	7.9000e-005	0.00
tblVehicleEF	MHD	0.01	0.04
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	6.0400e-004	1.4010e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	1.0000e-004	1.0800e-004
tblVehicleEF	MHD	1.7100e-004	0.03
tblVehicleEF	MHD	0.02	6.7680e-003
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	7.9000e-005	0.00
tblVehicleEF	MHD	0.02	0.06
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.06	0.07
tblVehicleEF	OBUS	6.6710e-003	6.4170e-003
tblVehicleEF	OBUS	2.8040e-003	6.4430e-003

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.61	0.48
tblVehicleEF	OBUS	0.34	0.23
tblVehicleEF	OBUS	1.52	1.10
tblVehicleEF	OBUS	102.35	89.99
tblVehicleEF	OBUS	1,307.86	1,316.74
tblVehicleEF	OBUS	13.17	9.70
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.14	0.17
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.43	0.40
tblVehicleEF	OBUS	1.48	0.74
tblVehicleEF	OBUS	1.21	1.13
tblVehicleEF	OBUS	1.3800e-004	2.3700e-004
tblVehicleEF	OBUS	0.13	0.05
tblVehicleEF	OBUS	7.5690e-003	8.4550e-003
tblVehicleEF	OBUS	1.4400e-004	1.0000e-004
tblVehicleEF	OBUS	1.3200e-004	2.2700e-004
tblVehicleEF	OBUS	0.06	0.02
tblVehicleEF	OBUS	7.2290e-003	8.0830e-003
tblVehicleEF	OBUS	1.3200e-004	9.2000e-005
tblVehicleEF	OBUS	7.8300e-004	0.03
tblVehicleEF	OBUS	0.01	8.3470e-003
tblVehicleEF	OBUS	0.05	0.03
tblVehicleEF	OBUS	4.0400e-004	0.00
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	6.4020e-003
tblVehicleEF	OBUS	0.07	0.05
tblVehicleEF	OBUS	9.7100e-004	8.4900e-004

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.3000e-004	9.6000e-005
tblVehicleEF	OBUS	7.8300e-004	0.03
tblVehicleEF	OBUS	0.01	8.3470e-003
tblVehicleEF	OBUS	0.06	0.04
tblVehicleEF	OBUS	4.0400e-004	0.00
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.03	6.4020e-003
tblVehicleEF	OBUS	0.08	0.06
tblVehicleEF	OBUS	6.7640e-003	6.4850e-003
tblVehicleEF	OBUS	2.8990e-003	6.4940e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.61	0.48
tblVehicleEF	OBUS	0.35	0.24
tblVehicleEF	OBUS	1.40	1.01
tblVehicleEF	OBUS	101.08	88.93
tblVehicleEF	OBUS	1,307.88	1,316.75
tblVehicleEF	OBUS	12.97	9.55
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.13	0.17
tblVehicleEF	OBUS	0.01	9.8170e-003
tblVehicleEF	OBUS	0.40	0.38
tblVehicleEF	OBUS	1.42	0.71
tblVehicleEF	OBUS	1.19	1.12
tblVehicleEF	OBUS	1.2300e-004	2.0600e-004
tblVehicleEF	OBUS	0.13	0.05
tblVehicleEF	OBUS	7.5690e-003	8.4550e-003
tblVehicleEF	OBUS	1.4400e-004	1.0000e-004
tblVehicleEF	OBUS	1.1800e-004	1.9700e-004

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	OBUS	0.06	0.02
tblVehicleEF	OBUS	7.2290e-003	8.0830e-003
tblVehicleEF	OBUS	1.3200e-004	9.2000e-005
tblVehicleEF	OBUS	1.7880e-003	0.04
tblVehicleEF	OBUS	0.01	8.8810e-003
tblVehicleEF	OBUS	0.05	0.03
tblVehicleEF	OBUS	6.8500e-004	0.00
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	6.4450e-003
tblVehicleEF	OBUS	0.07	0.05
tblVehicleEF	OBUS	9.5900e-004	8.3900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.2800e-004	9.4000e-005
tblVehicleEF	OBUS	1.7880e-003	0.04
tblVehicleEF	OBUS	0.01	8.8810e-003
tblVehicleEF	OBUS	0.06	0.04
tblVehicleEF	OBUS	6.8500e-004	0.00
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.03	6.4450e-003
tblVehicleEF	OBUS	0.07	0.05
tblVehicleEF	OBUS	6.5530e-003	6.3320e-003
tblVehicleEF	OBUS	2.7430e-003	6.4100e-003
tblVehicleEF	OBUS	0.02	0.01
tblVehicleEF	OBUS	0.62	0.49
tblVehicleEF	OBUS	0.34	0.23
tblVehicleEF	OBUS	1.62	1.17
tblVehicleEF	OBUS	104.11	91.44
tblVehicleEF	OBUS	1,307.85	1,316.74
tblVehicleEF	OBUS	13.34	9.82

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	OBUS	0.02	0.01
tblVehicleEF	OBUS	0.14	0.17
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.46	0.42
tblVehicleEF	OBUS	1.51	0.75
tblVehicleEF	OBUS	1.21	1.14
tblVehicleEF	OBUS	1.6000e-004	2.8100e-004
tblVehicleEF	OBUS	0.13	0.05
tblVehicleEF	OBUS	7.5690e-003	8.4550e-003
tblVehicleEF	OBUS	1.4400e-004	1.0000e-004
tblVehicleEF	OBUS	1.5300e-004	2.6900e-004
tblVehicleEF	OBUS	0.06	0.02
tblVehicleEF	OBUS	7.2290e-003	8.0830e-003
tblVehicleEF	OBUS	1.3200e-004	9.2000e-005
tblVehicleEF	OBUS	5.0800e-004	0.03
tblVehicleEF	OBUS	0.01	7.9310e-003
tblVehicleEF	OBUS	0.04	0.03
tblVehicleEF	OBUS	1.5400e-004	0.00
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	6.5500e-003
tblVehicleEF	OBUS	0.08	0.05
tblVehicleEF	OBUS	9.8800e-004	8.6300e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.3200e-004	9.7000e-005
tblVehicleEF	OBUS	5.0800e-004	0.03
tblVehicleEF	OBUS	0.01	7.9310e-003
tblVehicleEF	OBUS	0.06	0.04
tblVehicleEF	OBUS	1.5400e-004	0.00
tblVehicleEF	OBUS	0.03	0.03

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	OBUS	0.03	6.5500e-003
tblVehicleEF	OBUS	0.08	0.06
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	9.3480e-003	0.08
tblVehicleEF	SBUS	9.5380e-003	8.3560e-003
tblVehicleEF	SBUS	3.67	2.26
tblVehicleEF	SBUS	0.86	1.50
tblVehicleEF	SBUS	1.46	1.21
tblVehicleEF	SBUS	365.45	203.37
tblVehicleEF	SBUS	990.47	973.16
tblVehicleEF	SBUS	7.49	5.80
tblVehicleEF	SBUS	0.05	0.03
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	7.4410e-003	5.4090e-003
tblVehicleEF	SBUS	3.26	1.43
tblVehicleEF	SBUS	4.48	2.76
tblVehicleEF	SBUS	0.70	0.46
tblVehicleEF	SBUS	3.8180e-003	1.5180e-003
tblVehicleEF	SBUS	0.74	0.04
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.1800e-004	7.5000e-005
tblVehicleEF	SBUS	3.6530e-003	1.4510e-003
tblVehicleEF	SBUS	0.32	0.02
tblVehicleEF	SBUS	2.5480e-003	2.5240e-003
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	1.0800e-004	6.9000e-005
tblVehicleEF	SBUS	6.1300e-004	0.05
tblVehicleEF	SBUS	7.7700e-003	0.01

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	SBUS	0.44	0.26
tblVehicleEF	SBUS	2.9600e-004	0.00
tblVehicleEF	SBUS	0.10	0.08
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.05	0.05
tblVehicleEF	SBUS	3.4950e-003	1.8640e-003
tblVehicleEF	SBUS	9.5210e-003	9.1220e-003
tblVehicleEF	SBUS	7.4000e-005	5.7000e-005
tblVehicleEF	SBUS	6.1300e-004	0.05
tblVehicleEF	SBUS	7.7700e-003	0.01
tblVehicleEF	SBUS	0.64	0.41
tblVehicleEF	SBUS	2.9600e-004	0.00
tblVehicleEF	SBUS	0.12	0.26
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.06	0.05
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	9.5560e-003	0.08
tblVehicleEF	SBUS	8.2310e-003	7.2120e-003
tblVehicleEF	SBUS	3.63	2.25
tblVehicleEF	SBUS	0.88	1.54
tblVehicleEF	SBUS	1.13	0.93
tblVehicleEF	SBUS	374.93	206.61
tblVehicleEF	SBUS	990.51	973.22
tblVehicleEF	SBUS	6.94	5.34
tblVehicleEF	SBUS	0.05	0.03
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	7.1040e-003	5.1630e-003
tblVehicleEF	SBUS	3.34	1.45
tblVehicleEF	SBUS	4.29	2.63

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	SBUS	0.69	0.46
tblVehicleEF	SBUS	3.2260e-003	1.2890e-003
tblVehicleEF	SBUS	0.74	0.04
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.1800e-004	7.5000e-005
tblVehicleEF	SBUS	3.0860e-003	1.2320e-003
tblVehicleEF	SBUS	0.32	0.02
tblVehicleEF	SBUS	2.5480e-003	2.5240e-003
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	1.0800e-004	6.9000e-005
tblVehicleEF	SBUS	1.4520e-003	0.06
tblVehicleEF	SBUS	7.9960e-003	0.01
tblVehicleEF	SBUS	0.44	0.26
tblVehicleEF	SBUS	5.3700e-004	0.00
tblVehicleEF	SBUS	0.10	0.08
tblVehicleEF	SBUS	9.9670e-003	0.01
tblVehicleEF	SBUS	0.05	0.04
tblVehicleEF	SBUS	3.5850e-003	1.8950e-003
tblVehicleEF	SBUS	9.5210e-003	9.1230e-003
tblVehicleEF	SBUS	6.9000e-005	5.3000e-005
tblVehicleEF	SBUS	1.4520e-003	0.06
tblVehicleEF	SBUS	7.9960e-003	0.01
tblVehicleEF	SBUS	0.64	0.41
tblVehicleEF	SBUS	5.3700e-004	0.00
tblVehicleEF	SBUS	0.12	0.23
tblVehicleEF	SBUS	9.9670e-003	0.01
tblVehicleEF	SBUS	0.05	0.05
tblVehicleEF	SBUS	0.10	0.09

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	SBUS	9.2080e-003	0.08
tblVehicleEF	SBUS	0.01	9.3400e-003
tblVehicleEF	SBUS	3.72	2.29
tblVehicleEF	SBUS	0.84	1.48
tblVehicleEF	SBUS	1.78	1.48
tblVehicleEF	SBUS	352.36	198.90
tblVehicleEF	SBUS	990.44	973.12
tblVehicleEF	SBUS	8.02	6.24
tblVehicleEF	SBUS	0.04	0.02
tblVehicleEF	SBUS	0.11	0.12
tblVehicleEF	SBUS	7.7120e-003	5.6020e-003
tblVehicleEF	SBUS	3.15	1.40
tblVehicleEF	SBUS	4.56	2.83
tblVehicleEF	SBUS	0.70	0.46
tblVehicleEF	SBUS	4.6360e-003	1.8350e-003
tblVehicleEF	SBUS	0.74	0.04
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.1800e-004	7.5000e-005
tblVehicleEF	SBUS	4.4360e-003	1.7550e-003
tblVehicleEF	SBUS	0.32	0.02
tblVehicleEF	SBUS	2.5480e-003	2.5240e-003
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	1.0800e-004	6.9000e-005
tblVehicleEF	SBUS	3.7900e-004	0.05
tblVehicleEF	SBUS	8.0390e-003	0.01
tblVehicleEF	SBUS	0.44	0.26
tblVehicleEF	SBUS	1.1000e-004	0.00
tblVehicleEF	SBUS	0.09	0.08

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	0.06	0.05
tblVehicleEF	SBUS	3.3720e-003	1.8220e-003
tblVehicleEF	SBUS	9.5210e-003	9.1220e-003
tblVehicleEF	SBUS	7.9000e-005	6.2000e-005
tblVehicleEF	SBUS	3.7900e-004	0.05
tblVehicleEF	SBUS	8.0390e-003	0.01
tblVehicleEF	SBUS	0.64	0.41
tblVehicleEF	SBUS	1.1000e-004	0.00
tblVehicleEF	SBUS	0.12	0.30
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	0.07	0.06
tblVehicleEF	UBUS	1.52	0.55
tblVehicleEF	UBUS	0.01	6.4790e-003
tblVehicleEF	UBUS	11.42	6.29
tblVehicleEF	UBUS	0.83	0.86
tblVehicleEF	UBUS	1,603.68	1,063.17
tblVehicleEF	UBUS	9.21	5.61
tblVehicleEF	UBUS	0.26	0.16
tblVehicleEF	UBUS	7.2150e-003	9.6970e-003
tblVehicleEF	UBUS	0.69	0.25
tblVehicleEF	UBUS	0.10	0.07
tblVehicleEF	UBUS	0.08	0.10
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	4.9940e-003	4.6870e-003
tblVehicleEF	UBUS	5.3000e-005	2.2000e-005
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	7.8010e-003	7.2270e-003
tblVehicleEF	UBUS	4.7760e-003	4.4790e-003

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	UBUS	4.9000e-005	2.1000e-005
tblVehicleEF	UBUS	5.3200e-004	0.02
tblVehicleEF	UBUS	9.6610e-003	6.9710e-003
tblVehicleEF	UBUS	4.1000e-004	0.00
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	3.6080e-003	6.9600e-004
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	0.01	8.5370e-003
tblVehicleEF	UBUS	9.1000e-005	5.5000e-005
tblVehicleEF	UBUS	5.3200e-004	0.02
tblVehicleEF	UBUS	9.6610e-003	6.9710e-003
tblVehicleEF	UBUS	4.1000e-004	0.00
tblVehicleEF	UBUS	1.55	0.02
tblVehicleEF	UBUS	3.6080e-003	6.9600e-004
tblVehicleEF	UBUS	0.07	0.03
tblVehicleEF	UBUS	1.52	0.55
tblVehicleEF	UBUS	0.01	5.9020e-003
tblVehicleEF	UBUS	11.42	6.29
tblVehicleEF	UBUS	0.68	0.74
tblVehicleEF	UBUS	1,603.68	1,063.18
tblVehicleEF	UBUS	8.95	5.41
tblVehicleEF	UBUS	0.26	0.16
tblVehicleEF	UBUS	6.9060e-003	9.2510e-003
tblVehicleEF	UBUS	0.69	0.25
tblVehicleEF	UBUS	0.09	0.06
tblVehicleEF	UBUS	0.08	0.10
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	4.9940e-003	4.6870e-003
tblVehicleEF	UBUS	5.3000e-005	2.2000e-005

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	7.8010e-003	7.2270e-003
tblVehicleEF	UBUS	4.7760e-003	4.4790e-003
tblVehicleEF	UBUS	4.9000e-005	2.1000e-005
tblVehicleEF	UBUS	1.2180e-003	0.03
tblVehicleEF	UBUS	0.01	7.4740e-003
tblVehicleEF	UBUS	6.7700e-004	0.00
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	3.1460e-003	7.0700e-004
tblVehicleEF	UBUS	0.05	0.02
tblVehicleEF	UBUS	0.01	8.5370e-003
tblVehicleEF	UBUS	8.9000e-005	5.3000e-005
tblVehicleEF	UBUS	1.2180e-003	0.03
tblVehicleEF	UBUS	0.01	7.4740e-003
tblVehicleEF	UBUS	6.7700e-004	0.00
tblVehicleEF	UBUS	1.55	0.02
tblVehicleEF	UBUS	3.1460e-003	7.0700e-004
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	1.52	0.55
tblVehicleEF	UBUS	0.01	6.9340e-003
tblVehicleEF	UBUS	11.42	6.29
tblVehicleEF	UBUS	0.95	0.97
tblVehicleEF	UBUS	1,603.68	1,063.17
tblVehicleEF	UBUS	9.42	5.79
tblVehicleEF	UBUS	0.26	0.16
tblVehicleEF	UBUS	7.4470e-003	0.01
tblVehicleEF	UBUS	0.69	0.25
tblVehicleEF	UBUS	0.10	0.07
tblVehicleEF	UBUS	0.08	0.10

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	4.9940e-003	4.6870e-003
tblVehicleEF	UBUS	5.3000e-005	2.2000e-005
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	7.8010e-003	7.2270e-003
tblVehicleEF	UBUS	4.7760e-003	4.4790e-003
tblVehicleEF	UBUS	4.9000e-005	2.1000e-005
tblVehicleEF	UBUS	4.0200e-004	0.02
tblVehicleEF	UBUS	0.01	6.6010e-003
tblVehicleEF	UBUS	1.8100e-004	0.00
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	4.5840e-003	7.2000e-004
tblVehicleEF	UBUS	0.07	0.03
tblVehicleEF	UBUS	0.01	8.5370e-003
tblVehicleEF	UBUS	9.3000e-005	5.7000e-005
tblVehicleEF	UBUS	4.0200e-004	0.02
tblVehicleEF	UBUS	0.01	6.6010e-003
tblVehicleEF	UBUS	1.8100e-004	0.00
tblVehicleEF	UBUS	1.55	0.03
tblVehicleEF	UBUS	4.5840e-003	7.2000e-004
tblVehicleEF	UBUS	0.07	0.03
tblVehicleTrips	ST_TR	1.90	1.60
tblVehicleTrips	SU_TR	1.11	0.94
tblVehicleTrips	WD_TR	11.26	9.44
tblWater	IndoorWaterUseRate	100,930,016.54	105,030,744.06

2.0 Emissions Summary

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.3473	3.6304	3.1538	0.0103	0.5377	0.1230	0.6606	0.1432	0.1179	0.2611	0.0000	971.5245	971.5245	0.1091	0.0794	997.9180
2023	1.2593	0.7814	0.8962	3.5200e-003	0.2611	0.0214	0.2825	0.0694	0.0203	0.0897	0.0000	334.4091	334.4091	0.0251	0.0279	343.3356
Maximum	**1.2593**	**3.6304**	**3.1538**	**0.0103**	**0.5377**	**0.1230**	**0.6606**	**0.1432**	**0.1179**	**0.2611**	**0.0000**	**971.5245**	**971.5245**	**0.1091**	**0.0794**	**997.9180**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.3473	3.6304	3.1538	0.0103	0.4930	0.1230	0.6160	0.1304	0.1179	0.2483	0.0000	971.5241	971.5241	0.1091	0.0794	997.9175
2023	1.2593	0.7814	0.8962	3.5200e-003	0.2611	0.0214	0.2825	0.0694	0.0203	0.0897	0.0000	334.4090	334.4090	0.0251	0.0279	343.3355
Maximum	**1.2593**	**3.6304**	**3.1538**	**0.0103**	**0.4930**	**0.1230**	**0.6160**	**0.1304**	**0.1179**	**0.2483**	**0.0000**	**971.5241**	**971.5241**	**0.1091**	**0.0794**	**997.9175**

405 Industrial Road Project Conditions - San Mateo County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**5.59**	**0.00**	**4.74**	**6.04**	**0.00**	**3.66**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**1-1-2022**	**3-31-2022**	0.4140	0.4140
2	**4-1-2022**	**6-30-2022**	1.9488	1.9488
3	**7-1-2022**	**9-30-2022**	0.8899	0.8899
4	**10-1-2022**	**12-31-2022**	0.5552	0.5552
5	**1-1-2023**	**3-31-2023**	0.6367	0.6367
6	**4-1-2023**	**6-30-2023**	0.1930	0.1930
7	**7-1-2023**	**9-30-2023**	1.2152	1.2152
		Highest	1.9488	1.9488

405 Industrial Road Project Conditions - San Mateo County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.9354	4.0000e-005	4.2700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.3200e-003	8.3200e-003	2.0000e-005	0.0000	8.8600e-003
Energy	0.0272	0.2472	0.2077	1.4800e-003		0.0188	0.0188		0.0188	0.0188	0.0000	269.1434	269.1434	5.1600e-003	4.9300e-003	270.7428
Mobile	0.6976	0.5486	5.7143	0.0134	1.2245	8.4000e-003	1.2329	0.3050	7.8200e-003	0.3129	0.0000	1,231.1961	1,231.1961	0.0644	0.0506	1,247.8793
Stationary	2.0400e-003	6.6600e-003	7.4100e-003	1.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	0.9482	0.9482	1.3000e-004	0.0000	0.9515
Waste						0.0000	0.0000		0.0000	0.0000	3.2945	0.0000	3.2945	0.1947	0.0000	8.1621
Water						0.0000	0.0000		0.0000	0.0000	33.3214	0.0000	33.3214	3.4224	0.0808	142.9638
Total	**1.6623**	**0.8026**	**5.9336**	**0.0148**	**1.2245**	**0.0275**	**1.2520**	**0.3050**	**0.0269**	**0.3320**	**36.6160**	**1,501.2961**	**1,537.9120**	**3.6868**	**0.1363**	**1,670.7084**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.9354	4.0000e-005	4.2700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.3200e-003	8.3200e-003	2.0000e-005	0.0000	8.8600e-003
Energy	0.0272	0.2472	0.2077	1.4800e-003		0.0188	0.0188		0.0188	0.0188	0.0000	269.1434	269.1434	5.1600e-003	4.9300e-003	270.7428
Mobile	0.6976	0.5486	5.7143	0.0134	1.2245	8.4000e-003	1.2329	0.3050	7.8200e-003	0.3129	0.0000	1,231.1961	1,231.1961	0.0644	0.0506	1,247.8793
Stationary	2.0400e-003	6.6600e-003	7.4100e-003	1.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	0.9482	0.9482	1.3000e-004	0.0000	0.9515
Waste						0.0000	0.0000		0.0000	0.0000	3.2945	0.0000	3.2945	0.1947	0.0000	8.1621
Water						0.0000	0.0000		0.0000	0.0000	33.3214	0.0000	33.3214	3.4224	0.0808	142.9638
Total	**1.6623**	**0.8026**	**5.9336**	**0.0148**	**1.2245**	**0.0275**	**1.2520**	**0.3050**	**0.0269**	**0.3320**	**36.6160**	**1,501.2961**	**1,537.9120**	**3.6868**	**0.1363**	**1,670.7084**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/3/2022	2/11/2022	5	30	
2	Site Preparation- Shoring	Site Preparation	2/14/2022	4/15/2022	5	45	

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3	Site Preparation- Dewatering	Site Preparation	3/28/2022	5/13/2022	5	35	
4	Site Preparation- Mass Excavation	Site Preparation	5/16/2022	6/10/2022	5	20	
5	Grading	Grading	5/18/2022	5/31/2022	5	10	
6	Building Construction (Foundation)	Building Construction	5/30/2022	9/20/2022	5	82	
7	Paving	Paving	9/6/2022	11/28/2022	5	60	
8	Building Construction (Vertical)	Building Construction	11/21/2022	2/28/2023	5	72	
9	Building Construction (Building Finishing)	Building Construction	1/20/2023	7/20/2023	5	130	
10	Architectural Coating	Architectural Coating	7/21/2023	8/3/2023	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 1.24

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 320,418; Non-Residential Outdoor: 106,806; Striped Parking Area: 14,635 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation- Shoring	Forklifts	1	4.00	367	0.48
Site Preparation- Shoring	Tractors/Loaders/Backhoes	1	3.50	97	0.37
Site Preparation- Dewatering	Pumps	12	8.00	84	0.74
Site Preparation- Mass Excavation	Graders	1	8.00	187	0.41
Site Preparation- Mass Excavation	Scrapers	1	8.00	367	0.48
Site Preparation- Mass Excavation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction (Foundation)	Cranes	1	8.00	231	0.29
Building Construction (Foundation)	Forklifts	2	7.00	89	0.20
Building Construction (Foundation)	Generator Sets	1	8.00	84	0.74
Building Construction (Foundation)	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction (Foundation)	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction (Foundation)	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Building Construction (Vertical)	Cranes	1	8.00	231	0.29
Building Construction (Vertical)	Forklifts	2	7.00	89	0.20
Building Construction (Vertical)	Generator Sets	1	8.00	84	0.74
Building Construction (Vertical)	Welders	3	8.00	46	0.45
Building Construction (Building Finishing)	Forklifts	2	7.00	89	0.20
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	250.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation-Shoring	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation-Dewatering	12	30.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation-Mass Excavation	3	8.00	0.00	8,268.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction (Foundation)	9	171.00	75.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction (Foundation)	9	171.00	75.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Paving	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction (Vertical)	7	171.00	75.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction (Vertical)	7	171.00	75.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction (Building Finishing)	2	171.00	75.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	34.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0271	0.0000	0.0271	4.1000e-003	0.0000	4.1000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0253	0.2493	0.2094	3.6000e-004		0.0126	0.0126		0.0117	0.0117	0.0000	31.6165	31.6165	8.0600e-003	0.0000	31.8180
Total	**0.0253**	**0.2493**	**0.2094**	**3.6000e-004**	**0.0271**	**0.0126**	**0.0396**	**4.1000e-003**	**0.0117**	**0.0158**	**0.0000**	**31.6165**	**31.6165**	**8.0600e-003**	**0.0000**	**31.8180**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.2000e-004	0.0244	6.8900e-003	8.0000e-005	2.1000e-003	1.9000e-004	2.2800e-003	5.8000e-004	1.8000e-004	7.6000e-004	0.0000	8.9042	8.9042	8.4000e-004	1.4300e-003	9.3520
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5000e-004	3.1000e-004	4.0400e-003	1.0000e-005	1.5400e-003	1.0000e-005	1.5400e-003	4.1000e-004	1.0000e-005	4.2000e-004	0.0000	1.1785	1.1785	3.0000e-005	3.0000e-005	1.1885
Total	**1.0700e-003**	**0.0247**	**0.0109**	**9.0000e-005**	**3.6400e-003**	**2.0000e-004**	**3.8200e-003**	**9.9000e-004**	**1.9000e-004**	**1.1800e-003**	**0.0000**	**10.0827**	**10.0827**	**8.7000e-004**	**1.4600e-003**	**10.5405**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0122	0.0000	0.0122	1.8400e-003	0.0000	1.8400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0253	0.2493	0.2094	3.6000e-004		0.0126	0.0126		0.0117	0.0117	0.0000	31.6165	31.6165	8.0600e-003	0.0000	31.8179
Total	**0.0253**	**0.2493**	**0.2094**	**3.6000e-004**	**0.0122**	**0.0126**	**0.0248**	**1.8400e-003**	**0.0117**	**0.0136**	**0.0000**	**31.6165**	**31.6165**	**8.0600e-003**	**0.0000**	**31.8179**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.2000e-004	0.0244	6.8900e-003	8.0000e-005	2.1000e-003	1.9000e-004	2.2800e-003	5.8000e-004	1.8000e-004	7.6000e-004	0.0000	8.9042	8.9042	8.4000e-004	1.4300e-003	9.3520
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5000e-004	3.1000e-004	4.0400e-003	1.0000e-005	1.5400e-003	1.0000e-005	1.5400e-003	4.1000e-004	1.0000e-005	4.2000e-004	0.0000	1.1785	1.1785	3.0000e-005	3.0000e-005	1.1885
Total	**1.0700e-003**	**0.0247**	**0.0109**	**9.0000e-005**	**3.6400e-003**	**2.0000e-004**	**3.8200e-003**	**9.9000e-004**	**1.9000e-004**	**1.1800e-003**	**0.0000**	**10.0827**	**10.0827**	**8.7000e-004**	**1.4600e-003**	**10.5405**

3.3 Site Preparation- Shoring - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.7200e-003	0.0861	0.0647	2.0000e-004		3.5700e-003	3.5700e-003		3.2900e-003	3.2900e-003	0.0000	17.7079	17.7079	5.7300e-003	0.0000	17.8510
Total	**9.7200e-003**	**0.0861**	**0.0647**	**2.0000e-004**	**0.0000**	**3.5700e-003**	**3.5700e-003**	**0.0000**	**3.2900e-003**	**3.2900e-003**	**0.0000**	**17.7079**	**17.7079**	**5.7300e-003**	**0.0000**	**17.8510**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation- Shoring - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6000e-004	1.8000e-004	2.3300e-003	1.0000e-005	8.9000e-004	0.0000	8.9000e-004	2.4000e-004	0.0000	2.4000e-004	0.0000	0.6799	0.6799	2.0000e-005	2.0000e-005	0.6857
Total	**2.6000e-004**	**1.8000e-004**	**2.3300e-003**	**1.0000e-005**	**8.9000e-004**	**0.0000**	**8.9000e-004**	**2.4000e-004**	**0.0000**	**2.4000e-004**	**0.0000**	**0.6799**	**0.6799**	**2.0000e-005**	**2.0000e-005**	**0.6857**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.7200e-003	0.0861	0.0646	2.0000e-004		3.5700e-003	3.5700e-003		3.2900e-003	3.2900e-003	0.0000	17.7078	17.7078	5.7300e-003	0.0000	17.8510
Total	**9.7200e-003**	**0.0861**	**0.0646**	**2.0000e-004**	**0.0000**	**3.5700e-003**	**3.5700e-003**	**0.0000**	**3.2900e-003**	**3.2900e-003**	**0.0000**	**17.7078**	**17.7078**	**5.7300e-003**	**0.0000**	**17.8510**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation- Shoring - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6000e-004	1.8000e-004	2.3300e-003	1.0000e-005	8.9000e-004	0.0000	8.9000e-004	2.4000e-004	0.0000	2.4000e-004	0.0000	0.6799	0.6799	2.0000e-005	2.0000e-005	0.6857
Total	**2.6000e-004**	**1.8000e-004**	**2.3300e-003**	**1.0000e-005**	**8.9000e-004**	**0.0000**	**8.9000e-004**	**2.4000e-004**	**0.0000**	**2.4000e-004**	**0.0000**	**0.6799**	**0.6799**	**2.0000e-005**	**2.0000e-005**	**0.6857**

3.4 Site Preparation- Dewatering - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0739	0.6235	0.7837	1.3800e-003		0.0327	0.0327		0.0327	0.0327	0.0000	118.6936	118.6936	6.0600e-003	0.0000	118.8450
Total	**0.0739**	**0.6235**	**0.7837**	**1.3800e-003**	**0.0000**	**0.0327**	**0.0327**	**0.0000**	**0.0327**	**0.0327**	**0.0000**	**118.6936**	**118.6936**	**6.0600e-003**	**0.0000**	**118.8450**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Site Preparation- Dewatering - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-003	8.3000e-004	0.0109	3.0000e-005	4.1300e-003	2.0000e-005	4.1500e-003	1.1000e-003	2.0000e-005	1.1200e-003	0.0000	3.1729	3.1729	9.0000e-005	8.0000e-005	3.1998
Total	**1.2000e-003**	**8.3000e-004**	**0.0109**	**3.0000e-005**	**4.1300e-003**	**2.0000e-005**	**4.1500e-003**	**1.1000e-003**	**2.0000e-005**	**1.1200e-003**	**0.0000**	**3.1729**	**3.1729**	**9.0000e-005**	**8.0000e-005**	**3.1998**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0739	0.6235	0.7837	1.3800e-003		0.0327	0.0327		0.0327	0.0327	0.0000	118.6934	118.6934	6.0600e-003	0.0000	118.8449
Total	**0.0739**	**0.6235**	**0.7837**	**1.3800e-003**	**0.0000**	**0.0327**	**0.0327**	**0.0000**	**0.0327**	**0.0327**	**0.0000**	**118.6934**	**118.6934**	**6.0600e-003**	**0.0000**	**118.8449**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Site Preparation- Dewatering - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-003	8.3000e-004	0.0109	3.0000e-005	4.1300e-003	2.0000e-005	4.1500e-003	1.1000e-003	2.0000e-005	1.1200e-003	0.0000	3.1729	3.1729	9.0000e-005	8.0000e-005	3.1998
Total	**1.2000e-003**	**8.3000e-004**	**0.0109**	**3.0000e-005**	**4.1300e-003**	**2.0000e-005**	**4.1500e-003**	**1.1000e-003**	**2.0000e-005**	**1.1200e-003**	**0.0000**	**3.1729**	**3.1729**	**9.0000e-005**	**8.0000e-005**	**3.1998**

3.5 Site Preparation- Mass Excavation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0187	0.0000	0.0187	2.1400e-003	0.0000	2.1400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0138	0.1567	0.1006	2.5000e-004		5.9500e-003	5.9500e-003		5.4800e-003	5.4800e-003	0.0000	21.5471	21.5471	6.9700e-003	0.0000	21.7213
Total	**0.0138**	**0.1567**	**0.1006**	**2.5000e-004**	**0.0187**	**5.9500e-003**	**0.0247**	**2.1400e-003**	**5.4800e-003**	**7.6200e-003**	**0.0000**	**21.5471**	**21.5471**	**6.9700e-003**	**0.0000**	**21.7213**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Site Preparation- Mass Excavation - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0204	0.8081	0.2278	2.8000e-003	0.0694	6.2000e-003	0.0756	0.0191	5.9300e-003	0.0250	0.0000	294.4805	294.4805	0.0278	0.0474	309.2896
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	1.3000e-004	1.6600e-003	1.0000e-005	6.3000e-004	0.0000	6.3000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.4835	0.4835	1.0000e-005	1.0000e-005	0.4876
Total	**0.0205**	**0.8082**	**0.2294**	**2.8100e-003**	**0.0700**	**6.2000e-003**	**0.0762**	**0.0192**	**5.9300e-003**	**0.0252**	**0.0000**	**294.9640**	**294.9640**	**0.0279**	**0.0474**	**309.7772**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.4200e-003	0.0000	8.4200e-003	9.6000e-004	0.0000	9.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0138	0.1567	0.1006	2.5000e-004		5.9500e-003	5.9500e-003		5.4800e-003	5.4800e-003	0.0000	21.5470	21.5470	6.9700e-003	0.0000	21.7213
Total	**0.0138**	**0.1567**	**0.1006**	**2.5000e-004**	**8.4200e-003**	**5.9500e-003**	**0.0144**	**9.6000e-004**	**5.4800e-003**	**6.4400e-003**	**0.0000**	**21.5470**	**21.5470**	**6.9700e-003**	**0.0000**	**21.7213**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Site Preparation- Mass Excavation - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0204	0.8081	0.2278	2.8000e-003	0.0694	6.2000e-003	0.0756	0.0191	5.9300e-003	0.0250	0.0000	294.4805	294.4805	0.0278	0.0474	309.2896
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	1.3000e-004	1.6600e-003	1.0000e-005	6.3000e-004	0.0000	6.3000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.4835	0.4835	1.0000e-005	1.0000e-005	0.4876
Total	**0.0205**	**0.8082**	**0.2294**	**2.8100e-003**	**0.0700**	**6.2000e-003**	**0.0762**	**0.0192**	**5.9300e-003**	**0.0252**	**0.0000**	**294.9640**	**294.9640**	**0.0279**	**0.0474**	**309.7772**

3.6 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0354	0.0000	0.0354	0.0171	0.0000	0.0171	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.7000e-003	0.0849	0.0461	1.0000e-004		3.7100e-003	3.7100e-003		3.4100e-003	3.4100e-003	0.0000	9.0514	9.0514	2.9300e-003	0.0000	9.1245
Total	**7.7000e-003**	**0.0849**	**0.0461**	**1.0000e-004**	**0.0354**	**3.7100e-003**	**0.0391**	**0.0171**	**3.4100e-003**	**0.0205**	**0.0000**	**9.0514**	**9.0514**	**2.9300e-003**	**0.0000**	**9.1245**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1000e-004	8.0000e-005	1.0400e-003	0.0000	3.9000e-004	0.0000	4.0000e-004	1.0000e-004	0.0000	1.1000e-004	0.0000	0.3022	0.3022	1.0000e-005	1.0000e-005	0.3048
Total	**1.1000e-004**	**8.0000e-005**	**1.0400e-003**	**0.0000**	**3.9000e-004**	**0.0000**	**4.0000e-004**	**1.0000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**0.3022**	**0.3022**	**1.0000e-005**	**1.0000e-005**	**0.3048**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0159	0.0000	0.0159	7.7100e-003	0.0000	7.7100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.7000e-003	0.0849	0.0461	1.0000e-004		3.7100e-003	3.7100e-003		3.4100e-003	3.4100e-003	0.0000	9.0514	9.0514	2.9300e-003	0.0000	9.1245
Total	**7.7000e-003**	**0.0849**	**0.0461**	**1.0000e-004**	**0.0159**	**3.7100e-003**	**0.0197**	**7.7100e-003**	**3.4100e-003**	**0.0111**	**0.0000**	**9.0514**	**9.0514**	**2.9300e-003**	**0.0000**	**9.1245**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1000e-004	8.0000e-005	1.0400e-003	0.0000	3.9000e-004	0.0000	4.0000e-004	1.0000e-004	0.0000	1.1000e-004	0.0000	0.3022	0.3022	1.0000e-005	1.0000e-005	0.3048
Total	**1.1000e-004**	**8.0000e-005**	**1.0400e-003**	**0.0000**	**3.9000e-004**	**0.0000**	**4.0000e-004**	**1.0000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**0.3022**	**0.3022**	**1.0000e-005**	**1.0000e-005**	**0.3048**

3.7 Building Construction (Foundation) - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0811	0.6503	0.6573	1.1200e-003		0.0316	0.0316		0.0302	0.0302	0.0000	93.5522	93.5522	0.0192	0.0000	94.0308
Total	**0.0811**	**0.6503**	**0.6573**	**1.1200e-003**		**0.0316**	**0.0316**		**0.0302**	**0.0302**	**0.0000**	**93.5522**	**93.5522**	**0.0192**	**0.0000**	**94.0308**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Building Construction (Foundation) - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0124	0.3549	0.1158	1.3500e-003	0.0684	3.1200e-003	0.0715	0.0185	2.9900e-003	0.0215	0.0000	135.9147	135.9147	8.0500e-003	0.0201	142.0905
Worker	0.0321	0.0222	0.2908	9.2000e-004	0.2057	5.6000e-004	0.2063	0.0528	5.2000e-004	0.0533	0.0000	84.7442	84.7442	2.3100e-003	2.2200e-003	85.4633
Total	**0.0445**	**0.3771**	**0.4067**	**2.2700e-003**	**0.2741**	**3.6800e-003**	**0.2778**	**0.0713**	**3.5100e-003**	**0.0748**	**0.0000**	**220.6590**	**220.6590**	**0.0104**	**0.0223**	**227.5538**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0811	0.6503	0.6573	1.1200e-003		0.0316	0.0316		0.0302	0.0302	0.0000	93.5521	93.5521	0.0192	0.0000	94.0307
Total	**0.0811**	**0.6503**	**0.6573**	**1.1200e-003**		**0.0316**	**0.0316**		**0.0302**	**0.0302**	**0.0000**	**93.5521**	**93.5521**	**0.0192**	**0.0000**	**94.0307**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Building Construction (Foundation) - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0124	0.3549	0.1158	1.3500e-003	0.0684	3.1200e-003	0.0715	0.0185	2.9900e-003	0.0215	0.0000	135.9147	135.9147	8.0500e-003	0.0201	142.0905
Worker	0.0321	0.0222	0.2908	9.2000e-004	0.2057	5.6000e-004	0.2063	0.0528	5.2000e-004	0.0533	0.0000	84.7442	84.7442	2.3100e-003	2.2200e-003	85.4633
Total	**0.0445**	**0.3771**	**0.4067**	**2.2700e-003**	**0.2741**	**3.6800e-003**	**0.2778**	**0.0713**	**3.5100e-003**	**0.0748**	**0.0000**	**220.6590**	**220.6590**	**0.0104**	**0.0223**	**227.5538**

3.8 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0233	0.2297	0.2838	4.4000e-004		0.0119	0.0119		0.0110	0.0110	0.0000	38.3317	38.3317	0.0121	0.0000	38.6341
Paving	1.6200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0249**	**0.2297**	**0.2838**	**4.4000e-004**		**0.0119**	**0.0119**		**0.0110**	**0.0110**	**0.0000**	**38.3317**	**38.3317**	**0.0121**	**0.0000**	**38.6341**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.9000e-004	6.2000e-004	8.0900e-003	3.0000e-005	3.0700e-003	2.0000e-005	3.0900e-003	8.2000e-004	1.0000e-005	8.3000e-004	0.0000	2.3570	2.3570	6.0000e-005	6.0000e-005	2.3770
Total	**8.9000e-004**	**6.2000e-004**	**8.0900e-003**	**3.0000e-005**	**3.0700e-003**	**2.0000e-005**	**3.0900e-003**	**8.2000e-004**	**1.0000e-005**	**8.3000e-004**	**0.0000**	**2.3570**	**2.3570**	**6.0000e-005**	**6.0000e-005**	**2.3770**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0233	0.2297	0.2838	4.4000e-004		0.0119	0.0119		0.0110	0.0110	0.0000	38.3317	38.3317	0.0121	0.0000	38.6341
Paving	1.6200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0249**	**0.2297**	**0.2838**	**4.4000e-004**		**0.0119**	**0.0119**		**0.0110**	**0.0110**	**0.0000**	**38.3317**	**38.3317**	**0.0121**	**0.0000**	**38.6341**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.9000e-004	6.2000e-004	8.0900e-003	3.0000e-005	3.0700e-003	2.0000e-005	3.0900e-003	8.2000e-004	1.0000e-005	8.3000e-004	0.0000	2.3570	2.3570	6.0000e-005	6.0000e-005	2.3770
Total	**8.9000e-004**	**6.2000e-004**	**8.0900e-003**	**3.0000e-005**	**3.0700e-003**	**2.0000e-005**	**3.0900e-003**	**8.2000e-004**	**1.0000e-005**	**8.3000e-004**	**0.0000**	**2.3570**	**2.3570**	**6.0000e-005**	**6.0000e-005**	**2.3770**

3.9 Building Construction (Vertical) - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0260	0.2002	0.1901	3.4000e-004		9.5200e-003	9.5200e-003		9.1600e-003	9.1600e-003	0.0000	28.0776	28.0776	5.0200e-003	0.0000	28.2030
Total	**0.0260**	**0.2002**	**0.1901**	**3.4000e-004**		**9.5200e-003**	**9.5200e-003**		**9.1600e-003**	**9.1600e-003**	**0.0000**	**28.0776**	**28.0776**	**5.0200e-003**	**0.0000**	**28.2030**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Building Construction (Vertical) - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.5300e-003	0.1298	0.0424	4.9000e-004	0.0250	1.1400e-003	0.0262	6.7800e-003	1.0900e-003	7.8800e-003	0.0000	49.7249	49.7249	2.9400e-003	7.3400e-003	51.9843
Worker	0.0117	8.1300e-003	0.1064	3.4000e-004	0.0753	2.1000e-004	0.0755	0.0193	1.9000e-004	0.0195	0.0000	31.0040	31.0040	8.5000e-004	8.1000e-004	31.2671
Total	**0.0163**	**0.1380**	**0.1488**	**8.3000e-004**	**0.1003**	**1.3500e-003**	**0.1016**	**0.0261**	**1.2800e-003**	**0.0274**	**0.0000**	**80.7289**	**80.7289**	**3.7900e-003**	**8.1500e-003**	**83.2514**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0260	0.2002	0.1901	3.4000e-004		9.5200e-003	9.5200e-003		9.1600e-003	9.1600e-003	0.0000	28.0776	28.0776	5.0200e-003	0.0000	28.2030
Total	**0.0260**	**0.2002**	**0.1901**	**3.4000e-004**		**9.5200e-003**	**9.5200e-003**		**9.1600e-003**	**9.1600e-003**	**0.0000**	**28.0776**	**28.0776**	**5.0200e-003**	**0.0000**	**28.2030**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Building Construction (Vertical) - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.5300e-003	0.1298	0.0424	4.9000e-004	0.0250	1.1400e-003	0.0262	6.7800e-003	1.0900e-003	7.8800e-003	0.0000	49.7249	49.7249	2.9400e-003	7.3400e-003	51.9843
Worker	0.0117	8.1300e-003	0.1064	3.4000e-004	0.0753	2.1000e-004	0.0755	0.0193	1.9000e-004	0.0195	0.0000	31.0040	31.0040	8.5000e-004	8.1000e-004	31.2671
Total	**0.0163**	**0.1380**	**0.1488**	**8.3000e-004**	**0.1003**	**1.3500e-003**	**0.1016**	**0.0261**	**1.2800e-003**	**0.0274**	**0.0000**	**80.7289**	**80.7289**	**3.7900e-003**	**8.1500e-003**	**83.2514**

3.9 Building Construction (Vertical) - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0336	0.2619	0.2634	4.8000e-004		0.0117	0.0117		0.0113	0.0113	0.0000	39.3085	39.3085	6.8600e-003	0.0000	39.4798
Total	**0.0336**	**0.2619**	**0.2634**	**4.8000e-004**		**0.0117**	**0.0117**		**0.0113**	**0.0113**	**0.0000**	**39.3085**	**39.3085**	**6.8600e-003**	**0.0000**	**39.4798**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Building Construction (Vertical) - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.3500e-003	0.1483	0.0532	6.6000e-004	0.0350	7.6000e-004	0.0358	9.5000e-003	7.3000e-004	0.0102	0.0000	66.9240	66.9240	4.1200e-003	9.8700e-003	69.9671
Worker	0.0155	0.0101	0.1392	4.6000e-004	0.1054	2.7000e-004	0.1056	0.0270	2.5000e-004	0.0273	0.0000	42.0223	42.0223	1.0700e-003	1.0500e-003	42.3634
Total	**0.0188**	**0.1584**	**0.1924**	**1.1200e-003**	**0.1404**	**1.0300e-003**	**0.1414**	**0.0365**	**9.8000e-004**	**0.0375**	**0.0000**	**108.9463**	**108.9463**	**5.1900e-003**	**0.0109**	**112.3305**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0336	0.2619	0.2634	4.8000e-004		0.0117	0.0117		0.0113	0.0113	0.0000	39.3084	39.3084	6.8600e-003	0.0000	39.4798
Total	**0.0336**	**0.2619**	**0.2634**	**4.8000e-004**		**0.0117**	**0.0117**		**0.0113**	**0.0113**	**0.0000**	**39.3084**	**39.3084**	**6.8600e-003**	**0.0000**	**39.4798**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Building Construction (Vertical) - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.3500e-003	0.1483	0.0532	6.6000e-004	0.0350	7.6000e-004	0.0358	9.5000e-003	7.3000e-004	0.0102	0.0000	66.9240	66.9240	4.1200e-003	9.8700e-003	69.9671
Worker	0.0155	0.0101	0.1392	4.6000e-004	0.1054	2.7000e-004	0.1056	0.0270	2.5000e-004	0.0273	0.0000	42.0223	42.0223	1.0700e-003	1.0500e-003	42.3634
Total	**0.0188**	**0.1584**	**0.1924**	**1.1200e-003**	**0.1404**	**1.0300e-003**	**0.1414**	**0.0365**	**9.8000e-004**	**0.0375**	**0.0000**	**108.9463**	**108.9463**	**5.1900e-003**	**0.0109**	**112.3305**

3.10 Building Construction (Building Finishing) - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0117	0.1092	0.1302	1.7000e-004		6.7500e-003	6.7500e-003		6.2100e-003	6.2100e-003	0.0000	15.2756	15.2756	4.9400e-003	0.0000	15.3992
Total	**0.0117**	**0.1092**	**0.1302**	**1.7000e-004**		**6.7500e-003**	**6.7500e-003**		**6.2100e-003**	**6.2100e-003**	**0.0000**	**15.2756**	**15.2756**	**4.9400e-003**	**0.0000**	**15.3992**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Building Construction (Building Finishing) - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.1900e-003	0.2295	0.0823	1.0200e-003	0.0318	1.1800e-003	0.0330	9.2000e-003	1.1300e-003	0.0103	0.0000	103.5729	103.5729	6.3700e-003	0.0153	108.2823
Worker	0.0240	0.0156	0.2155	7.1000e-004	0.0875	4.2000e-004	0.0879	0.0233	3.9000e-004	0.0237	0.0000	65.0345	65.0345	1.6600e-003	1.6300e-003	65.5625
Total	**0.0291**	**0.2452**	**0.2978**	**1.7300e-003**	**0.1193**	**1.6000e-003**	**0.1209**	**0.0325**	**1.5200e-003**	**0.0340**	**0.0000**	**168.6074**	**168.6074**	**8.0300e-003**	**0.0169**	**173.8448**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0117	0.1092	0.1302	1.7000e-004		6.7500e-003	6.7500e-003		6.2100e-003	6.2100e-003	0.0000	15.2756	15.2756	4.9400e-003	0.0000	15.3991
Total	**0.0117**	**0.1092**	**0.1302**	**1.7000e-004**		**6.7500e-003**	**6.7500e-003**		**6.2100e-003**	**6.2100e-003**	**0.0000**	**15.2756**	**15.2756**	**4.9400e-003**	**0.0000**	**15.3991**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Building Construction (Building Finishing) - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.1900e-003	0.2295	0.0823	1.0200e-003	0.0318	1.1800e-003	0.0330	9.2000e-003	1.1300e-003	0.0103	0.0000	103.5729	103.5729	6.3700e-003	0.0153	108.2823
Worker	0.0240	0.0156	0.2155	7.1000e-004	0.0875	4.2000e-004	0.0879	0.0233	3.9000e-004	0.0237	0.0000	65.0345	65.0345	1.6600e-003	1.6300e-003	65.5625
Total	**0.0291**	**0.2452**	**0.2978**	**1.7300e-003**	**0.1193**	**1.6000e-003**	**0.1209**	**0.0325**	**1.5200e-003**	**0.0340**	**0.0000**	**168.6074**	**168.6074**	**8.0300e-003**	**0.0169**	**173.8448**

3.11 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1647					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.6000e-004	6.5100e-003	9.0600e-003	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2785
Total	**1.1657**	**6.5100e-003**	**9.0600e-003**	**1.0000e-005**		**3.5000e-004**	**3.5000e-004**		**3.5000e-004**	**3.5000e-004**	**0.0000**	**1.2766**	**1.2766**	**8.0000e-005**	**0.0000**	**1.2785**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.11 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.7000e-004	2.4000e-004	3.3000e-003	1.0000e-005	1.3400e-003	1.0000e-005	1.3400e-003	3.6000e-004	1.0000e-005	3.6000e-004	0.0000	0.9947	0.9947	3.0000e-005	2.0000e-005	1.0028
Total	**3.7000e-004**	**2.4000e-004**	**3.3000e-003**	**1.0000e-005**	**1.3400e-003**	**1.0000e-005**	**1.3400e-003**	**3.6000e-004**	**1.0000e-005**	**3.6000e-004**	**0.0000**	**0.9947**	**0.9947**	**3.0000e-005**	**2.0000e-005**	**1.0028**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1647					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.6000e-004	6.5100e-003	9.0600e-003	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2785
Total	**1.1657**	**6.5100e-003**	**9.0600e-003**	**1.0000e-005**		**3.5000e-004**	**3.5000e-004**		**3.5000e-004**	**3.5000e-004**	**0.0000**	**1.2766**	**1.2766**	**8.0000e-005**	**0.0000**	**1.2785**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.11 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.7000e-004	2.4000e-004	3.3000e-003	1.0000e-005	1.3400e-003	1.0000e-005	1.3400e-003	3.6000e-004	1.0000e-005	3.6000e-004	0.0000	0.9947	0.9947	3.0000e-005	2.0000e-005	1.0028
Total	**3.7000e-004**	**2.4000e-004**	**3.3000e-003**	**1.0000e-005**	**1.3400e-003**	**1.0000e-005**	**1.3400e-003**	**3.6000e-004**	**1.0000e-005**	**3.6000e-004**	**0.0000**	**0.9947**	**0.9947**	**3.0000e-005**	**2.0000e-005**	**1.0028**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.6976	0.5486	5.7143	0.0134	1.2245	8.4000e-003	1.2329	0.3050	7.8200e-003	0.3129	0.0000	1,231.1961	1,231.1961	0.0644	0.0506	1,247.8793
Unmitigated	0.6976	0.5486	5.7143	0.0134	1.2245	8.4000e-003	1.2329	0.3050	7.8200e-003	0.3129	0.0000	1,231.1961	1,231.1961	0.0644	0.0506	1,247.8793

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Research & Development	1,937.75	328.43	192.95	3,655,587	3,655,587
Unenclosed Parking Structure	0.00	0.00	0.00		
Total	1,937.75	328.43	192.95	3,655,587	3,655,587

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Research & Development	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Unenclosed Parking Structure	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.473689	0.072335	0.232457	0.144246	0.025248	0.006233	0.010124	0.002125	0.001469	0.000591	0.028445	0.000434	0.002601
Parking Lot	0.473689	0.072335	0.232457	0.144246	0.025248	0.006233	0.010124	0.002125	0.001469	0.000591	0.028445	0.000434	0.002601
Research & Development	0.473689	0.072335	0.232457	0.144246	0.025248	0.006233	0.010124	0.002125	0.001469	0.000591	0.028445	0.000434	0.002601
Unenclosed Parking Structure	0.473689	0.072335	0.232457	0.144246	0.025248	0.006233	0.010124	0.002125	0.001469	0.000591	0.028445	0.000434	0.002601

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0272	0.2472	0.2077	1.4800e-003		0.0188	0.0188		0.0188	0.0188	0.0000	269.1434	269.1434	5.1600e-003	4.9300e-003	270.7428
NaturalGas Unmitigated	0.0272	0.2472	0.2077	1.4800e-003		0.0188	0.0188		0.0188	0.0188	0.0000	269.1434	269.1434	5.1600e-003	4.9300e-003	270.7428

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Research & Development	5.04356e+006	0.0272	0.2472	0.2077	1.4800e-003		0.0188	0.0188		0.0188	0.0188	0.0000	269.1434	269.1434	5.1600e-003	4.9300e-003	270.7428
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0272**	**0.2472**	**0.2077**	**1.4800e-003**		**0.0188**	**0.0188**		**0.0188**	**0.0188**	**0.0000**	**269.1434**	**269.1434**	**5.1600e-003**	**4.9300e-003**	**270.7428**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Research & Development	5.04356e+006	0.0272	0.2472	0.2077	1.4800e-003		0.0188	0.0188		0.0188	0.0188	0.0000	269.1434	269.1434	5.1600e-003	4.9300e-003	270.7428
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0272**	**0.2472**	**0.2077**	**1.4800e-003**		**0.0188**	**0.0188**		**0.0188**	**0.0188**	**0.0000**	**269.1434**	**269.1434**	**5.1600e-003**	**4.9300e-003**	**270.7428**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	634364	0.0000	0.0000	0.0000	0.0000
Parking Lot	18841.5	0.0000	0.0000	0.0000	0.0000
Research & Development	1.52518e+006	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	157131	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	634364	0.0000	0.0000	0.0000	0.0000
Parking Lot	18841.5	0.0000	0.0000	0.0000	0.0000
Research & Development	1.52518e+006	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	157131	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.9354	4.0000e-005	4.2700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.3200e-003	8.3200e-003	2.0000e-005	0.0000	8.8600e-003
Unmitigated	0.9354	4.0000e-005	4.2700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.3200e-003	8.3200e-003	2.0000e-005	0.0000	8.8600e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1165					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8185					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.9000e-004	4.0000e-005	4.2700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.3200e-003	8.3200e-003	2.0000e-005	0.0000	8.8600e-003
Total	**0.9354**	**4.0000e-005**	**4.2700e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**8.3200e-003**	**8.3200e-003**	**2.0000e-005**	**0.0000**	**8.8600e-003**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1165					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8185					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.9000e-004	4.0000e-005	4.2700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.3200e-003	8.3200e-003	2.0000e-005	0.0000	8.8600e-003
Total	**0.9354**	**4.0000e-005**	**4.2700e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**8.3200e-003**	**8.3200e-003**	**2.0000e-005**	**0.0000**	**8.8600e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	33.3214	3.4224	0.0808	142.9638
Unmitigated	33.3214	3.4224	0.0808	142.9638

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Research & Development	105.031 / 0	33.3214	3.4224	0.0808	142.9638
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**33.3214**	**3.4224**	**0.0808**	**142.9638**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Research & Development	105.031 / 0	33.3214	3.4224	0.0808	142.9638
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**33.3214**	**3.4224**	**0.0808**	**142.9638**

8.0 Waste Detail

8.1 Mitigation Measures Waste

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	3.2945	0.1947	0.0000	8.1621
Unmitigated	3.2945	0.1947	0.0000	8.1621

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Research & Development	16.23	3.2945	0.1947	0.0000	8.1621
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Total		**3.2945**	**0.1947**	**0.0000**	**8.1621**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Research & Development	16.23	3.2945	0.1947	0.0000	8.1621
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Total		**3.2945**	**0.1947**	**0.0000**	**8.1621**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	1	30	83	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

405 Industrial Road Project Conditions - San Mateo County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Equipment Type	Number

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (75 - 100 HP)	2.0400e-003	6.6600e-003	7.4100e-003	1.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	0.9482	0.9482	1.3000e-004	0.0000	0.9515
Total	**2.0400e-003**	**6.6600e-003**	**7.4100e-003**	**1.0000e-005**		**3.0000e-004**	**3.0000e-004**		**3.0000e-004**	**3.0000e-004**	**0.0000**	**0.9482**	**0.9482**	**1.3000e-004**	**0.0000**	**0.9515**

11.0 Vegetation

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405 Industrial Road Life Science Project IS/MND

Appendix B.2: Mitigated CalEEMod Output Files

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405 Industrial Road Project Conditions - San Mateo County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

405 Industrial Road Project Conditions

San Mateo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Research & Development	205.27	1000sqft	1.18	205,273.00	0
Enclosed Parking with Elevator	116.61	1000sqft	0.00	116,611.00	0
Parking Lot	53.83	1000sqft	1.24	53,833.00	0
Unenclosed Parking Structure	89.79	1000sqft	0.00	89,789.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	70
Climate Zone	5			**Operational Year**	2024
Utility Company	Peninsula Clean Energy				
CO2 Intensity (lb/MWhr)	0	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - MIG modeler KK

Land Use - Land use and building information from project applicant.

Construction Phase - Construction schedule provided by applicant

Off-road Equipment - default

Off-road Equipment - Equipment information modified to reflect project conditions

Off-road Equipment -

Off-road Equipment - Equipment information modified to reflect project conditions

Off-road Equipment - Default equipment

Off-road Equipment - default equipment

405 Industrial Road Project Conditions - San Mateo County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-road Equipment - Equipment modified to reflect project characteristics

Off-road Equipment -

Off-road Equipment - Equipment information modified to reflect project conditions

Off-road Equipment -

Off-road Equipment - Equipment information modified to reflect project characteristics

Trips and VMT - Truck hauling trips from site preparation are from applicant. Remaining values are default.

Demolition - Demolition of existing 55,000 sqft storage building

Grading - Material exported from project applicant. Remaining values are caleemod defaults.

Vehicle Trips - Trip rates modified based on information in Hexagon traffic report.

Vehicle Emission Factors - EMFAC2021 San Mateo 2024

Vehicle Emission Factors - EMFAC2021 San Mateo 2024

Vehicle Emission Factors - EMFAC2021 San Mateo 2024

Woodstoves -

Area Coating -

Construction Off-road Equipment Mitigation - Site watering twice a day

Stationary Sources - Emergency Generators and Fire Pumps - One emergency generator added to default

Stationary Sources - Process Boilers -

Stationary Sources - User Defined -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	102,637.00	106,806.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	307,910.00	320,418.00
tblArchitecturalCoating	ConstArea_Parking	15,614.00	14,635.00
tblAreaCoating	Area_Nonresidential_Exterior	102637	106806
tblAreaCoating	Area_Nonresidential_Interior	307910	320418
tblAreaCoating	Area_Parking	15614	14635
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	220.00	82.00
tblConstructionPhase	NumDays	220.00	72.00
tblConstructionPhase	NumDays	220.00	130.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	6.00	10.00
tblConstructionPhase	NumDays	10.00	60.00
tblConstructionPhase	NumDays	3.00	45.00
tblConstructionPhase	NumDays	3.00	35.00
tblConstructionPhase	NumDays	3.00	20.00
tblGrading	MaterialExported	0.00	49,600.00
tblLandUse	LandUseSquareFeet	205,270.00	205,273.00
tblLandUse	LandUseSquareFeet	116,610.00	116,611.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblLandUse	LandUseSquareFeet	53,830.00	53,833.00
tblLandUse	LandUseSquareFeet	89,790.00	89,789.00
tblLandUse	LotAcreage	4.71	1.18
tblLandUse	LotAcreage	2.68	0.00
tblLandUse	LotAcreage	2.06	0.00
tblOffRoadEquipment	HorsePower	89.00	367.00
tblOffRoadEquipment	LoadFactor	0.20	0.48
tblOffRoadEquipment	UsageHours	7.00	3.50
tblSolidWaste	SolidWasteGenerationRate	15.60	16.23
tblTripsAndVMT	HaulingTripNumber	6,200.00	8,268.00
tblTripsAndVMT	VendorTripNumber	76.00	75.00
tblTripsAndVMT	VendorTripNumber	76.00	75.00
tblTripsAndVMT	VendorTripNumber	76.00	75.00
tblTripsAndVMT	VendorTripNumber	76.00	75.00
tblTripsAndVMT	VendorTripNumber	76.00	75.00
tblTripsAndVMT	WorkerTripNumber	35.00	34.00
tblTripsAndVMT	WorkerTripNumber	175.00	171.00
tblTripsAndVMT	WorkerTripNumber	175.00	171.00
tblTripsAndVMT	WorkerTripNumber	175.00	171.00
tblTripsAndVMT	WorkerTripNumber	175.00	171.00
tblTripsAndVMT	WorkerTripNumber	175.00	171.00
tblVehicleEF	HHD	0.03	0.27
tblVehicleEF	HHD	0.17	0.26
tblVehicleEF	HHD	3.0000e-006	1.0000e-006
tblVehicleEF	HHD	5.25	4.67
tblVehicleEF	HHD	0.93	1.67
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	944.14	782.39
tblVehicleEF	HHD	1,618.63	1,785.76

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	HHD	0.26	0.29
tblVehicleEF	HHD	0.15	0.13
tblVehicleEF	HHD	0.26	0.29
tblVehicleEF	HHD	3.0000e-006	1.0000e-006
tblVehicleEF	HHD	5.30	4.03
tblVehicleEF	HHD	3.11	2.65
tblVehicleEF	HHD	2.39	2.71
tblVehicleEF	HHD	3.9570e-003	3.2460e-003
tblVehicleEF	HHD	0.06	0.09
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	2.0000e-006	5.0000e-006
tblVehicleEF	HHD	3.7860e-003	3.1010e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.7110e-003	8.6250e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	2.0000e-006	4.0000e-006
tblVehicleEF	HHD	4.0000e-006	7.3600e-004
tblVehicleEF	HHD	1.8800e-004	2.1400e-004
tblVehicleEF	HHD	0.36	0.29
tblVehicleEF	HHD	3.0000e-006	0.00
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.7000e-005	1.9900e-004
tblVehicleEF	HHD	1.4000e-005	3.0000e-006
tblVehicleEF	HHD	8.4280e-003	6.5500e-003
tblVehicleEF	HHD	0.01	0.02
tblVehicleEF	HHD	4.0000e-006	7.3600e-004
tblVehicleEF	HHD	1.8800e-004	2.1400e-004
tblVehicleEF	HHD	0.42	0.59

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	HHD	3.0000e-006	0.00
tblVehicleEF	HHD	0.21	3.0000e-006
tblVehicleEF	HHD	8.7000e-005	1.9900e-004
tblVehicleEF	HHD	1.6000e-005	3.0000e-006
tblVehicleEF	HHD	0.03	0.27
tblVehicleEF	HHD	0.17	0.26
tblVehicleEF	HHD	3.0000e-006	1.0000e-006
tblVehicleEF	HHD	5.15	4.60
tblVehicleEF	HHD	0.93	1.68
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	939.25	778.30
tblVehicleEF	HHD	1,618.64	1,785.77
tblVehicleEF	HHD	0.26	0.29
tblVehicleEF	HHD	0.15	0.13
tblVehicleEF	HHD	0.26	0.29
tblVehicleEF	HHD	3.0000e-006	1.0000e-006
tblVehicleEF	HHD	5.14	3.91
tblVehicleEF	HHD	3.00	2.55
tblVehicleEF	HHD	2.39	2.71
tblVehicleEF	HHD	3.4070e-003	2.8130e-003
tblVehicleEF	HHD	0.06	0.09
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	2.0000e-006	5.0000e-006
tblVehicleEF	HHD	3.2590e-003	2.6850e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.7110e-003	8.6250e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	2.0000e-006	4.0000e-006

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	HHD	9.0000e-006	1.0620e-003
tblVehicleEF	HHD	2.0300e-004	2.3400e-004
tblVehicleEF	HHD	0.38	0.30
tblVehicleEF	HHD	5.0000e-006	0.00
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.3000e-005	2.0200e-004
tblVehicleEF	HHD	1.3000e-005	3.0000e-006
tblVehicleEF	HHD	8.3810e-003	6.5110e-003
tblVehicleEF	HHD	0.01	0.02
tblVehicleEF	HHD	9.0000e-006	1.0620e-003
tblVehicleEF	HHD	2.0300e-004	2.3400e-004
tblVehicleEF	HHD	0.44	0.61
tblVehicleEF	HHD	5.0000e-006	0.00
tblVehicleEF	HHD	0.21	2.0000e-006
tblVehicleEF	HHD	8.3000e-005	2.0200e-004
tblVehicleEF	HHD	1.4000e-005	3.0000e-006
tblVehicleEF	HHD	0.03	0.27
tblVehicleEF	HHD	0.17	0.26
tblVehicleEF	HHD	3.0000e-006	1.0000e-006
tblVehicleEF	HHD	5.39	4.77
tblVehicleEF	HHD	0.93	1.67
tblVehicleEF	HHD	0.04	0.03
tblVehicleEF	HHD	950.91	788.03
tblVehicleEF	HHD	1,618.62	1,785.75
tblVehicleEF	HHD	0.27	0.30
tblVehicleEF	HHD	0.15	0.13
tblVehicleEF	HHD	0.26	0.29
tblVehicleEF	HHD	3.0000e-006	1.0000e-006
tblVehicleEF	HHD	5.53	4.20

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	HHD	3.16	2.69
tblVehicleEF	HHD	2.39	2.71
tblVehicleEF	HHD	4.7170e-003	3.8450e-003
tblVehicleEF	HHD	0.06	0.09
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	2.0000e-006	5.0000e-006
tblVehicleEF	HHD	4.5130e-003	3.6740e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.7110e-003	8.6250e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	2.0000e-006	4.0000e-006
tblVehicleEF	HHD	2.0000e-006	6.6900e-004
tblVehicleEF	HHD	1.9600e-004	2.0200e-004
tblVehicleEF	HHD	0.33	0.27
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	9.8000e-005	2.0800e-004
tblVehicleEF	HHD	1.5000e-005	3.0000e-006
tblVehicleEF	HHD	8.4940e-003	6.6030e-003
tblVehicleEF	HHD	0.01	0.02
tblVehicleEF	HHD	2.0000e-006	6.6900e-004
tblVehicleEF	HHD	1.9600e-004	2.0200e-004
tblVehicleEF	HHD	0.39	0.57
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	0.21	3.0000e-006
tblVehicleEF	HHD	9.8000e-005	2.0800e-004
tblVehicleEF	HHD	1.6000e-005	3.0000e-006
tblVehicleEF	LDA	1.5500e-003	1.8160e-003

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.49	0.57
tblVehicleEF	LDA	2.11	2.92
tblVehicleEF	LDA	231.09	246.71
tblVehicleEF	LDA	49.25	64.18
tblVehicleEF	LDA	3.7240e-003	3.8360e-003
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.16	0.23
tblVehicleEF	LDA	0.04	6.4230e-003
tblVehicleEF	LDA	1.2500e-003	1.1640e-003
tblVehicleEF	LDA	1.6730e-003	1.9790e-003
tblVehicleEF	LDA	0.02	2.2480e-003
tblVehicleEF	LDA	1.1510e-003	1.0720e-003
tblVehicleEF	LDA	1.5380e-003	1.8200e-003
tblVehicleEF	LDA	0.03	0.25
tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.03	0.00
tblVehicleEF	LDA	5.8840e-003	7.0240e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.19	0.29
tblVehicleEF	LDA	2.2860e-003	2.4390e-003
tblVehicleEF	LDA	4.8700e-004	6.3400e-004
tblVehicleEF	LDA	0.03	0.25
tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.03	0.00
tblVehicleEF	LDA	8.5530e-003	0.31
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.21	0.32

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LDA	1.7200e-003	1.9230e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.55	0.72
tblVehicleEF	LDA	1.66	2.29
tblVehicleEF	LDA	245.41	262.46
tblVehicleEF	LDA	48.43	63.03
tblVehicleEF	LDA	3.4460e-003	3.4080e-003
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.14	0.20
tblVehicleEF	LDA	0.04	6.4230e-003
tblVehicleEF	LDA	1.2500e-003	1.1640e-003
tblVehicleEF	LDA	1.6730e-003	1.9790e-003
tblVehicleEF	LDA	0.02	2.2480e-003
tblVehicleEF	LDA	1.1510e-003	1.0720e-003
tblVehicleEF	LDA	1.5380e-003	1.8200e-003
tblVehicleEF	LDA	0.07	0.31
tblVehicleEF	LDA	0.09	0.08
tblVehicleEF	LDA	0.05	0.00
tblVehicleEF	LDA	6.4140e-003	7.3020e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.16	0.24
tblVehicleEF	LDA	2.4280e-003	2.5940e-003
tblVehicleEF	LDA	4.7900e-004	6.2300e-004
tblVehicleEF	LDA	0.07	0.31
tblVehicleEF	LDA	0.09	0.08
tblVehicleEF	LDA	0.05	0.00
tblVehicleEF	LDA	9.3270e-003	0.26
tblVehicleEF	LDA	0.03	0.03

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LDA	0.18	0.27
tblVehicleEF	LDA	1.5050e-003	1.7690e-003
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.49	0.57
tblVehicleEF	LDA	2.42	3.35
tblVehicleEF	LDA	230.22	245.74
tblVehicleEF	LDA	49.81	64.98
tblVehicleEF	LDA	3.9420e-003	4.0870e-003
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.17	0.24
tblVehicleEF	LDA	0.04	6.4230e-003
tblVehicleEF	LDA	1.2500e-003	1.1640e-003
tblVehicleEF	LDA	1.6730e-003	1.9790e-003
tblVehicleEF	LDA	0.02	2.2480e-003
tblVehicleEF	LDA	1.1510e-003	1.0720e-003
tblVehicleEF	LDA	1.5380e-003	1.8200e-003
tblVehicleEF	LDA	0.02	0.23
tblVehicleEF	LDA	0.09	0.07
tblVehicleEF	LDA	0.01	0.00
tblVehicleEF	LDA	5.7810e-003	6.9200e-003
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.21	0.32
tblVehicleEF	LDA	2.2770e-003	2.4290e-003
tblVehicleEF	LDA	4.9300e-004	6.4200e-004
tblVehicleEF	LDA	0.02	0.23
tblVehicleEF	LDA	0.09	0.07
tblVehicleEF	LDA	0.01	0.00
tblVehicleEF	LDA	8.4030e-003	0.35

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.23	0.35
tblVehicleEF	LDT1	2.4400e-003	4.7080e-003
tblVehicleEF	LDT1	0.05	0.09
tblVehicleEF	LDT1	0.64	1.09
tblVehicleEF	LDT1	2.21	4.62
tblVehicleEF	LDT1	271.39	318.31
tblVehicleEF	LDT1	57.89	83.21
tblVehicleEF	LDT1	4.5100e-003	7.5870e-003
tblVehicleEF	LDT1	0.02	0.04
tblVehicleEF	LDT1	0.05	0.10
tblVehicleEF	LDT1	0.18	0.34
tblVehicleEF	LDT1	0.04	8.0370e-003
tblVehicleEF	LDT1	1.5140e-003	1.6830e-003
tblVehicleEF	LDT1	1.9900e-003	2.6340e-003
tblVehicleEF	LDT1	0.02	2.8130e-003
tblVehicleEF	LDT1	1.3930e-003	1.5480e-003
tblVehicleEF	LDT1	1.8300e-003	2.4220e-003
tblVehicleEF	LDT1	0.04	0.46
tblVehicleEF	LDT1	0.10	0.13
tblVehicleEF	LDT1	0.04	0.00
tblVehicleEF	LDT1	0.01	0.02
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.22	0.46
tblVehicleEF	LDT1	2.6860e-003	3.1470e-003
tblVehicleEF	LDT1	5.7300e-004	8.2300e-004
tblVehicleEF	LDT1	0.04	0.46
tblVehicleEF	LDT1	0.10	0.13
tblVehicleEF	LDT1	0.04	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LDT1	0.01	0.51
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.24	0.51
tblVehicleEF	LDT1	2.6840e-003	4.9640e-003
tblVehicleEF	LDT1	0.04	0.08
tblVehicleEF	LDT1	0.73	1.36
tblVehicleEF	LDT1	1.74	3.60
tblVehicleEF	LDT1	285.79	336.41
tblVehicleEF	LDT1	57.02	81.34
tblVehicleEF	LDT1	4.1300e-003	6.7330e-003
tblVehicleEF	LDT1	0.02	0.03
tblVehicleEF	LDT1	0.04	0.09
tblVehicleEF	LDT1	0.16	0.30
tblVehicleEF	LDT1	0.04	8.0370e-003
tblVehicleEF	LDT1	1.5140e-003	1.6830e-003
tblVehicleEF	LDT1	1.9900e-003	2.6340e-003
tblVehicleEF	LDT1	0.02	2.8130e-003
tblVehicleEF	LDT1	1.3930e-003	1.5480e-003
tblVehicleEF	LDT1	1.8300e-003	2.4220e-003
tblVehicleEF	LDT1	0.10	0.59
tblVehicleEF	LDT1	0.10	0.14
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.01	0.02
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.18	0.39
tblVehicleEF	LDT1	2.8280e-003	3.3260e-003
tblVehicleEF	LDT1	5.6400e-004	8.0400e-004
tblVehicleEF	LDT1	0.10	0.59
tblVehicleEF	LDT1	0.10	0.14

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.02	0.42
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.20	0.42
tblVehicleEF	LDT1	2.3790e-003	4.6030e-003
tblVehicleEF	LDT1	0.05	0.10
tblVehicleEF	LDT1	0.64	1.08
tblVehicleEF	LDT1	2.54	5.32
tblVehicleEF	LDT1	270.51	317.21
tblVehicleEF	LDT1	58.49	84.51
tblVehicleEF	LDT1	4.7980e-003	8.0870e-003
tblVehicleEF	LDT1	0.02	0.04
tblVehicleEF	LDT1	0.05	0.11
tblVehicleEF	LDT1	0.20	0.36
tblVehicleEF	LDT1	0.04	8.0370e-003
tblVehicleEF	LDT1	1.5140e-003	1.6830e-003
tblVehicleEF	LDT1	1.9900e-003	2.6340e-003
tblVehicleEF	LDT1	0.02	2.8130e-003
tblVehicleEF	LDT1	1.3930e-003	1.5480e-003
tblVehicleEF	LDT1	1.8300e-003	2.4220e-003
tblVehicleEF	LDT1	0.02	0.43
tblVehicleEF	LDT1	0.10	0.13
tblVehicleEF	LDT1	0.02	0.00
tblVehicleEF	LDT1	9.8730e-003	0.02
tblVehicleEF	LDT1	0.08	0.06
tblVehicleEF	LDT1	0.25	0.52
tblVehicleEF	LDT1	2.6770e-003	3.1360e-003
tblVehicleEF	LDT1	5.7900e-004	8.3600e-004
tblVehicleEF	LDT1	0.02	0.43

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LDT1	0.10	0.13
tblVehicleEF	LDT1	0.02	0.00
tblVehicleEF	LDT1	0.01	0.56
tblVehicleEF	LDT1	0.08	0.06
tblVehicleEF	LDT1	0.27	0.56
tblVehicleEF	LDT2	2.1380e-003	2.1100e-003
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.59	0.64
tblVehicleEF	LDT2	2.61	3.21
tblVehicleEF	LDT2	285.14	327.47
tblVehicleEF	LDT2	61.30	83.04
tblVehicleEF	LDT2	4.5260e-003	4.6930e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.04	0.05
tblVehicleEF	LDT2	0.21	0.27
tblVehicleEF	LDT2	0.04	7.6930e-003
tblVehicleEF	LDT2	1.3550e-003	1.2500e-003
tblVehicleEF	LDT2	1.7390e-003	2.0170e-003
tblVehicleEF	LDT2	0.02	2.6930e-003
tblVehicleEF	LDT2	1.2470e-003	1.1500e-003
tblVehicleEF	LDT2	1.5990e-003	1.8550e-003
tblVehicleEF	LDT2	0.03	0.19
tblVehicleEF	LDT2	0.08	0.06
tblVehicleEF	LDT2	0.04	0.00
tblVehicleEF	LDT2	8.2710e-003	8.0290e-003
tblVehicleEF	LDT2	0.05	0.02
tblVehicleEF	LDT2	0.24	0.32
tblVehicleEF	LDT2	2.8210e-003	3.2370e-003
tblVehicleEF	LDT2	6.0700e-004	8.2100e-004

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LDT2	0.03	0.19
tblVehicleEF	LDT2	0.08	0.06
tblVehicleEF	LDT2	0.04	0.00
tblVehicleEF	LDT2	0.01	0.35
tblVehicleEF	LDT2	0.05	0.02
tblVehicleEF	LDT2	0.26	0.35
tblVehicleEF	LDT2	2.3640e-003	2.2330e-003
tblVehicleEF	LDT2	0.05	0.06
tblVehicleEF	LDT2	0.67	0.80
tblVehicleEF	LDT2	2.05	2.52
tblVehicleEF	LDT2	298.83	344.35
tblVehicleEF	LDT2	60.29	81.78
tblVehicleEF	LDT2	4.1790e-003	4.1800e-003
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.18	0.24
tblVehicleEF	LDT2	0.04	7.6930e-003
tblVehicleEF	LDT2	1.3550e-003	1.2500e-003
tblVehicleEF	LDT2	1.7390e-003	2.0170e-003
tblVehicleEF	LDT2	0.02	2.6930e-003
tblVehicleEF	LDT2	1.2470e-003	1.1500e-003
tblVehicleEF	LDT2	1.5990e-003	1.8550e-003
tblVehicleEF	LDT2	0.08	0.24
tblVehicleEF	LDT2	0.08	0.06
tblVehicleEF	LDT2	0.06	0.00
tblVehicleEF	LDT2	8.9960e-003	8.3460e-003
tblVehicleEF	LDT2	0.04	0.02
tblVehicleEF	LDT2	0.20	0.27
tblVehicleEF	LDT2	2.9560e-003	3.4040e-003

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LDT2	5.9700e-004	8.0800e-004
tblVehicleEF	LDT2	0.08	0.24
tblVehicleEF	LDT2	0.08	0.06
tblVehicleEF	LDT2	0.06	0.00
tblVehicleEF	LDT2	0.01	0.29
tblVehicleEF	LDT2	0.04	0.02
tblVehicleEF	LDT2	0.22	0.29
tblVehicleEF	LDT2	2.0780e-003	2.0560e-003
tblVehicleEF	LDT2	0.06	0.08
tblVehicleEF	LDT2	0.59	0.63
tblVehicleEF	LDT2	3.00	3.69
tblVehicleEF	LDT2	284.30	326.44
tblVehicleEF	LDT2	62.00	83.92
tblVehicleEF	LDT2	4.7940e-003	4.9930e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.22	0.29
tblVehicleEF	LDT2	0.04	7.6930e-003
tblVehicleEF	LDT2	1.3550e-003	1.2500e-003
tblVehicleEF	LDT2	1.7390e-003	2.0170e-003
tblVehicleEF	LDT2	0.02	2.6930e-003
tblVehicleEF	LDT2	1.2470e-003	1.1500e-003
tblVehicleEF	LDT2	1.5990e-003	1.8550e-003
tblVehicleEF	LDT2	0.02	0.18
tblVehicleEF	LDT2	0.08	0.06
tblVehicleEF	LDT2	0.02	0.00
tblVehicleEF	LDT2	8.1300e-003	7.9130e-003
tblVehicleEF	LDT2	0.06	0.02
tblVehicleEF	LDT2	0.27	0.35

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LDT2	2.8120e-003	3.2270e-003
tblVehicleEF	LDT2	6.1400e-004	8.3000e-004
tblVehicleEF	LDT2	0.02	0.18
tblVehicleEF	LDT2	0.08	0.06
tblVehicleEF	LDT2	0.02	0.00
tblVehicleEF	LDT2	0.01	0.39
tblVehicleEF	LDT2	0.06	0.02
tblVehicleEF	LDT2	0.29	0.39
tblVehicleEF	LHD1	4.8690e-003	5.3230e-003
tblVehicleEF	LHD1	6.2330e-003	5.7120e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.18	0.20
tblVehicleEF	LHD1	0.54	0.73
tblVehicleEF	LHD1	1.00	2.42
tblVehicleEF	LHD1	8.66	8.42
tblVehicleEF	LHD1	766.61	763.92
tblVehicleEF	LHD1	11.40	19.31
tblVehicleEF	LHD1	7.2200e-004	5.7700e-004
tblVehicleEF	LHD1	0.04	0.04
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	0.05	0.04
tblVehicleEF	LHD1	0.39	0.40
tblVehicleEF	LHD1	0.27	0.41
tblVehicleEF	LHD1	8.3600e-004	6.1000e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	9.7710e-003	9.2850e-003
tblVehicleEF	LHD1	7.3860e-003	9.2260e-003
tblVehicleEF	LHD1	2.3100e-004	1.8200e-004
tblVehicleEF	LHD1	8.0000e-004	5.8400e-004

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.4430e-003	2.3210e-003
tblVehicleEF	LHD1	7.0200e-003	8.7890e-003
tblVehicleEF	LHD1	2.1200e-004	1.6700e-004
tblVehicleEF	LHD1	1.1350e-003	0.09
tblVehicleEF	LHD1	0.05	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	7.2100e-004	0.00
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.15	0.05
tblVehicleEF	LHD1	0.06	0.10
tblVehicleEF	LHD1	8.4000e-005	8.2000e-005
tblVehicleEF	LHD1	7.4860e-003	7.4700e-003
tblVehicleEF	LHD1	1.1300e-004	1.9100e-004
tblVehicleEF	LHD1	1.1350e-003	0.09
tblVehicleEF	LHD1	0.05	0.02
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	7.2100e-004	0.00
tblVehicleEF	LHD1	0.09	0.10
tblVehicleEF	LHD1	0.15	0.05
tblVehicleEF	LHD1	0.06	0.11
tblVehicleEF	LHD1	4.8830e-003	5.3480e-003
tblVehicleEF	LHD1	6.3690e-003	5.8960e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.18	0.20
tblVehicleEF	LHD1	0.55	0.76
tblVehicleEF	LHD1	0.93	2.25
tblVehicleEF	LHD1	8.66	8.42
tblVehicleEF	LHD1	766.63	763.96

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LHD1	11.28	19.02
tblVehicleEF	LHD1	7.2500e-004	5.8100e-004
tblVehicleEF	LHD1	0.04	0.04
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	0.05	0.04
tblVehicleEF	LHD1	0.38	0.38
tblVehicleEF	LHD1	0.25	0.38
tblVehicleEF	LHD1	8.3600e-004	6.1000e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	9.7710e-003	9.2850e-003
tblVehicleEF	LHD1	7.3860e-003	9.2260e-003
tblVehicleEF	LHD1	2.3100e-004	1.8200e-004
tblVehicleEF	LHD1	8.0000e-004	5.8400e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.4430e-003	2.3210e-003
tblVehicleEF	LHD1	7.0200e-003	8.7890e-003
tblVehicleEF	LHD1	2.1200e-004	1.6700e-004
tblVehicleEF	LHD1	2.7340e-003	0.11
tblVehicleEF	LHD1	0.05	0.03
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.2220e-003	0.00
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.14	0.05
tblVehicleEF	LHD1	0.05	0.09
tblVehicleEF	LHD1	8.4000e-005	8.2000e-005
tblVehicleEF	LHD1	7.4860e-003	7.4700e-003
tblVehicleEF	LHD1	1.1200e-004	1.8800e-004
tblVehicleEF	LHD1	2.7340e-003	0.11
tblVehicleEF	LHD1	0.05	0.03

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.2220e-003	0.00
tblVehicleEF	LHD1	0.09	0.10
tblVehicleEF	LHD1	0.14	0.05
tblVehicleEF	LHD1	0.06	0.10
tblVehicleEF	LHD1	4.8580e-003	5.3050e-003
tblVehicleEF	LHD1	6.1450e-003	5.6480e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.18	0.20
tblVehicleEF	LHD1	0.53	0.72
tblVehicleEF	LHD1	1.06	2.56
tblVehicleEF	LHD1	8.66	8.42
tblVehicleEF	LHD1	766.60	763.90
tblVehicleEF	LHD1	11.51	19.56
tblVehicleEF	LHD1	7.2000e-004	5.7500e-004
tblVehicleEF	LHD1	0.04	0.04
tblVehicleEF	LHD1	0.02	0.04
tblVehicleEF	LHD1	0.05	0.04
tblVehicleEF	LHD1	0.40	0.41
tblVehicleEF	LHD1	0.29	0.43
tblVehicleEF	LHD1	8.3600e-004	6.1000e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	9.7710e-003	9.2850e-003
tblVehicleEF	LHD1	7.3860e-003	9.2260e-003
tblVehicleEF	LHD1	2.3100e-004	1.8200e-004
tblVehicleEF	LHD1	8.0000e-004	5.8400e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.4430e-003	2.3210e-003
tblVehicleEF	LHD1	7.0200e-003	8.7890e-003

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LHD1	2.1200e-004	1.6700e-004
tblVehicleEF	LHD1	6.7100e-004	0.09
tblVehicleEF	LHD1	0.06	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.0900e-004	0.00
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.17	0.05
tblVehicleEF	LHD1	0.06	0.11
tblVehicleEF	LHD1	8.4000e-005	8.2000e-005
tblVehicleEF	LHD1	7.4850e-003	7.4690e-003
tblVehicleEF	LHD1	1.1400e-004	1.9300e-004
tblVehicleEF	LHD1	6.7100e-004	0.09
tblVehicleEF	LHD1	0.06	0.02
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	3.0900e-004	0.00
tblVehicleEF	LHD1	0.09	0.11
tblVehicleEF	LHD1	0.17	0.05
tblVehicleEF	LHD1	0.06	0.12
tblVehicleEF	LHD2	3.0260e-003	3.0920e-003
tblVehicleEF	LHD2	5.6680e-003	5.3750e-003
tblVehicleEF	LHD2	6.5810e-003	0.01
tblVehicleEF	LHD2	0.14	0.15
tblVehicleEF	LHD2	0.47	0.46
tblVehicleEF	LHD2	0.59	1.36
tblVehicleEF	LHD2	13.42	13.11
tblVehicleEF	LHD2	742.79	804.88
tblVehicleEF	LHD2	7.75	10.40
tblVehicleEF	LHD2	1.6540e-003	1.5540e-003
tblVehicleEF	LHD2	0.07	0.08

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	0.08	0.07
tblVehicleEF	LHD2	0.43	0.53
tblVehicleEF	LHD2	0.16	0.24
tblVehicleEF	LHD2	1.3960e-003	1.3030e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.2500e-004	9.1000e-005
tblVehicleEF	LHD2	1.3360e-003	1.2470e-003
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	2.6840e-003	2.6480e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	1.1500e-004	8.3000e-005
tblVehicleEF	LHD2	6.1800e-004	0.05
tblVehicleEF	LHD2	0.03	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	3.9800e-004	0.00
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.08	0.03
tblVehicleEF	LHD2	0.03	0.06
tblVehicleEF	LHD2	1.2800e-004	1.2600e-004
tblVehicleEF	LHD2	7.1760e-003	7.7600e-003
tblVehicleEF	LHD2	7.7000e-005	1.0300e-004
tblVehicleEF	LHD2	6.1800e-004	0.05
tblVehicleEF	LHD2	0.03	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	3.9800e-004	0.00
tblVehicleEF	LHD2	0.11	0.05

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LHD2	0.08	0.03
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	3.0340e-003	3.1060e-003
tblVehicleEF	LHD2	5.7250e-003	5.4350e-003
tblVehicleEF	LHD2	6.2100e-003	0.01
tblVehicleEF	LHD2	0.14	0.15
tblVehicleEF	LHD2	0.48	0.47
tblVehicleEF	LHD2	0.55	1.27
tblVehicleEF	LHD2	13.42	13.11
tblVehicleEF	LHD2	742.80	804.90
tblVehicleEF	LHD2	7.68	10.24
tblVehicleEF	LHD2	1.6560e-003	1.5560e-003
tblVehicleEF	LHD2	0.06	0.08
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	0.08	0.07
tblVehicleEF	LHD2	0.41	0.51
tblVehicleEF	LHD2	0.15	0.22
tblVehicleEF	LHD2	1.3960e-003	1.3030e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.2500e-004	9.1000e-005
tblVehicleEF	LHD2	1.3360e-003	1.2470e-003
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	2.6840e-003	2.6480e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	1.1500e-004	8.3000e-005
tblVehicleEF	LHD2	1.4860e-003	0.07
tblVehicleEF	LHD2	0.03	0.02

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.7500e-004	0.00
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.07	0.03
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	1.2800e-004	1.2600e-004
tblVehicleEF	LHD2	7.1760e-003	7.7610e-003
tblVehicleEF	LHD2	7.6000e-005	1.0100e-004
tblVehicleEF	LHD2	1.4860e-003	0.07
tblVehicleEF	LHD2	0.03	0.02
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.7500e-004	0.00
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	0.07	0.03
tblVehicleEF	LHD2	0.03	0.06
tblVehicleEF	LHD2	3.0200e-003	3.0820e-003
tblVehicleEF	LHD2	5.6300e-003	5.3350e-003
tblVehicleEF	LHD2	6.8580e-003	0.01
tblVehicleEF	LHD2	0.14	0.15
tblVehicleEF	LHD2	0.47	0.46
tblVehicleEF	LHD2	0.63	1.44
tblVehicleEF	LHD2	13.42	13.11
tblVehicleEF	LHD2	742.78	804.87
tblVehicleEF	LHD2	7.81	10.54
tblVehicleEF	LHD2	1.6530e-003	1.5520e-003
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	0.08	0.07
tblVehicleEF	LHD2	0.43	0.54

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LHD2	0.17	0.25
tblVehicleEF	LHD2	1.3960e-003	1.3030e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.2500e-004	9.1000e-005
tblVehicleEF	LHD2	1.3360e-003	1.2470e-003
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	2.6840e-003	2.6480e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	1.1500e-004	8.3000e-005
tblVehicleEF	LHD2	3.7200e-004	0.05
tblVehicleEF	LHD2	0.03	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.7400e-004	0.00
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.09	0.03
tblVehicleEF	LHD2	0.03	0.06
tblVehicleEF	LHD2	1.2800e-004	1.2600e-004
tblVehicleEF	LHD2	7.1760e-003	7.7600e-003
tblVehicleEF	LHD2	7.7000e-005	1.0400e-004
tblVehicleEF	LHD2	3.7200e-004	0.05
tblVehicleEF	LHD2	0.03	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.7400e-004	0.00
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	0.09	0.03
tblVehicleEF	LHD2	0.04	0.07
tblVehicleEF	MCY	0.33	0.15

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MCY	0.26	0.17
tblVehicleEF	MCY	18.49	11.05
tblVehicleEF	MCY	9.24	7.75
tblVehicleEF	MCY	212.87	186.93
tblVehicleEF	MCY	60.07	46.09
tblVehicleEF	MCY	0.07	0.04
tblVehicleEF	MCY	0.02	7.5490e-003
tblVehicleEF	MCY	1.15	0.52
tblVehicleEF	MCY	0.27	0.13
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.1340e-003	2.0120e-003
tblVehicleEF	MCY	3.1040e-003	3.7080e-003
tblVehicleEF	MCY	5.0400e-003	4.2000e-003
tblVehicleEF	MCY	1.9920e-003	1.8810e-003
tblVehicleEF	MCY	2.9110e-003	3.4820e-003
tblVehicleEF	MCY	0.61	1.64
tblVehicleEF	MCY	0.52	3.55
tblVehicleEF	MCY	0.36	0.00
tblVehicleEF	MCY	2.18	0.93
tblVehicleEF	MCY	0.42	1.28
tblVehicleEF	MCY	1.94	1.28
tblVehicleEF	MCY	2.1060e-003	1.8480e-003
tblVehicleEF	MCY	5.9400e-004	4.5600e-004
tblVehicleEF	MCY	0.61	1.64
tblVehicleEF	MCY	0.52	3.55
tblVehicleEF	MCY	0.36	0.00
tblVehicleEF	MCY	2.72	1.39
tblVehicleEF	MCY	0.42	1.28
tblVehicleEF	MCY	2.11	1.39

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MCY	0.32	0.15
tblVehicleEF	MCY	0.22	0.15
tblVehicleEF	MCY	17.36	10.90
tblVehicleEF	MCY	7.91	6.59
tblVehicleEF	MCY	210.79	186.65
tblVehicleEF	MCY	56.88	43.55
tblVehicleEF	MCY	0.06	0.03
tblVehicleEF	MCY	0.01	7.1610e-003
tblVehicleEF	MCY	1.01	0.46
tblVehicleEF	MCY	0.25	0.12
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.1340e-003	2.0120e-003
tblVehicleEF	MCY	3.1040e-003	3.7080e-003
tblVehicleEF	MCY	5.0400e-003	4.2000e-003
tblVehicleEF	MCY	1.9920e-003	1.8810e-003
tblVehicleEF	MCY	2.9110e-003	3.4820e-003
tblVehicleEF	MCY	1.81	2.47
tblVehicleEF	MCY	0.64	3.69
tblVehicleEF	MCY	0.88	0.00
tblVehicleEF	MCY	2.10	0.92
tblVehicleEF	MCY	0.38	1.25
tblVehicleEF	MCY	1.61	1.06
tblVehicleEF	MCY	2.0860e-003	1.8450e-003
tblVehicleEF	MCY	5.6300e-004	4.3100e-004
tblVehicleEF	MCY	1.81	2.47
tblVehicleEF	MCY	0.64	3.69
tblVehicleEF	MCY	0.88	0.00
tblVehicleEF	MCY	2.62	1.15
tblVehicleEF	MCY	0.38	1.25

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MCY	1.76	1.15
tblVehicleEF	MCY	0.34	0.15
tblVehicleEF	MCY	0.29	0.19
tblVehicleEF	MCY	19.77	11.30
tblVehicleEF	MCY	10.45	8.77
tblVehicleEF	MCY	215.16	187.38
tblVehicleEF	MCY	62.88	48.30
tblVehicleEF	MCY	0.07	0.04
tblVehicleEF	MCY	0.02	7.8380e-003
tblVehicleEF	MCY	1.22	0.55
tblVehicleEF	MCY	0.29	0.13
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.1340e-003	2.0120e-003
tblVehicleEF	MCY	3.1040e-003	3.7080e-003
tblVehicleEF	MCY	5.0400e-003	4.2000e-003
tblVehicleEF	MCY	1.9920e-003	1.8810e-003
tblVehicleEF	MCY	2.9110e-003	3.4820e-003
tblVehicleEF	MCY	0.26	1.50
tblVehicleEF	MCY	0.64	3.40
tblVehicleEF	MCY	0.12	0.00
tblVehicleEF	MCY	2.25	0.95
tblVehicleEF	MCY	0.50	4.03
tblVehicleEF	MCY	2.21	1.45
tblVehicleEF	MCY	2.1290e-003	1.8520e-003
tblVehicleEF	MCY	6.2200e-004	4.7700e-004
tblVehicleEF	MCY	0.26	1.50
tblVehicleEF	MCY	0.64	3.40
tblVehicleEF	MCY	0.12	0.00
tblVehicleEF	MCY	2.81	1.58

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MCY	0.50	1.39
tblVehicleEF	MCY	2.40	1.58
tblVehicleEF	MDV	2.2040e-003	2.4060e-003
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.58	0.66
tblVehicleEF	MDV	2.74	3.34
tblVehicleEF	MDV	342.68	392.51
tblVehicleEF	MDV	72.68	98.90
tblVehicleEF	MDV	5.9130e-003	5.7940e-003
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.04	0.06
tblVehicleEF	MDV	0.23	0.32
tblVehicleEF	MDV	0.04	7.7260e-003
tblVehicleEF	MDV	1.3830e-003	1.2700e-003
tblVehicleEF	MDV	1.7680e-003	2.0650e-003
tblVehicleEF	MDV	0.02	2.7040e-003
tblVehicleEF	MDV	1.2750e-003	1.1700e-003
tblVehicleEF	MDV	1.6260e-003	1.8980e-003
tblVehicleEF	MDV	0.04	0.22
tblVehicleEF	MDV	0.08	0.06
tblVehicleEF	MDV	0.04	0.00
tblVehicleEF	MDV	8.7520e-003	9.6890e-003
tblVehicleEF	MDV	0.05	0.02
tblVehicleEF	MDV	0.27	0.38
tblVehicleEF	MDV	3.3860e-003	3.8780e-003
tblVehicleEF	MDV	7.1900e-004	9.7800e-004
tblVehicleEF	MDV	0.04	0.22
tblVehicleEF	MDV	0.08	0.06
tblVehicleEF	MDV	0.04	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MDV	0.01	0.42
tblVehicleEF	MDV	0.05	0.02
tblVehicleEF	MDV	0.30	0.42
tblVehicleEF	MDV	2.4360e-003	2.5440e-003
tblVehicleEF	MDV	0.05	0.07
tblVehicleEF	MDV	0.66	0.83
tblVehicleEF	MDV	2.16	2.62
tblVehicleEF	MDV	356.18	409.29
tblVehicleEF	MDV	71.60	97.55
tblVehicleEF	MDV	5.5580e-003	5.2300e-003
tblVehicleEF	MDV	0.02	0.03
tblVehicleEF	MDV	0.04	0.05
tblVehicleEF	MDV	0.20	0.28
tblVehicleEF	MDV	0.04	7.7260e-003
tblVehicleEF	MDV	1.3830e-003	1.2700e-003
tblVehicleEF	MDV	1.7680e-003	2.0650e-003
tblVehicleEF	MDV	0.02	2.7040e-003
tblVehicleEF	MDV	1.2750e-003	1.1700e-003
tblVehicleEF	MDV	1.6260e-003	1.8980e-003
tblVehicleEF	MDV	0.10	0.28
tblVehicleEF	MDV	0.09	0.07
tblVehicleEF	MDV	0.07	0.00
tblVehicleEF	MDV	9.4890e-003	0.01
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.23	0.32
tblVehicleEF	MDV	3.5200e-003	4.0440e-003
tblVehicleEF	MDV	7.0900e-004	9.6400e-004
tblVehicleEF	MDV	0.10	0.28
tblVehicleEF	MDV	0.09	0.07

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MDV	0.07	0.00
tblVehicleEF	MDV	0.01	0.35
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.25	0.35
tblVehicleEF	MDV	2.1450e-003	2.3480e-003
tblVehicleEF	MDV	0.06	0.09
tblVehicleEF	MDV	0.58	0.66
tblVehicleEF	MDV	3.16	3.84
tblVehicleEF	MDV	341.85	391.49
tblVehicleEF	MDV	73.43	99.84
tblVehicleEF	MDV	6.1870e-003	6.1250e-003
tblVehicleEF	MDV	0.03	0.04
tblVehicleEF	MDV	0.05	0.06
tblVehicleEF	MDV	0.25	0.34
tblVehicleEF	MDV	0.04	7.7260e-003
tblVehicleEF	MDV	1.3830e-003	1.2700e-003
tblVehicleEF	MDV	1.7680e-003	2.0650e-003
tblVehicleEF	MDV	0.02	2.7040e-003
tblVehicleEF	MDV	1.2750e-003	1.1700e-003
tblVehicleEF	MDV	1.6260e-003	1.8980e-003
tblVehicleEF	MDV	0.02	0.21
tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.02	0.00
tblVehicleEF	MDV	8.6300e-003	9.5800e-003
tblVehicleEF	MDV	0.06	0.03
tblVehicleEF	MDV	0.30	0.42
tblVehicleEF	MDV	3.3780e-003	3.8680e-003
tblVehicleEF	MDV	7.2700e-004	9.8700e-004
tblVehicleEF	MDV	0.02	0.21

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.02	0.00
tblVehicleEF	MDV	0.01	0.46
tblVehicleEF	MDV	0.06	0.03
tblVehicleEF	MDV	0.33	0.46
tblVehicleEF	MH	6.1010e-003	9.3180e-003
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	0.49	0.86
tblVehicleEF	MH	1.85	2.40
tblVehicleEF	MH	1,447.76	1,669.61
tblVehicleEF	MH	17.04	21.87
tblVehicleEF	MH	0.05	0.07
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.95	1.21
tblVehicleEF	MH	0.23	0.28
tblVehicleEF	MH	0.13	0.04
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	2.4900e-004	3.1100e-004
tblVehicleEF	MH	0.06	0.02
tblVehicleEF	MH	3.2780e-003	3.3220e-003
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	2.2900e-004	2.8600e-004
tblVehicleEF	MH	0.28	24.03
tblVehicleEF	MH	0.03	6.71
tblVehicleEF	MH	0.12	0.00
tblVehicleEF	MH	0.04	0.06
tblVehicleEF	MH	6.6690e-003	1.6070e-003
tblVehicleEF	MH	0.08	0.11

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	1.6900e-004	2.1600e-004
tblVehicleEF	MH	0.28	24.03
tblVehicleEF	MH	0.03	6.71
tblVehicleEF	MH	0.12	0.00
tblVehicleEF	MH	0.05	0.11
tblVehicleEF	MH	6.6690e-003	1.6070e-003
tblVehicleEF	MH	0.09	0.12
tblVehicleEF	MH	6.2830e-003	9.6230e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.51	0.90
tblVehicleEF	MH	1.70	2.21
tblVehicleEF	MH	1,447.79	1,669.67
tblVehicleEF	MH	16.79	21.54
tblVehicleEF	MH	0.05	0.07
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.90	1.15
tblVehicleEF	MH	0.21	0.26
tblVehicleEF	MH	0.13	0.04
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	2.4900e-004	3.1100e-004
tblVehicleEF	MH	0.06	0.02
tblVehicleEF	MH	3.2780e-003	3.3220e-003
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	2.2900e-004	2.8600e-004
tblVehicleEF	MH	0.65	30.66
tblVehicleEF	MH	0.03	7.21
tblVehicleEF	MH	0.21	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MH	0.04	0.06
tblVehicleEF	MH	6.4420e-003	1.6160e-003
tblVehicleEF	MH	0.08	0.10
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	1.6600e-004	2.1300e-004
tblVehicleEF	MH	0.65	30.66
tblVehicleEF	MH	0.03	7.21
tblVehicleEF	MH	0.21	0.00
tblVehicleEF	MH	0.05	0.11
tblVehicleEF	MH	6.4420e-003	1.6160e-003
tblVehicleEF	MH	0.08	0.11
tblVehicleEF	MH	5.9860e-003	9.1320e-003
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	0.48	0.84
tblVehicleEF	MH	1.97	2.56
tblVehicleEF	MH	1,447.74	1,669.58
tblVehicleEF	MH	17.24	22.14
tblVehicleEF	MH	0.05	0.07
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.97	1.24
tblVehicleEF	MH	0.24	0.29
tblVehicleEF	MH	0.13	0.04
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	2.4900e-004	3.1100e-004
tblVehicleEF	MH	0.06	0.02
tblVehicleEF	MH	3.2780e-003	3.3220e-003
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	2.2900e-004	2.8600e-004

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MH	0.16	22.46
tblVehicleEF	MH	0.03	6.35
tblVehicleEF	MH	0.04	0.00
tblVehicleEF	MH	0.04	0.06
tblVehicleEF	MH	7.1760e-003	1.6640e-003
tblVehicleEF	MH	0.08	0.11
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	1.7100e-004	2.1900e-004
tblVehicleEF	MH	0.16	22.46
tblVehicleEF	MH	0.03	6.35
tblVehicleEF	MH	0.04	0.00
tblVehicleEF	MH	0.05	0.12
tblVehicleEF	MH	7.1760e-003	1.6640e-003
tblVehicleEF	MH	0.09	0.12
tblVehicleEF	MHD	3.9480e-003	0.01
tblVehicleEF	MHD	1.6080e-003	0.01
tblVehicleEF	MHD	9.9120e-003	0.01
tblVehicleEF	MHD	0.39	0.67
tblVehicleEF	MHD	0.22	0.40
tblVehicleEF	MHD	1.12	1.33
tblVehicleEF	MHD	63.54	150.10
tblVehicleEF	MHD	1,063.89	1,267.25
tblVehicleEF	MHD	9.92	10.76
tblVehicleEF	MHD	9.0030e-003	0.02
tblVehicleEF	MHD	0.13	0.15
tblVehicleEF	MHD	8.2440e-003	8.1870e-003
tblVehicleEF	MHD	0.35	0.86
tblVehicleEF	MHD	1.29	1.10
tblVehicleEF	MHD	1.65	1.32

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MHD	2.8000e-004	2.2030e-003
tblVehicleEF	MHD	0.13	0.05
tblVehicleEF	MHD	6.1520e-003	0.01
tblVehicleEF	MHD	1.2100e-004	1.3500e-004
tblVehicleEF	MHD	2.6800e-004	2.1070e-003
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	5.8790e-003	0.01
tblVehicleEF	MHD	1.1200e-004	1.2400e-004
tblVehicleEF	MHD	2.8800e-004	0.03
tblVehicleEF	MHD	0.02	7.1450e-003
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	1.8700e-004	0.00
tblVehicleEF	MHD	0.01	0.04
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	6.0300e-004	1.3930e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	9.8000e-005	1.0600e-004
tblVehicleEF	MHD	2.8800e-004	0.03
tblVehicleEF	MHD	0.02	7.1450e-003
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	1.8700e-004	0.00
tblVehicleEF	MHD	0.02	0.06
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.06	0.07
tblVehicleEF	MHD	3.7150e-003	0.01
tblVehicleEF	MHD	1.6560e-003	0.01
tblVehicleEF	MHD	9.3100e-003	0.01
tblVehicleEF	MHD	0.32	0.60

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MHD	0.22	0.40
tblVehicleEF	MHD	1.03	1.22
tblVehicleEF	MHD	63.59	149.58
tblVehicleEF	MHD	1,063.90	1,267.27
tblVehicleEF	MHD	9.76	10.57
tblVehicleEF	MHD	8.9640e-003	0.02
tblVehicleEF	MHD	0.13	0.15
tblVehicleEF	MHD	7.8530e-003	7.8000e-003
tblVehicleEF	MHD	0.34	0.84
tblVehicleEF	MHD	1.24	1.05
tblVehicleEF	MHD	1.64	1.31
tblVehicleEF	MHD	2.3900e-004	1.8660e-003
tblVehicleEF	MHD	0.13	0.05
tblVehicleEF	MHD	6.1520e-003	0.01
tblVehicleEF	MHD	1.2100e-004	1.3500e-004
tblVehicleEF	MHD	2.2900e-004	1.7850e-003
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	5.8790e-003	0.01
tblVehicleEF	MHD	1.1200e-004	1.2400e-004
tblVehicleEF	MHD	7.0700e-004	0.04
tblVehicleEF	MHD	0.02	7.6640e-003
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	3.2800e-004	0.00
tblVehicleEF	MHD	0.01	0.04
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	6.0400e-004	1.3880e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	9.7000e-005	1.0400e-004

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MHD	7.0700e-004	0.04
tblVehicleEF	MHD	0.02	7.6640e-003
tblVehicleEF	MHD	0.02	0.05
tblVehicleEF	MHD	3.2800e-004	0.00
tblVehicleEF	MHD	0.02	0.05
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	4.1790e-003	0.01
tblVehicleEF	MHD	1.5780e-003	0.01
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.45	0.76
tblVehicleEF	MHD	0.21	0.39
tblVehicleEF	MHD	1.20	1.42
tblVehicleEF	MHD	63.61	150.94
tblVehicleEF	MHD	1,063.89	1,267.24
tblVehicleEF	MHD	10.05	10.91
tblVehicleEF	MHD	9.0630e-003	0.02
tblVehicleEF	MHD	0.13	0.15
tblVehicleEF	MHD	8.5310e-003	8.4720e-003
tblVehicleEF	MHD	0.36	0.88
tblVehicleEF	MHD	1.31	1.12
tblVehicleEF	MHD	1.66	1.32
tblVehicleEF	MHD	3.3700e-004	2.6680e-003
tblVehicleEF	MHD	0.13	0.05
tblVehicleEF	MHD	6.1520e-003	0.01
tblVehicleEF	MHD	1.2100e-004	1.3500e-004
tblVehicleEF	MHD	3.2300e-004	2.5520e-003
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	5.8790e-003	0.01

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MHD	1.1200e-004	1.2400e-004
tblVehicleEF	MHD	1.7100e-004	0.03
tblVehicleEF	MHD	0.02	6.7680e-003
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	7.9000e-005	0.00
tblVehicleEF	MHD	0.01	0.04
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	6.0400e-004	1.4010e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	1.0000e-004	1.0800e-004
tblVehicleEF	MHD	1.7100e-004	0.03
tblVehicleEF	MHD	0.02	6.7680e-003
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	7.9000e-005	0.00
tblVehicleEF	MHD	0.02	0.06
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.06	0.07
tblVehicleEF	OBUS	6.6710e-003	6.4170e-003
tblVehicleEF	OBUS	2.8040e-003	6.4430e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.61	0.48
tblVehicleEF	OBUS	0.34	0.23
tblVehicleEF	OBUS	1.52	1.10
tblVehicleEF	OBUS	102.35	89.99
tblVehicleEF	OBUS	1,307.86	1,316.74
tblVehicleEF	OBUS	13.17	9.70
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.14	0.17

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.43	0.40
tblVehicleEF	OBUS	1.48	0.74
tblVehicleEF	OBUS	1.21	1.13
tblVehicleEF	OBUS	1.3800e-004	2.3700e-004
tblVehicleEF	OBUS	0.13	0.05
tblVehicleEF	OBUS	7.5690e-003	8.4550e-003
tblVehicleEF	OBUS	1.4400e-004	1.0000e-004
tblVehicleEF	OBUS	1.3200e-004	2.2700e-004
tblVehicleEF	OBUS	0.06	0.02
tblVehicleEF	OBUS	7.2290e-003	8.0830e-003
tblVehicleEF	OBUS	1.3200e-004	9.2000e-005
tblVehicleEF	OBUS	7.8300e-004	0.03
tblVehicleEF	OBUS	0.01	8.3470e-003
tblVehicleEF	OBUS	0.05	0.03
tblVehicleEF	OBUS	4.0400e-004	0.00
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	6.4020e-003
tblVehicleEF	OBUS	0.07	0.05
tblVehicleEF	OBUS	9.7100e-004	8.4900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.3000e-004	9.6000e-005
tblVehicleEF	OBUS	7.8300e-004	0.03
tblVehicleEF	OBUS	0.01	8.3470e-003
tblVehicleEF	OBUS	0.06	0.04
tblVehicleEF	OBUS	4.0400e-004	0.00
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.03	6.4020e-003
tblVehicleEF	OBUS	0.08	0.06

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	OBUS	6.7640e-003	6.4850e-003
tblVehicleEF	OBUS	2.8990e-003	6.4940e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.61	0.48
tblVehicleEF	OBUS	0.35	0.24
tblVehicleEF	OBUS	1.40	1.01
tblVehicleEF	OBUS	101.08	88.93
tblVehicleEF	OBUS	1,307.88	1,316.75
tblVehicleEF	OBUS	12.97	9.55
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.13	0.17
tblVehicleEF	OBUS	0.01	9.8170e-003
tblVehicleEF	OBUS	0.40	0.38
tblVehicleEF	OBUS	1.42	0.71
tblVehicleEF	OBUS	1.19	1.12
tblVehicleEF	OBUS	1.2300e-004	2.0600e-004
tblVehicleEF	OBUS	0.13	0.05
tblVehicleEF	OBUS	7.5690e-003	8.4550e-003
tblVehicleEF	OBUS	1.4400e-004	1.0000e-004
tblVehicleEF	OBUS	1.1800e-004	1.9700e-004
tblVehicleEF	OBUS	0.06	0.02
tblVehicleEF	OBUS	7.2290e-003	8.0830e-003
tblVehicleEF	OBUS	1.3200e-004	9.2000e-005
tblVehicleEF	OBUS	1.7880e-003	0.04
tblVehicleEF	OBUS	0.01	8.8810e-003
tblVehicleEF	OBUS	0.05	0.03
tblVehicleEF	OBUS	6.8500e-004	0.00
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	6.4450e-003

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	OBUS	0.07	0.05
tblVehicleEF	OBUS	9.5900e-004	8.3900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.2800e-004	9.4000e-005
tblVehicleEF	OBUS	1.7880e-003	0.04
tblVehicleEF	OBUS	0.01	8.8810e-003
tblVehicleEF	OBUS	0.06	0.04
tblVehicleEF	OBUS	6.8500e-004	0.00
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.03	6.4450e-003
tblVehicleEF	OBUS	0.07	0.05
tblVehicleEF	OBUS	6.5530e-003	6.3320e-003
tblVehicleEF	OBUS	2.7430e-003	6.4100e-003
tblVehicleEF	OBUS	0.02	0.01
tblVehicleEF	OBUS	0.62	0.49
tblVehicleEF	OBUS	0.34	0.23
tblVehicleEF	OBUS	1.62	1.17
tblVehicleEF	OBUS	104.11	91.44
tblVehicleEF	OBUS	1,307.85	1,316.74
tblVehicleEF	OBUS	13.34	9.82
tblVehicleEF	OBUS	0.02	0.01
tblVehicleEF	OBUS	0.14	0.17
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.46	0.42
tblVehicleEF	OBUS	1.51	0.75
tblVehicleEF	OBUS	1.21	1.14
tblVehicleEF	OBUS	1.6000e-004	2.8100e-004
tblVehicleEF	OBUS	0.13	0.05
tblVehicleEF	OBUS	7.5690e-003	8.4550e-003

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	OBUS	1.4400e-004	1.0000e-004
tblVehicleEF	OBUS	1.5300e-004	2.6900e-004
tblVehicleEF	OBUS	0.06	0.02
tblVehicleEF	OBUS	7.2290e-003	8.0830e-003
tblVehicleEF	OBUS	1.3200e-004	9.2000e-005
tblVehicleEF	OBUS	5.0800e-004	0.03
tblVehicleEF	OBUS	0.01	7.9310e-003
tblVehicleEF	OBUS	0.04	0.03
tblVehicleEF	OBUS	1.5400e-004	0.00
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	6.5500e-003
tblVehicleEF	OBUS	0.08	0.05
tblVehicleEF	OBUS	9.8800e-004	8.6300e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.3200e-004	9.7000e-005
tblVehicleEF	OBUS	5.0800e-004	0.03
tblVehicleEF	OBUS	0.01	7.9310e-003
tblVehicleEF	OBUS	0.06	0.04
tblVehicleEF	OBUS	1.5400e-004	0.00
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.03	6.5500e-003
tblVehicleEF	OBUS	0.08	0.06
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	9.3480e-003	0.08
tblVehicleEF	SBUS	9.5380e-003	8.3560e-003
tblVehicleEF	SBUS	3.67	2.26
tblVehicleEF	SBUS	0.86	1.50
tblVehicleEF	SBUS	1.46	1.21
tblVehicleEF	SBUS	365.45	203.37

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	SBUS	990.47	973.16
tblVehicleEF	SBUS	7.49	5.80
tblVehicleEF	SBUS	0.05	0.03
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	7.4410e-003	5.4090e-003
tblVehicleEF	SBUS	3.26	1.43
tblVehicleEF	SBUS	4.48	2.76
tblVehicleEF	SBUS	0.70	0.46
tblVehicleEF	SBUS	3.8180e-003	1.5180e-003
tblVehicleEF	SBUS	0.74	0.04
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.1800e-004	7.5000e-005
tblVehicleEF	SBUS	3.6530e-003	1.4510e-003
tblVehicleEF	SBUS	0.32	0.02
tblVehicleEF	SBUS	2.5480e-003	2.5240e-003
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	1.0800e-004	6.9000e-005
tblVehicleEF	SBUS	6.1300e-004	0.05
tblVehicleEF	SBUS	7.7700e-003	0.01
tblVehicleEF	SBUS	0.44	0.26
tblVehicleEF	SBUS	2.9600e-004	0.00
tblVehicleEF	SBUS	0.10	0.08
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.05	0.05
tblVehicleEF	SBUS	3.4950e-003	1.8640e-003
tblVehicleEF	SBUS	9.5210e-003	9.1220e-003
tblVehicleEF	SBUS	7.4000e-005	5.7000e-005
tblVehicleEF	SBUS	6.1300e-004	0.05

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	SBUS	7.7700e-003	0.01
tblVehicleEF	SBUS	0.64	0.41
tblVehicleEF	SBUS	2.9600e-004	0.00
tblVehicleEF	SBUS	0.12	0.26
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.06	0.05
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	9.5560e-003	0.08
tblVehicleEF	SBUS	8.2310e-003	7.2120e-003
tblVehicleEF	SBUS	3.63	2.25
tblVehicleEF	SBUS	0.88	1.54
tblVehicleEF	SBUS	1.13	0.93
tblVehicleEF	SBUS	374.93	206.61
tblVehicleEF	SBUS	990.51	973.22
tblVehicleEF	SBUS	6.94	5.34
tblVehicleEF	SBUS	0.05	0.03
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	7.1040e-003	5.1630e-003
tblVehicleEF	SBUS	3.34	1.45
tblVehicleEF	SBUS	4.29	2.63
tblVehicleEF	SBUS	0.69	0.46
tblVehicleEF	SBUS	3.2260e-003	1.2890e-003
tblVehicleEF	SBUS	0.74	0.04
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.1800e-004	7.5000e-005
tblVehicleEF	SBUS	3.0860e-003	1.2320e-003
tblVehicleEF	SBUS	0.32	0.02
tblVehicleEF	SBUS	2.5480e-003	2.5240e-003

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	1.0800e-004	6.9000e-005
tblVehicleEF	SBUS	1.4520e-003	0.06
tblVehicleEF	SBUS	7.9960e-003	0.01
tblVehicleEF	SBUS	0.44	0.26
tblVehicleEF	SBUS	5.3700e-004	0.00
tblVehicleEF	SBUS	0.10	0.08
tblVehicleEF	SBUS	9.9670e-003	0.01
tblVehicleEF	SBUS	0.05	0.04
tblVehicleEF	SBUS	3.5850e-003	1.8950e-003
tblVehicleEF	SBUS	9.5210e-003	9.1230e-003
tblVehicleEF	SBUS	6.9000e-005	5.3000e-005
tblVehicleEF	SBUS	1.4520e-003	0.06
tblVehicleEF	SBUS	7.9960e-003	0.01
tblVehicleEF	SBUS	0.64	0.41
tblVehicleEF	SBUS	5.3700e-004	0.00
tblVehicleEF	SBUS	0.12	0.23
tblVehicleEF	SBUS	9.9670e-003	0.01
tblVehicleEF	SBUS	0.05	0.05
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	9.2080e-003	0.08
tblVehicleEF	SBUS	0.01	9.3400e-003
tblVehicleEF	SBUS	3.72	2.29
tblVehicleEF	SBUS	0.84	1.48
tblVehicleEF	SBUS	1.78	1.48
tblVehicleEF	SBUS	352.36	198.90
tblVehicleEF	SBUS	990.44	973.12
tblVehicleEF	SBUS	8.02	6.24
tblVehicleEF	SBUS	0.04	0.02

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	SBUS	0.11	0.12
tblVehicleEF	SBUS	7.7120e-003	5.6020e-003
tblVehicleEF	SBUS	3.15	1.40
tblVehicleEF	SBUS	4.56	2.83
tblVehicleEF	SBUS	0.70	0.46
tblVehicleEF	SBUS	4.6360e-003	1.8350e-003
tblVehicleEF	SBUS	0.74	0.04
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.1800e-004	7.5000e-005
tblVehicleEF	SBUS	4.4360e-003	1.7550e-003
tblVehicleEF	SBUS	0.32	0.02
tblVehicleEF	SBUS	2.5480e-003	2.5240e-003
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	1.0800e-004	6.9000e-005
tblVehicleEF	SBUS	3.7900e-004	0.05
tblVehicleEF	SBUS	8.0390e-003	0.01
tblVehicleEF	SBUS	0.44	0.26
tblVehicleEF	SBUS	1.1000e-004	0.00
tblVehicleEF	SBUS	0.09	0.08
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	0.06	0.05
tblVehicleEF	SBUS	3.3720e-003	1.8220e-003
tblVehicleEF	SBUS	9.5210e-003	9.1220e-003
tblVehicleEF	SBUS	7.9000e-005	6.2000e-005
tblVehicleEF	SBUS	3.7900e-004	0.05
tblVehicleEF	SBUS	8.0390e-003	0.01
tblVehicleEF	SBUS	0.64	0.41
tblVehicleEF	SBUS	1.1000e-004	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	SBUS	0.12	0.30
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	0.07	0.06
tblVehicleEF	UBUS	1.52	0.55
tblVehicleEF	UBUS	0.01	6.4790e-003
tblVehicleEF	UBUS	11.42	6.29
tblVehicleEF	UBUS	0.83	0.86
tblVehicleEF	UBUS	1,603.68	1,063.17
tblVehicleEF	UBUS	9.21	5.61
tblVehicleEF	UBUS	0.26	0.16
tblVehicleEF	UBUS	7.2150e-003	9.6970e-003
tblVehicleEF	UBUS	0.69	0.25
tblVehicleEF	UBUS	0.10	0.07
tblVehicleEF	UBUS	0.08	0.10
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	4.9940e-003	4.6870e-003
tblVehicleEF	UBUS	5.3000e-005	2.2000e-005
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	7.8010e-003	7.2270e-003
tblVehicleEF	UBUS	4.7760e-003	4.4790e-003
tblVehicleEF	UBUS	4.9000e-005	2.1000e-005
tblVehicleEF	UBUS	5.3200e-004	0.02
tblVehicleEF	UBUS	9.6610e-003	6.9710e-003
tblVehicleEF	UBUS	4.1000e-004	0.00
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	3.6080e-003	6.9600e-004
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	0.01	8.5370e-003
tblVehicleEF	UBUS	9.1000e-005	5.5000e-005

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	UBUS	5.3200e-004	0.02
tblVehicleEF	UBUS	9.6610e-003	6.9710e-003
tblVehicleEF	UBUS	4.1000e-004	0.00
tblVehicleEF	UBUS	1.55	0.02
tblVehicleEF	UBUS	3.6080e-003	6.9600e-004
tblVehicleEF	UBUS	0.07	0.03
tblVehicleEF	UBUS	1.52	0.55
tblVehicleEF	UBUS	0.01	5.9020e-003
tblVehicleEF	UBUS	11.42	6.29
tblVehicleEF	UBUS	0.68	0.74
tblVehicleEF	UBUS	1,603.68	1,063.18
tblVehicleEF	UBUS	8.95	5.41
tblVehicleEF	UBUS	0.26	0.16
tblVehicleEF	UBUS	6.9060e-003	9.2510e-003
tblVehicleEF	UBUS	0.69	0.25
tblVehicleEF	UBUS	0.09	0.06
tblVehicleEF	UBUS	0.08	0.10
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	4.9940e-003	4.6870e-003
tblVehicleEF	UBUS	5.3000e-005	2.2000e-005
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	7.8010e-003	7.2270e-003
tblVehicleEF	UBUS	4.7760e-003	4.4790e-003
tblVehicleEF	UBUS	4.9000e-005	2.1000e-005
tblVehicleEF	UBUS	1.2180e-003	0.03
tblVehicleEF	UBUS	0.01	7.4740e-003
tblVehicleEF	UBUS	6.7700e-004	0.00
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	3.1460e-003	7.0700e-004

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	UBUS	0.05	0.02
tblVehicleEF	UBUS	0.01	8.5370e-003
tblVehicleEF	UBUS	8.9000e-005	5.3000e-005
tblVehicleEF	UBUS	1.2180e-003	0.03
tblVehicleEF	UBUS	0.01	7.4740e-003
tblVehicleEF	UBUS	6.7700e-004	0.00
tblVehicleEF	UBUS	1.55	0.02
tblVehicleEF	UBUS	3.1460e-003	7.0700e-004
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	1.52	0.55
tblVehicleEF	UBUS	0.01	6.9340e-003
tblVehicleEF	UBUS	11.42	6.29
tblVehicleEF	UBUS	0.95	0.97
tblVehicleEF	UBUS	1,603.68	1,063.17
tblVehicleEF	UBUS	9.42	5.79
tblVehicleEF	UBUS	0.26	0.16
tblVehicleEF	UBUS	7.4470e-003	0.01
tblVehicleEF	UBUS	0.69	0.25
tblVehicleEF	UBUS	0.10	0.07
tblVehicleEF	UBUS	0.08	0.10
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	4.9940e-003	4.6870e-003
tblVehicleEF	UBUS	5.3000e-005	2.2000e-005
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	7.8010e-003	7.2270e-003
tblVehicleEF	UBUS	4.7760e-003	4.4790e-003
tblVehicleEF	UBUS	4.9000e-005	2.1000e-005
tblVehicleEF	UBUS	4.0200e-004	0.02
tblVehicleEF	UBUS	0.01	6.6010e-003

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	UBUS	1.8100e-004	0.00
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	4.5840e-003	7.2000e-004
tblVehicleEF	UBUS	0.07	0.03
tblVehicleEF	UBUS	0.01	8.5370e-003
tblVehicleEF	UBUS	9.3000e-005	5.7000e-005
tblVehicleEF	UBUS	4.0200e-004	0.02
tblVehicleEF	UBUS	0.01	6.6010e-003
tblVehicleEF	UBUS	1.8100e-004	0.00
tblVehicleEF	UBUS	1.55	0.03
tblVehicleEF	UBUS	4.5840e-003	7.2000e-004
tblVehicleEF	UBUS	0.07	0.03
tblVehicleTrips	ST_TR	1.90	1.60
tblVehicleTrips	SU_TR	1.11	0.94
tblVehicleTrips	WD_TR	11.26	9.44
tblWater	IndoorWaterUseRate	100,930,016.54	105,030,744.06

2.0 Emissions Summary

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.3473	3.6304	3.1538	0.0103	0.5377	0.1230	0.6606	0.1432	0.1179	0.2611	0.0000	971.5245	971.5245	0.1091	0.0794	997.9180
2023	1.2593	0.7814	0.8962	3.5200e-003	0.2611	0.0214	0.2825	0.0694	0.0203	0.0897	0.0000	334.4091	334.4091	0.0251	0.0279	343.3356
Maximum	**1.2593**	**3.6304**	**3.1538**	**0.0103**	**0.5377**	**0.1230**	**0.6606**	**0.1432**	**0.1179**	**0.2611**	**0.0000**	**971.5245**	**971.5245**	**0.1091**	**0.0794**	**997.9180**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.2183	2.9790	3.4583	0.0103	0.4930	0.0381	0.5311	0.1304	0.0375	0.1679	0.0000	971.5241	971.5241	0.1091	0.0794	997.9175
2023	1.2437	0.6900	0.9247	3.5200e-003	0.2611	9.7400e-003	0.2708	0.0694	9.6000e-003	0.0790	0.0000	334.4090	334.4090	0.0251	0.0279	343.3355
Maximum	**1.2437**	**2.9790**	**3.4583**	**0.0103**	**0.4930**	**0.0381**	**0.5311**	**0.1304**	**0.0375**	**0.1679**	**0.0000**	**971.5241**	**971.5241**	**0.1091**	**0.0794**	**997.9175**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**9.00**	**16.84**	**-8.22**	**0.00**	**5.59**	**66.90**	**14.98**	**6.04**	**65.89**	**29.62**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**1-1-2022**	**3-31-2022**	0.4140	0.2533
2	**4-1-2022**	**6-30-2022**	1.9488	1.5844
3	**7-1-2022**	**9-30-2022**	0.8899	0.7474
4	**10-1-2022**	**12-31-2022**	0.5552	0.4663
5	**1-1-2023**	**3-31-2023**	0.6367	0.5541
6	**4-1-2023**	**6-30-2023**	0.1930	0.1727
7	**7-1-2023**	**9-30-2023**	1.2152	1.2107
		Highest	1.9488	1.5844

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.9354	4.0000e-005	4.2700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.3200e-003	8.3200e-003	2.0000e-005	0.0000	8.8600e-003
Energy	0.0272	0.2472	0.2077	1.4800e-003		0.0188	0.0188		0.0188	0.0188	0.0000	269.1434	269.1434	5.1600e-003	4.9300e-003	270.7428
Mobile	0.6976	0.5486	5.7143	0.0134	1.2245	8.4000e-003	1.2329	0.3050	7.8200e-003	0.3129	0.0000	1,231.1961	1,231.1961	0.0644	0.0506	1,247.8793
Stationary	2.0400e-003	6.6600e-003	7.4100e-003	1.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	0.9482	0.9482	1.3000e-004	0.0000	0.9515
Waste						0.0000	0.0000		0.0000	0.0000	3.2945	0.0000	3.2945	0.1947	0.0000	8.1621
Water						0.0000	0.0000		0.0000	0.0000	33.3214	0.0000	33.3214	3.4224	0.0808	142.9638
Total	**1.6623**	**0.8026**	**5.9336**	**0.0148**	**1.2245**	**0.0275**	**1.2520**	**0.3050**	**0.0269**	**0.3320**	**36.6160**	**1,501.2961**	**1,537.9120**	**3.6868**	**0.1363**	**1,670.7084**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.9354	4.0000e-005	4.2700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.3200e-003	8.3200e-003	2.0000e-005	0.0000	8.8600e-003
Energy	0.0272	0.2472	0.2077	1.4800e-003		0.0188	0.0188		0.0188	0.0188	0.0000	269.1434	269.1434	5.1600e-003	4.9300e-003	270.7428
Mobile	0.6976	0.5486	5.7143	0.0134	1.2245	8.4000e-003	1.2329	0.3050	7.8200e-003	0.3129	0.0000	1,231.1961	1,231.1961	0.0644	0.0506	1,247.8793
Stationary	2.0400e-003	6.6600e-003	7.4100e-003	1.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	0.9482	0.9482	1.3000e-004	0.0000	0.9515
Waste						0.0000	0.0000		0.0000	0.0000	3.2945	0.0000	3.2945	0.1947	0.0000	8.1621
Water						0.0000	0.0000		0.0000	0.0000	33.3214	0.0000	33.3214	3.4224	0.0808	142.9638
Total	**1.6623**	**0.8026**	**5.9336**	**0.0148**	**1.2245**	**0.0275**	**1.2520**	**0.3050**	**0.0269**	**0.3320**	**36.6160**	**1,501.2961**	**1,537.9120**	**3.6868**	**0.1363**	**1,670.7084**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/3/2022	2/11/2022	5	30	
2	Site Preparation- Shoring	Site Preparation	2/14/2022	4/15/2022	5	45	

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3	Site Preparation- Dewatering	Site Preparation	3/28/2022	5/13/2022	5	35	
4	Site Preparation- Mass Excavation	Site Preparation	5/16/2022	6/10/2022	5	20	
5	Grading	Grading	5/18/2022	5/31/2022	5	10	
6	Building Construction (Foundation)	Building Construction	5/30/2022	9/20/2022	5	82	
7	Paving	Paving	9/6/2022	11/28/2022	5	60	
8	Building Construction (Vertical)	Building Construction	11/21/2022	2/28/2023	5	72	
9	Building Construction (Building Finishing)	Building Construction	1/20/2023	7/20/2023	5	130	
10	Architectural Coating	Architectural Coating	7/21/2023	8/3/2023	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 1.24

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 320,418; Non-Residential Outdoor: 106,806; Striped Parking Area: 14,635 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation- Shoring	Forklifts	1	4.00	367	0.48
Site Preparation- Shoring	Tractors/Loaders/Backhoes	1	3.50	97	0.37
Site Preparation- Dewatering	Pumps	12	8.00	84	0.74
Site Preparation- Mass Excavation	Graders	1	8.00	187	0.41
Site Preparation- Mass Excavation	Scrapers	1	8.00	367	0.48
Site Preparation- Mass Excavation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction (Foundation)	Cranes	1	8.00	231	0.29
Building Construction (Foundation)	Forklifts	2	7.00	89	0.20
Building Construction (Foundation)	Generator Sets	1	8.00	84	0.74
Building Construction (Foundation)	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction (Foundation)	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction (Foundation)	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Building Construction (Vertical)	Cranes	1	8.00	231	0.29
Building Construction (Vertical)	Forklifts	2	7.00	89	0.20
Building Construction (Vertical)	Generator Sets	1	8.00	84	0.74
Building Construction (Vertical)	Welders	3	8.00	46	0.45
Building Construction (Building Finishing)	Forklifts	2	7.00	89	0.20
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	250.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation-Shoring	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation-Dewatering	12	30.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation-Mass Excavation	3	8.00	0.00	8,268.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction (Foundation)	9	171.00	75.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction (Foundation)	9	171.00	75.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Paving	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction (Vertical)	7	171.00	75.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction (Vertical)	7	171.00	75.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction (Building Finishing)	2	171.00	75.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	34.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0271	0.0000	0.0271	4.1000e-003	0.0000	4.1000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0253	0.2493	0.2094	3.6000e-004		0.0126	0.0126		0.0117	0.0117	0.0000	31.6165	31.6165	8.0600e-003	0.0000	31.8180
Total	**0.0253**	**0.2493**	**0.2094**	**3.6000e-004**	**0.0271**	**0.0126**	**0.0396**	**4.1000e-003**	**0.0117**	**0.0158**	**0.0000**	**31.6165**	**31.6165**	**8.0600e-003**	**0.0000**	**31.8180**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.2000e-004	0.0244	6.8900e-003	8.0000e-005	2.1000e-003	1.9000e-004	2.2800e-003	5.8000e-004	1.8000e-004	7.6000e-004	0.0000	8.9042	8.9042	8.4000e-004	1.4300e-003	9.3520
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5000e-004	3.1000e-004	4.0400e-003	1.0000e-005	1.5400e-003	1.0000e-005	1.5400e-003	4.1000e-004	1.0000e-005	4.2000e-004	0.0000	1.1785	1.1785	3.0000e-005	3.0000e-005	1.1885
Total	**1.0700e-003**	**0.0247**	**0.0109**	**9.0000e-005**	**3.6400e-003**	**2.0000e-004**	**3.8200e-003**	**9.9000e-004**	**1.9000e-004**	**1.1800e-003**	**0.0000**	**10.0827**	**10.0827**	**8.7000e-004**	**1.4600e-003**	**10.5405**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0122	0.0000	0.0122	1.8400e-003	0.0000	1.8400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0106	0.1367	0.2283	3.6000e-004		2.6900e-003	2.6900e-003		2.6900e-003	2.6900e-003	0.0000	31.6165	31.6165	8.0600e-003	0.0000	31.8179
Total	**0.0106**	**0.1367**	**0.2283**	**3.6000e-004**	**0.0122**	**2.6900e-003**	**0.0149**	**1.8400e-003**	**2.6900e-003**	**4.5300e-003**	**0.0000**	**31.6165**	**31.6165**	**8.0600e-003**	**0.0000**	**31.8179**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.2000e-004	0.0244	6.8900e-003	8.0000e-005	2.1000e-003	1.9000e-004	2.2800e-003	5.8000e-004	1.8000e-004	7.6000e-004	0.0000	8.9042	8.9042	8.4000e-004	1.4300e-003	9.3520
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5000e-004	3.1000e-004	4.0400e-003	1.0000e-005	1.5400e-003	1.0000e-005	1.5400e-003	4.1000e-004	1.0000e-005	4.2000e-004	0.0000	1.1785	1.1785	3.0000e-005	3.0000e-005	1.1885
Total	**1.0700e-003**	**0.0247**	**0.0109**	**9.0000e-005**	**3.6400e-003**	**2.0000e-004**	**3.8200e-003**	**9.9000e-004**	**1.9000e-004**	**1.1800e-003**	**0.0000**	**10.0827**	**10.0827**	**8.7000e-004**	**1.4600e-003**	**10.5405**

3.3 Site Preparation- Shoring - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.7200e-003	0.0861	0.0647	2.0000e-004		3.5700e-003	3.5700e-003		3.2900e-003	3.2900e-003	0.0000	17.7079	17.7079	5.7300e-003	0.0000	17.8510
Total	**9.7200e-003**	**0.0861**	**0.0647**	**2.0000e-004**	**0.0000**	**3.5700e-003**	**3.5700e-003**	**0.0000**	**3.2900e-003**	**3.2900e-003**	**0.0000**	**17.7079**	**17.7079**	**5.7300e-003**	**0.0000**	**17.8510**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation- Shoring - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6000e-004	1.8000e-004	2.3300e-003	1.0000e-005	8.9000e-004	0.0000	8.9000e-004	2.4000e-004	0.0000	2.4000e-004	0.0000	0.6799	0.6799	2.0000e-005	2.0000e-005	0.6857
Total	**2.6000e-004**	**1.8000e-004**	**2.3300e-003**	**1.0000e-005**	**8.9000e-004**	**0.0000**	**8.9000e-004**	**2.4000e-004**	**0.0000**	**2.4000e-004**	**0.0000**	**0.6799**	**0.6799**	**2.0000e-005**	**2.0000e-005**	**0.6857**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4800e-003	0.0584	0.1139	2.0000e-004		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	17.7078	17.7078	5.7300e-003	0.0000	17.8510
Total	**3.4800e-003**	**0.0584**	**0.1139**	**2.0000e-004**	**0.0000**	**3.3000e-004**	**3.3000e-004**	**0.0000**	**3.3000e-004**	**3.3000e-004**	**0.0000**	**17.7078**	**17.7078**	**5.7300e-003**	**0.0000**	**17.8510**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation- Shoring - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6000e-004	1.8000e-004	2.3300e-003	1.0000e-005	8.9000e-004	0.0000	8.9000e-004	2.4000e-004	0.0000	2.4000e-004	0.0000	0.6799	0.6799	2.0000e-005	2.0000e-005	0.6857
Total	**2.6000e-004**	**1.8000e-004**	**2.3300e-003**	**1.0000e-005**	**8.9000e-004**	**0.0000**	**8.9000e-004**	**2.4000e-004**	**0.0000**	**2.4000e-004**	**0.0000**	**0.6799**	**0.6799**	**2.0000e-005**	**2.0000e-005**	**0.6857**

3.4 Site Preparation- Dewatering - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0739	0.6235	0.7837	1.3800e-003		0.0327	0.0327		0.0327	0.0327	0.0000	118.6936	118.6936	6.0600e-003	0.0000	118.8450
Total	**0.0739**	**0.6235**	**0.7837**	**1.3800e-003**	**0.0000**	**0.0327**	**0.0327**	**0.0000**	**0.0327**	**0.0327**	**0.0000**	**118.6936**	**118.6936**	**6.0600e-003**	**0.0000**	**118.8450**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Site Preparation- Dewatering - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-003	8.3000e-004	0.0109	3.0000e-005	4.1300e-003	2.0000e-005	4.1500e-003	1.1000e-003	2.0000e-005	1.1200e-003	0.0000	3.1729	3.1729	9.0000e-005	8.0000e-005	3.1998
Total	**1.2000e-003**	**8.3000e-004**	**0.0109**	**3.0000e-005**	**4.1300e-003**	**2.0000e-005**	**4.1500e-003**	**1.1000e-003**	**2.0000e-005**	**1.1200e-003**	**0.0000**	**3.1729**	**3.1729**	**9.0000e-005**	**8.0000e-005**	**3.1998**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0253	0.4927	0.8518	1.3800e-003		1.8400e-003	1.8400e-003		1.8400e-003	1.8400e-003	0.0000	118.6934	118.6934	6.0600e-003	0.0000	118.8449
Total	**0.0253**	**0.4927**	**0.8518**	**1.3800e-003**	**0.0000**	**1.8400e-003**	**1.8400e-003**	**0.0000**	**1.8400e-003**	**1.8400e-003**	**0.0000**	**118.6934**	**118.6934**	**6.0600e-003**	**0.0000**	**118.8449**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Site Preparation- Dewatering - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-003	8.3000e-004	0.0109	3.0000e-005	4.1300e-003	2.0000e-005	4.1500e-003	1.1000e-003	2.0000e-005	1.1200e-003	0.0000	3.1729	3.1729	9.0000e-005	8.0000e-005	3.1998
Total	**1.2000e-003**	**8.3000e-004**	**0.0109**	**3.0000e-005**	**4.1300e-003**	**2.0000e-005**	**4.1500e-003**	**1.1000e-003**	**2.0000e-005**	**1.1200e-003**	**0.0000**	**3.1729**	**3.1729**	**9.0000e-005**	**8.0000e-005**	**3.1998**

3.5 Site Preparation- Mass Excavation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0187	0.0000	0.0187	2.1400e-003	0.0000	2.1400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0138	0.1567	0.1006	2.5000e-004		5.9500e-003	5.9500e-003		5.4800e-003	5.4800e-003	0.0000	21.5471	21.5471	6.9700e-003	0.0000	21.7213
Total	**0.0138**	**0.1567**	**0.1006**	**2.5000e-004**	**0.0187**	**5.9500e-003**	**0.0247**	**2.1400e-003**	**5.4800e-003**	**7.6200e-003**	**0.0000**	**21.5471**	**21.5471**	**6.9700e-003**	**0.0000**	**21.7213**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Site Preparation- Mass Excavation - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0204	0.8081	0.2278	2.8000e-003	0.0694	6.2000e-003	0.0756	0.0191	5.9300e-003	0.0250	0.0000	294.4805	294.4805	0.0278	0.0474	309.2896
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	1.3000e-004	1.6600e-003	1.0000e-005	6.3000e-004	0.0000	6.3000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.4835	0.4835	1.0000e-005	1.0000e-005	0.4876
Total	**0.0205**	**0.8082**	**0.2294**	**2.8100e-003**	**0.0700**	**6.2000e-003**	**0.0762**	**0.0192**	**5.9300e-003**	**0.0252**	**0.0000**	**294.9640**	**294.9640**	**0.0279**	**0.0474**	**309.7772**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.4200e-003	0.0000	8.4200e-003	9.6000e-004	0.0000	9.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.1800e-003	0.0694	0.1364	2.5000e-004		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004	0.0000	21.5470	21.5470	6.9700e-003	0.0000	21.7213
Total	**4.1800e-003**	**0.0694**	**0.1364**	**2.5000e-004**	**8.4200e-003**	**4.0000e-004**	**8.8200e-003**	**9.6000e-004**	**4.0000e-004**	**1.3600e-003**	**0.0000**	**21.5470**	**21.5470**	**6.9700e-003**	**0.0000**	**21.7213**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Site Preparation- Mass Excavation - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0204	0.8081	0.2278	2.8000e-003	0.0694	6.2000e-003	0.0756	0.0191	5.9300e-003	0.0250	0.0000	294.4805	294.4805	0.0278	0.0474	309.2896
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	1.3000e-004	1.6600e-003	1.0000e-005	6.3000e-004	0.0000	6.3000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.4835	0.4835	1.0000e-005	1.0000e-005	0.4876
Total	**0.0205**	**0.8082**	**0.2294**	**2.8100e-003**	**0.0700**	**6.2000e-003**	**0.0762**	**0.0192**	**5.9300e-003**	**0.0252**	**0.0000**	**294.9640**	**294.9640**	**0.0279**	**0.0474**	**309.7772**

3.6 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0354	0.0000	0.0354	0.0171	0.0000	0.0171	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.7000e-003	0.0849	0.0461	1.0000e-004		3.7100e-003	3.7100e-003		3.4100e-003	3.4100e-003	0.0000	9.0514	9.0514	2.9300e-003	0.0000	9.1245
Total	**7.7000e-003**	**0.0849**	**0.0461**	**1.0000e-004**	**0.0354**	**3.7100e-003**	**0.0391**	**0.0171**	**3.4100e-003**	**0.0205**	**0.0000**	**9.0514**	**9.0514**	**2.9300e-003**	**0.0000**	**9.1245**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1000e-004	8.0000e-005	1.0400e-003	0.0000	3.9000e-004	0.0000	4.0000e-004	1.0000e-004	0.0000	1.1000e-004	0.0000	0.3022	0.3022	1.0000e-005	1.0000e-005	0.3048
Total	**1.1000e-004**	**8.0000e-005**	**1.0400e-003**	**0.0000**	**3.9000e-004**	**0.0000**	**4.0000e-004**	**1.0000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**0.3022**	**0.3022**	**1.0000e-005**	**1.0000e-005**	**0.3048**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0159	0.0000	0.0159	7.7100e-003	0.0000	7.7100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8500e-003	0.0318	0.0607	1.0000e-004		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	9.0514	9.0514	2.9300e-003	0.0000	9.1245
Total	**1.8500e-003**	**0.0318**	**0.0607**	**1.0000e-004**	**0.0159**	**1.7000e-004**	**0.0161**	**7.7100e-003**	**1.7000e-004**	**7.8800e-003**	**0.0000**	**9.0514**	**9.0514**	**2.9300e-003**	**0.0000**	**9.1245**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1000e-004	8.0000e-005	1.0400e-003	0.0000	3.9000e-004	0.0000	4.0000e-004	1.0000e-004	0.0000	1.1000e-004	0.0000	0.3022	0.3022	1.0000e-005	1.0000e-005	0.3048
Total	**1.1000e-004**	**8.0000e-005**	**1.0400e-003**	**0.0000**	**3.9000e-004**	**0.0000**	**4.0000e-004**	**1.0000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**0.3022**	**0.3022**	**1.0000e-005**	**1.0000e-005**	**0.3048**

3.7 Building Construction (Foundation) - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0811	0.6503	0.6573	1.1200e-003		0.0316	0.0316		0.0302	0.0302	0.0000	93.5522	93.5522	0.0192	0.0000	94.0308
Total	**0.0811**	**0.6503**	**0.6573**	**1.1200e-003**		**0.0316**	**0.0316**		**0.0302**	**0.0302**	**0.0000**	**93.5522**	**93.5522**	**0.0192**	**0.0000**	**94.0308**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Building Construction (Foundation) - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0124	0.3549	0.1158	1.3500e-003	0.0684	3.1200e-003	0.0715	0.0185	2.9900e-003	0.0215	0.0000	135.9147	135.9147	8.0500e-003	0.0201	142.0905
Worker	0.0321	0.0222	0.2908	9.2000e-004	0.2057	5.6000e-004	0.2063	0.0528	5.2000e-004	0.0533	0.0000	84.7442	84.7442	2.3100e-003	2.2200e-003	85.4633
Total	**0.0445**	**0.3771**	**0.4067**	**2.2700e-003**	**0.2741**	**3.6800e-003**	**0.2778**	**0.0713**	**3.5100e-003**	**0.0748**	**0.0000**	**220.6590**	**220.6590**	**0.0104**	**0.0223**	**227.5538**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0582	0.4940	0.7126	1.1200e-003		0.0148	0.0148		0.0148	0.0148	0.0000	93.5521	93.5521	0.0192	0.0000	94.0307
Total	**0.0582**	**0.4940**	**0.7126**	**1.1200e-003**		**0.0148**	**0.0148**		**0.0148**	**0.0148**	**0.0000**	**93.5521**	**93.5521**	**0.0192**	**0.0000**	**94.0307**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Building Construction (Foundation) - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0124	0.3549	0.1158	1.3500e-003	0.0684	3.1200e-003	0.0715	0.0185	2.9900e-003	0.0215	0.0000	135.9147	135.9147	8.0500e-003	0.0201	142.0905
Worker	0.0321	0.0222	0.2908	9.2000e-004	0.2057	5.6000e-004	0.2063	0.0528	5.2000e-004	0.0533	0.0000	84.7442	84.7442	2.3100e-003	2.2200e-003	85.4633
Total	**0.0445**	**0.3771**	**0.4067**	**2.2700e-003**	**0.2741**	**3.6800e-003**	**0.2778**	**0.0713**	**3.5100e-003**	**0.0748**	**0.0000**	**220.6590**	**220.6590**	**0.0104**	**0.0223**	**227.5538**

3.8 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0233	0.2297	0.2838	4.4000e-004		0.0119	0.0119		0.0110	0.0110	0.0000	38.3317	38.3317	0.0121	0.0000	38.6341
Paving	1.6200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0249**	**0.2297**	**0.2838**	**4.4000e-004**		**0.0119**	**0.0119**		**0.0110**	**0.0110**	**0.0000**	**38.3317**	**38.3317**	**0.0121**	**0.0000**	**38.6341**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.9000e-004	6.2000e-004	8.0900e-003	3.0000e-005	3.0700e-003	2.0000e-005	3.0900e-003	8.2000e-004	1.0000e-005	8.3000e-004	0.0000	2.3570	2.3570	6.0000e-005	6.0000e-005	2.3770
Total	**8.9000e-004**	**6.2000e-004**	**8.0900e-003**	**3.0000e-005**	**3.0700e-003**	**2.0000e-005**	**3.0900e-003**	**8.2000e-004**	**1.0000e-005**	**8.3000e-004**	**0.0000**	**2.3570**	**2.3570**	**6.0000e-005**	**6.0000e-005**	**2.3770**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.5400e-003	0.1961	0.3282	4.4000e-004		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003	0.0000	38.3317	38.3317	0.0121	0.0000	38.6341
Paving	1.6200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0102**	**0.1961**	**0.3282**	**4.4000e-004**		**1.1200e-003**	**1.1200e-003**		**1.1200e-003**	**1.1200e-003**	**0.0000**	**38.3317**	**38.3317**	**0.0121**	**0.0000**	**38.6341**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.9000e-004	6.2000e-004	8.0900e-003	3.0000e-005	3.0700e-003	2.0000e-005	3.0900e-003	8.2000e-004	1.0000e-005	8.3000e-004	0.0000	2.3570	2.3570	6.0000e-005	6.0000e-005	2.3770
Total	**8.9000e-004**	**6.2000e-004**	**8.0900e-003**	**3.0000e-005**	**3.0700e-003**	**2.0000e-005**	**3.0900e-003**	**8.2000e-004**	**1.0000e-005**	**8.3000e-004**	**0.0000**	**2.3570**	**2.3570**	**6.0000e-005**	**6.0000e-005**	**2.3770**

3.9 Building Construction (Vertical) - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0260	0.2002	0.1901	3.4000e-004		9.5200e-003	9.5200e-003		9.1600e-003	9.1600e-003	0.0000	28.0776	28.0776	5.0200e-003	0.0000	28.2030
Total	**0.0260**	**0.2002**	**0.1901**	**3.4000e-004**		**9.5200e-003**	**9.5200e-003**		**9.1600e-003**	**9.1600e-003**	**0.0000**	**28.0776**	**28.0776**	**5.0200e-003**	**0.0000**	**28.2030**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Building Construction (Vertical) - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.5300e-003	0.1298	0.0424	4.9000e-004	0.0250	1.1400e-003	0.0262	6.7800e-003	1.0900e-003	7.8800e-003	0.0000	49.7249	49.7249	2.9400e-003	7.3400e-003	51.9843
Worker	0.0117	8.1300e-003	0.1064	3.4000e-004	0.0753	2.1000e-004	0.0755	0.0193	1.9000e-004	0.0195	0.0000	31.0040	31.0040	8.5000e-004	8.1000e-004	31.2671
Total	**0.0163**	**0.1380**	**0.1488**	**8.3000e-004**	**0.1003**	**1.3500e-003**	**0.1016**	**0.0261**	**1.2800e-003**	**0.0274**	**0.0000**	**80.7289**	**80.7289**	**3.7900e-003**	**8.1500e-003**	**83.2514**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0197	0.1503	0.2080	3.4000e-004		5.2900e-003	5.2900e-003		5.2900e-003	5.2900e-003	0.0000	28.0776	28.0776	5.0200e-003	0.0000	28.2030
Total	**0.0197**	**0.1503**	**0.2080**	**3.4000e-004**		**5.2900e-003**	**5.2900e-003**		**5.2900e-003**	**5.2900e-003**	**0.0000**	**28.0776**	**28.0776**	**5.0200e-003**	**0.0000**	**28.2030**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Building Construction (Vertical) - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.5300e-003	0.1298	0.0424	4.9000e-004	0.0250	1.1400e-003	0.0262	6.7800e-003	1.0900e-003	7.8800e-003	0.0000	49.7249	49.7249	2.9400e-003	7.3400e-003	51.9843
Worker	0.0117	8.1300e-003	0.1064	3.4000e-004	0.0753	2.1000e-004	0.0755	0.0193	1.9000e-004	0.0195	0.0000	31.0040	31.0040	8.5000e-004	8.1000e-004	31.2671
Total	**0.0163**	**0.1380**	**0.1488**	**8.3000e-004**	**0.1003**	**1.3500e-003**	**0.1016**	**0.0261**	**1.2800e-003**	**0.0274**	**0.0000**	**80.7289**	**80.7289**	**3.7900e-003**	**8.1500e-003**	**83.2514**

3.9 Building Construction (Vertical) - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0336	0.2619	0.2634	4.8000e-004		0.0117	0.0117		0.0113	0.0113	0.0000	39.3085	39.3085	6.8600e-003	0.0000	39.4798
Total	**0.0336**	**0.2619**	**0.2634**	**4.8000e-004**		**0.0117**	**0.0117**		**0.0113**	**0.0113**	**0.0000**	**39.3085**	**39.3085**	**6.8600e-003**	**0.0000**	**39.4798**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Building Construction (Vertical) - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.3500e-003	0.1483	0.0532	6.6000e-004	0.0350	7.6000e-004	0.0358	9.5000e-003	7.3000e-004	0.0102	0.0000	66.9240	66.9240	4.1200e-003	9.8700e-003	69.9671
Worker	0.0155	0.0101	0.1392	4.6000e-004	0.1054	2.7000e-004	0.1056	0.0270	2.5000e-004	0.0273	0.0000	42.0223	42.0223	1.0700e-003	1.0500e-003	42.3634
Total	**0.0188**	**0.1584**	**0.1924**	**1.1200e-003**	**0.1404**	**1.0300e-003**	**0.1414**	**0.0365**	**9.8000e-004**	**0.0375**	**0.0000**	**108.9463**	**108.9463**	**5.1900e-003**	**0.0109**	**112.3305**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0257	0.2032	0.2900	4.8000e-004		6.4600e-003	6.4600e-003		6.4600e-003	6.4600e-003	0.0000	39.3084	39.3084	6.8600e-003	0.0000	39.4798
Total	**0.0257**	**0.2032**	**0.2900**	**4.8000e-004**		**6.4600e-003**	**6.4600e-003**		**6.4600e-003**	**6.4600e-003**	**0.0000**	**39.3084**	**39.3084**	**6.8600e-003**	**0.0000**	**39.4798**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Building Construction (Vertical) - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.3500e-003	0.1483	0.0532	6.6000e-004	0.0350	7.6000e-004	0.0358	9.5000e-003	7.3000e-004	0.0102	0.0000	66.9240	66.9240	4.1200e-003	9.8700e-003	69.9671
Worker	0.0155	0.0101	0.1392	4.6000e-004	0.1054	2.7000e-004	0.1056	0.0270	2.5000e-004	0.0273	0.0000	42.0223	42.0223	1.0700e-003	1.0500e-003	42.3634
Total	**0.0188**	**0.1584**	**0.1924**	**1.1200e-003**	**0.1404**	**1.0300e-003**	**0.1414**	**0.0365**	**9.8000e-004**	**0.0375**	**0.0000**	**108.9463**	**108.9463**	**5.1900e-003**	**0.0109**	**112.3305**

3.10 Building Construction (Building Finishing) - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0117	0.1092	0.1302	1.7000e-004		6.7500e-003	6.7500e-003		6.2100e-003	6.2100e-003	0.0000	15.2756	15.2756	4.9400e-003	0.0000	15.3992
Total	**0.0117**	**0.1092**	**0.1302**	**1.7000e-004**		**6.7500e-003**	**6.7500e-003**		**6.2100e-003**	**6.2100e-003**	**0.0000**	**15.2756**	**15.2756**	**4.9400e-003**	**0.0000**	**15.3992**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Building Construction (Building Finishing) - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.1900e-003	0.2295	0.0823	1.0200e-003	0.0318	1.1800e-003	0.0330	9.2000e-003	1.1300e-003	0.0103	0.0000	103.5729	103.5729	6.3700e-003	0.0153	108.2823
Worker	0.0240	0.0156	0.2155	7.1000e-004	0.0875	4.2000e-004	0.0879	0.0233	3.9000e-004	0.0237	0.0000	65.0345	65.0345	1.6600e-003	1.6300e-003	65.5625
Total	**0.0291**	**0.2452**	**0.2978**	**1.7300e-003**	**0.1193**	**1.6000e-003**	**0.1209**	**0.0325**	**1.5200e-003**	**0.0340**	**0.0000**	**168.6074**	**168.6074**	**8.0300e-003**	**0.0169**	**173.8448**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.9300e-003	0.0764	0.1321	1.7000e-004		2.9000e-004	2.9000e-004		2.9000e-004	2.9000e-004	0.0000	15.2756	15.2756	4.9400e-003	0.0000	15.3991
Total	**3.9300e-003**	**0.0764**	**0.1321**	**1.7000e-004**		**2.9000e-004**	**2.9000e-004**		**2.9000e-004**	**2.9000e-004**	**0.0000**	**15.2756**	**15.2756**	**4.9400e-003**	**0.0000**	**15.3991**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Building Construction (Building Finishing) - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.1900e-003	0.2295	0.0823	1.0200e-003	0.0318	1.1800e-003	0.0330	9.2000e-003	1.1300e-003	0.0103	0.0000	103.5729	103.5729	6.3700e-003	0.0153	108.2823
Worker	0.0240	0.0156	0.2155	7.1000e-004	0.0875	4.2000e-004	0.0879	0.0233	3.9000e-004	0.0237	0.0000	65.0345	65.0345	1.6600e-003	1.6300e-003	65.5625
Total	**0.0291**	**0.2452**	**0.2978**	**1.7300e-003**	**0.1193**	**1.6000e-003**	**0.1209**	**0.0325**	**1.5200e-003**	**0.0340**	**0.0000**	**168.6074**	**168.6074**	**8.0300e-003**	**0.0169**	**173.8448**

3.11 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1647					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.6000e-004	6.5100e-003	9.0600e-003	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2785
Total	**1.1657**	**6.5100e-003**	**9.0600e-003**	**1.0000e-005**		**3.5000e-004**	**3.5000e-004**		**3.5000e-004**	**3.5000e-004**	**0.0000**	**1.2766**	**1.2766**	**8.0000e-005**	**0.0000**	**1.2785**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.11 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.7000e-004	2.4000e-004	3.3000e-003	1.0000e-005	1.3400e-003	1.0000e-005	1.3400e-003	3.6000e-004	1.0000e-005	3.6000e-004	0.0000	0.9947	0.9947	3.0000e-005	2.0000e-005	1.0028
Total	**3.7000e-004**	**2.4000e-004**	**3.3000e-003**	**1.0000e-005**	**1.3400e-003**	**1.0000e-005**	**1.3400e-003**	**3.6000e-004**	**1.0000e-005**	**3.6000e-004**	**0.0000**	**0.9947**	**0.9947**	**3.0000e-005**	**2.0000e-005**	**1.0028**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1647					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.6000e-004	6.5100e-003	9.0600e-003	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2785
Total	**1.1657**	**6.5100e-003**	**9.0600e-003**	**1.0000e-005**		**3.5000e-004**	**3.5000e-004**		**3.5000e-004**	**3.5000e-004**	**0.0000**	**1.2766**	**1.2766**	**8.0000e-005**	**0.0000**	**1.2785**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.11 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.7000e-004	2.4000e-004	3.3000e-003	1.0000e-005	1.3400e-003	1.0000e-005	1.3400e-003	3.6000e-004	1.0000e-005	3.6000e-004	0.0000	0.9947	0.9947	3.0000e-005	2.0000e-005	1.0028
Total	**3.7000e-004**	**2.4000e-004**	**3.3000e-003**	**1.0000e-005**	**1.3400e-003**	**1.0000e-005**	**1.3400e-003**	**3.6000e-004**	**1.0000e-005**	**3.6000e-004**	**0.0000**	**0.9947**	**0.9947**	**3.0000e-005**	**2.0000e-005**	**1.0028**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.6976	0.5486	5.7143	0.0134	1.2245	8.4000e-003	1.2329	0.3050	7.8200e-003	0.3129	0.0000	1,231.1961	1,231.1961	0.0644	0.0506	1,247.8793
Unmitigated	0.6976	0.5486	5.7143	0.0134	1.2245	8.4000e-003	1.2329	0.3050	7.8200e-003	0.3129	0.0000	1,231.1961	1,231.1961	0.0644	0.0506	1,247.8793

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Research & Development	1,937.75	328.43	192.95	3,655,587	3,655,587
Unenclosed Parking Structure	0.00	0.00	0.00		
Total	1,937.75	328.43	192.95	3,655,587	3,655,587

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Research & Development	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Unenclosed Parking Structure	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.473689	0.072335	0.232457	0.144246	0.025248	0.006233	0.010124	0.002125	0.001469	0.000591	0.028445	0.000434	0.002601
Parking Lot	0.473689	0.072335	0.232457	0.144246	0.025248	0.006233	0.010124	0.002125	0.001469	0.000591	0.028445	0.000434	0.002601
Research & Development	0.473689	0.072335	0.232457	0.144246	0.025248	0.006233	0.010124	0.002125	0.001469	0.000591	0.028445	0.000434	0.002601
Unenclosed Parking Structure	0.473689	0.072335	0.232457	0.144246	0.025248	0.006233	0.010124	0.002125	0.001469	0.000591	0.028445	0.000434	0.002601

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0272	0.2472	0.2077	1.4800e-003		0.0188	0.0188		0.0188	0.0188	0.0000	269.1434	269.1434	5.1600e-003	4.9300e-003	270.7428
NaturalGas Unmitigated	0.0272	0.2472	0.2077	1.4800e-003		0.0188	0.0188		0.0188	0.0188	0.0000	269.1434	269.1434	5.1600e-003	4.9300e-003	270.7428

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Research & Development	5.04356e+006	0.0272	0.2472	0.2077	1.4800e-003		0.0188	0.0188		0.0188	0.0188	0.0000	269.1434	269.1434	5.1600e-003	4.9300e-003	270.7428
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0272**	**0.2472**	**0.2077**	**1.4800e-003**		**0.0188**	**0.0188**		**0.0188**	**0.0188**	**0.0000**	**269.1434**	**269.1434**	**5.1600e-003**	**4.9300e-003**	**270.7428**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Research & Development	5.04356e+006	0.0272	0.2472	0.2077	1.4800e-003		0.0188	0.0188		0.0188	0.0188	0.0000	269.1434	269.1434	5.1600e-003	4.9300e-003	270.7428
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0272**	**0.2472**	**0.2077**	**1.4800e-003**		**0.0188**	**0.0188**		**0.0188**	**0.0188**	**0.0000**	**269.1434**	**269.1434**	**5.1600e-003**	**4.9300e-003**	**270.7428**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	634364	0.0000	0.0000	0.0000	0.0000
Parking Lot	18841.5	0.0000	0.0000	0.0000	0.0000
Research & Development	1.52518e+006	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	157131	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	634364	0.0000	0.0000	0.0000	0.0000
Parking Lot	18841.5	0.0000	0.0000	0.0000	0.0000
Research & Development	1.52518e+006	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	157131	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.9354	4.0000e-005	4.2700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.3200e-003	8.3200e-003	2.0000e-005	0.0000	8.8600e-003
Unmitigated	0.9354	4.0000e-005	4.2700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.3200e-003	8.3200e-003	2.0000e-005	0.0000	8.8600e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1165					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8185					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.9000e-004	4.0000e-005	4.2700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.3200e-003	8.3200e-003	2.0000e-005	0.0000	8.8600e-003
Total	**0.9354**	**4.0000e-005**	**4.2700e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**8.3200e-003**	**8.3200e-003**	**2.0000e-005**	**0.0000**	**8.8600e-003**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1165					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8185					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.9000e-004	4.0000e-005	4.2700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.3200e-003	8.3200e-003	2.0000e-005	0.0000	8.8600e-003
Total	**0.9354**	**4.0000e-005**	**4.2700e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**8.3200e-003**	**8.3200e-003**	**2.0000e-005**	**0.0000**	**8.8600e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	33.3214	3.4224	0.0808	142.9638
Unmitigated	33.3214	3.4224	0.0808	142.9638

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Research & Development	105.031 / 0	33.3214	3.4224	0.0808	142.9638
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**33.3214**	**3.4224**	**0.0808**	**142.9638**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Research & Development	105.031 / 0	33.3214	3.4224	0.0808	142.9638
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**33.3214**	**3.4224**	**0.0808**	**142.9638**

8.0 Waste Detail

8.1 Mitigation Measures Waste

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	3.2945	0.1947	0.0000	8.1621
Unmitigated	3.2945	0.1947	0.0000	8.1621

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Research & Development	16.23	3.2945	0.1947	0.0000	8.1621
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Total		**3.2945**	**0.1947**	**0.0000**	**8.1621**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Research & Development	16.23	3.2945	0.1947	0.0000	8.1621
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Total		**3.2945**	**0.1947**	**0.0000**	**8.1621**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	1	30	83	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

405 Industrial Road Project Conditions - San Mateo County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Equipment Type	Number

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (75 - 100 HP)	2.0400e-003	6.6600e-003	7.4100e-003	1.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	0.9482	0.9482	1.3000e-004	0.0000	0.9515
Total	**2.0400e-003**	**6.6600e-003**	**7.4100e-003**	**1.0000e-005**		**3.0000e-004**	**3.0000e-004**		**3.0000e-004**	**3.0000e-004**	**0.0000**	**0.9482**	**0.9482**	**1.3000e-004**	**0.0000**	**0.9515**

11.0 Vegetation

405 Industrial Road Life Science Project IS/MND

Appendix B.3: Health Risk Assessment Methodology

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Memo

To: Lisa Costa Sanders, City of San Carlos

CC: Phil Gleason, MIG

From: Kasey Kitowski and Chris Dugan

Date: February 22, 2022

SUBJECT: 405 Industrial Road Construction Health Risk Assessment

This memorandum describes the methodology and results of the health risk assessment for the proposed life sciences project at 405 Industrial Road in San Carlos. As explained in this memorandum, the proposed Project does not exceed the BAAQMD-recommended significance threshold of 10 excess cancers per million population with mitigation.

Construction Exhaust $PM_{2.5}$ Modeling Methodology

Construction activities associated with the proposed project would generate on- and off-site exhaust emissions, including diesel particulate matter (DPM), in the form of $PM_{2.5}$. The specific quantity of emissions emitted at any given time would be dependent on the type and number of pieces of equipment operating, the equipment's engine classification, the equipment's horsepower, and the load the engine is under. Off-site emissions would be generated from haul trucks used to export waste and soil to and from the site.

The U.S. EPA's AERMOD dispersion model (version 21112) was used to predict pollutant concentrations at existing sensitive receptors near the project site for both scenarios. The AERMOD dispersion model is an EPA-approved and BAAQMD-recommended model for simulating the dispersion of pollutant emissions and estimating ground level concentrations of pollutants at specified receptor locations. AERMOD requires the user to input information on the source(s) of pollutants being modeled, the receptors where pollutant concentrations are modeled, and the meteorology, terrain, and other factors that affect the potential dispersion of pollutants. These variables are described below.

Modeled Construction Sources / Emission Rates

On- and off-site construction emissions were modeled as a series of area and line area sources, as shown in Table B3-1 and Figure B3-1.

Table B3-1: AERMOD Source Parameters				
Source ID	**Source Description**	**UTM Coordinates(A)**		**Size (m^2)**
		X	**Y**	
PAREA1	Project Site Year 1	565503.97	4152069.99	9287.8
PAREA2	Project Site Year 2	565503.97	4152069.99	9287.8
ARLN1	Driveway Year 1	565510.24	4152063.62	679.5(B)
ARLN2	Industrial Road Year 1	565461.58	4152036.24	3088.8(B)
ARLN3	Holly Street Year 1	565591.51	4151930.12	4020.0(B)

(A) UTM coordinates represent the southwest corner of the source.
(B) Reflects length of line area source in meters

Figure B3-1: Modeled Construction Emissions Sources

Consistent with BAAQMD-recommendations, $PM_{2.5}$ construction exhaust emissions were presumed to be 100 percent DPM; $PM_{2.5}$ fugitive dust emissions were not modeled to determine total combined $PM_{2.5}$ exposure pursuant to BAAQMD CEQA Guidelines and guidance provided

by staff of the BAAQMD's Planning and Climate Protection Division (BAAQMD 2017). An emissions rate for each source listed in Table B3-1 was derived from the CalEEMod emissions estimates shown in Appendix B1 and B2. The annual emissions generated during construction of the proposed life sciences building were converted to an average emission rate in terms of grams / second per hour per hour of construction activity.[1]

On-site DPM emissions were also modeled as a single area source for each year of construction. DPM exhaust emissions were assigned a release height of five (5) meters (m); this elevated source height reflects the height of the equipment exhaust pipes, plus an additional distance for the height of the exhaust plume above the exhaust pipes to account for the plume rise of the exhaust gases . The Sacramento Metro Air Quality Management District (SMAQMD) recommends a release height of 5 meters. Since the BAAQMD does not have a recommended release height for PM_{10} exhaust emissions generated by construction equipment, the SMAQMD's release heights have been used instead (SMAQMD 2013).

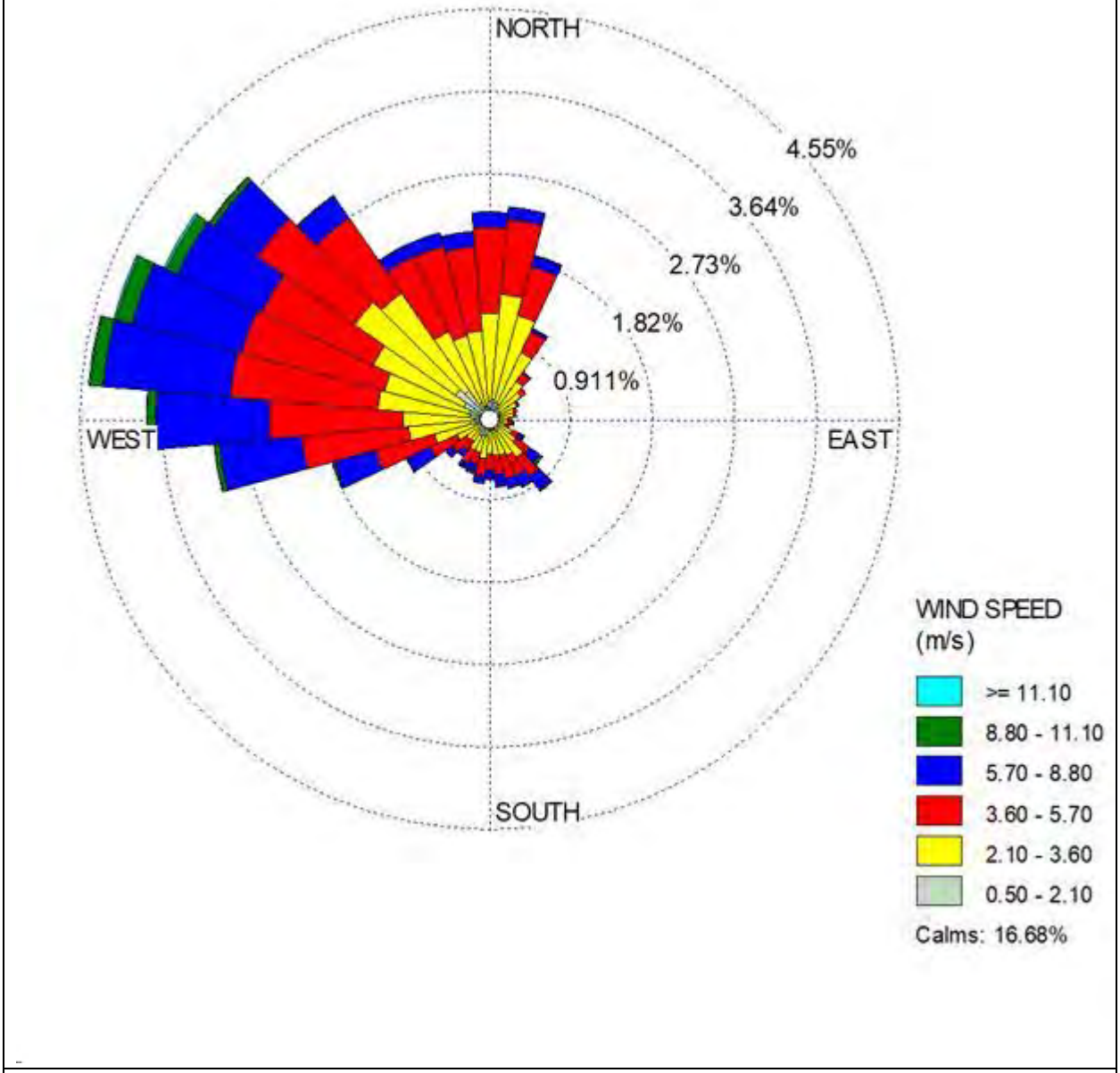
Off-site DPM emissions from vehicles were modeled as a line area source. All vehicles were assumed to travel on Industrial Road and Holly Street, which connects the project site to US-101. Hauling trips were modeled as area line sources, with a release height of 4.12 meters, the approximate height of a truck exhaust.

Meteorological Data Inputs

AERMOD requires meteorological data as an input into the model. The meteorological data is processed using AERMET, a pre-processor to AERMOD. AERMET requires surface meteorological data, upper air meteorological data, and surface parameter data such as albedo (reflectivity) and surface roughness. For the proposed project, pre-processed surface data was obtained from CARB for San Carlos Airport, the closest meteorological station to the Project site (see Figure B3-2). Five complete years of meteorological data from January 2009 to February 2014 were utilized. The meteorological data was processed using AERMET version 14134 with the adjusted U*. Emissions were modeled to be generated during potential construction hours only.

[1]The average emissions rate is based on 3,120 active construction hours for Year 1 and 1,452 active construction hours for Year 2.

Figure B-2: Wind Rose for San Carlos Airport



Source: CARB 2022

Terrain Inputs

Terrain was incorporated by using AERMAP (an AERMOD pre-processor) to import the elevation of the project site using data from the National Elevation Dataset (NED) with a resolution of 1/3 arcsecond.

Modeled Receptors

A multi-tiered grid was used to model construction activities. The three-tier grid was developed using the centroid of all source polygons (565514.26 m E and 4152033.99 m N). Tier 1 consisted of 25-meter grid spacing to a point 50 meters from the grid center. Tier 2 consisted of 10-meter spacing from 50 meters to 250 meters from the grid center. Tier 3 consisted of 100-meter spacing from 250 meters to 500 meters from the grid center. The grid was converted to 2,613 discrete Cartesian receptors, 66 of which were removed because they were located within the plant boundary, yielding a total of 2,547 discrete modeled receptors. All modeled receptors were assigned a flagpole breathing height of 1.8 meters (5.9 feet) above ground surface.

Health Risk Analysis Methodology

Cancer risk and non-cancer health risks to sensitive receptors within one-quarter mile of on-site sources were estimated using the U.S. EPA's AERMOD dispersion model and recommendations contained in the BAAQMD's *Health Risks Assessment Modeling Protocol,* as well as the OEHHA *Air Toxics Hot Spots Program Guidance Manual*.

Cancer Risk

Cancer risk is the calculated, pollutant-specific estimated probability of developing cancer based upon the dose and exposure to the toxic air contaminants (TAC). Cancer risk is determined by calculating the combinatory effects of the cancer potency factor (CPF) when inhaling the toxic, the daily inhalation dose, the age group the receptor is cohort to, the duration of exposure over a lifetime (70 years), and other factors such as age sensitivity and the amount of time spent at the location of exposure. Risks were assessed for the inhalation pathway (i.e., breathing) for both residential receptors. Additionally, residential receptors were assessed under a 70-year exposure duration to further detail potential risk to those under lifetime exposure. Cancer risk equations for residential are summarized in Table B3-2 and B3-3.

Exposure to receptors was assessed for the two years in which construction activities would take place and the receptors would be exposed to construction $PM_{2.5}$ emissions. The exposure time is consistent with the construction schedule described in the Initial Study prepared for the project..

Table B3-2: Cancer Risk Equations	
Equation 1 – Residential/Student Risk:	$RISK_{INH.RES} = DOSE_{AIR.RES} \times CPF \times ASF \times \frac{ED}{AT} \times FAH$
Equation 2 – Worker Risk:	$RISK_{INH.WORK} = DOSE_{AIR.WORK} \times CPF \times ASF \times \frac{ED}{AT}$
Where:	
$DOSE_{AIR}$ =	Daily Inhalation Dose (mg/kg-day). See Table B3-3.
CPF =	Cancer Potency Factor for Inhalants (mg/kg-day). CPF is expressed as the 95th percent upper confidence limit of the slope of the dose response curve under continuous lifetime exposure conditions. The CPF for diesel exhaust is 1.1 mg/kg-day.
ASF =	Age Sensitivity Factor. ASF is a protective coefficient intended to take into account increased susceptibility to long-term health effects from early-life exposure to TACs. The recommended ASFs are 10 for the third-trimester to birth and two-year age bins, three for the two-year to nine-year and 16-year age bins, and one for receptors over 16 years of age.
ED =	Exposure Duration (years). Exposure duration characterizes the length of residency (30 Years) or employment (25 Years) of the receptor.
AT =	Averaging Time (years). A 70-year (lifetime) averaging time is used to characterize to total risk as a factor of average risk over a typical lifespan.
FAH =	Fraction at Home. FAH is the percentage of time the receptor is physically at the receptor location. The recommended percentages are 85 percent for the third-trimester to birth and two-year age bins, 72 percent for the two-year to nine-year and 16-year age bins, and 73 for receptors over 16 years of age.

Table B3-3: Inhalation Dose Equations	
Residential Dose	$DOSE_{AIR.RES} = C_{AIr} \times \frac{BR}{BW} \times A \times EF \times 10^{-6}$
Where:	
C_{AIR} =	Concentration of TAC in air (µg/m^3). Concentration of toxic in micrograms per one cubic meter of air. The AERMOD program is used in the study to determine concentrations of diesel particulate matter at surrounding discrete and grid receptor points.
BR/BW =	Breathing Rate ÷ Body Weight (L/kg/day). Daily breathing rate normalized to body weight. The 95th percentile breathing rate to body weight ratios are used in this study with a recommended 361 L/kg/day for the third-trimester to birth age bin and 1,090 L/kg/day for the birth to two-years age bin. The 80th percentile breathing rate to body weight ratios are used in this study with a recommended 572 for the two-years to 16-years age bin, 261 L/kg/day for the 16-years to 30-years age bin, and 233 L/kg/day for the 16-years to 70-years age bin. A daily breathing rate of 230 L/kg/day was used for the worker dose.
A =	Inhalation Absorption Factor. Is a coefficient that reflects the fraction of chemical absorbed in studies used in the development of CPF and Reference Exposure Levels (RELs). An absorption factor of one is recommended for all chemicals.

Table B3-3: Inhalation Dose Equations	
Residential Dose	$DOSE_{AIR.RES} = C_{AIr} \times \frac{BR}{BW} \times A \times EF \times 10^{-6}$
EF =	Exposure Frequency. EF is the ratio of days in a year that a receptor is receiving the dose. The recommended EF is 0.96 characterizing an assumed 350 days a year that a residential receptor is home for some portion of the day.

Non-Cancer Risk

The chronic non-cancer hazard quotient is the calculated pollutant-specific indicator for risk of developing an adverse health effect on specific organ system(s) targeted by the identified TAC, in this DPM. The potential for exposure to result in chronic non-cancer effects is evaluated by comparing the estimated annual average air concentration to the chemical-specific, non-cancer chronic reference exposure levels (RELs). The REL is a concentration below which there is assumed to be no observable adverse health impact to a target organ system. When calculated for a single chemical, the comparison yields a ratio termed a hazard quotient. To evaluate the potential for adverse chronic non-cancer health effects from simultaneous exposure to multiple chemicals, the hazard quotients for all chemicals are summed, yielding a hazard index. The chronic REL for DPM was established by OEHHA as 5 µg/m^3. For an acute hazard quotient, the one-hour maximum concentration is divided by the acute REL for the substance; however, there is no acute REL for DPM.

Chronic non-cancer risks are considered significant if a project's TAC emissions result in a hazard index greater than or equal to one. Non-cancer risk equations are summarized in Table B3-4.

Table B3-4: Non-Cancer Risk Equation	
Chronic Hazard Quotient:	$HI_{DPM} = \frac{C_{DPM}}{REL_{AAC}}$
Where:	
HI_{DPM} =	Hazard Index; an expression of the potential for non-cancer health effects.
C_{DPM} =	Annual average DPM concentration (µg/m^3).
REL_{DPM} =	Reference exposure level (REL) for DPM; the DPM concentration at which no adverse health effects are anticipated.

Health Risks Assessment Results

The results of the construction HRA are presented below.

Individual Cancer Risk from Exposure to DPM

The predicted locations of the annual, unmitigated point of maximum impact (PMI) and the maximally exposed individual resident (MEIR) for DPM exposure during construction along with contours of pollutant concentrations in proximity of the Project site are shown at the end of the document in Figures B3-4 and B3-5 for Year 1 and Year 2 respectively of unmitigated construction. See Appendix B4for the HRA output. The predicted PMI is located immediately south of the site. Since the PMI for DPM exposure is located on land that is not occupied by a receptor on a permanent basis, lifetime excess cancer risks and chronic non-cancer health hazards, which are based on exposure to annual average pollutant concentrations, were not estimated for the modeled PMI location.

Accordingly, health risks were assessed at the modeled residential MEIR location, which is located west of the project site at a single-family residential building on Fairfield Drive, in the

City of San Carlos (565524.25 m E, 4151934 m N) . The HRA for residential receptors evaluated worst-case carcinogenic and non-carcinogenic risks to child (3rd trimester, 0-2 years, and 2-16 years) and adult (16-30 years and 30-70 years) receptors.

As shown in Table B3-5, unmitigated construction exhaust emissions would have the potential to result in incremental cancerogenic health risk increases that are in excess of the BAAQMD's threshold of 10 excess cancers in a million. To reduce potential DPM (and $PM_{2.5}$) emissions generated by project construction activities, the following mitigation would be incorporated into the Project.

Impact: Construction equipment could generate DPM emission in excess of regulatory standards.

Mitigation Measure: To reduce potential, short-term adverse health risks associated with $PM_{2.5}$ emissions, including emissions of diesel particulate matter (DPM) generated during project construction activities, the City shall require the project Applicant and/or its designated contractors, contractor's representatives, or other appropriate personnel to comply with the following construction equipment restrictions:

- All mobile construction equipment greater than 50 horsepower in size shall meet with U.S. EPA and CARB Tier IV Exhaust Emission Standards. This may be achieved via the use of equipment with engines that have been certified to meet U.S. EPA and CARB Tier IV emissions standards, or through the use of equipment that has been retrofitted with a CARB-verified diesel emission control strategy (e.g., particulate filter) capable of reducing exhaust $PM_{2.5}$ emissions to levels that meet U.S. EPA and CARB Tier IV emissions standards.

As an alternative to having all mobile construction equipment greater than 50 horsepower meet with U.S. EPA and CARB Tier IV Exhaust Emission Standards, the Applicant may prepare and submit a refined construction health risk assessment to the City once additional project-specific construction information is known (e.g., specific construction equipment type, quantity, engine tier, and runtime by phase). The refined health risk assessment shall demonstrate and identify any measures necessary such that the proposed project's incremental carcinogenic health risk at nearby sensitive receptor locations is below the applicable BAAQMD threshold of 10 cancers in a million.

Effectiveness: This measure would reduce potential carcinogenic health risks by approximately 70.8 percent.

Implementation: The Applicant shall include this requirement on all appropriate bid, contract, and engineering and site plan (e.g., building, grading, and improvement plans) documents.

Timing: During construction activities.

Monitoring: The City shall review all appropriate bid, contract, and engineering and site plan documents for inclusion of this requirement and verify the construction equipment utilized during construction meet the Tier IV emission standards.

The above Mitigation Measure requires all mobile diesel construction equipment greater than 50 horsepower meet U.S. EPA Tier IV emission standards. This measure is estimated to reduce construction-related $PM_{2.5}$ emissions by approximately 71%, thus rendering the Project's potential adverse health risks from construction activities a less than significant impact. Figures B3-6 and B3-7 shows contours of pollutant concentrations in proximity of the Project site for Year 1 and Year 2 respectively of mitigated construction. Table B3-5 summarizes the project's mitigated construction health risk estimates.

Table B3-5: Maximum Increased Cancer Risk from Project Construction DPM Emissions

Receptor Age Range	Health Risk Increase at MEIR[(A)] (Excess Cancer Risk per Million Population)	
	Unmitigated	**Mitigated**
Residential Child Receptor (0-2 Years of Age)	28.8	8.4
Residential Child Receptor (2 -16 Years of Age)	4.5	1.3
Residential Adult Receptor (16 to 30 Years of Age)	.05	0.1
Residential Adult Receptor (30 to 70 Years of Age)	0.5	0.1
BAAQMD Significance Threshold	10	10
Threshold Exceeded?	**Yes[(B)]**	**No**

Source: MIG, 2021 (see Appendix B.4)

(A) MEIR is located at 565524.25 m E and 4151934 m N

(B) As show in the "Residential Child Receptor (0-2 Years of Age)", the BAAQMD's threshold would be exceeded by approximately 10.8 excess cancers per million population.

As shown in Table B3-5, the maximum, combined mitigated health risk for the MEIR location would be approximately 8.4 excess cancers in a million, which does not exceed the BAAQMD cancer risk threshold of 10 in a million.

Figure B3-4: Construction Health Risk Assessment- Year 1 Unmitigated

Figure B3-5: Construction Health Risk Assessment- Year 2 Unmitigated

Figure B3-6: Construction Health Risk Assessment- Year 1 Mitigated

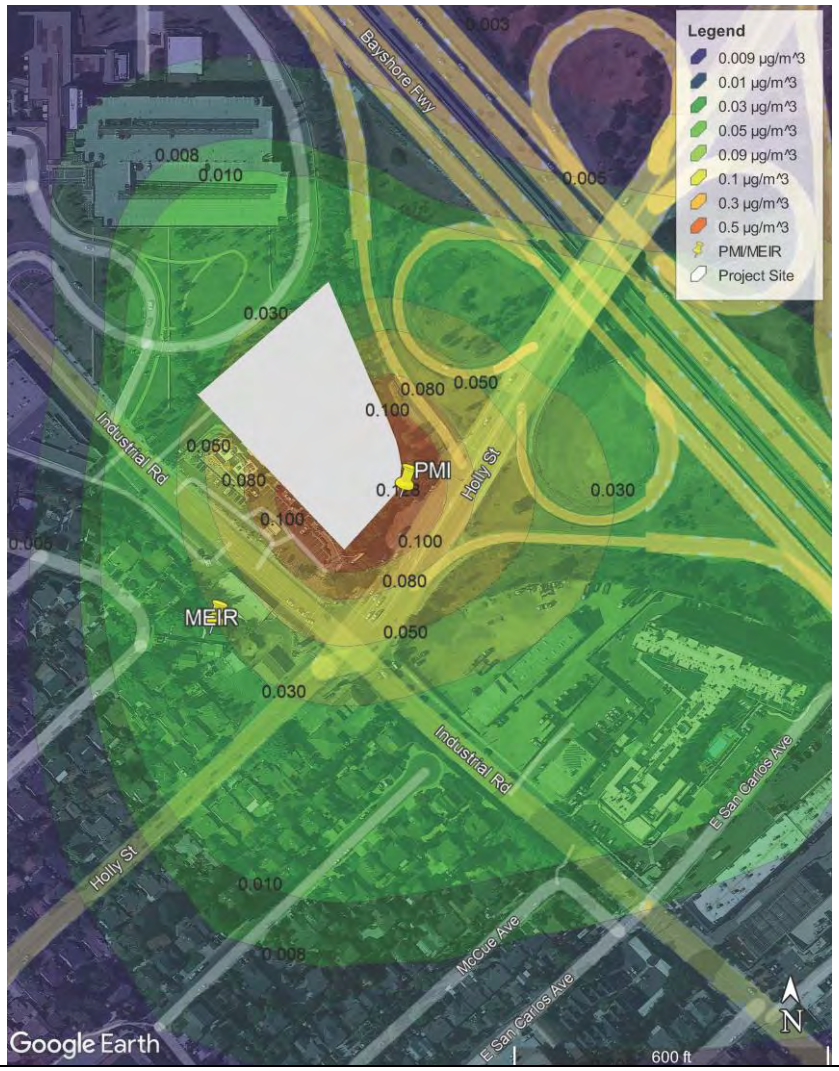
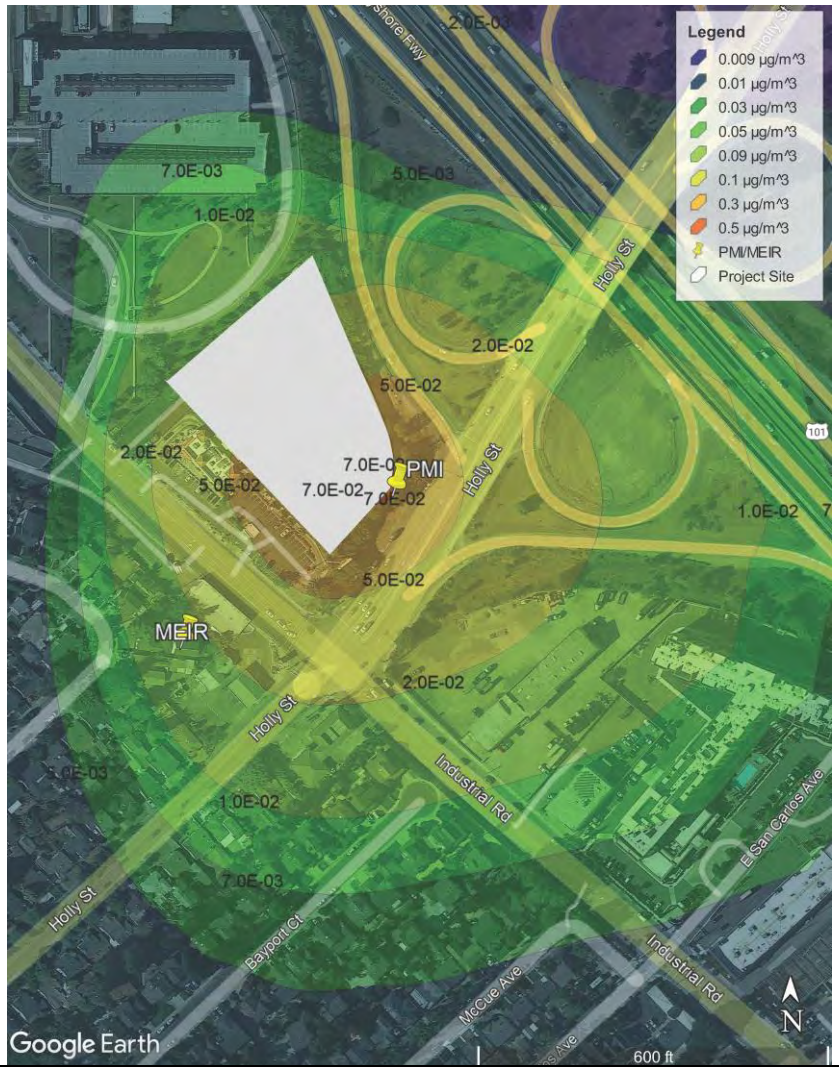


Figure B3-7: Construction Health Risk Assessment- Year 2 Mitigated



Non-Cancer Risk

The maximum annual average DPM concentration at any long-term receptor location would be approximately 0.03251 µg/m^3, which would occur at the MEIR location during Year 1 of construction. Based on the chronic inhalation REL for DPM (5 µg/m^3), the calculated chronic hazard quotient during the maximum exposure to DPM concentration would be 0.006502, which is below the BAAQMD's non-cancer hazard index threshold value of 1.0. The annual average DPM concentration at the MEIR location in Year 2 of construction would be less than Year 1 and, therefore, would also be below the BAAQMD's non-cancer hazard index.

CONCLUSION

As described in this memo, the proposed project would not exceed the applicable BAAQMD-recommended CEQA thresholds of significance for cancer risk or non-cancer risk with the incorporation of mitigation that requires that mobile construction equipment over 50 hp are Tier IV.

REFERENCES

The following references were used to prepare this memorandum:

Bay Area Air Quality Management District (BAAQMD) 2017. California Environmental Quality Air Quality Guidelines. 2017. https://www.baaqmd.gov/~/media/files/planning-and-research/ceqa/ceqa_guidelines_may2017-pdf.pdf?la=en

California Air Resources Board (CARB) 2022. HARP AERMOD Meteorological Files. https://ww2.arb.ca.gov/resources/documents/harp-aermod-meteorological-files

Sacramento Metro Air Quality Management District (SMAQMD) 2013. “CEQA Guide”. Chapter 3. Dispersion Modeling of Construction-Generated PM_{10} Emissions. Revised July 2013. Web. http://www.airquality.org/LandUseTransportation/Documents/Ch3PMDispersionModelingGuidanceFINAL7-2013.pdf

405 Industrial Road Life Science Project IS/MND

Appendix B.4: Health Risk Assessment Results

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Appendix B4: Construction Health Risk Assessment Calculations (DPM)
405 Industrial Road Project HRA
Unmitigated Health Risk Calculations - Residential

METHODOLOGY

Dose (Air) = Cair x DBR x A x EF x CF

Where:
- Cair: Chemical concentration in air (µg/m^3)
- DBR: Daily breathing rate (L/kg-day)
- A: Inhalation adsorption factor (unitless)
- EF: Exposure Frequency, days at home / days in year (unitless)
- CF: 10^{-6} Conversion Factor (m^3/L and mg/µg)

Cancer Risk (per million) = Dose (Air) x CPF x ASF x (ED/AT) x FAH x 1,000,000

Where:
- Dose: Dose of chemical in the air (µg/m3)
- CPF: Cancer Potency Factor $(mg/kg\text{-}day)^{-1}$
- ASF: Age Sensitivity Factor
- ED: Exposure Duration (years)
- AT: Averaging Time for lifetime cancer risks
- FAH: Fraction of daily time spent at home / school

Risk Parameter Values by Age Bin

Variable	Residential Age Bin				
	3rd Trimester	0-2 Years	2-16 Years	16-30 Years	16-70 Years
DBR	361	1090	572	261	233
A	1	1	1	1	1
EF	0.96	0.96	0.96	0.96	0.96
CF	1.00E-06	1.00E-06	1.00E-06	1.00E-06	1.00E-06
CPF	1.1	1.1	1.1	1.1	1.1
ASF	10	10	3	1	1
ED	0.25	2	14	14	54
AT	70	70	70	70	70
FAH	1	1	1	0.73	0.73

AERMOD Modeled DPM Concentrations (PMI/MEIR)

	PMI			MEIR		
	Conc.	X	Y	Conc.	X	Y
Year 1	0.51253	565619.89	4152017.45	0.12929	565524.25	4151934
Year 2	0.18383	565619.89	565619.89	0.04631	565524.25	4151934

Risk Assessment Year 1 MEIR

Scenario	AERMOD DPM Conc.	Chronic Hazard Quotient
Year 1	0.12929	0.025858
Year 2	0.04631	0.009262

Year 1 Dose @ MEIR

Age Group	Cair x	BR	A	EF	CF		Dose
3rd Trimester	0.12929	361	1	0.96	1.00E-06	=	4.48E-05
0-2 Years	0.12929	1090	1	0.96	1.00E-06	=	1.35E-04
2-16 Years	0.12929	572	1	0.96	1.00E-06	=	7.09E-05
16-30 Years	0.12929	261	1	0.96	1.00E-06	=	3.24E-05
30-70 Years	0.12929	233	1	0.96	1.00E-06	=	2.89E-05

Year 1 Excess Risk at MEIR

Age Group	Dose	CPF	ASF	ED	AT	FAH	Conversion	Risk
3rd Trimester	4.48E-05	1.1	10	0.25	70	1	1,000,000	1.8
0-2 Years	1.35E-04	1.1	10	0.75	70	1	1,000,000	15.9

0-2 Years	1.35E-04	1.1	10	1.00	70	1	1,000,000	21.2
2-16 Years	7.09E-05	1.1	3	1.00	70	1	1,000,000	3.3
16-30 Years	3.24E-05	1.1	1	1.00	70	0.73	1,000,000	0.4
30-70 Years	2.89E-05	1.1	1	1.00	70	0.73	1,000,000	0.3

Year 2 Dose @ MEIR

Age Group	Cair x	BR	A	EF	CF		Dose
3rd Trimester	0.04631	361	1	0.96	1.00E-06	=	1.60E-05
0-2 Years	0.04631	1090	1	0.96	1.00E-06	=	4.84E-05
2-16 Years	0.04631	572	1	0.96	1.00E-06	=	2.54E-05
16-30 Years	0.04631	261	1	0.96	1.00E-06	=	1.16E-05
30-70 Years	0.04631	233	1	0.96	1.00E-06	=	1.03E-05

Year 2 Excess Risk at MEIR

Age Group	Dose	CPF	ASF	ED	AT	FAH	Conversion	Risk
3rd Trimester	1.60E-05	1.1	10	0.25	70	1	1,000,000	0.6
0-2 Years	4.84E-05	1.1	10	0.75	70	1	1,000,000	5.7
0-2 Years	4.84E-05	1.1	10	1.00	70	1	1,000,000	7.6
2-16 Years	2.54E-05	1.1	3	1.00	70	1	1,000,000	1.2
16-30 Years	1.16E-05	1.1	1	1.00	70	0.73	1,000,000	0.1
30-70 Years	1.03E-05	1.1	1	1.00	70	0.73	1,000,000	0.1

Total Excess Risk at Year 1 and 2 MEIR

	Infant	Child < 2	Child 2<x<16	Adult 16<x<30	Adult 30<x<70
Year 1	17.7	21.2	3.3	0.4	0.3
Year 2	6.3	7.6	1.2	0.1	0.1
Total	24.0	28.8	4.5	0.5	0.5

Note: Infant exposure includes infant and child (0.75 years exposure) in Year 1

Appendix B4: Construction Health Risk Assessment Calculations (DPM)
405 Industrial Road Project HRA
Mitigated Health Risk Calculations - Residential

METHODOLOGY

Dose (Air) = Cair x DBR x A x EF x CF

Where:
- Cair: Chemical concentration in air (µg/m^3)
- DBR: Daily breathing rate (L/kg-day)
- A: Inhalation adsorption factor (unitless)
- EF: Exposure Frequency, days at home / days in year (unitless)
- CF: 10^{-6} Conversion Factor (m^3/L and mg/µg)

Cancer Risk (per million) = Dose (Air) x CPF x ASF x (ED/AT) x FAH x 1,000,000

Where:
- Dose: Dose of chemical in the air (µg/m3)
- CPF: Cancer Potency Factor $(mg/kg\text{-}day)^{-1}$
- ASF: Age Sensitivity Factor
- ED: Exposure Duration (years)
- AT: Averaging Time for lifetime cancer risks
- FAH: Fraction of daily time spent at home / school

Risk Parameter Values by Age Bin

Variable	Residential Age Bin				
	3rd Trimester	0-2 Years	2-16 Years	16-30 Years	16-70 Years
DBR	361	1090	572	261	233
A	1	1	1	1	1
EF	0.96	0.96	0.96	0.96	0.96
CF	1.00E-06	1.00E-06	1.00E-06	1.00E-06	1.00E-06
CPF	1.1	1.1	1.1	1.1	1.1
ASF	10	10	3	1	1
ED	0.25	2	14	14	54
AT	70	70	70	70	70
FAH	1	1	1	0.73	0.73

AERMOD Modeled DPM Concentrations (PMI/MEIR)

	PMI			MEIR		
	Conc.	X	Y	Conc.	X	Y
Year 1	0.12836	565619.89	4152017.45	0.03251	565524.25	4151934
Year 2	0.0732	565619.89	565619.89	0.01844	565524.25	4151934

Risk Assessment Year 1 MEIR

Scenario	AERMOD DPM Conc.	Chronic Hazard Quotient
Year 1	0.03251	0.006502
Year 2	0.01844	0.003688

Year 1 Dose @ MEIR

Age Group	Cair x	BR	A	EF	CF		Dose
3rd Trimester	0.03251	361	1	0.96	1.00E-06	=	1.13E-05
0-2 Years	0.03251	1090	1	0.96	1.00E-06	=	3.40E-05
2-16 Years	0.03251	572	1	0.96	1.00E-06	=	1.78E-05
16-30 Years	0.03251	261	1	0.96	1.00E-06	=	8.14E-06
30-70 Years	0.03251	233	1	0.96	1.00E-06	=	7.26E-06

Year 1 Excess Risk at MEIR

Age Group	Dose	CPF	ASF	ED	AT	FAH	Conversion	Risk
3rd Trimester	1.13E-05	1.1	10	0.25	70	1	1,000,000	0.4
0-2 Years	3.40E-05	1.1	10	0.75	70	1	1,000,000	4.0

0-2 Years	3.40E-05	1.1	10	1.00	70	1	1,000,000	5.3
2-16 Years	1.78E-05	1.1	3	1.00	70	1	1,000,000	0.8
16-30 Years	8.14E-06	1.1	1	1.00	70	0.73	1,000,000	0.1
30-70 Years	7.26E-06	1.1	1	1.00	70	0.73	1,000,000	0.1

Year 2 Dose @ MEIR

Age Group	Cair x	BR	A	EF	CF		Dose
3rd Trimester	0.01844	361	1	0.96	1.00E-06	=	6.38E-06
0-2 Years	0.01844	1090	1	0.96	1.00E-06	=	1.93E-05
2-16 Years	0.01844	572	1	0.96	1.00E-06	=	1.01E-05
16-30 Years	0.01844	261	1	0.96	1.00E-06	=	4.62E-06
30-70 Years	0.01844	233	1	0.96	1.00E-06	=	4.12E-06

Year 2 Excess Risk at MEIR

Age Group	Dose	CPF	ASF	ED	AT	FAH	Conversion	Risk
3rd Trimester	6.38E-06	1.1	10	0.25	70	1	1,000,000	0.3
0-2 Years	1.93E-05	1.1	10	0.75	70	1	1,000,000	2.3
0-2 Years	1.93E-05	1.1	10	1.00	70	1	1,000,000	3.0
2-16 Years	1.01E-05	1.1	3	1.00	70	1	1,000,000	0.5
16-30 Years	4.62E-06	1.1	1	1.00	70	0.73	1,000,000	0.1
30-70 Years	4.12E-06	1.1	1	1.00	70	0.73	1,000,000	0.0

Total Excess Risk at Year 1 and 2 MEIR

	Infant	Child < 2	Child 2<x<16	Adult 16<x<30	Adult 30<x<70
Year 1	4.4	5.3	0.8	0.1	0.1
Year 2	2.3	3.0	0.5	0.1	0.0
Total	6.7	8.4	1.3	0.1	0.1

Note: Infant exposure includes infant and child (0.75 years exposure) in Year 1

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Appendix B.5: AERMOD Output Files

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** AERMOD Input Produced by:
** AERMOD View Ver. 10.2.1
** Lakes Environmental Software Inc.
** Date: 2/9/2022
** File: C:\Lakes\405IndustrialRd\405IndustrialRd.ADI
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**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
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   MODELOPT DFAULT CONC
   AVERTIME PERIOD
   URBANOPT 767423 San_Mateo_County_Population_2019
   POLLUTID PM_2.5
   FLAGPOLE 1.50
   RUNORNOT RUN
   ERRORFIL 405IndustrialRd.err
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
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** Source ID - Type - X Coord. - Y Coord. **
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2.810
** DESCRSRC ProjectSiteYr1
   LOCATION PAREA2       AREAPOLY   565503.975  4152069.987
2.810
** DESCRSRC ProjectSiteYr2
**
--------------------------------------------------------------------------
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** LINE AREA Source ID = ARLN1
** DESCRSRC DrivewayYr1
** PREFIX
** Length of Side = 15.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 9.5159E-10
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** 565476.180, 4152033.717, 2.80, 4.12
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** End of LINE AREA Source ID = ARLN1
**
------------------------------------------------------------------------
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** LINE AREA Source ID = ARLN2
** DESCRSRC IndustrialRdYr1
** PREFIX
** Length of Side = 18.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 8.5313E-10
** Nodes = 2
** 565461.578, 4152036.244, 2.77, 4.12
** 565589.670, 4151922.042, 3.23, 4.12
**
------------------------------------------------------------------------
   LOCATION A0000002     AREA     565455.589 4152029.526 2.77
** End of LINE AREA Source ID = ARLN2
**
------------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN3
** DESCRSRC HollyStYr1
** PREFIX
** Length of Side = 30.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 5.1209E-10
** Nodes = 2
** 565591.507, 4151930.115, 3.15, 4.12
** 565668.006, 4152040.076, 5.23, 4.12
**
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   LOCATION A0000004     AREA     565603.821 4151921.549 3.35
** End of LINE AREA Source ID = ARLN3
** Source Parameters **
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   AREAVERT PAREA1       565617.780 4152012.998 565621.752 4152031.476
   AREAVERT PAREA1       565609.182 4152066.427 565578.145 4152136.855
   AREAVERT PAREA1       565503.783 4152070.823
   SRCPARAM PAREA2        3.34E-07     5.000         7     0.000
   AREAVERT PAREA2       565503.975 4152069.987 565589.631 4151981.050
   AREAVERT PAREA2       565617.780 4152012.998 565621.752 4152031.476
   AREAVERT PAREA2       565609.182 4152066.427 565578.145 4152136.855
   AREAVERT PAREA2       565503.783 4152070.823
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--------------------------------------------------------------------------
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   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
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   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT PAREA2       HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT PAREA2       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
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   EMISFACT PAREA2       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA2       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA2       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT A0000001     HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
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   EMISFACT A0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT A0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT A0000002     HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT A0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT A0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
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   EMISFACT A0000004     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000004     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000004     HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT A0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT A0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   SRCGROUP YR1_ON   PAREA1
   SRCGROUP YR1_OFF  A0000001 A0000002 A0000004
   SRCGROUP YR2_ON(1 PAREA2
SO FINISHED
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** AERMOD Receptor Pathway
****************************************
**
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RE STARTING
   INCLUDED 405IndustrialRd.rou
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
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   PROFFILE "Met data-San Carlos Airport\724938.PFL"
   SURFDATA 93231 2009
   UAIRDATA 23230 2009 OAKLAND/WSO_AP
   PROFBASE 1.5 METERS
ME FINISHED
**
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** AERMOD Output Pathway
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   PLOTFILE PERIOD YR1_ON 405IndustrialRd.AD\PE00G002.PLT 32
   PLOTFILE PERIOD YR1_OFF 405IndustrialRd.AD\PE00G003.PLT 33
   PLOTFILE PERIOD YR2_ON(1 405IndustrialRd.AD\PE00G004.PLT 34
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OU FINISHED

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 *** AERMOD - VERSION 21112  ***   ***
C:\Lakes\405IndustrialRd\405IndustrialRd.isc
***        02/09/22
 *** AERMET - VERSION  14134 ***   ***
***        08:32:34

PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN

                                                ***     MODEL SETUP OPTIONS
SUMMARY       ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 **Model Is Setup For Calculation of Average CONCentration Values.

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **NO PARTICLE DEPOSITION Data Provided.
 **Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
 **Model Uses NO WET DEPLETION.  WETDPLT  =  F

 **Model Uses URBAN Dispersion Algorithm for the SBL for     5 Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =    767423.0 ;  Urban Roughness Length =  1.000 m

 **Model Uses Regulatory DEFAULT Options:
        1. Stack-tip Downwash.
        2. Model Accounts for ELEVated Terrain Effects.
        3. Use Calms Processing Routine.
        4. Use Missing Data Processing Routine.
        5. No Exponential Decay.
        6. Urban Roughness Length of 1.0 Meter Assumed.

 **Other Options Specified:
        CCVR_Sub - Meteorological data includes CCVR substitutions
        TEMP_Sub - Meteorological data includes TEMP substitutions

 **Model Accepts FLAGPOLE Receptor Heights.

 **The User Specified a Pollutant Type of:  PM_2.5

 **Model Calculates PERIOD Averages Only

 **This Run Includes:      5 Source(s);       4 Source Group(s); and
2555 Receptor(s)

               with:      0 POINT(s), including
                          0 POINTCAP(s) and      0 POINTHOR(s)
                and:      0 VOLUME source(s)
                and:      5 AREA type source(s)
                and:      0 LINE source(s)
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                and:      0 RLINE/RLINEXT source(s)
                and:      0 OPENPIT source(s)
                and:      0 BUOYANT LINE source(s) with a total of     0
line(s)


 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  14134

 **Output Options Selected:
          Model Outputs Tables of PERIOD Averages by Receptor
          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) =     1.50 ;
Decay Coef. =    0.000     ;  Rot. Angle =     0.0
                  Emission Units = GRAMS/SEC
;  Emission Rate Unit Factor =   0.10000E+07
                  Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =      4.0 MB of RAM.

 **Input Runstream File:          aermod.inp
 **Output Print File:             aermod.out

 **Detailed Error/Message File:   405IndustrialRd.err
 **File for Summary of Results:   405IndustrialRd.sum
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** AREA SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	COORD (SW CORNER) X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	X-DIM OF AREA (METERS)	Y-DIM OF AREA (METERS)	ORIENT. OF AREA (DEG.)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
A0000001	0	0.95159E-09	565505.3	4152069.3	2.8	4.12	45.33	15.00	138.72	0.00	YES	HRDOW
A0000002	0	0.85313E-09	565455.6	4152029.5	2.8	4.12	171.61	18.00	41.72	0.00	YES	HRDOW
A0000004	0	0.51209E-09	565603.8	4151921.5	3.3	4.12	133.95	30.00	-55.17	0.00	YES	HRDOW

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** AREAPOLY SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	LOCATION OF AREA X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	NUMBER OF VERTS.	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
PAREA1	0	0.93100E-06	565504.0	4152070.0	2.8	5.00	7	0.00	YES	HRDOW
PAREA2	0	0.33400E-06	565504.0	4152070.0	2.8	5.00	7	0.00	YES	HRDOW

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
YR1_ALL	PAREA1 , A0000001 , A0000002 , A0000004 ,
YR1_ON	PAREA1 ,
YR1_OFF	A0000001 , A0000002 , A0000004 ,
YR2_ON(1	PAREA2 ,

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
	767423.	PAREA1 , PAREA2 , A0000001 , A0000002 , A0000004 ,

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = PAREA1 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.1000E+01	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = PAREA2 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.1000E+01	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000001 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.1000E+01	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000002 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.1000E+01	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000004 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.1000E+01	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565464.2, 4151984.0, 3.0, 144.6, 0.0); (565464.2, 4152009.0, 2.7, 144.6, 0.0);
(565464.2, 4152034.0, 2.8, 144.6, 0.0); (565464.2, 4152059.0, 2.8, 144.6, 0.0);
(565464.2, 4152084.0, 2.9, 144.6, 0.0); (565489.2, 4151984.0, 2.9, 144.6, 0.0);
(565489.2, 4152009.0, 2.9, 144.6, 0.0); (565489.2, 4152034.0, 2.8, 144.6, 0.0);
(565489.2, 4152059.0, 2.9, 144.6, 0.0); (565489.2, 4152084.0, 2.9, 144.6, 0.0);
(565514.2, 4151984.0, 2.9, 144.6, 0.0); (565514.2, 4152009.0, 3.1, 144.6, 0.0);
(565514.2, 4152034.0, 3.1, 144.6, 0.0); (565514.2, 4152059.0, 2.8, 2.8, 0.0);
(565514.2, 4152084.0, 2.9, 2.9, 0.0); (565539.2, 4151984.0, 3.1, 3.1, 0.0);
(565539.2, 4152009.0, 3.2, 3.2, 0.0); (565539.2, 4152034.0, 3.2, 3.2, 0.0);
(565564.2, 4151984.0, 3.1, 3.1, 0.0); (565564.2, 4152009.0, 3.2, 3.2, 0.0);
(565464.2, 4152094.0, 3.0, 144.6, 0.0); (565464.2, 4152104.0, 3.0, 144.6, 0.0);
(565464.2, 4152114.0, 3.1, 144.6, 0.0); (565464.2, 4152124.0, 3.1, 144.6, 0.0);
(565464.2, 4152134.0, 3.1, 144.6, 0.0); (565464.2, 4152144.0, 3.1, 144.6, 0.0);
(565464.2, 4152154.0, 3.1, 144.6, 0.0); (565464.2, 4152164.0, 3.1, 144.6, 0.0);
(565464.2, 4152174.0, 3.2, 3.2, 0.0); (565464.2, 4152184.0, 3.2, 3.2, 0.0);
(565464.2, 4152194.0, 3.3, 3.3, 0.0); (565464.2, 4152204.0, 3.5, 3.5, 0.0);
(565464.2, 4152214.0, 3.6, 3.6, 0.0); (565464.2, 4152224.0, 3.7, 3.7, 0.0);
(565464.2, 4152234.0, 3.7, 3.7, 0.0); (565464.2, 4152244.0, 3.7, 3.7, 0.0);
(565464.2, 4152254.0, 3.6, 3.6, 0.0); (

565464.2, 4152264.0, 3.6, 3.6, 0.0);
(565464.2, 4152274.0, 3.5, 3.5, 0.0); (
565464.2, 4152284.0, 3.5, 3.5, 0.0);
(565474.2, 4152094.0, 2.9, 144.6, 0.0); (
565474.2, 4152104.0, 3.0, 144.6, 0.0);
(565474.2, 4152114.0, 3.0, 144.6, 0.0); (
565474.2, 4152124.0, 3.1, 144.6, 0.0);
(565474.2, 4152134.0, 3.1, 144.6, 0.0); (
565474.2, 4152144.0, 3.2, 144.6, 0.0);
(565474.2, 4152154.0, 3.2, 3.2, 0.0); (
565474.2, 4152164.0, 3.2, 3.2, 0.0);
(565474.2, 4152174.0, 3.2, 3.2, 0.0); (
565474.2, 4152184.0, 3.3, 3.3, 0.0);
(565474.2, 4152194.0, 3.4, 3.4, 0.0); (
565474.2, 4152204.0, 3.5, 3.5, 0.0);
(565474.2, 4152214.0, 3.6, 3.6, 0.0); (
565474.2, 4152224.0, 3.6, 3.6, 0.0);
(565474.2, 4152234.0, 3.6, 3.6, 0.0); (
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(565474.2, 4152254.0, 3.6, 3.6, 0.0); (
565474.2, 4152264.0, 3.6, 3.6, 0.0);
(565474.2, 4152274.0, 3.5, 3.5, 0.0); (
565474.2, 4152284.0, 3.5, 3.5, 0.0);
(565484.2, 4152094.0, 2.9, 144.6, 0.0); (
565484.2, 4152104.0, 3.0, 144.6, 0.0);
(565484.2, 4152114.0, 3.1, 144.6, 0.0); (
565484.2, 4152124.0, 3.2, 3.2, 0.0);
(565484.2, 4152134.0, 3.2, 3.2, 0.0); (
565484.2, 4152144.0, 3.2, 3.2, 0.0);
(565484.2, 4152154.0, 3.2, 3.2, 0.0); (
565484.2, 4152164.0, 3.3, 3.3, 0.0);
(565484.2, 4152174.0, 3.3, 3.3, 0.0); (
565484.2, 4152184.0, 3.4, 3.4, 0.0);
(565484.2, 4152194.0, 3.4, 3.4, 0.0); (
565484.2, 4152204.0, 3.5, 3.5, 0.0);
(565484.2, 4152214.0, 3.6, 3.6, 0.0); (
565484.2, 4152224.0, 3.6, 3.6, 0.0);
(565484.2, 4152234.0, 3.6, 3.6, 0.0); (
565484.2, 4152244.0, 3.5, 3.5, 0.0);
(565484.2, 4152254.0, 3.5, 3.5, 0.0); (
565484.2, 4152264.0, 3.5, 3.5, 0.0);
(565484.2, 4152274.0, 3.5, 3.5, 0.0); (
565484.2, 4152284.0, 3.4, 3.4, 0.0);
(565494.2, 4152094.0, 2.9, 144.6, 0.0); (
565494.2, 4152104.0, 3.3, 3.3, 0.0);
(565494.2, 4152114.0, 3.7, 5.5, 0.0); (
565494.2, 4152124.0, 4.1, 5.5, 0.0);
(565494.2, 4152134.0, 3.9, 3.9, 0.0); (
565494.2, 4152144.0, 3.6, 3.6, 0.0);
(565494.2, 4152154.0, 3.3, 3.3, 0.0); (
565494.2, 4152164.0, 3.3, 3.3, 0.0);
(565494.2, 4152174.0, 3.3, 3.3, 0.0); (

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565494.2, 4152184.0,       3.3,       3.3,       0.0);
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565494.2, 4152194.0, 3.4, 3.4, 0.0); (565494.2, 4152204.0, 3.5, 3.5, 0.0);
(565494.2, 4152214.0, 3.5, 3.5, 0.0); (565494.2, 4152224.0, 3.5, 3.5, 0.0);
(565494.2, 4152234.0, 3.4, 3.4, 0.0); (565494.2, 4152244.0, 3.3, 3.3, 0.0);
(565494.2, 4152254.0, 3.2, 3.2, 0.0); (565494.2, 4152264.0, 3.2, 3.2, 0.0);
(565494.2, 4152274.0, 3.2, 3.2, 0.0); (565494.2, 4152284.0, 3.2, 3.2, 0.0);
(565504.2, 4152094.0, 3.0, 3.0, 0.0); (565504.2, 4152104.0, 3.7, 3.7, 0.0);
(565504.2, 4152114.0, 4.4, 4.4, 0.0); (565504.2, 4152124.0, 5.1, 5.5, 0.0);
(565504.2, 4152134.0, 4.6, 4.6, 0.0); (565504.2, 4152144.0, 3.9, 3.9, 0.0);
(565504.2, 4152154.0, 3.3, 3.3, 0.0); (565504.2, 4152164.0, 3.2, 3.2, 0.0);
(565504.2, 4152174.0, 3.3, 8.8, 0.0); (565504.2, 4152184.0, 3.3, 8.8, 0.0);
(565504.2, 4152194.0, 3.4, 8.8, 0.0); (565504.2, 4152204.0, 3.4, 3.4, 0.0);
(565504.2, 4152214.0, 3.5, 3.5, 0.0); (565504.2, 4152224.0, 3.4, 3.4, 0.0);
(565504.2, 4152234.0, 3.2, 3.2, 0.0); (565504.2, 4152244.0, 3.0, 3.0, 0.0);
(565504.2, 4152254.0, 3.0, 3.0, 0.0); (565504.2, 4152264.0, 3.0, 3.0, 0.0);
(565504.2, 4152274.0, 3.0, 3.0, 0.0); (565504.2, 4152284.0, 3.0, 3.0, 0.0);
(565514.2, 4152094.0, 2.9, 2.9, 0.0); (565514.2, 4152104.0, 3.6, 3.6, 0.0);
(565514.2, 4152114.0, 4.3, 4.3, 0.0); (565514.2, 4152124.0, 5.0, 5.0, 0.0);
(565514.2, 4152134.0, 4.7, 4.7, 0.0); (565514.2, 4152144.0, 4.3, 4.3, 0.0);
(565514.2, 4152154.0, 4.0, 5.8, 0.0); (

```
565514.2, 4152164.0,       3.7,       8.8,       0.0);
     ( 565514.2, 4152174.0,       3.5,       8.8,       0.0);         (
565514.2, 4152184.0,       3.3,       8.8,       0.0);
     ( 565514.2, 4152194.0,       3.3,       8.8,       0.0);         (
565514.2, 4152204.0,       3.3,       8.8,       0.0);
     ( 565514.2, 4152214.0,       3.4,       8.8,       0.0);         (
565514.2, 4152224.0,       3.3,       3.3,       0.0);
     ( 565514.2, 4152234.0,       3.1,       3.1,       0.0);         (
565514.2, 4152244.0,       2.9,       2.9,       0.0);
     ( 565514.2, 4152254.0,       2.9,       2.9,       0.0);         (
565514.2, 4152264.0,       2.9,       2.9,       0.0);
     ( 565514.2, 4152274.0,       2.9,       2.9,       0.0);         (
565514.2, 4152284.0,       3.0,       3.0,       0.0);
     ( 565524.2, 4152094.0,       2.9,       2.9,       0.0);         (
565524.2, 4152104.0,       3.4,       3.4,       0.0);
     ( 565524.2, 4152114.0,       3.9,       3.9,       0.0);         (
565524.2, 4152124.0,       4.4,       4.4,       0.0);
     ( 565524.2, 4152134.0,       4.6,       4.6,       0.0);         (
565524.2, 4152144.0,       4.8,       4.8,       0.0);
     ( 565524.2, 4152154.0,       4.9,       5.8,       0.0);         (
565524.2, 4152164.0,       4.5,       8.8,       0.0);
     ( 565524.2, 4152174.0,       3.9,       8.8,       0.0);         (
565524.2, 4152184.0,       3.3,       8.8,       0.0);
     ( 565524.2, 4152194.0,       3.2,       8.8,       0.0);         (
565524.2, 4152204.0,       3.2,       8.8,       0.0);
     ( 565524.2, 4152214.0,       3.3,       8.8,       0.0);         (
565524.2, 4152224.0,       3.2,       8.8,       0.0);
     ( 565524.2, 4152234.0,       3.1,       3.1,       0.0);         (
565524.2, 4152244.0,       2.9,       2.9,       0.0);
     ( 565524.2, 4152254.0,       2.9,       2.9,       0.0);         (
565524.2, 4152264.0,       2.9,       2.9,       0.0);
     ( 565524.2, 4152274.0,       3.0,       3.0,       0.0);         (
565524.2, 4152284.0,       2.9,       2.9,       0.0);
     ( 565534.2, 4152104.0,       3.2,       3.2,       0.0);         (
565534.2, 4152114.0,       3.5,       3.5,       0.0);
     ( 565534.2, 4152124.0,       3.8,       3.8,       0.0);         (
565534.2, 4152134.0,       4.4,       4.4,       0.0);
     ( 565534.2, 4152144.0,       5.1,       5.1,       0.0);         (
565534.2, 4152154.0,       5.8,       5.8,       0.0);
     ( 565534.2, 4152164.0,       5.3,       8.8,       0.0);         (
565534.2, 4152174.0,       4.6,       8.8,       0.0);
     ( 565534.2, 4152184.0,       3.8,       8.8,       0.0);         (
565534.2, 4152194.0,       3.5,       8.8,       0.0);
     ( 565534.2, 4152204.0,       3.4,       8.8,       0.0);         (
565534.2, 4152214.0,       3.2,       8.8,       0.0);
     ( 565534.2, 4152224.0,       3.1,       8.8,       0.0);         (
565534.2, 4152234.0,       3.0,       8.8,       0.0);
     ( 565534.2, 4152244.0,       2.9,       2.9,       0.0);         (
565534.2, 4152254.0,       2.8,       2.8,       0.0);
     ( 565534.2, 4152264.0,       2.8,       2.8,       0.0);         (
565534.2, 4152274.0,       2.7,       2.7,       0.0);
     ( 565534.2, 4152284.0,       2.7,       2.7,       0.0);         (
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565544.2, 4152114.0,       3.3,       3.3,       0.0);
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565544.2, 4152124.0, 3.4, 3.4, 0.0); (565544.2, 4152134.0, 4.2, 6.8, 0.0);
(565544.2, 4152144.0, 5.2, 5.2, 0.0); (565544.2, 4152154.0, 6.1, 6.1, 0.0);
(565544.2, 4152164.0, 6.2, 6.2, 0.0); (565544.2, 4152174.0, 6.1, 8.8, 0.0);
(565544.2, 4152184.0, 6.0, 8.8, 0.0); (565544.2, 4152194.0, 5.3, 8.8, 0.0);
(565544.2, 4152204.0, 4.4, 8.8, 0.0); (565544.2, 4152214.0, 3.4, 8.8, 0.0);
(565544.2, 4152224.0, 3.0, 8.8, 0.0); (565544.2, 4152234.0, 2.9, 8.8, 0.0);
(565544.2, 4152244.0, 2.8, 8.8, 0.0); (565544.2, 4152254.0, 2.6, 2.6, 0.0);
(565544.2, 4152264.0, 2.3, 2.3, 0.0); (565544.2, 4152274.0, 2.0, 2.0, 0.0);
(565544.2, 4152284.0, 2.1, 2.1, 0.0); (565554.2, 4152124.0, 3.0, 6.8, 0.0);
(565554.2, 4152134.0, 4.1, 6.8, 0.0); (565554.2, 4152144.0, 5.3, 6.8, 0.0);
(565554.2, 4152154.0, 6.5, 6.8, 0.0); (565554.2, 4152164.0, 7.1, 7.1, 0.0);
(565554.2, 4152174.0, 7.6, 7.6, 0.0); (565554.2, 4152184.0, 8.1, 8.8, 0.0);
(565554.2, 4152194.0, 7.1, 8.8, 0.0); (565554.2, 4152204.0, 5.4, 8.8, 0.0);
(565554.2, 4152214.0, 3.6, 8.8, 0.0); (565554.2, 4152224.0, 2.9, 8.8, 0.0);
(565554.2, 4152234.0, 2.8, 8.8, 0.0); (565554.2, 4152244.0, 2.7, 8.8, 0.0);
(565554.2, 4152254.0, 2.4, 2.4, 0.0); (565554.2, 4152264.0, 1.8, 1.8, 0.0);
(565554.2, 4152274.0, 1.3, 4.0, 0.0); (565554.2, 4152284.0, 1.4, 4.0, 0.0);
(565564.2, 4152134.0, 3.6, 6.8, 0.0); (565564.2, 4152144.0, 4.5, 6.8, 0.0);
(565564.2, 4152154.0, 5.3, 8.8, 0.0); (

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565564.2, 4152164.0,       5.8,       8.8,       0.0);
     ( 565564.2, 4152174.0,       6.1,       8.8,       0.0);         (
565564.2, 4152184.0,       6.4,       8.8,       0.0);
     ( 565564.2, 4152194.0,       5.5,       8.8,       0.0);         (
565564.2, 4152204.0,       4.2,       8.8,       0.0);
     ( 565564.2, 4152214.0,       2.8,       8.8,       0.0);         (
565564.2, 4152224.0,       2.4,       8.8,       0.0);
     ( 565564.2, 4152234.0,       2.5,       8.8,       0.0);         (
565564.2, 4152244.0,       2.7,       8.8,       0.0);
     ( 565564.2, 4152254.0,       2.6,       2.6,       0.0);         (
565564.2, 4152264.0,       2.4,       2.4,       0.0);
     ( 565564.2, 4152274.0,       2.1,       4.0,       0.0);         (
565564.2, 4152284.0,       2.2,       4.0,       0.0);
     ( 565574.2, 4152134.0,       3.0,       8.8,       0.0);         (
565574.2, 4152144.0,       3.4,       8.8,       0.0);
     ( 565574.2, 4152154.0,       3.7,       8.8,       0.0);         (
565574.2, 4152164.0,       3.8,       8.8,       0.0);
     ( 565574.2, 4152174.0,       3.8,       8.8,       0.0);         (
565574.2, 4152184.0,       3.7,       8.8,       0.0);
     ( 565574.2, 4152194.0,       3.2,       8.8,       0.0);         (
565574.2, 4152204.0,       2.5,       8.8,       0.0);
     ( 565574.2, 4152214.0,       1.8,       8.8,       0.0);         (
565574.2, 4152224.0,       1.8,       8.8,       0.0);
     ( 565574.2, 4152234.0,       2.2,       8.8,       0.0);         (
565574.2, 4152244.0,       2.7,       8.8,       0.0);
     ( 565574.2, 4152254.0,       2.9,       2.9,       0.0);         (
565574.2, 4152264.0,       3.1,       3.1,       0.0);
     ( 565574.2, 4152274.0,       3.2,       4.0,       0.0);         (
565574.2, 4152284.0,       3.3,       3.3,       0.0);
     ( 565584.2, 4152134.0,       2.6,       8.8,       0.0);         (
565584.2, 4152144.0,       2.7,       8.8,       0.0);
     ( 565584.2, 4152154.0,       2.7,       8.8,       0.0);         (
565584.2, 4152164.0,       2.5,       8.8,       0.0);
     ( 565584.2, 4152174.0,       2.3,       8.8,       0.0);         (
565584.2, 4152184.0,       2.1,       8.8,       0.0);
     ( 565584.2, 4152194.0,       1.9,       8.8,       0.0);         (
565584.2, 4152204.0,       1.6,       8.8,       0.0);
     ( 565584.2, 4152214.0,       1.3,       8.8,       0.0);         (
565584.2, 4152224.0,       1.6,       8.8,       0.0);
     ( 565584.2, 4152234.0,       2.2,       8.8,       0.0);         (
565584.2, 4152244.0,       2.8,       2.8,       0.0);
     ( 565584.2, 4152254.0,       3.2,       3.2,       0.0);         (
565584.2, 4152264.0,       3.5,       3.5,       0.0);
     ( 565584.2, 4152274.0,       3.8,       3.8,       0.0);         (
565584.2, 4152284.0,       3.9,       3.9,       0.0);
     ( 565594.2, 4152104.0,       2.7,       2.7,       0.0);         (
565594.2, 4152114.0,       2.8,       2.8,       0.0);
     ( 565594.2, 4152124.0,       2.8,       2.8,       0.0);         (
565594.2, 4152134.0,       2.8,       2.8,       0.0);
     ( 565594.2, 4152144.0,       2.8,       8.8,       0.0);         (
565594.2, 4152154.0,       2.8,       8.8,       0.0);
     ( 565594.2, 4152164.0,       2.8,       8.8,       0.0);         (
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565594.2, 4152174.0,       2.7,       8.8,       0.0);
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565594.2, 4152184.0, 2.6, 8.8, 0.0); (565594.2, 4152194.0, 2.4, 8.8, 0.0);
(565594.2, 4152204.0, 2.2, 8.8, 0.0); (565594.2, 4152214.0, 2.0, 8.8, 0.0);
(565594.2, 4152224.0, 2.2, 8.8, 0.0); (565594.2, 4152234.0, 2.7, 2.7, 0.0);
(565594.2, 4152244.0, 3.2, 3.2, 0.0); (565594.2, 4152254.0, 3.5, 3.5, 0.0);
(565594.2, 4152264.0, 3.6, 3.6, 0.0); (565594.2, 4152274.0, 3.7, 3.7, 0.0);
(565594.2, 4152284.0, 3.7, 3.7, 0.0); (565604.2, 4152094.0, 2.5, 2.5, 0.0);
(565604.2, 4152104.0, 2.6, 2.6, 0.0); (565604.2, 4152114.0, 2.8, 2.8, 0.0);
(565604.2, 4152124.0, 2.9, 2.9, 0.0); (565604.2, 4152134.0, 2.9, 2.9, 0.0);
(565604.2, 4152144.0, 3.0, 3.0, 0.0); (565604.2, 4152154.0, 3.0, 3.0, 0.0);
(565604.2, 4152164.0, 3.0, 8.8, 0.0); (565604.2, 4152174.0, 3.0, 8.8, 0.0);
(565604.2, 4152184.0, 3.0, 8.8, 0.0); (565604.2, 4152194.0, 2.9, 8.8, 0.0);
(565604.2, 4152204.0, 2.8, 8.8, 0.0); (565604.2, 4152214.0, 2.7, 8.8, 0.0);
(565604.2, 4152224.0, 2.8, 2.8, 0.0); (565604.2, 4152234.0, 3.2, 3.2, 0.0);
(565604.2, 4152244.0, 3.6, 3.6, 0.0); (565604.2, 4152254.0, 3.8, 3.8, 0.0);
(565604.2, 4152264.0, 3.7, 3.7, 0.0); (565604.2, 4152274.0, 3.6, 3.6, 0.0);
(565604.2, 4152284.0, 3.5, 3.5, 0.0); (565614.2, 4152094.0, 3.0, 3.0, 0.0);
(565614.2, 4152104.0, 2.9, 2.9, 0.0); (565614.2, 4152114.0, 2.8, 2.8, 0.0);
(565614.2, 4152124.0, 2.7, 2.7, 0.0); (565614.2, 4152134.0, 2.8, 2.8, 0.0);
(565614.2, 4152144.0, 2.9, 2.9, 0.0); (

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565614.2, 4152154.0,       3.0,       3.0,       0.0);
     ( 565614.2, 4152164.0,       2.9,       2.9,       0.0);         (
565614.2, 4152174.0,       2.8,       8.8,       0.0);
     ( 565614.2, 4152184.0,       2.6,       8.8,       0.0);         (
565614.2, 4152194.0,       2.7,       8.8,       0.0);
     ( 565614.2, 4152204.0,       2.8,       2.8,       0.0);         (
565614.2, 4152214.0,       2.9,       2.9,       0.0);
     ( 565614.2, 4152224.0,       3.1,       3.1,       0.0);         (
565614.2, 4152234.0,       3.3,       3.3,       0.0);
     ( 565614.2, 4152244.0,       3.6,       3.6,       0.0);         (
565614.2, 4152254.0,       3.7,       3.7,       0.0);
     ( 565614.2, 4152264.0,       3.6,       3.6,       0.0);         (
565614.2, 4152274.0,       3.6,       3.6,       0.0);
     ( 565614.2, 4152284.0,       3.6,       3.6,       0.0);         (
565624.2, 4152094.0,       3.6,       3.6,       0.0);
     ( 565624.2, 4152104.0,       3.2,       3.2,       0.0);         (
565624.2, 4152114.0,       2.8,       2.8,       0.0);
     ( 565624.2, 4152124.0,       2.4,       2.4,       0.0);         (
565624.2, 4152134.0,       2.5,       2.5,       0.0);
     ( 565624.2, 4152144.0,       2.8,       2.8,       0.0);         (
565624.2, 4152154.0,       3.0,       3.0,       0.0);
     ( 565624.2, 4152164.0,       2.9,       2.9,       0.0);         (
565624.2, 4152174.0,       2.5,       2.5,       0.0);
     ( 565624.2, 4152184.0,       2.2,       2.2,       0.0);         (
565624.2, 4152194.0,       2.3,       2.3,       0.0);
     ( 565624.2, 4152204.0,       2.7,       2.7,       0.0);         (
565624.2, 4152214.0,       3.0,       3.0,       0.0);
     ( 565624.2, 4152224.0,       3.2,       3.2,       0.0);         (
565624.2, 4152234.0,       3.4,       3.4,       0.0);
     ( 565624.2, 4152244.0,       3.5,       3.5,       0.0);         (
565624.2, 4152254.0,       3.6,       3.6,       0.0);
     ( 565624.2, 4152264.0,       3.6,       3.6,       0.0);         (
565624.2, 4152274.0,       3.6,       3.6,       0.0);
     ( 565624.2, 4152284.0,       3.6,       3.6,       0.0);         (
565634.2, 4152094.0,       4.1,       4.1,       0.0);
     ( 565634.2, 4152104.0,       3.5,       3.5,       0.0);         (
565634.2, 4152114.0,       2.8,       2.8,       0.0);
     ( 565634.2, 4152124.0,       2.2,       2.2,       0.0);         (
565634.2, 4152134.0,       2.3,       2.3,       0.0);
     ( 565634.2, 4152144.0,       2.6,       2.6,       0.0);         (
565634.2, 4152154.0,       2.9,       2.9,       0.0);
     ( 565634.2, 4152164.0,       2.8,       2.8,       0.0);         (
565634.2, 4152174.0,       2.4,       2.4,       0.0);
     ( 565634.2, 4152184.0,       2.1,       2.1,       0.0);         (
565634.2, 4152194.0,       2.3,       2.3,       0.0);
     ( 565634.2, 4152204.0,       2.7,       2.7,       0.0);         (
565634.2, 4152214.0,       3.2,       3.2,       0.0);
     ( 565634.2, 4152224.0,       3.4,       3.4,       0.0);         (
565634.2, 4152234.0,       3.4,       3.4,       0.0);
     ( 565634.2, 4152244.0,       3.5,       3.5,       0.0);         (
565634.2, 4152254.0,       3.5,       3.5,       0.0);
     ( 565634.2, 4152264.0,       3.6,       3.6,       0.0);         (
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565634.2, 4152274.0,       3.6,       3.6,       0.0);
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565634.2, 4152284.0, 3.7, 3.7, 0.0); (565644.2, 4152094.0, 4.2, 4.2, 0.0);
(565644.2, 4152104.0, 3.6, 7.3, 0.0); (565644.2, 4152114.0, 2.9, 7.3, 0.0);
(565644.2, 4152124.0, 2.3, 7.3, 0.0); (565644.2, 4152134.0, 2.3, 2.3, 0.0);
(565644.2, 4152144.0, 2.5, 2.5, 0.0); (565644.2, 4152154.0, 2.6, 2.6, 0.0);
(565644.2, 4152164.0, 2.6, 2.6, 0.0); (565644.2, 4152174.0, 2.5, 2.5, 0.0);
(565644.2, 4152184.0, 2.4, 2.4, 0.0); (565644.2, 4152194.0, 2.6, 2.6, 0.0);
(565644.2, 4152204.0, 3.0, 3.0, 0.0); (565644.2, 4152214.0, 3.3, 3.3, 0.0);
(565644.2, 4152224.0, 3.4, 3.4, 0.0); (565644.2, 4152234.0, 3.5, 3.5, 0.0);
(565644.2, 4152244.0, 3.5, 3.5, 0.0); (565644.2, 4152254.0, 3.6, 3.6, 0.0);
(565644.2, 4152264.0, 3.6, 3.6, 0.0); (565644.2, 4152274.0, 3.7, 3.7, 0.0);
(565644.2, 4152284.0, 3.7, 3.7, 0.0); (565654.2, 4152094.0, 4.4, 7.3, 0.0);
(565654.2, 4152104.0, 3.7, 7.3, 0.0); (565654.2, 4152114.0, 3.0, 8.7, 0.0);
(565654.2, 4152124.0, 2.3, 8.7, 0.0); (565654.2, 4152134.0, 2.2, 8.7, 0.0);
(565654.2, 4152144.0, 2.3, 2.3, 0.0); (565654.2, 4152154.0, 2.4, 2.4, 0.0);
(565654.2, 4152164.0, 2.5, 2.5, 0.0); (565654.2, 4152174.0, 2.6, 2.6, 0.0);
(565654.2, 4152184.0, 2.8, 2.8, 0.0); (565654.2, 4152194.0, 3.0, 3.0, 0.0);
(565654.2, 4152204.0, 3.2, 3.2, 0.0); (565654.2, 4152214.0, 3.4, 3.4, 0.0);
(565654.2, 4152224.0, 3.5, 3.5, 0.0); (565654.2, 4152234.0, 3.5, 3.5, 0.0);
(565654.2, 4152244.0, 3.6, 3.6, 0.0); (

565654.2, 4152254.0, 3.6, 3.6, 0.0);
     (565654.2, 4152264.0, 3.7, 3.7, 0.0); (
565654.2, 4152274.0, 3.7, 3.7, 0.0);
     (565654.2, 4152284.0, 3.7, 3.7, 0.0); (
565664.2, 4152094.0, 5.5, 7.3, 0.0);
     (565664.2, 4152104.0, 4.6, 7.3, 0.0); (
565664.2, 4152114.0, 3.7, 8.7, 0.0);
     (565664.2, 4152124.0, 2.7, 8.7, 0.0); (
565664.2, 4152134.0, 2.5, 8.7, 0.0);
     (565664.2, 4152144.0, 2.6, 2.6, 0.0); (
565664.2, 4152154.0, 2.6, 2.6, 0.0);
     (565664.2, 4152164.0, 2.7, 2.7, 0.0); (
565664.2, 4152174.0, 2.9, 2.9, 0.0);
     (565664.2, 4152184.0, 3.1, 3.1, 0.0); (
565664.2, 4152194.0, 3.2, 3.2, 0.0);
     (565664.2, 4152204.0, 3.3, 3.3, 0.0); (
565664.2, 4152214.0, 3.5, 3.5, 0.0);
     (565664.2, 4152224.0, 3.6, 3.6, 0.0); (
565664.2, 4152234.0, 3.6, 3.6, 0.0);
     (565664.2, 4152244.0, 3.6, 3.6, 0.0); (
565664.2, 4152254.0, 3.4, 3.4, 0.0);
     (565664.2, 4152264.0, 3.2, 3.2, 0.0); (
565664.2, 4152274.0, 2.9, 2.9, 0.0);
     (565664.2, 4152284.0, 2.8, 2.8, 0.0); (
565674.2, 4152094.0, 6.6, 7.3, 0.0);
     (565674.2, 4152104.0, 5.6, 7.3, 0.0); (
565674.2, 4152114.0, 4.4, 8.7, 0.0);
     (565674.2, 4152124.0, 3.2, 8.7, 0.0); (
565674.2, 4152134.0, 2.9, 8.7, 0.0);
     (565674.2, 4152144.0, 2.9, 8.7, 0.0); (
565674.2, 4152154.0, 2.9, 2.9, 0.0);
     (565674.2, 4152164.0, 3.0, 3.0, 0.0); (
565674.2, 4152174.0, 3.1, 3.1, 0.0);
     (565674.2, 4152184.0, 3.3, 3.3, 0.0); (
565674.2, 4152194.0, 3.4, 3.4, 0.0);
     (565674.2, 4152204.0, 3.5, 3.5, 0.0); (
565674.2, 4152214.0, 3.6, 3.6, 0.0);
     (565674.2, 4152224.0, 3.6, 3.6, 0.0); (
565674.2, 4152234.0, 3.6, 3.6, 0.0);
     (565674.2, 4152244.0, 3.6, 3.6, 0.0); (
565674.2, 4152254.0, 3.3, 3.3, 0.0);
     (565674.2, 4152264.0, 2.7, 2.7, 0.0); (
565674.2, 4152274.0, 2.1, 2.1, 0.0);
     (565674.2, 4152284.0, 1.8, 1.8, 0.0); (
565684.2, 4152094.0, 7.5, 7.5, 0.0);
     (565684.2, 4152104.0, 6.5, 8.7, 0.0); (
565684.2, 4152114.0, 5.2, 8.7, 0.0);
     (565684.2, 4152124.0, 3.9, 8.7, 0.0); (
565684.2, 4152134.0, 3.5, 8.7, 0.0);
     (565684.2, 4152144.0, 3.3, 8.7, 0.0); (
565684.2, 4152154.0, 3.2, 3.2, 0.0);
     (565684.2, 4152164.0, 3.2, 3.2, 0.0); (

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565684.2, 4152174.0,       3.3,       3.3,       0.0);
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565684.2, 4152184.0, 3.5, 3.5, 0.0); (565684.2, 4152194.0, 3.5, 3.5, 0.0);
(565684.2, 4152204.0, 3.6, 3.6, 0.0); (565684.2, 4152214.0, 3.6, 3.6, 0.0);
(565684.2, 4152224.0, 3.6, 3.6, 0.0); (565684.2, 4152234.0, 3.5, 3.5, 0.0);
(565684.2, 4152244.0, 3.4, 3.4, 0.0); (565684.2, 4152254.0, 3.1, 3.1, 0.0);
(565684.2, 4152264.0, 2.6, 2.6, 0.0); (565684.2, 4152274.0, 2.1, 2.1, 0.0);
(565684.2, 4152284.0, 1.9, 1.9, 0.0); (565694.2, 4152094.0, 8.1, 8.1, 0.0);
(565694.2, 4152104.0, 7.2, 8.7, 0.0); (565694.2, 4152114.0, 6.1, 8.7, 0.0);
(565694.2, 4152124.0, 5.1, 8.7, 0.0); (565694.2, 4152134.0, 4.4, 8.7, 0.0);
(565694.2, 4152144.0, 3.9, 3.9, 0.0); (565694.2, 4152154.0, 3.4, 3.4, 0.0);
(565694.2, 4152164.0, 3.3, 3.3, 0.0); (565694.2, 4152174.0, 3.5, 3.5, 0.0);
(565694.2, 4152184.0, 3.6, 3.6, 0.0); (565694.2, 4152194.0, 3.6, 3.6, 0.0);
(565694.2, 4152204.0, 3.6, 3.6, 0.0); (565694.2, 4152214.0, 3.5, 3.5, 0.0);
(565694.2, 4152224.0, 3.5, 3.5, 0.0); (565694.2, 4152234.0, 3.3, 3.3, 0.0);
(565694.2, 4152244.0, 3.2, 3.2, 0.0); (565694.2, 4152254.0, 3.0, 3.0, 0.0);
(565694.2, 4152264.0, 2.8, 2.8, 0.0); (565694.2, 4152274.0, 2.6, 2.6, 0.0);
(565694.2, 4152284.0, 2.5, 2.5, 0.0); (565704.2, 4152094.0, 8.6, 8.6, 0.0);
(565704.2, 4152104.0, 7.9, 7.9, 0.0); (565704.2, 4152114.0, 7.0, 7.0, 0.0);
(565704.2, 4152124.0, 6.1, 6.1, 0.0); (565704.2, 4152134.0, 5.3, 5.3, 0.0);
(565704.2, 4152144.0, 4.5, 4.5, 0.0); (

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565704.2, 4152154.0,       3.7,       3.7,       0.0);
     ( 565704.2, 4152164.0,       3.5,       3.5,       0.0);         (
565704.2, 4152174.0,       3.6,       3.6,       0.0);
     ( 565704.2, 4152184.0,       3.7,       3.7,       0.0);         (
565704.2, 4152194.0,       3.6,       3.6,       0.0);
     ( 565704.2, 4152204.0,       3.6,       3.6,       0.0);         (
565704.2, 4152214.0,       3.5,       3.5,       0.0);
     ( 565704.2, 4152224.0,       3.3,       3.3,       0.0);         (
565704.2, 4152234.0,       3.1,       3.1,       0.0);
     ( 565704.2, 4152244.0,       2.9,       2.9,       0.0);         (
565704.2, 4152254.0,       2.8,       2.8,       0.0);
     ( 565704.2, 4152264.0,       2.9,       2.9,       0.0);         (
565704.2, 4152274.0,       3.0,       3.0,       0.0);
     ( 565704.2, 4152284.0,       3.0,       3.0,       0.0);         (
565714.2, 4152094.0,       7.7,       8.7,       0.0);
     ( 565714.2, 4152104.0,       7.0,       8.7,       0.0);         (
565714.2, 4152114.0,       6.1,       8.7,       0.0);
     ( 565714.2, 4152124.0,       5.2,       8.7,       0.0);         (
565714.2, 4152134.0,       4.7,       8.7,       0.0);
     ( 565714.2, 4152144.0,       4.2,       4.2,       0.0);         (
565714.2, 4152154.0,       3.7,       3.7,       0.0);
     ( 565714.2, 4152164.0,       3.6,       3.6,       0.0);         (
565714.2, 4152174.0,       3.6,       3.6,       0.0);
     ( 565714.2, 4152184.0,       3.6,       3.6,       0.0);         (
565714.2, 4152194.0,       3.5,       3.5,       0.0);
     ( 565714.2, 4152204.0,       3.4,       3.4,       0.0);         (
565714.2, 4152214.0,       3.2,       3.2,       0.0);
     ( 565714.2, 4152224.0,       3.0,       3.0,       0.0);         (
565714.2, 4152234.0,       2.8,       2.8,       0.0);
     ( 565714.2, 4152244.0,       2.5,       2.5,       0.0);         (
565714.2, 4152254.0,       2.4,       2.4,       0.0);
     ( 565714.2, 4152264.0,       2.6,       2.6,       0.0);         (
565714.2, 4152274.0,       2.7,       2.7,       0.0);
     ( 565714.2, 4152284.0,       2.8,       2.8,       0.0);         (
565724.2, 4152094.0,       6.7,       6.7,       0.0);
     ( 565724.2, 4152104.0,       6.1,       8.7,       0.0);         (
565724.2, 4152114.0,       5.3,       8.7,       0.0);
     ( 565724.2, 4152124.0,       4.4,       8.7,       0.0);         (
565724.2, 4152134.0,       4.0,       8.7,       0.0);
     ( 565724.2, 4152144.0,       3.9,       3.9,       0.0);         (
565724.2, 4152154.0,       3.8,       3.8,       0.0);
     ( 565724.2, 4152164.0,       3.7,       3.7,       0.0);         (
565724.2, 4152174.0,       3.6,       3.6,       0.0);
     ( 565724.2, 4152184.0,       3.5,       3.5,       0.0);         (
565724.2, 4152194.0,       3.4,       3.4,       0.0);
     ( 565724.2, 4152204.0,       3.1,       3.1,       0.0);         (
565724.2, 4152214.0,       2.9,       2.9,       0.0);
     ( 565724.2, 4152224.0,       2.7,       2.7,       0.0);         (
565724.2, 4152234.0,       2.4,       2.4,       0.0);
     ( 565724.2, 4152244.0,       2.1,       2.1,       0.0);         (
565724.2, 4152254.0,       2.0,       2.0,       0.0);
     ( 565724.2, 4152264.0,       2.2,       2.2,       0.0);         (
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565724.2, 4152274.0,       2.4,       2.4,       0.0);
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565724.2, 4152284.0, 2.6, 2.6, 0.0); (565734.2, 4152094.0, 5.6, 8.7, 0.0);
(565734.2, 4152104.0, 5.2, 8.7, 0.0); (565734.2, 4152114.0, 4.6, 8.7, 0.0);
(565734.2, 4152124.0, 3.9, 8.7, 0.0); (565734.2, 4152134.0, 3.7, 8.7, 0.0);
(565734.2, 4152144.0, 3.7, 3.7, 0.0); (565734.2, 4152154.0, 3.7, 3.7, 0.0);
(565734.2, 4152164.0, 3.8, 3.8, 0.0); (565734.2, 4152174.0, 3.8, 8.6, 0.0);
(565734.2, 4152184.0, 3.9, 8.6, 0.0); (565734.2, 4152194.0, 3.7, 8.6, 0.0);
(565734.2, 4152204.0, 3.5, 8.6, 0.0); (565734.2, 4152214.0, 3.2, 8.6, 0.0);
(565734.2, 4152224.0, 2.9, 8.6, 0.0); (565734.2, 4152234.0, 2.5, 7.3, 0.0);
(565734.2, 4152244.0, 2.2, 7.3, 0.0); (565734.2, 4152254.0, 2.0, 2.0, 0.0);
(565734.2, 4152264.0, 2.2, 2.2, 0.0); (565734.2, 4152274.0, 2.4, 2.4, 0.0);
(565734.2, 4152284.0, 2.6, 2.6, 0.0); (565744.2, 4152094.0, 4.5, 8.7, 0.0);
(565744.2, 4152104.0, 4.3, 8.7, 0.0); (565744.2, 4152114.0, 4.1, 8.7, 0.0);
(565744.2, 4152124.0, 3.8, 8.7, 0.0); (565744.2, 4152134.0, 3.7, 3.7, 0.0);
(565744.2, 4152144.0, 3.7, 3.7, 0.0); (565744.2, 4152154.0, 3.6, 8.6, 0.0);
(565744.2, 4152164.0, 3.8, 8.6, 0.0); (565744.2, 4152174.0, 4.1, 8.6, 0.0);
(565744.2, 4152184.0, 4.5, 8.6, 0.0); (565744.2, 4152194.0, 4.4, 8.6, 0.0);
(565744.2, 4152204.0, 4.1, 8.6, 0.0); (565744.2, 4152214.0, 3.7, 8.6, 0.0);
(565744.2, 4152224.0, 3.3, 8.6, 0.0); (565744.2, 4152234.0, 2.9, 8.6, 0.0);
(565744.2, 4152244.0, 2.5, 7.3, 0.0); (

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565744.2, 4152254.0,       2.3,       7.3,       0.0);
     ( 565744.2, 4152264.0,       2.5,       2.5,       0.0);         (
565744.2, 4152274.0,       2.6,       2.6,       0.0);
     ( 565744.2, 4152284.0,       2.7,       2.7,       0.0);         (
565754.2, 4152094.0,       3.4,       8.7,       0.0);
     ( 565754.2, 4152104.0,       3.5,       8.7,       0.0);         (
565754.2, 4152114.0,       3.6,       3.6,       0.0);
     ( 565754.2, 4152124.0,       3.7,       3.7,       0.0);         (
565754.2, 4152134.0,       3.6,       3.6,       0.0);
     ( 565754.2, 4152144.0,       3.6,       3.6,       0.0);         (
565754.2, 4152154.0,       3.6,       8.6,       0.0);
     ( 565754.2, 4152164.0,       3.9,       8.6,       0.0);         (
565754.2, 4152174.0,       4.6,       8.6,       0.0);
     ( 565754.2, 4152184.0,       5.2,       8.6,       0.0);         (
565754.2, 4152194.0,       5.2,       8.6,       0.0);
     ( 565754.2, 4152204.0,       4.8,       8.6,       0.0);         (
565754.2, 4152214.0,       4.4,       8.6,       0.0);
     ( 565754.2, 4152224.0,       4.0,       8.6,       0.0);         (
565754.2, 4152234.0,       3.5,       7.3,       0.0);
     ( 565754.2, 4152244.0,       3.0,       7.3,       0.0);         (
565754.2, 4152254.0,       2.7,       7.3,       0.0);
     ( 565754.2, 4152264.0,       2.8,       2.8,       0.0);         (
565754.2, 4152274.0,       2.9,       2.9,       0.0);
     ( 565754.2, 4152284.0,       3.0,       3.0,       0.0);         (
565764.2, 4152094.0,       3.5,       3.5,       0.0);
     ( 565764.2, 4152104.0,       3.6,       3.6,       0.0);         (
565764.2, 4152114.0,       3.6,       3.6,       0.0);
     ( 565764.2, 4152124.0,       3.6,       3.6,       0.0);         (
565764.2, 4152134.0,       3.7,       3.7,       0.0);
     ( 565764.2, 4152144.0,       3.7,       8.6,       0.0);         (
565764.2, 4152154.0,       3.8,       8.6,       0.0);
     ( 565764.2, 4152164.0,       4.4,       8.6,       0.0);         (
565764.2, 4152174.0,       5.4,       8.6,       0.0);
     ( 565764.2, 4152184.0,       6.4,       8.6,       0.0);         (
565764.2, 4152194.0,       6.6,       8.6,       0.0);
     ( 565764.2, 4152204.0,       6.2,       8.6,       0.0);         (
565764.2, 4152214.0,       5.8,       7.3,       0.0);
     ( 565764.2, 4152224.0,       5.3,       7.3,       0.0);         (
565764.2, 4152234.0,       4.7,       7.3,       0.0);
     ( 565764.2, 4152244.0,       4.1,       7.3,       0.0);         (
565764.2, 4152254.0,       3.7,       3.7,       0.0);
     ( 565764.2, 4152264.0,       3.7,       3.7,       0.0);         (
565764.2, 4152274.0,       3.7,       3.7,       0.0);
     ( 565764.2, 4152284.0,       3.6,       3.6,       0.0);         (
565574.2, 4151994.0,       3.2,       3.2,       0.0);
     ( 565574.2, 4151984.0,       3.2,       3.2,       0.0);         (
565574.2, 4151974.0,       3.3,       3.3,       0.0);
     ( 565574.2, 4151964.0,       3.2,       3.2,       0.0);         (
565574.2, 4151954.0,       3.0,       3.0,       0.0);
     ( 565574.2, 4151944.0,       2.9,       2.9,       0.0);         (
565574.2, 4151934.0,       2.9,       2.9,       0.0);
     ( 565574.2, 4151924.0,       2.9,       2.9,       0.0);         (
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565574.2, 4151914.0,       3.0,       3.0,       0.0);
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565574.2, 4151904.0, 3.1, 3.1, 0.0); (565574.2, 4151894.0, 3.2, 3.2, 0.0);
(565574.2, 4151884.0, 3.3, 3.3, 0.0); (565574.2, 4151874.0, 3.4, 3.4, 0.0);
(565574.2, 4151864.0, 3.4, 3.4, 0.0); (565574.2, 4151854.0, 3.4, 3.4, 0.0);
(565574.2, 4151844.0, 3.5, 3.5, 0.0); (565574.2, 4151834.0, 3.5, 3.5, 0.0);
(565574.2, 4151824.0, 3.6, 3.6, 0.0); (565574.2, 4151814.0, 3.6, 3.6, 0.0);
(565574.2, 4151804.0, 3.6, 3.6, 0.0); (565574.2, 4151794.0, 3.6, 3.6, 0.0);
(565574.2, 4151784.0, 3.6, 3.6, 0.0); (565584.2, 4151984.0, 3.3, 3.3, 0.0);
(565584.2, 4151974.0, 3.5, 3.5, 0.0); (565584.2, 4151964.0, 3.4, 3.4, 0.0);
(565584.2, 4151954.0, 3.2, 3.2, 0.0); (565584.2, 4151944.0, 3.0, 3.0, 0.0);
(565584.2, 4151934.0, 3.0, 3.0, 0.0); (565584.2, 4151924.0, 3.0, 3.0, 0.0);
(565584.2, 4151914.0, 3.1, 3.1, 0.0); (565584.2, 4151904.0, 3.2, 3.2, 0.0);
(565584.2, 4151894.0, 3.3, 3.3, 0.0); (565584.2, 4151884.0, 3.4, 3.4, 0.0);
(565584.2, 4151874.0, 3.5, 3.5, 0.0); (565584.2, 4151864.0, 3.5, 3.5, 0.0);
(565584.2, 4151854.0, 3.6, 3.6, 0.0); (565584.2, 4151844.0, 3.6, 3.6, 0.0);
(565584.2, 4151834.0, 3.5, 3.5, 0.0); (565584.2, 4151824.0, 3.5, 3.5, 0.0);
(565584.2, 4151814.0, 3.5, 3.5, 0.0); (565584.2, 4151804.0, 3.6, 3.6, 0.0);
(565584.2, 4151794.0, 3.6, 3.6, 0.0); (565584.2, 4151784.0, 3.7, 3.7, 0.0);
(565594.2, 4151984.0, 3.2, 3.2, 0.0); (565594.2, 4151974.0, 3.4, 3.4, 0.0);
(565594.2, 4151964.0, 3.4, 3.4, 0.0); (

```
565594.2, 4151954.0,       3.3,       3.3,       0.0);
     ( 565594.2, 4151944.0,       3.2,       3.2,       0.0);         (
565594.2, 4151934.0,       3.2,       3.2,       0.0);
     ( 565594.2, 4151924.0,       3.2,       3.2,       0.0);         (
565594.2, 4151914.0,       3.2,       3.2,       0.0);
     ( 565594.2, 4151904.0,       3.2,       3.2,       0.0);         (
565594.2, 4151894.0,       3.3,       3.3,       0.0);
     ( 565594.2, 4151884.0,       3.3,       3.3,       0.0);         (
565594.2, 4151874.0,       3.4,       3.4,       0.0);
     ( 565594.2, 4151864.0,       3.4,       3.4,       0.0);         (
565594.2, 4151854.0,       3.5,       3.5,       0.0);
     ( 565594.2, 4151844.0,       3.5,       3.5,       0.0);         (
565594.2, 4151834.0,       3.5,       3.5,       0.0);
     ( 565594.2, 4151824.0,       3.4,       3.4,       0.0);         (
565594.2, 4151814.0,       3.4,       3.4,       0.0);
     ( 565594.2, 4151804.0,       3.6,       3.6,       0.0);         (
565594.2, 4151794.0,       3.7,       3.7,       0.0);
     ( 565594.2, 4151784.0,       3.9,       3.9,       0.0);         (
565604.2, 4152084.0,       2.5,       2.5,       0.0);
     ( 565604.2, 4151994.0,       2.9,       2.9,       0.0);         (
565604.2, 4151984.0,       3.1,       3.1,       0.0);
     ( 565604.2, 4151974.0,       3.3,       3.3,       0.0);         (
565604.2, 4151964.0,       3.3,       3.3,       0.0);
     ( 565604.2, 4151954.0,       3.4,       3.4,       0.0);         (
565604.2, 4151944.0,       3.4,       3.4,       0.0);
     ( 565604.2, 4151934.0,       3.4,       3.4,       0.0);         (
565604.2, 4151924.0,       3.4,       3.4,       0.0);
     ( 565604.2, 4151914.0,       3.3,       3.3,       0.0);         (
565604.2, 4151904.0,       3.3,       3.3,       0.0);
     ( 565604.2, 4151894.0,       3.2,       3.2,       0.0);         (
565604.2, 4151884.0,       3.2,       3.2,       0.0);
     ( 565604.2, 4151874.0,       3.2,       3.2,       0.0);         (
565604.2, 4151864.0,       3.3,       3.3,       0.0);
     ( 565604.2, 4151854.0,       3.4,       3.4,       0.0);         (
565604.2, 4151844.0,       3.5,       3.5,       0.0);
     ( 565604.2, 4151834.0,       3.4,       3.4,       0.0);         (
565604.2, 4151824.0,       3.3,       3.3,       0.0);
     ( 565604.2, 4151814.0,       3.3,       3.3,       0.0);         (
565604.2, 4151804.0,       3.6,       3.6,       0.0);
     ( 565604.2, 4151794.0,       3.8,       3.8,       0.0);         (
565604.2, 4151784.0,       4.0,       4.0,       0.0);
     ( 565614.2, 4152084.0,       3.0,       3.0,       0.0);         (
565614.2, 4152074.0,       3.0,       3.0,       0.0);
     ( 565614.2, 4152064.0,       2.9,       2.9,       0.0);         (
565614.2, 4152004.0,       3.0,       3.0,       0.0);
     ( 565614.2, 4151994.0,       3.1,       3.1,       0.0);         (
565614.2, 4151984.0,       3.3,       3.3,       0.0);
     ( 565614.2, 4151974.0,       3.4,       3.4,       0.0);         (
565614.2, 4151964.0,       3.4,       3.4,       0.0);
     ( 565614.2, 4151954.0,       3.4,       3.4,       0.0);         (
565614.2, 4151944.0,       3.4,       3.4,       0.0);
     ( 565614.2, 4151934.0,       3.4,       3.4,       0.0);         (
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565614.2, 4151924.0,       3.3,       3.3,       0.0);
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565614.2, 4151914.0, 3.2, 3.2, 0.0); (565614.2, 4151904.0, 3.2, 3.2, 0.0);
(565614.2, 4151894.0, 3.1, 3.1, 0.0); (565614.2, 4151884.0, 3.0, 3.0, 0.0);
(565614.2, 4151874.0, 3.0, 3.0, 0.0); (565614.2, 4151864.0, 3.1, 3.1, 0.0);
(565614.2, 4151854.0, 3.3, 3.3, 0.0); (565614.2, 4151844.0, 3.3, 3.3, 0.0);
(565614.2, 4151834.0, 3.3, 3.3, 0.0); (565614.2, 4151824.0, 3.3, 3.3, 0.0);
(565614.2, 4151814.0, 3.4, 3.4, 0.0); (565614.2, 4151804.0, 3.6, 3.6, 0.0);
(565614.2, 4151794.0, 3.8, 3.8, 0.0); (565614.2, 4151784.0, 4.0, 4.0, 0.0);
(565624.2, 4152084.0, 3.6, 3.6, 0.0); (565624.2, 4152074.0, 3.6, 3.6, 0.0);
(565624.2, 4152064.0, 3.5, 3.5, 0.0); (565624.2, 4152054.0, 3.3, 3.3, 0.0);
(565624.2, 4152044.0, 3.0, 3.0, 0.0); (565624.2, 4152034.0, 2.8, 2.8, 0.0);
(565624.2, 4152024.0, 3.0, 3.0, 0.0); (565624.2, 4152014.0, 3.2, 3.2, 0.0);
(565624.2, 4152004.0, 3.4, 3.4, 0.0); (565624.2, 4151994.0, 3.5, 3.5, 0.0);
(565624.2, 4151984.0, 3.6, 3.6, 0.0); (565624.2, 4151974.0, 3.7, 3.7, 0.0);
(565624.2, 4151964.0, 3.6, 3.6, 0.0); (565624.2, 4151954.0, 3.4, 3.4, 0.0);
(565624.2, 4151944.0, 3.3, 3.3, 0.0); (565624.2, 4151934.0, 3.2, 3.2, 0.0);
(565624.2, 4151924.0, 3.1, 3.1, 0.0); (565624.2, 4151914.0, 3.1, 3.1, 0.0);
(565624.2, 4151904.0, 3.0, 3.0, 0.0); (565624.2, 4151894.0, 2.9, 2.9, 0.0);
(565624.2, 4151884.0, 2.8, 2.8, 0.0); (565624.2, 4151874.0, 2.9, 2.9, 0.0);
(565624.2, 4151864.0, 2.9, 2.9, 0.0); (

565624.2, 4151854.0, 3.0, 3.0, 0.0);
     (565624.2, 4151844.0, 3.1, 3.1, 0.0); (
565624.2, 4151834.0, 3.3, 3.3, 0.0);
     (565624.2, 4151824.0, 3.4, 3.4, 0.0); (
565624.2, 4151814.0, 3.6, 3.6, 0.0);
     (565624.2, 4151804.0, 3.7, 3.7, 0.0); (
565624.2, 4151794.0, 3.8, 3.8, 0.0);
     (565624.2, 4151784.0, 3.9, 3.9, 0.0); (
565634.2, 4152084.0, 4.1, 4.1, 0.0);
     (565634.2, 4152074.0, 4.1, 4.1, 0.0); (
565634.2, 4152064.0, 4.0, 4.0, 0.0);
     (565634.2, 4152054.0, 3.7, 3.7, 0.0); (
565634.2, 4152044.0, 3.3, 3.3, 0.0);
     (565634.2, 4152034.0, 3.0, 3.0, 0.0); (
565634.2, 4152024.0, 3.2, 3.2, 0.0);
     (565634.2, 4152014.0, 3.4, 3.4, 0.0); (
565634.2, 4152004.0, 3.7, 3.7, 0.0);
     (565634.2, 4151994.0, 3.7, 3.7, 0.0); (
565634.2, 4151984.0, 3.8, 3.8, 0.0);
     (565634.2, 4151974.0, 3.8, 3.8, 0.0); (
565634.2, 4151964.0, 3.6, 3.6, 0.0);
     (565634.2, 4151954.0, 3.4, 3.4, 0.0); (
565634.2, 4151944.0, 3.2, 3.2, 0.0);
     (565634.2, 4151934.0, 3.1, 3.1, 0.0); (
565634.2, 4151924.0, 3.0, 3.0, 0.0);
     (565634.2, 4151914.0, 3.0, 3.0, 0.0); (
565634.2, 4151904.0, 2.9, 2.9, 0.0);
     (565634.2, 4151894.0, 2.8, 2.8, 0.0); (
565634.2, 4151884.0, 2.7, 2.7, 0.0);
     (565634.2, 4151874.0, 2.7, 2.7, 0.0); (
565634.2, 4151864.0, 2.8, 2.8, 0.0);
     (565634.2, 4151854.0, 2.8, 2.8, 0.0); (
565634.2, 4151844.0, 3.0, 3.0, 0.0);
     (565634.2, 4151834.0, 3.3, 3.3, 0.0); (
565634.2, 4151824.0, 3.5, 3.5, 0.0);
     (565634.2, 4151814.0, 3.7, 3.7, 0.0); (
565634.2, 4151804.0, 3.8, 3.8, 0.0);
     (565634.2, 4151794.0, 3.8, 3.8, 0.0); (
565634.2, 4151784.0, 3.8, 3.8, 0.0);
     (565644.2, 4152084.0, 4.3, 4.3, 0.0); (
565644.2, 4152074.0, 4.4, 4.4, 0.0);
     (565644.2, 4152064.0, 4.5, 4.5, 0.0); (
565644.2, 4152054.0, 4.3, 4.3, 0.0);
     (565644.2, 4152044.0, 4.1, 4.1, 0.0); (
565644.2, 4152034.0, 3.9, 3.9, 0.0);
     (565644.2, 4152024.0, 3.9, 3.9, 0.0); (
565644.2, 4152014.0, 3.9, 3.9, 0.0);
     (565644.2, 4152004.0, 3.9, 3.9, 0.0); (
565644.2, 4151994.0, 3.8, 3.8, 0.0);
     (565644.2, 4151984.0, 3.7, 3.7, 0.0); (
565644.2, 4151974.0, 3.6, 3.6, 0.0);
     (565644.2, 4151964.0, 3.4, 3.4, 0.0); (

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565644.2, 4151954.0,       3.2,       3.2,       0.0);
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565644.2, 4151944.0, 3.0, 3.0, 0.0); (565644.2, 4151934.0, 2.9, 2.9, 0.0);
(565644.2, 4151924.0, 3.0, 3.0, 0.0); (565644.2, 4151914.0, 3.0, 3.0, 0.0);
(565644.2, 4151904.0, 2.9, 2.9, 0.0); (565644.2, 4151894.0, 2.8, 2.8, 0.0);
(565644.2, 4151884.0, 2.8, 2.8, 0.0); (565644.2, 4151874.0, 2.8, 2.8, 0.0);
(565644.2, 4151864.0, 2.9, 2.9, 0.0); (565644.2, 4151854.0, 3.0, 3.0, 0.0);
(565644.2, 4151844.0, 3.1, 3.1, 0.0); (565644.2, 4151834.0, 3.3, 3.3, 0.0);
(565644.2, 4151824.0, 3.6, 3.6, 0.0); (565644.2, 4151814.0, 3.7, 3.7, 0.0);
(565644.2, 4151804.0, 3.6, 3.6, 0.0); (565644.2, 4151794.0, 3.5, 3.5, 0.0);
(565644.2, 4151784.0, 3.5, 3.5, 0.0); (565654.2, 4152084.0, 4.6, 4.6, 0.0);
(565654.2, 4152074.0, 4.7, 4.7, 0.0); (565654.2, 4152064.0, 4.9, 4.9, 0.0);
(565654.2, 4152054.0, 4.8, 4.8, 0.0); (565654.2, 4152044.0, 4.8, 4.8, 0.0);
(565654.2, 4152034.0, 4.7, 4.7, 0.0); (565654.2, 4152024.0, 4.5, 4.5, 0.0);
(565654.2, 4152014.0, 4.3, 4.3, 0.0); (565654.2, 4152004.0, 4.1, 4.1, 0.0);
(565654.2, 4151994.0, 3.9, 3.9, 0.0); (565654.2, 4151984.0, 3.7, 3.7, 0.0);
(565654.2, 4151974.0, 3.5, 3.5, 0.0); (565654.2, 4151964.0, 3.2, 3.2, 0.0);
(565654.2, 4151954.0, 3.0, 3.0, 0.0); (565654.2, 4151944.0, 2.8, 2.8, 0.0);
(565654.2, 4151934.0, 2.8, 2.8, 0.0); (565654.2, 4151924.0, 2.9, 2.9, 0.0);
(565654.2, 4151914.0, 3.0, 3.0, 0.0); (565654.2, 4151904.0, 3.0, 3.0, 0.0);
(565654.2, 4151894.0, 2.9, 2.9, 0.0); (

```
565654.2, 4151884.0,       2.8,       2.8,       0.0);
     ( 565654.2, 4151874.0,       2.9,       2.9,       0.0);         (
565654.2, 4151864.0,       3.0,       3.0,       0.0);
     ( 565654.2, 4151854.0,       3.1,       3.1,       0.0);         (
565654.2, 4151844.0,       3.2,       3.2,       0.0);
     ( 565654.2, 4151834.0,       3.4,       3.4,       0.0);         (
565654.2, 4151824.0,       3.6,       3.6,       0.0);
     ( 565654.2, 4151814.0,       3.6,       3.6,       0.0);         (
565654.2, 4151804.0,       3.5,       3.5,       0.0);
     ( 565654.2, 4151794.0,       3.3,       3.3,       0.0);         (
565654.2, 4151784.0,       3.2,       3.2,       0.0);
     ( 565664.2, 4152084.0,       5.5,       5.5,       0.0);         (
565664.2, 4152074.0,       5.5,       5.5,       0.0);
     ( 565664.2, 4152064.0,       5.6,       5.6,       0.0);         (
565664.2, 4152054.0,       5.4,       5.4,       0.0);
     ( 565664.2, 4152044.0,       5.2,       5.2,       0.0);         (
565664.2, 4152034.0,       5.0,       5.0,       0.0);
     ( 565664.2, 4152024.0,       4.7,       4.7,       0.0);         (
565664.2, 4152014.0,       4.4,       4.4,       0.0);
     ( 565664.2, 4152004.0,       4.1,       4.1,       0.0);         (
565664.2, 4151994.0,       3.8,       3.8,       0.0);
     ( 565664.2, 4151984.0,       3.4,       3.4,       0.0);         (
565664.2, 4151974.0,       3.1,       3.1,       0.0);
     ( 565664.2, 4151964.0,       3.0,       3.0,       0.0);         (
565664.2, 4151954.0,       2.9,       2.9,       0.0);
     ( 565664.2, 4151944.0,       2.9,       2.9,       0.0);         (
565664.2, 4151934.0,       2.9,       2.9,       0.0);
     ( 565664.2, 4151924.0,       2.9,       2.9,       0.0);         (
565664.2, 4151914.0,       3.0,       3.0,       0.0);
     ( 565664.2, 4151904.0,       3.0,       3.0,       0.0);         (
565664.2, 4151894.0,       2.9,       2.9,       0.0);
     ( 565664.2, 4151884.0,       2.9,       2.9,       0.0);         (
565664.2, 4151874.0,       2.9,       2.9,       0.0);
     ( 565664.2, 4151864.0,       3.0,       3.0,       0.0);         (
565664.2, 4151854.0,       3.1,       3.1,       0.0);
     ( 565664.2, 4151844.0,       3.2,       3.2,       0.0);         (
565664.2, 4151834.0,       3.3,       3.3,       0.0);
     ( 565664.2, 4151824.0,       3.4,       3.4,       0.0);         (
565664.2, 4151814.0,       3.4,       3.4,       0.0);
     ( 565664.2, 4151804.0,       3.2,       3.2,       0.0);         (
565664.2, 4151794.0,       3.1,       3.1,       0.0);
     ( 565664.2, 4151784.0,       3.0,       3.0,       0.0);         (
565674.2, 4152084.0,       6.5,       6.5,       0.0);
     ( 565674.2, 4152074.0,       6.4,       6.4,       0.0);         (
565674.2, 4152064.0,       6.3,       6.3,       0.0);
     ( 565674.2, 4152054.0,       5.9,       5.9,       0.0);         (
565674.2, 4152044.0,       5.6,       5.6,       0.0);
     ( 565674.2, 4152034.0,       5.2,       5.2,       0.0);         (
565674.2, 4152024.0,       4.8,       4.8,       0.0);
     ( 565674.2, 4152014.0,       4.5,       4.5,       0.0);         (
565674.2, 4152004.0,       4.1,       4.1,       0.0);
     ( 565674.2, 4151994.0,       3.6,       3.6,       0.0);         (
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565674.2, 4151984.0,       3.1,       3.1,       0.0);
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565674.2, 4151974.0, 2.6, 2.6, 0.0); (565674.2, 4151964.0, 2.7, 2.7, 0.0);
(565674.2, 4151954.0, 2.9, 2.9, 0.0); (565674.2, 4151944.0, 3.1, 3.1, 0.0);
(565674.2, 4151934.0, 3.1, 3.1, 0.0); (565674.2, 4151924.0, 3.0, 3.0, 0.0);
(565674.2, 4151914.0, 3.0, 3.0, 0.0); (565674.2, 4151904.0, 3.0, 3.0, 0.0);
(565674.2, 4151894.0, 3.0, 3.0, 0.0); (565674.2, 4151884.0, 3.0, 3.0, 0.0);
(565674.2, 4151874.0, 3.0, 3.0, 0.0); (565674.2, 4151864.0, 3.1, 3.1, 0.0);
(565674.2, 4151854.0, 3.1, 3.1, 0.0); (565674.2, 4151844.0, 3.1, 3.1, 0.0);
(565674.2, 4151834.0, 3.1, 3.1, 0.0); (565674.2, 4151824.0, 3.0, 3.0, 0.0);
(565674.2, 4151814.0, 3.0, 3.0, 0.0); (565674.2, 4151804.0, 3.0, 3.0, 0.0);
(565674.2, 4151794.0, 3.0, 3.0, 0.0); (565674.2, 4151784.0, 3.0, 3.0, 0.0);
(565684.2, 4152084.0, 7.3, 7.3, 0.0); (565684.2, 4152074.0, 7.1, 7.1, 0.0);
(565684.2, 4152064.0, 6.8, 6.8, 0.0); (565684.2, 4152054.0, 6.3, 6.3, 0.0);
(565684.2, 4152044.0, 5.7, 5.7, 0.0); (565684.2, 4152034.0, 5.2, 5.2, 0.0);
(565684.2, 4152024.0, 4.8, 4.8, 0.0); (565684.2, 4152014.0, 4.4, 4.4, 0.0);
(565684.2, 4152004.0, 4.0, 4.0, 0.0); (565684.2, 4151994.0, 3.5, 3.5, 0.0);
(565684.2, 4151984.0, 2.9, 2.9, 0.0); (565684.2, 4151974.0, 2.3, 2.3, 0.0);
(565684.2, 4151964.0, 2.5, 2.5, 0.0); (565684.2, 4151954.0, 2.8, 2.8, 0.0);
(565684.2, 4151944.0, 3.2, 3.2, 0.0); (565684.2, 4151934.0, 3.2, 3.2, 0.0);
(565684.2, 4151924.0, 3.1, 3.1, 0.0); (

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565684.2, 4151914.0,       3.0,       3.0,       0.0);
     ( 565684.2, 4151904.0,       2.9,       2.9,       0.0);         (
565684.2, 4151894.0,       3.0,       3.0,       0.0);
     ( 565684.2, 4151884.0,       3.0,       3.0,       0.0);         (
565684.2, 4151874.0,       3.1,       3.1,       0.0);
     ( 565684.2, 4151864.0,       3.1,       3.1,       0.0);         (
565684.2, 4151854.0,       3.1,       3.1,       0.0);
     ( 565684.2, 4151844.0,       3.0,       3.0,       0.0);         (
565684.2, 4151834.0,       2.9,       2.9,       0.0);
     ( 565684.2, 4151824.0,       2.8,       2.8,       0.0);         (
565684.2, 4151814.0,       2.7,       2.7,       0.0);
     ( 565684.2, 4151804.0,       2.8,       2.8,       0.0);         (
565684.2, 4151794.0,       2.9,       2.9,       0.0);
     ( 565684.2, 4151784.0,       3.0,       3.0,       0.0);         (
565694.2, 4152084.0,       7.7,       7.7,       0.0);
     ( 565694.2, 4152074.0,       7.4,       7.4,       0.0);         (
565694.2, 4152064.0,       7.0,       7.0,       0.0);
     ( 565694.2, 4152054.0,       6.2,       6.2,       0.0);         (
565694.2, 4152044.0,       5.5,       5.5,       0.0);
     ( 565694.2, 4152034.0,       4.8,       4.8,       0.0);         (
565694.2, 4152024.0,       4.5,       4.5,       0.0);
     ( 565694.2, 4152014.0,       4.3,       4.3,       0.0);         (
565694.2, 4152004.0,       4.1,       4.1,       0.0);
     ( 565694.2, 4151994.0,       3.5,       3.5,       0.0);         (
565694.2, 4151984.0,       2.9,       2.9,       0.0);
     ( 565694.2, 4151974.0,       2.3,       2.3,       0.0);         (
565694.2, 4151964.0,       2.4,       2.4,       0.0);
     ( 565694.2, 4151954.0,       2.7,       2.7,       0.0);         (
565694.2, 4151944.0,       3.0,       3.0,       0.0);
     ( 565694.2, 4151934.0,       3.0,       3.0,       0.0);         (
565694.2, 4151924.0,       3.0,       3.0,       0.0);
     ( 565694.2, 4151914.0,       3.0,       3.0,       0.0);         (
565694.2, 4151904.0,       3.0,       3.0,       0.0);
     ( 565694.2, 4151894.0,       3.0,       3.0,       0.0);         (
565694.2, 4151884.0,       3.0,       3.0,       0.0);
     ( 565694.2, 4151874.0,       3.0,       3.0,       0.0);         (
565694.2, 4151864.0,       3.0,       3.0,       0.0);
     ( 565694.2, 4151854.0,       3.0,       3.0,       0.0);         (
565694.2, 4151844.0,       3.0,       3.0,       0.0);
     ( 565694.2, 4151834.0,       2.9,       2.9,       0.0);         (
565694.2, 4151824.0,       2.8,       2.8,       0.0);
     ( 565694.2, 4151814.0,       2.8,       2.8,       0.0);         (
565694.2, 4151804.0,       2.8,       2.8,       0.0);
     ( 565694.2, 4151794.0,       2.9,       2.9,       0.0);         (
565694.2, 4151784.0,       2.9,       2.9,       0.0);
     ( 565704.2, 4152084.0,       8.2,       8.2,       0.0);         (
565704.2, 4152074.0,       7.7,       7.7,       0.0);
     ( 565704.2, 4152064.0,       7.2,       7.2,       0.0);         (
565704.2, 4152054.0,       6.2,       6.2,       0.0);
     ( 565704.2, 4152044.0,       5.3,       5.3,       0.0);         (
565704.2, 4152034.0,       4.3,       4.3,       0.0);
     ( 565704.2, 4152024.0,       4.2,       4.2,       0.0);         (
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565704.2, 4152014.0,       4.2,       4.2,       0.0);
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565704.2, 4152004.0, 4.1, 4.1, 0.0); (565704.2, 4151994.0, 3.5, 3.5, 0.0);
(565704.2, 4151984.0, 2.9, 2.9, 0.0); (565704.2, 4151974.0, 2.3, 2.3, 0.0);
(565704.2, 4151964.0, 2.4, 2.4, 0.0); (565704.2, 4151954.0, 2.6, 2.6, 0.0);
(565704.2, 4151944.0, 2.8, 2.8, 0.0); (565704.2, 4151934.0, 2.9, 2.9, 0.0);
(565704.2, 4151924.0, 2.9, 2.9, 0.0); (565704.2, 4151914.0, 3.0, 3.0, 0.0);
(565704.2, 4151904.0, 3.0, 3.0, 0.0); (565704.2, 4151894.0, 3.0, 3.0, 0.0);
(565704.2, 4151884.0, 3.0, 3.0, 0.0); (565704.2, 4151874.0, 3.0, 3.0, 0.0);
(565704.2, 4151864.0, 3.0, 3.0, 0.0); (565704.2, 4151854.0, 3.0, 3.0, 0.0);
(565704.2, 4151844.0, 2.9, 2.9, 0.0); (565704.2, 4151834.0, 2.9, 2.9, 0.0);
(565704.2, 4151824.0, 2.9, 2.9, 0.0); (565704.2, 4151814.0, 2.9, 2.9, 0.0);
(565704.2, 4151804.0, 2.8, 2.8, 0.0); (565704.2, 4151794.0, 2.8, 2.8, 0.0);
(565704.2, 4151784.0, 2.8, 2.8, 0.0); (565714.2, 4152084.0, 6.9, 8.7, 0.0);
(565714.2, 4152074.0, 6.1, 8.7, 0.0); (565714.2, 4152064.0, 5.4, 7.3, 0.0);
(565714.2, 4152054.0, 4.8, 7.3, 0.0); (565714.2, 4152044.0, 4.1, 7.3, 0.0);
(565714.2, 4152034.0, 3.5, 7.3, 0.0); (565714.2, 4152024.0, 3.5, 3.5, 0.0);
(565714.2, 4152014.0, 3.6, 3.6, 0.0); (565714.2, 4152004.0, 3.6, 3.6, 0.0);
(565714.2, 4151994.0, 3.2, 3.2, 0.0); (565714.2, 4151984.0, 2.8, 2.8, 0.0);
(565714.2, 4151974.0, 2.3, 2.3, 0.0); (565714.2, 4151964.0, 2.4, 2.4, 0.0);
(565714.2, 4151954.0, 2.6, 2.6, 0.0); (

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565714.2, 4151944.0,       2.8,       2.8,       0.0);
     ( 565714.2, 4151934.0,       2.9,       2.9,       0.0);         (
565714.2, 4151924.0,       2.9,       2.9,       0.0);
     ( 565714.2, 4151914.0,       2.9,       2.9,       0.0);         (
565714.2, 4151904.0,       2.9,       2.9,       0.0);
     ( 565714.2, 4151894.0,       2.9,       2.9,       0.0);         (
565714.2, 4151884.0,       2.9,       2.9,       0.0);
     ( 565714.2, 4151874.0,       2.9,       2.9,       0.0);         (
565714.2, 4151864.0,       2.9,       2.9,       0.0);
     ( 565714.2, 4151854.0,       2.9,       2.9,       0.0);         (
565714.2, 4151844.0,       2.9,       2.9,       0.0);
     ( 565714.2, 4151834.0,       2.9,       2.9,       0.0);         (
565714.2, 4151824.0,       2.9,       2.9,       0.0);
     ( 565714.2, 4151814.0,       2.8,       2.8,       0.0);         (
565714.2, 4151804.0,       2.8,       2.8,       0.0);
     ( 565714.2, 4151794.0,       2.7,       2.7,       0.0);         (
565714.2, 4151784.0,       2.7,       2.7,       0.0);
     ( 565724.2, 4152084.0,       5.6,       8.7,       0.0);         (
565724.2, 4152074.0,       4.5,       8.7,       0.0);
     ( 565724.2, 4152064.0,       3.5,       8.7,       0.0);         (
565724.2, 4152054.0,       3.2,       8.7,       0.0);
     ( 565724.2, 4152044.0,       2.9,       8.7,       0.0);         (
565724.2, 4152034.0,       2.6,       7.3,       0.0);
     ( 565724.2, 4152024.0,       2.8,       2.8,       0.0);         (
565724.2, 4152014.0,       3.0,       3.0,       0.0);
     ( 565724.2, 4152004.0,       3.1,       3.1,       0.0);         (
565724.2, 4151994.0,       2.9,       2.9,       0.0);
     ( 565724.2, 4151984.0,       2.6,       2.6,       0.0);         (
565724.2, 4151974.0,       2.3,       2.3,       0.0);
     ( 565724.2, 4151964.0,       2.4,       2.4,       0.0);         (
565724.2, 4151954.0,       2.6,       2.6,       0.0);
     ( 565724.2, 4151944.0,       2.9,       2.9,       0.0);         (
565724.2, 4151934.0,       2.9,       2.9,       0.0);
     ( 565724.2, 4151924.0,       2.9,       2.9,       0.0);         (
565724.2, 4151914.0,       2.9,       2.9,       0.0);
     ( 565724.2, 4151904.0,       2.9,       2.9,       0.0);         (
565724.2, 4151894.0,       2.9,       2.9,       0.0);
     ( 565724.2, 4151884.0,       2.9,       2.9,       0.0);         (
565724.2, 4151874.0,       2.9,       2.9,       0.0);
     ( 565724.2, 4151864.0,       2.9,       2.9,       0.0);         (
565724.2, 4151854.0,       3.0,       3.0,       0.0);
     ( 565724.2, 4151844.0,       2.9,       2.9,       0.0);         (
565724.2, 4151834.0,       2.9,       2.9,       0.0);
     ( 565724.2, 4151824.0,       2.8,       2.8,       0.0);         (
565724.2, 4151814.0,       2.7,       2.7,       0.0);
     ( 565724.2, 4151804.0,       2.7,       2.7,       0.0);         (
565724.2, 4151794.0,       2.6,       2.6,       0.0);
     ( 565724.2, 4151784.0,       2.5,       2.5,       0.0);         (
565734.2, 4152084.0,       4.6,       8.7,       0.0);
     ( 565734.2, 4152074.0,       3.6,       8.7,       0.0);         (
565734.2, 4152064.0,       2.6,       8.7,       0.0);
     ( 565734.2, 4152054.0,       2.5,       8.7,       0.0);         (
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565734.2, 4152044.0,       2.4,       8.7,       0.0);
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565734.2, 4152034.0, 2.2, 7.3, 0.0); (565734.2, 4152024.0, 2.4, 2.4, 0.0);
(565734.2, 4152014.0, 2.6, 2.6, 0.0); (565734.2, 4152004.0, 2.8, 2.8, 0.0);
(565734.2, 4151994.0, 2.7, 2.7, 0.0); (565734.2, 4151984.0, 2.4, 2.4, 0.0);
(565734.2, 4151974.0, 2.2, 2.2, 0.0); (565734.2, 4151964.0, 2.4, 2.4, 0.0);
(565734.2, 4151954.0, 2.6, 2.6, 0.0); (565734.2, 4151944.0, 2.9, 2.9, 0.0);
(565734.2, 4151934.0, 2.9, 2.9, 0.0); (565734.2, 4151924.0, 2.9, 2.9, 0.0);
(565734.2, 4151914.0, 2.8, 2.8, 0.0); (565734.2, 4151904.0, 2.8, 2.8, 0.0);
(565734.2, 4151894.0, 2.8, 2.8, 0.0); (565734.2, 4151884.0, 2.8, 2.8, 0.0);
(565734.2, 4151874.0, 2.9, 2.9, 0.0); (565734.2, 4151864.0, 2.9, 2.9, 0.0);
(565734.2, 4151854.0, 2.9, 2.9, 0.0); (565734.2, 4151844.0, 2.9, 2.9, 0.0);
(565734.2, 4151834.0, 2.9, 2.9, 0.0); (565734.2, 4151824.0, 2.8, 2.8, 0.0);
(565734.2, 4151814.0, 2.7, 2.7, 0.0); (565734.2, 4151804.0, 2.6, 2.6, 0.0);
(565734.2, 4151794.0, 2.5, 2.5, 0.0); (565734.2, 4151784.0, 2.5, 2.5, 0.0);
(565744.2, 4152084.0, 3.8, 8.7, 0.0); (565744.2, 4152074.0, 3.2, 8.7, 0.0);
(565744.2, 4152064.0, 2.7, 8.7, 0.0); (565744.2, 4152054.0, 2.5, 8.7, 0.0);
(565744.2, 4152044.0, 2.4, 7.3, 0.0); (565744.2, 4152034.0, 2.2, 7.3, 0.0);
(565744.2, 4152024.0, 2.4, 2.4, 0.0); (565744.2, 4152014.0, 2.6, 2.6, 0.0);
(565744.2, 4152004.0, 2.8, 2.8, 0.0); (565744.2, 4151994.0, 2.6, 2.6, 0.0);
(565744.2, 4151984.0, 2.4, 2.4, 0.0); (

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565744.2, 4151974.0,       2.2,       2.2,       0.0);
     ( 565744.2, 4151964.0,       2.4,       2.4,       0.0);         (
565744.2, 4151954.0,       2.6,       2.6,       0.0);
     ( 565744.2, 4151944.0,       2.9,       2.9,       0.0);         (
565744.2, 4151934.0,       2.8,       2.8,       0.0);
     ( 565744.2, 4151924.0,       2.8,       2.8,       0.0);         (
565744.2, 4151914.0,       2.7,       2.7,       0.0);
     ( 565744.2, 4151904.0,       2.7,       2.7,       0.0);         (
565744.2, 4151894.0,       2.8,       2.8,       0.0);
     ( 565744.2, 4151884.0,       2.8,       2.8,       0.0);         (
565744.2, 4151874.0,       2.9,       2.9,       0.0);
     ( 565744.2, 4151864.0,       2.9,       2.9,       0.0);         (
565744.2, 4151854.0,       2.9,       2.9,       0.0);
     ( 565744.2, 4151844.0,       2.9,       2.9,       0.0);         (
565744.2, 4151834.0,       2.9,       2.9,       0.0);
     ( 565744.2, 4151824.0,       2.8,       2.8,       0.0);         (
565744.2, 4151814.0,       2.8,       2.8,       0.0);
     ( 565744.2, 4151804.0,       2.7,       2.7,       0.0);         (
565744.2, 4151794.0,       2.6,       2.6,       0.0);
     ( 565744.2, 4151784.0,       2.6,       2.6,       0.0);         (
565754.2, 4152084.0,       3.2,       8.7,       0.0);
     ( 565754.2, 4152074.0,       2.9,       8.7,       0.0);         (
565754.2, 4152064.0,       2.7,       8.7,       0.0);
     ( 565754.2, 4152054.0,       2.6,       2.6,       0.0);         (
565754.2, 4152044.0,       2.4,       2.4,       0.0);
     ( 565754.2, 4152034.0,       2.2,       2.2,       0.0);         (
565754.2, 4152024.0,       2.4,       2.4,       0.0);
     ( 565754.2, 4152014.0,       2.6,       2.6,       0.0);         (
565754.2, 4152004.0,       2.8,       2.8,       0.0);
     ( 565754.2, 4151994.0,       2.6,       2.6,       0.0);         (
565754.2, 4151984.0,       2.4,       2.4,       0.0);
     ( 565754.2, 4151974.0,       2.2,       2.2,       0.0);         (
565754.2, 4151964.0,       2.4,       2.4,       0.0);
     ( 565754.2, 4151954.0,       2.6,       2.6,       0.0);         (
565754.2, 4151944.0,       2.8,       2.8,       0.0);
     ( 565754.2, 4151934.0,       2.8,       2.8,       0.0);         (
565754.2, 4151924.0,       2.6,       2.6,       0.0);
     ( 565754.2, 4151914.0,       2.5,       2.5,       0.0);         (
565754.2, 4151904.0,       2.6,       2.6,       0.0);
     ( 565754.2, 4151894.0,       2.7,       2.7,       0.0);         (
565754.2, 4151884.0,       2.8,       2.8,       0.0);
     ( 565754.2, 4151874.0,       2.9,       2.9,       0.0);         (
565754.2, 4151864.0,       2.9,       2.9,       0.0);
     ( 565754.2, 4151854.0,       2.8,       2.8,       0.0);         (
565754.2, 4151844.0,       2.8,       2.8,       0.0);
     ( 565754.2, 4151834.0,       2.9,       2.9,       0.0);         (
565754.2, 4151824.0,       2.9,       2.9,       0.0);
     ( 565754.2, 4151814.0,       2.9,       2.9,       0.0);         (
565754.2, 4151804.0,       2.8,       2.8,       0.0);
     ( 565754.2, 4151794.0,       2.7,       2.7,       0.0);         (
565754.2, 4151784.0,       2.6,       2.6,       0.0);
     ( 565764.2, 4152084.0,       3.3,       3.3,       0.0);         (
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565764.2, 4152074.0,       3.2,       3.2,       0.0);
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565764.2, 4152064.0, 3.0, 3.0, 0.0); (565764.2, 4152054.0, 2.8, 2.8, 0.0);
(565764.2, 4152044.0, 2.6, 2.6, 0.0); (565764.2, 4152034.0, 2.5, 2.5, 0.0);
(565764.2, 4152024.0, 2.5, 2.5, 0.0); (565764.2, 4152014.0, 2.5, 2.5, 0.0);
(565764.2, 4152004.0, 2.5, 2.5, 0.0); (565764.2, 4151994.0, 2.4, 2.4, 0.0);
(565764.2, 4151984.0, 2.2, 2.2, 0.0); (565764.2, 4151974.0, 2.1, 2.1, 0.0);
(565764.2, 4151964.0, 2.3, 2.3, 0.0); (565764.2, 4151954.0, 2.4, 2.4, 0.0);
(565764.2, 4151944.0, 2.6, 2.6, 0.0); (565764.2, 4151934.0, 2.6, 2.6, 0.0);
(565764.2, 4151924.0, 2.6, 2.6, 0.0); (565764.2, 4151914.0, 2.6, 2.6, 0.0);
(565764.2, 4151904.0, 2.6, 2.6, 0.0); (565764.2, 4151894.0, 2.7, 2.7, 0.0);
(565764.2, 4151884.0, 2.8, 2.8, 0.0); (565764.2, 4151874.0, 2.8, 2.8, 0.0);
(565764.2, 4151864.0, 2.8, 2.8, 0.0); (565764.2, 4151854.0, 2.7, 2.7, 0.0);
(565764.2, 4151844.0, 2.8, 2.8, 0.0); (565764.2, 4151834.0, 2.8, 2.8, 0.0);
(565764.2, 4151824.0, 2.8, 2.8, 0.0); (565764.2, 4151814.0, 2.8, 2.8, 0.0);
(565764.2, 4151804.0, 2.7, 2.7, 0.0); (565764.2, 4151794.0, 2.6, 2.6, 0.0);
(565764.2, 4151784.0, 2.6, 2.6, 0.0); (565564.2, 4151974.0, 3.1, 3.1, 0.0);
(565564.2, 4151964.0, 3.0, 3.0, 0.0); (565564.2, 4151954.0, 2.9, 2.9, 0.0);
(565564.2, 4151944.0, 2.8, 2.8, 0.0); (565564.2, 4151934.0, 2.8, 2.8, 0.0);
(565564.2, 4151924.0, 2.8, 2.8, 0.0); (565564.2, 4151914.0, 2.8, 2.8, 0.0);
(565564.2, 4151904.0, 2.9, 2.9, 0.0); (

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565564.2, 4151894.0,       3.0,       3.0,       0.0);
     ( 565564.2, 4151884.0,       3.1,       3.1,       0.0);         (
565564.2, 4151874.0,       3.2,       3.2,       0.0);
     ( 565564.2, 4151864.0,       3.2,       3.2,       0.0);         (
565564.2, 4151854.0,       3.2,       3.2,       0.0);
     ( 565564.2, 4151844.0,       3.3,       3.3,       0.0);         (
565564.2, 4151834.0,       3.5,       3.5,       0.0);
     ( 565564.2, 4151824.0,       3.7,       3.7,       0.0);         (
565564.2, 4151814.0,       3.8,       3.8,       0.0);
     ( 565564.2, 4151804.0,       3.7,       3.7,       0.0);         (
565564.2, 4151794.0,       3.6,       3.6,       0.0);
     ( 565564.2, 4151784.0,       3.5,       3.5,       0.0);         (
565554.2, 4151974.0,       3.0,       3.0,       0.0);
     ( 565554.2, 4151964.0,       2.9,       2.9,       0.0);         (
565554.2, 4151954.0,       2.8,       2.8,       0.0);
     ( 565554.2, 4151944.0,       2.8,       2.8,       0.0);         (
565554.2, 4151934.0,       2.7,       2.7,       0.0);
     ( 565554.2, 4151924.0,       2.8,       2.8,       0.0);         (
565554.2, 4151914.0,       2.8,       2.8,       0.0);
     ( 565554.2, 4151904.0,       2.8,       2.8,       0.0);         (
565554.2, 4151894.0,       2.9,       2.9,       0.0);
     ( 565554.2, 4151884.0,       3.1,       3.1,       0.0);         (
565554.2, 4151874.0,       3.1,       3.1,       0.0);
     ( 565554.2, 4151864.0,       3.2,       3.2,       0.0);         (
565554.2, 4151854.0,       3.2,     144.6,       0.0);
     ( 565554.2, 4151844.0,       3.3,     144.6,       0.0);         (
565554.2, 4151834.0,       3.5,     144.6,       0.0);
     ( 565554.2, 4151824.0,       3.7,     144.6,       0.0);         (
565554.2, 4151814.0,       3.8,     144.6,       0.0);
     ( 565554.2, 4151804.0,       3.7,     144.6,       0.0);         (
565554.2, 4151794.0,       3.6,     144.6,       0.0);
     ( 565554.2, 4151784.0,       3.6,     144.6,       0.0);         (
565544.2, 4151974.0,       3.0,       3.0,       0.0);
     ( 565544.2, 4151964.0,       2.9,       2.9,       0.0);         (
565544.2, 4151954.0,       2.9,       2.9,       0.0);
     ( 565544.2, 4151944.0,       2.8,       2.8,       0.0);         (
565544.2, 4151934.0,       2.8,       2.8,       0.0);
     ( 565544.2, 4151924.0,       2.8,     144.6,       0.0);         (
565544.2, 4151914.0,       2.8,     144.6,       0.0);
     ( 565544.2, 4151904.0,       2.9,     144.6,       0.0);         (
565544.2, 4151894.0,       2.9,     144.6,       0.0);
     ( 565544.2, 4151884.0,       3.0,     144.6,       0.0);         (
565544.2, 4151874.0,       3.1,     144.6,       0.0);
     ( 565544.2, 4151864.0,       3.2,     144.6,       0.0);         (
565544.2, 4151854.0,       3.3,     144.6,       0.0);
     ( 565544.2, 4151844.0,       3.4,     144.6,       0.0);         (
565544.2, 4151834.0,       3.6,     144.6,       0.0);
     ( 565544.2, 4151824.0,       3.7,     144.6,       0.0);         (
565544.2, 4151814.0,       3.8,     144.6,       0.0);
     ( 565544.2, 4151804.0,       3.8,     144.6,       0.0);         (
565544.2, 4151794.0,       3.8,     144.6,       0.0);
     ( 565544.2, 4151784.0,       3.9,     144.6,       0.0);         (
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565534.2, 4151974.0,       3.0,       3.0,       0.0);
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565534.2, 4151964.0, 3.0, 144.6, 0.0); (565534.2, 4151954.0, 2.9, 144.6, 0.0);
(565534.2, 4151944.0, 2.9, 144.6, 0.0); (565534.2, 4151934.0, 2.9, 144.6, 0.0);
(565534.2, 4151924.0, 2.9, 144.6, 0.0); (565534.2, 4151914.0, 2.9, 144.6, 0.0);
(565534.2, 4151904.0, 2.9, 144.6, 0.0); (565534.2, 4151894.0, 3.0, 144.6, 0.0);
(565534.2, 4151884.0, 3.0, 144.6, 0.0); (565534.2, 4151874.0, 3.1, 144.6, 0.0);
(565534.2, 4151864.0, 3.3, 144.6, 0.0); (565534.2, 4151854.0, 3.5, 144.6, 0.0);
(565534.2, 4151844.0, 3.6, 144.6, 0.0); (565534.2, 4151834.0, 3.6, 144.6, 0.0);
(565534.2, 4151824.0, 3.6, 144.6, 0.0); (565534.2, 4151814.0, 3.7, 144.6, 0.0);
(565534.2, 4151804.0, 3.8, 144.6, 0.0); (565534.2, 4151794.0, 4.0, 144.6, 0.0);
(565534.2, 4151784.0, 4.1, 144.6, 0.0); (565524.2, 4151974.0, 3.0, 144.6, 0.0);
(565524.2, 4151964.0, 3.0, 144.6, 0.0); (565524.2, 4151954.0, 3.0, 144.6, 0.0);
(565524.2, 4151944.0, 3.0, 144.6, 0.0); (565524.2, 4151934.0, 3.0, 144.6, 0.0);
(565524.2, 4151924.0, 3.0, 144.6, 0.0); (565524.2, 4151914.0, 3.0, 144.6, 0.0);
(565524.2, 4151904.0, 3.0, 144.6, 0.0); (565524.2, 4151894.0, 3.0, 144.6, 0.0);
(565524.2, 4151884.0, 3.1, 144.6, 0.0); (565524.2, 4151874.0, 3.2, 144.6, 0.0);
(565524.2, 4151864.0, 3.3, 144.6, 0.0); (565524.2, 4151854.0, 3.4, 144.6, 0.0);
(565524.2, 4151844.0, 3.6, 144.6, 0.0); (565524.2, 4151834.0, 3.6, 144.6, 0.0);
(565524.2, 4151824.0, 3.7, 144.6, 0.0); (565524.2, 4151814.0, 3.8, 144.6, 0.0);
(565524.2, 4151804.0, 3.9, 144.6, 0.0); (

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565524.2, 4151794.0,       4.0,     144.6,       0.0);
     ( 565524.2, 4151784.0,       4.1,     144.6,       0.0);         (
565514.2, 4151974.0,       2.9,     144.6,       0.0);
     ( 565514.2, 4151964.0,       2.9,     144.6,       0.0);         (
565514.2, 4151954.0,       3.1,     144.6,       0.0);
     ( 565514.2, 4151944.0,       3.2,     144.6,       0.0);         (
565514.2, 4151934.0,       3.2,     144.6,       0.0);
     ( 565514.2, 4151924.0,       3.2,     144.6,       0.0);         (
565514.2, 4151914.0,       3.1,     144.6,       0.0);
     ( 565514.2, 4151904.0,       3.1,     144.6,       0.0);         (
565514.2, 4151894.0,       3.2,     144.6,       0.0);
     ( 565514.2, 4151884.0,       3.2,     144.6,       0.0);         (
565514.2, 4151874.0,       3.3,     144.6,       0.0);
     ( 565514.2, 4151864.0,       3.3,     144.6,       0.0);         (
565514.2, 4151854.0,       3.4,     144.6,       0.0);
     ( 565514.2, 4151844.0,       3.5,     144.6,       0.0);         (
565514.2, 4151834.0,       3.6,     144.6,       0.0);
     ( 565514.2, 4151824.0,       3.8,     144.6,       0.0);         (
565514.2, 4151814.0,       3.9,     144.6,       0.0);
     ( 565514.2, 4151804.0,       4.0,     144.6,       0.0);         (
565514.2, 4151794.0,       4.1,     144.6,       0.0);
     ( 565514.2, 4151784.0,       4.2,     144.6,       0.0);         (
565504.2, 4151974.0,       2.8,     144.6,       0.0);
     ( 565504.2, 4151964.0,       2.9,     144.6,       0.0);         (
565504.2, 4151954.0,       3.1,     144.6,       0.0);
     ( 565504.2, 4151944.0,       3.2,     144.6,       0.0);         (
565504.2, 4151934.0,       3.3,     144.6,       0.0);
     ( 565504.2, 4151924.0,       3.3,     144.6,       0.0);         (
565504.2, 4151914.0,       3.2,     144.6,       0.0);
     ( 565504.2, 4151904.0,       3.2,     144.6,       0.0);         (
565504.2, 4151894.0,       3.3,     144.6,       0.0);
     ( 565504.2, 4151884.0,       3.3,     144.6,       0.0);         (
565504.2, 4151874.0,       3.3,     144.6,       0.0);
     ( 565504.2, 4151864.0,       3.4,     144.6,       0.0);         (
565504.2, 4151854.0,       3.5,     144.6,       0.0);
     ( 565504.2, 4151844.0,       3.6,     144.6,       0.0);         (
565504.2, 4151834.0,       3.7,     144.6,       0.0);
     ( 565504.2, 4151824.0,       3.8,     144.6,       0.0);         (
565504.2, 4151814.0,       3.9,     144.6,       0.0);
     ( 565504.2, 4151804.0,       4.0,     144.6,       0.0);         (
565504.2, 4151794.0,       4.1,     144.6,       0.0);
     ( 565504.2, 4151784.0,       4.2,     144.6,       0.0);         (
565494.2, 4151974.0,       2.9,     144.6,       0.0);
     ( 565494.2, 4151964.0,       3.0,     144.6,       0.0);         (
565494.2, 4151954.0,       3.1,     144.6,       0.0);
     ( 565494.2, 4151944.0,       3.2,     144.6,       0.0);         (
565494.2, 4151934.0,       3.3,     144.6,       0.0);
     ( 565494.2, 4151924.0,       3.3,     144.6,       0.0);         (
565494.2, 4151914.0,       3.3,     144.6,       0.0);
     ( 565494.2, 4151904.0,       3.4,     144.6,       0.0);         (
565494.2, 4151894.0,       3.4,     144.6,       0.0);
     ( 565494.2, 4151884.0,       3.4,     144.6,       0.0);         (
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565494.2, 4151874.0,       3.5,     144.6,       0.0);
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565494.2, 4151864.0, 3.5, 144.6, 0.0); (565494.2, 4151854.0, 3.6, 144.6, 0.0);
(565494.2, 4151844.0, 3.7, 144.6, 0.0); (565494.2, 4151834.0, 3.7, 144.6, 0.0);
(565494.2, 4151824.0, 3.8, 144.6, 0.0); (565494.2, 4151814.0, 3.9, 144.6, 0.0);
(565494.2, 4151804.0, 4.0, 144.6, 0.0); (565494.2, 4151794.0, 4.2, 144.6, 0.0);
(565494.2, 4151784.0, 4.3, 144.6, 0.0); (565484.2, 4151974.0, 2.9, 144.6, 0.0);
(565484.2, 4151964.0, 3.0, 144.6, 0.0); (565484.2, 4151954.0, 3.1, 144.6, 0.0);
(565484.2, 4151944.0, 3.2, 144.6, 0.0); (565484.2, 4151934.0, 3.3, 144.6, 0.0);
(565484.2, 4151924.0, 3.4, 144.6, 0.0); (565484.2, 4151914.0, 3.5, 144.6, 0.0);
(565484.2, 4151904.0, 3.5, 144.6, 0.0); (565484.2, 4151894.0, 3.5, 144.6, 0.0);
(565484.2, 4151884.0, 3.5, 144.6, 0.0); (565484.2, 4151874.0, 3.6, 144.6, 0.0);
(565484.2, 4151864.0, 3.6, 144.6, 0.0); (565484.2, 4151854.0, 3.7, 144.6, 0.0);
(565484.2, 4151844.0, 3.8, 144.6, 0.0); (565484.2, 4151834.0, 3.8, 144.6, 0.0);
(565484.2, 4151824.0, 3.8, 144.6, 0.0); (565484.2, 4151814.0, 3.9, 144.6, 0.0);
(565484.2, 4151804.0, 4.1, 144.6, 0.0); (565484.2, 4151794.0, 4.2, 144.6, 0.0);
(565484.2, 4151784.0, 4.4, 144.6, 0.0); (565474.2, 4151974.0, 3.1, 144.6, 0.0);
(565474.2, 4151964.0, 3.1, 144.6, 0.0); (565474.2, 4151954.0, 3.2, 144.6, 0.0);
(565474.2, 4151944.0, 3.2, 144.6, 0.0); (565474.2, 4151934.0, 3.3, 144.6, 0.0);
(565474.2, 4151924.0, 3.4, 144.6, 0.0); (565474.2, 4151914.0, 3.4, 144.6, 0.0);
(565474.2, 4151904.0, 3.5, 144.6, 0.0); (

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565474.2, 4151894.0,       3.5,     144.6,       0.0);
     ( 565474.2, 4151884.0,       3.6,     144.6,       0.0);         (
565474.2, 4151874.0,       3.6,     144.6,       0.0);
     ( 565474.2, 4151864.0,       3.7,     144.6,       0.0);         (
565474.2, 4151854.0,       3.8,     144.6,       0.0);
     ( 565474.2, 4151844.0,       3.8,     144.6,       0.0);         (
565474.2, 4151834.0,       3.9,     144.6,       0.0);
     ( 565474.2, 4151824.0,       4.0,     144.6,       0.0);         (
565474.2, 4151814.0,       4.1,     144.6,       0.0);
     ( 565474.2, 4151804.0,       4.2,     144.6,       0.0);         (
565474.2, 4151794.0,       4.4,     144.6,       0.0);
     ( 565474.2, 4151784.0,       4.5,     144.6,       0.0);         (
565464.2, 4151974.0,       3.2,     144.6,       0.0);
     ( 565464.2, 4151964.0,       3.3,     144.6,       0.0);         (
565464.2, 4151954.0,       3.3,     144.6,       0.0);
     ( 565464.2, 4151944.0,       3.3,     144.6,       0.0);         (
565464.2, 4151934.0,       3.3,     144.6,       0.0);
     ( 565464.2, 4151924.0,       3.4,     144.6,       0.0);         (
565464.2, 4151914.0,       3.4,     144.6,       0.0);
     ( 565464.2, 4151904.0,       3.4,     144.6,       0.0);         (
565464.2, 4151894.0,       3.5,     144.6,       0.0);
     ( 565464.2, 4151884.0,       3.6,     144.6,       0.0);         (
565464.2, 4151874.0,       3.7,     144.6,       0.0);
     ( 565464.2, 4151864.0,       3.7,     144.6,       0.0);         (
565464.2, 4151854.0,       3.8,     144.6,       0.0);
     ( 565464.2, 4151844.0,       3.9,     144.6,       0.0);         (
565464.2, 4151834.0,       4.0,     144.6,       0.0);
     ( 565464.2, 4151824.0,       4.2,     144.6,       0.0);         (
565464.2, 4151814.0,       4.3,     144.6,       0.0);
     ( 565464.2, 4151804.0,       4.4,     144.6,       0.0);         (
565464.2, 4151794.0,       4.5,     144.6,       0.0);
     ( 565464.2, 4151784.0,       4.7,     144.6,       0.0);         (
565454.2, 4151974.0,       3.2,     144.6,       0.0);
     ( 565454.2, 4151964.0,       3.3,     144.6,       0.0);         (
565454.2, 4151954.0,       3.3,     144.6,       0.0);
     ( 565454.2, 4151944.0,       3.4,     144.6,       0.0);         (
565454.2, 4151934.0,       3.4,     144.6,       0.0);
     ( 565454.2, 4151924.0,       3.4,     144.6,       0.0);         (
565454.2, 4151914.0,       3.4,     144.6,       0.0);
     ( 565454.2, 4151904.0,       3.5,     144.6,       0.0);         (
565454.2, 4151894.0,       3.6,     144.6,       0.0);
     ( 565454.2, 4151884.0,       3.6,     144.6,       0.0);         (
565454.2, 4151874.0,       3.7,     144.6,       0.0);
     ( 565454.2, 4151864.0,       3.8,     144.6,       0.0);         (
565454.2, 4151854.0,       3.9,     144.6,       0.0);
     ( 565454.2, 4151844.0,       4.0,     144.6,       0.0);         (
565454.2, 4151834.0,       4.2,     144.6,       0.0);
     ( 565454.2, 4151824.0,       4.4,     144.6,       0.0);         (
565454.2, 4151814.0,       4.5,     144.6,       0.0);
     ( 565454.2, 4151804.0,       4.6,     144.6,       0.0);         (
565454.2, 4151794.0,       4.6,     144.6,       0.0);
     ( 565454.2, 4151784.0,       4.7,     144.6,       0.0);         (
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565444.2, 4151974.0,       3.2,     144.6,       0.0);
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565444.2, 4151964.0, 3.3, 144.6, 0.0); (565444.2, 4151954.0, 3.3, 144.6, 0.0);
(565444.2, 4151944.0, 3.4, 144.6, 0.0); (565444.2, 4151934.0, 3.4, 144.6, 0.0);
(565444.2, 4151924.0, 3.5, 144.6, 0.0); (565444.2, 4151914.0, 3.5, 144.6, 0.0);
(565444.2, 4151904.0, 3.6, 144.6, 0.0); (565444.2, 4151894.0, 3.6, 144.6, 0.0);
(565444.2, 4151884.0, 3.7, 144.6, 0.0); (565444.2, 4151874.0, 3.8, 144.6, 0.0);
(565444.2, 4151864.0, 3.9, 144.6, 0.0); (565444.2, 4151854.0, 4.0, 144.6, 0.0);
(565444.2, 4151844.0, 4.1, 144.6, 0.0); (565444.2, 4151834.0, 4.3, 144.6, 0.0);
(565444.2, 4151824.0, 4.5, 144.6, 0.0); (565444.2, 4151814.0, 4.7, 144.6, 0.0);
(565444.2, 4151804.0, 4.7, 144.6, 0.0); (565444.2, 4151794.0, 4.7, 144.6, 0.0);
(565444.2, 4151784.0, 4.7, 144.6, 0.0); (565434.2, 4151974.0, 3.1, 144.6, 0.0);
(565434.2, 4151964.0, 3.2, 144.6, 0.0); (565434.2, 4151954.0, 3.3, 144.6, 0.0);
(565434.2, 4151944.0, 3.4, 144.6, 0.0); (565434.2, 4151934.0, 3.5, 144.6, 0.0);
(565434.2, 4151924.0, 3.5, 144.6, 0.0); (565434.2, 4151914.0, 3.6, 144.6, 0.0);
(565434.2, 4151904.0, 3.6, 144.6, 0.0); (565434.2, 4151894.0, 3.7, 144.6, 0.0);
(565434.2, 4151884.0, 3.8, 144.6, 0.0); (565434.2, 4151874.0, 3.8, 144.6, 0.0);
(565434.2, 4151864.0, 3.9, 144.6, 0.0); (565434.2, 4151854.0, 4.0, 144.6, 0.0);
(565434.2, 4151844.0, 4.2, 144.6, 0.0); (565434.2, 4151834.0, 4.4, 144.6, 0.0);
(565434.2, 4151824.0, 4.7, 144.6, 0.0); (565434.2, 4151814.0, 4.9, 144.6, 0.0);
(565434.2, 4151804.0, 4.8, 144.6, 0.0); (

565434.2, 4151794.0, 4.8, 144.6, 0.0);
     (565434.2, 4151784.0, 4.8, 144.6, 0.0); (
565424.2, 4151974.0, 3.2, 144.6, 0.0);
     (565424.2, 4151964.0, 3.3, 144.6, 0.0); (
565424.2, 4151954.0, 3.3, 144.6, 0.0);
     (565424.2, 4151944.0, 3.4, 144.6, 0.0); (
565424.2, 4151934.0, 3.5, 144.6, 0.0);
     (565424.2, 4151924.0, 3.6, 144.6, 0.0); (
565424.2, 4151914.0, 3.6, 144.6, 0.0);
     (565424.2, 4151904.0, 3.7, 144.6, 0.0); (
565424.2, 4151894.0, 3.7, 144.6, 0.0);
     (565424.2, 4151884.0, 3.8, 144.6, 0.0); (
565424.2, 4151874.0, 3.8, 144.6, 0.0);
     (565424.2, 4151864.0, 4.0, 144.6, 0.0); (
565424.2, 4151854.0, 4.1, 144.6, 0.0);
     (565424.2, 4151844.0, 4.3, 144.6, 0.0); (
565424.2, 4151834.0, 4.5, 144.6, 0.0);
     (565424.2, 4151824.0, 4.8, 144.6, 0.0); (
565424.2, 4151814.0, 5.0, 144.6, 0.0);
     (565424.2, 4151804.0, 5.0, 144.6, 0.0); (
565424.2, 4151794.0, 5.0, 144.6, 0.0);
     (565424.2, 4151784.0, 5.0, 144.6, 0.0); (
565414.2, 4151974.0, 3.2, 144.6, 0.0);
     (565414.2, 4151964.0, 3.3, 144.6, 0.0); (
565414.2, 4151954.0, 3.4, 144.6, 0.0);
     (565414.2, 4151944.0, 3.4, 144.6, 0.0); (
565414.2, 4151934.0, 3.5, 144.6, 0.0);
     (565414.2, 4151924.0, 3.6, 144.6, 0.0); (
565414.2, 4151914.0, 3.6, 144.6, 0.0);
     (565414.2, 4151904.0, 3.7, 144.6, 0.0); (
565414.2, 4151894.0, 3.7, 144.6, 0.0);
     (565414.2, 4151884.0, 3.8, 144.6, 0.0); (
565414.2, 4151874.0, 3.8, 144.6, 0.0);
     (565414.2, 4151864.0, 4.0, 144.6, 0.0); (
565414.2, 4151854.0, 4.2, 144.6, 0.0);
     (565414.2, 4151844.0, 4.3, 144.6, 0.0); (
565414.2, 4151834.0, 4.6, 144.6, 0.0);
     (565414.2, 4151824.0, 4.8, 144.6, 0.0); (
565414.2, 4151814.0, 5.1, 144.6, 0.0);
     (565414.2, 4151804.0, 5.1, 144.6, 0.0); (
565414.2, 4151794.0, 5.2, 144.6, 0.0);
     (565414.2, 4151784.0, 5.3, 144.6, 0.0); (
565404.2, 4151974.0, 3.3, 144.6, 0.0);
     (565404.2, 4151964.0, 3.4, 144.6, 0.0); (
565404.2, 4151954.0, 3.4, 144.6, 0.0);
     (565404.2, 4151944.0, 3.5, 144.6, 0.0); (
565404.2, 4151934.0, 3.5, 144.6, 0.0);
     (565404.2, 4151924.0, 3.6, 144.6, 0.0); (
565404.2, 4151914.0, 3.7, 144.6, 0.0);
     (565404.2, 4151904.0, 3.7, 144.6, 0.0); (
565404.2, 4151894.0, 3.8, 144.6, 0.0);
     (565404.2, 4151884.0, 3.8, 144.6, 0.0); (

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565404.2, 4151874.0,       3.9,     144.6,       0.0);
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565404.2, 4151864.0, 4.0, 144.6, 0.0); (565404.2, 4151854.0, 4.1, 144.6, 0.0);
(565404.2, 4151844.0, 4.2, 144.6, 0.0); (565404.2, 4151834.0, 4.5, 144.6, 0.0);
(565404.2, 4151824.0, 4.7, 144.6, 0.0); (565404.2, 4151814.0, 4.9, 144.6, 0.0);
(565404.2, 4151804.0, 5.1, 144.6, 0.0); (565404.2, 4151794.0, 5.3, 144.6, 0.0);
(565404.2, 4151784.0, 5.4, 144.6, 0.0); (565394.2, 4151974.0, 3.5, 144.6, 0.0);
(565394.2, 4151964.0, 3.5, 144.6, 0.0); (565394.2, 4151954.0, 3.5, 144.6, 0.0);
(565394.2, 4151944.0, 3.5, 144.6, 0.0); (565394.2, 4151934.0, 3.6, 144.6, 0.0);
(565394.2, 4151924.0, 3.6, 144.6, 0.0); (565394.2, 4151914.0, 3.6, 144.6, 0.0);
(565394.2, 4151904.0, 3.7, 144.6, 0.0); (565394.2, 4151894.0, 3.8, 144.6, 0.0);
(565394.2, 4151884.0, 3.9, 144.6, 0.0); (565394.2, 4151874.0, 3.9, 144.6, 0.0);
(565394.2, 4151864.0, 4.0, 144.6, 0.0); (565394.2, 4151854.0, 4.0, 144.6, 0.0);
(565394.2, 4151844.0, 4.1, 144.6, 0.0); (565394.2, 4151834.0, 4.3, 144.6, 0.0);
(565394.2, 4151824.0, 4.5, 144.6, 0.0); (565394.2, 4151814.0, 4.7, 144.6, 0.0);
(565394.2, 4151804.0, 5.0, 144.6, 0.0); (565394.2, 4151794.0, 5.3, 144.6, 0.0);
(565394.2, 4151784.0, 5.6, 144.6, 0.0); (565384.2, 4151974.0, 3.6, 144.6, 0.0);
(565384.2, 4151964.0, 3.6, 144.6, 0.0); (565384.2, 4151954.0, 3.6, 144.6, 0.0);
(565384.2, 4151944.0, 3.6, 144.6, 0.0); (565384.2, 4151934.0, 3.6, 144.6, 0.0);
(565384.2, 4151924.0, 3.6, 144.6, 0.0); (565384.2, 4151914.0, 3.6, 144.6, 0.0);
(565384.2, 4151904.0, 3.7, 144.6, 0.0); (

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565384.2, 4151894.0,       3.8,     144.6,       0.0);
     ( 565384.2, 4151884.0,       3.9,     144.6,       0.0);         (
565384.2, 4151874.0,       4.0,     144.6,       0.0);
     ( 565384.2, 4151864.0,       4.0,     144.6,       0.0);         (
565384.2, 4151854.0,       4.0,     144.6,       0.0);
     ( 565384.2, 4151844.0,       4.0,     144.6,       0.0);         (
565384.2, 4151834.0,       4.2,     144.6,       0.0);
     ( 565384.2, 4151824.0,       4.3,     144.6,       0.0);         (
565384.2, 4151814.0,       4.5,     144.6,       0.0);
     ( 565384.2, 4151804.0,       4.9,     144.6,       0.0);         (
565384.2, 4151794.0,       5.2,     144.6,       0.0);
     ( 565384.2, 4151784.0,       5.6,     144.6,       0.0);         (
565374.2, 4151974.0,       3.6,     144.6,       0.0);
     ( 565374.2, 4151964.0,       3.7,     144.6,       0.0);         (
565374.2, 4151954.0,       3.6,     144.6,       0.0);
     ( 565374.2, 4151944.0,       3.6,     144.6,       0.0);         (
565374.2, 4151934.0,       3.6,     144.6,       0.0);
     ( 565374.2, 4151924.0,       3.6,     144.6,       0.0);         (
565374.2, 4151914.0,       3.7,     144.6,       0.0);
     ( 565374.2, 4151904.0,       3.7,     144.6,       0.0);         (
565374.2, 4151894.0,       3.8,     144.6,       0.0);
     ( 565374.2, 4151884.0,       3.8,     144.6,       0.0);         (
565374.2, 4151874.0,       3.9,     144.6,       0.0);
     ( 565374.2, 4151864.0,       4.0,     144.6,       0.0);         (
565374.2, 4151854.0,       4.1,     144.6,       0.0);
     ( 565374.2, 4151844.0,       4.2,     144.6,       0.0);         (
565374.2, 4151834.0,       4.2,     144.6,       0.0);
     ( 565374.2, 4151824.0,       4.3,     144.6,       0.0);         (
565374.2, 4151814.0,       4.4,     144.6,       0.0);
     ( 565374.2, 4151804.0,       4.8,     144.6,       0.0);         (
565374.2, 4151794.0,       5.1,     144.6,       0.0);
     ( 565374.2, 4151784.0,       5.4,     144.6,       0.0);         (
565364.2, 4151974.0,       3.7,     144.6,       0.0);
     ( 565364.2, 4151964.0,       3.7,     144.6,       0.0);         (
565364.2, 4151954.0,       3.7,     144.6,       0.0);
     ( 565364.2, 4151944.0,       3.6,     144.6,       0.0);         (
565364.2, 4151934.0,       3.6,     144.6,       0.0);
     ( 565364.2, 4151924.0,       3.7,     144.6,       0.0);         (
565364.2, 4151914.0,       3.7,     144.6,       0.0);
     ( 565364.2, 4151904.0,       3.7,     144.6,       0.0);         (
565364.2, 4151894.0,       3.7,     144.6,       0.0);
     ( 565364.2, 4151884.0,       3.7,     144.6,       0.0);         (
565364.2, 4151874.0,       3.8,     144.6,       0.0);
     ( 565364.2, 4151864.0,       4.0,     144.6,       0.0);         (
565364.2, 4151854.0,       4.1,     144.6,       0.0);
     ( 565364.2, 4151844.0,       4.3,     144.6,       0.0);         (
565364.2, 4151834.0,       4.3,     144.6,       0.0);
     ( 565364.2, 4151824.0,       4.3,     144.6,       0.0);         (
565364.2, 4151814.0,       4.4,     144.6,       0.0);
     ( 565364.2, 4151804.0,       4.6,     144.6,       0.0);         (
565364.2, 4151794.0,       4.9,     144.6,       0.0);
     ( 565364.2, 4151784.0,       5.2,     144.6,       0.0);         (
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565354.2, 4151974.0,       3.6,     144.6,       0.0);
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565354.2, 4151964.0, 3.6, 144.6, 0.0); (565354.2, 4151954.0, 3.7, 144.6, 0.0);
(565354.2, 4151944.0, 3.7, 144.6, 0.0); (565354.2, 4151934.0, 3.7, 144.6, 0.0);
(565354.2, 4151924.0, 3.7, 144.6, 0.0); (565354.2, 4151914.0, 3.7, 144.6, 0.0);
(565354.2, 4151904.0, 3.7, 144.6, 0.0); (565354.2, 4151894.0, 3.7, 144.6, 0.0);
(565354.2, 4151884.0, 3.8, 144.6, 0.0); (565354.2, 4151874.0, 3.8, 144.6, 0.0);
(565354.2, 4151864.0, 4.0, 144.6, 0.0); (565354.2, 4151854.0, 4.1, 144.6, 0.0);
(565354.2, 4151844.0, 4.2, 144.6, 0.0); (565354.2, 4151834.0, 4.4, 144.6, 0.0);
(565354.2, 4151824.0, 4.5, 144.6, 0.0); (565354.2, 4151814.0, 4.6, 144.6, 0.0);
(565354.2, 4151804.0, 4.8, 144.6, 0.0); (565354.2, 4151794.0, 5.0, 144.6, 0.0);
(565354.2, 4151784.0, 5.2, 144.6, 0.0); (565344.2, 4151974.0, 3.5, 144.6, 0.0);
(565344.2, 4151964.0, 3.6, 144.6, 0.0); (565344.2, 4151954.0, 3.7, 144.6, 0.0);
(565344.2, 4151944.0, 3.7, 144.6, 0.0); (565344.2, 4151934.0, 3.7, 144.6, 0.0);
(565344.2, 4151924.0, 3.7, 144.6, 0.0); (565344.2, 4151914.0, 3.6, 144.6, 0.0);
(565344.2, 4151904.0, 3.6, 144.6, 0.0); (565344.2, 4151894.0, 3.7, 144.6, 0.0);
(565344.2, 4151884.0, 3.8, 144.6, 0.0); (565344.2, 4151874.0, 3.9, 144.6, 0.0);
(565344.2, 4151864.0, 4.0, 144.6, 0.0); (565344.2, 4151854.0, 4.1, 144.6, 0.0);
(565344.2, 4151844.0, 4.2, 144.6, 0.0); (565344.2, 4151834.0, 4.4, 144.6, 0.0);
(565344.2, 4151824.0, 4.6, 144.6, 0.0); (565344.2, 4151814.0, 4.8, 144.6, 0.0);
(565344.2, 4151804.0, 5.0, 144.6, 0.0); (

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565344.2, 4151794.0,       5.1,     144.6,       0.0);
     ( 565344.2, 4151784.0,       5.2,     144.6,       0.0);         (
565334.2, 4151974.0,       3.5,     144.6,       0.0);
     ( 565334.2, 4151964.0,       3.6,     144.6,       0.0);         (
565334.2, 4151954.0,       3.6,     144.6,       0.0);
     ( 565334.2, 4151944.0,       3.7,     144.6,       0.0);         (
565334.2, 4151934.0,       3.8,     144.6,       0.0);
     ( 565334.2, 4151924.0,       3.7,     144.6,       0.0);         (
565334.2, 4151914.0,       3.7,     144.6,       0.0);
     ( 565334.2, 4151904.0,       3.7,     144.6,       0.0);         (
565334.2, 4151894.0,       3.8,     144.6,       0.0);
     ( 565334.2, 4151884.0,       3.8,     144.6,       0.0);         (
565334.2, 4151874.0,       3.9,     144.6,       0.0);
     ( 565334.2, 4151864.0,       4.0,     144.6,       0.0);         (
565334.2, 4151854.0,       4.1,     144.6,       0.0);
     ( 565334.2, 4151844.0,       4.2,     144.6,       0.0);         (
565334.2, 4151834.0,       4.5,     144.6,       0.0);
     ( 565334.2, 4151824.0,       4.7,     144.6,       0.0);         (
565334.2, 4151814.0,       5.0,     144.6,       0.0);
     ( 565334.2, 4151804.0,       5.0,     144.6,       0.0);         (
565334.2, 4151794.0,       5.1,     144.6,       0.0);
     ( 565334.2, 4151784.0,       5.2,     144.6,       0.0);         (
565324.2, 4151974.0,       3.5,     144.6,       0.0);
     ( 565324.2, 4151964.0,       3.6,     144.6,       0.0);         (
565324.2, 4151954.0,       3.6,     144.6,       0.0);
     ( 565324.2, 4151944.0,       3.7,     144.6,       0.0);         (
565324.2, 4151934.0,       3.7,     144.6,       0.0);
     ( 565324.2, 4151924.0,       3.8,     144.6,       0.0);         (
565324.2, 4151914.0,       3.8,     144.6,       0.0);
     ( 565324.2, 4151904.0,       3.8,     144.6,       0.0);         (
565324.2, 4151894.0,       3.9,     144.6,       0.0);
     ( 565324.2, 4151884.0,       3.9,     144.6,       0.0);         (
565324.2, 4151874.0,       3.9,     144.6,       0.0);
     ( 565324.2, 4151864.0,       4.0,     144.6,       0.0);         (
565324.2, 4151854.0,       4.1,     144.6,       0.0);
     ( 565324.2, 4151844.0,       4.3,     144.6,       0.0);         (
565324.2, 4151834.0,       4.5,     144.6,       0.0);
     ( 565324.2, 4151824.0,       4.7,     144.6,       0.0);         (
565324.2, 4151814.0,       4.9,     144.6,       0.0);
     ( 565324.2, 4151804.0,       5.0,     144.6,       0.0);         (
565324.2, 4151794.0,       5.1,     144.6,       0.0);
     ( 565324.2, 4151784.0,       5.2,     144.6,       0.0);         (
565314.2, 4151974.0,       3.6,     144.6,       0.0);
     ( 565314.2, 4151964.0,       3.6,     144.6,       0.0);         (
565314.2, 4151954.0,       3.6,     144.6,       0.0);
     ( 565314.2, 4151944.0,       3.6,     144.6,       0.0);         (
565314.2, 4151934.0,       3.7,     144.6,       0.0);
     ( 565314.2, 4151924.0,       3.8,     144.6,       0.0);         (
565314.2, 4151914.0,       3.9,     144.6,       0.0);
     ( 565314.2, 4151904.0,       4.0,     144.6,       0.0);         (
565314.2, 4151894.0,       4.0,     144.6,       0.0);
     ( 565314.2, 4151884.0,       3.9,     144.6,       0.0);         (
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565314.2, 4151874.0,       3.9,     144.6,       0.0);
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565314.2, 4151864.0, 4.1, 144.6, 0.0); (565314.2, 4151854.0, 4.2, 144.6, 0.0);
(565314.2, 4151844.0, 4.3, 144.6, 0.0); (565314.2, 4151834.0, 4.5, 144.6, 0.0);
(565314.2, 4151824.0, 4.7, 144.6, 0.0); (565314.2, 4151814.0, 4.9, 144.6, 0.0);
(565314.2, 4151804.0, 5.0, 144.6, 0.0); (565314.2, 4151794.0, 5.1, 144.6, 0.0);
(565314.2, 4151784.0, 5.2, 144.6, 0.0); (565304.2, 4151974.0, 3.5, 144.6, 0.0);
(565304.2, 4151964.0, 3.5, 144.6, 0.0); (565304.2, 4151954.0, 3.6, 144.6, 0.0);
(565304.2, 4151944.0, 3.6, 144.6, 0.0); (565304.2, 4151934.0, 3.7, 144.6, 0.0);
(565304.2, 4151924.0, 3.8, 144.6, 0.0); (565304.2, 4151914.0, 3.9, 144.6, 0.0);
(565304.2, 4151904.0, 4.0, 144.6, 0.0); (565304.2, 4151894.0, 4.0, 144.6, 0.0);
(565304.2, 4151884.0, 4.1, 144.6, 0.0); (565304.2, 4151874.0, 4.1, 144.6, 0.0);
(565304.2, 4151864.0, 4.2, 144.6, 0.0); (565304.2, 4151854.0, 4.3, 144.6, 0.0);
(565304.2, 4151844.0, 4.4, 144.6, 0.0); (565304.2, 4151834.0, 4.6, 144.6, 0.0);
(565304.2, 4151824.0, 4.7, 144.6, 0.0); (565304.2, 4151814.0, 4.9, 144.6, 0.0);
(565304.2, 4151804.0, 5.1, 144.6, 0.0); (565304.2, 4151794.0, 5.2, 144.6, 0.0);
(565304.2, 4151784.0, 5.4, 144.6, 0.0); (565294.2, 4151974.0, 3.5, 144.6, 0.0);
(565294.2, 4151964.0, 3.5, 144.6, 0.0); (565294.2, 4151954.0, 3.6, 144.6, 0.0);
(565294.2, 4151944.0, 3.7, 144.6, 0.0); (565294.2, 4151934.0, 3.7, 144.6, 0.0);
(565294.2, 4151924.0, 3.8, 144.6, 0.0); (565294.2, 4151914.0, 3.8, 144.6, 0.0);
(565294.2, 4151904.0, 3.9, 144.6, 0.0); (

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565294.2, 4151894.0,       4.1,     144.6,       0.0);
     ( 565294.2, 4151884.0,       4.2,     144.6,       0.0);         (
565294.2, 4151874.0,       4.3,     144.6,       0.0);
     ( 565294.2, 4151864.0,       4.4,     144.6,       0.0);         (
565294.2, 4151854.0,       4.5,     144.6,       0.0);
     ( 565294.2, 4151844.0,       4.5,     144.6,       0.0);         (
565294.2, 4151834.0,       4.7,     144.6,       0.0);
     ( 565294.2, 4151824.0,       4.8,     144.6,       0.0);         (
565294.2, 4151814.0,       4.9,     144.6,       0.0);
     ( 565294.2, 4151804.0,       5.2,     144.6,       0.0);         (
565294.2, 4151794.0,       5.4,     144.6,       0.0);
     ( 565294.2, 4151784.0,       5.6,     144.6,       0.0);         (
565284.2, 4151974.0,       3.5,     144.6,       0.0);
     ( 565284.2, 4151964.0,       3.5,     144.6,       0.0);         (
565284.2, 4151954.0,       3.6,     144.6,       0.0);
     ( 565284.2, 4151944.0,       3.6,     144.6,       0.0);         (
565284.2, 4151934.0,       3.7,     144.6,       0.0);
     ( 565284.2, 4151924.0,       3.8,     144.6,       0.0);         (
565284.2, 4151914.0,       3.8,     144.6,       0.0);
     ( 565284.2, 4151904.0,       3.9,     144.6,       0.0);         (
565284.2, 4151894.0,       4.1,     144.6,       0.0);
     ( 565284.2, 4151884.0,       4.3,     144.6,       0.0);         (
565284.2, 4151874.0,       4.4,     144.6,       0.0);
     ( 565284.2, 4151864.0,       4.5,     144.6,       0.0);         (
565284.2, 4151854.0,       4.6,     144.6,       0.0);
     ( 565284.2, 4151844.0,       4.6,     144.6,       0.0);         (
565284.2, 4151834.0,       4.8,     144.6,       0.0);
     ( 565284.2, 4151824.0,       4.9,     144.6,       0.0);         (
565284.2, 4151814.0,       5.0,     144.6,       0.0);
     ( 565284.2, 4151804.0,       5.2,     144.6,       0.0);         (
565284.2, 4151794.0,       5.5,     144.6,       0.0);
     ( 565284.2, 4151784.0,       5.7,     144.6,       0.0);         (
565274.2, 4151974.0,       3.6,     144.6,       0.0);
     ( 565274.2, 4151964.0,       3.6,     144.6,       0.0);         (
565274.2, 4151954.0,       3.6,     144.6,       0.0);
     ( 565274.2, 4151944.0,       3.6,     144.6,       0.0);         (
565274.2, 4151934.0,       3.6,     144.6,       0.0);
     ( 565274.2, 4151924.0,       3.7,     144.6,       0.0);         (
565274.2, 4151914.0,       3.8,     144.6,       0.0);
     ( 565274.2, 4151904.0,       3.9,     144.6,       0.0);         (
565274.2, 4151894.0,       4.1,     144.6,       0.0);
     ( 565274.2, 4151884.0,       4.3,     144.6,       0.0);         (
565274.2, 4151874.0,       4.4,     144.6,       0.0);
     ( 565274.2, 4151864.0,       4.5,     144.6,       0.0);         (
565274.2, 4151854.0,       4.6,     144.6,       0.0);
     ( 565274.2, 4151844.0,       4.7,     144.6,       0.0);         (
565274.2, 4151834.0,       4.9,     144.6,       0.0);
     ( 565274.2, 4151824.0,       5.0,     144.6,       0.0);         (
565274.2, 4151814.0,       5.1,     144.6,       0.0);
     ( 565274.2, 4151804.0,       5.3,     144.6,       0.0);         (
565274.2, 4151794.0,       5.4,     144.6,       0.0);
     ( 565274.2, 4151784.0,       5.6,     144.6,       0.0);         (
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565264.2, 4151974.0,       3.7,     144.6,       0.0);
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565264.2, 4151964.0, 3.7, 144.6, 0.0); (565264.2, 4151954.0, 3.6, 144.6, 0.0);
(565264.2, 4151944.0, 3.5, 144.6, 0.0); (565264.2, 4151934.0, 3.5, 144.6, 0.0);
(565264.2, 4151924.0, 3.7, 144.6, 0.0); (565264.2, 4151914.0, 3.8, 144.6, 0.0);
(565264.2, 4151904.0, 3.9, 144.6, 0.0); (565264.2, 4151894.0, 4.1, 144.6, 0.0);
(565264.2, 4151884.0, 4.3, 144.6, 0.0); (565264.2, 4151874.0, 4.4, 144.6, 0.0);
(565264.2, 4151864.0, 4.5, 144.6, 0.0); (565264.2, 4151854.0, 4.7, 144.6, 0.0);
(565264.2, 4151844.0, 4.8, 144.6, 0.0); (565264.2, 4151834.0, 5.0, 144.6, 0.0);
(565264.2, 4151824.0, 5.1, 144.6, 0.0); (565264.2, 4151814.0, 5.2, 144.6, 0.0);
(565264.2, 4151804.0, 5.3, 144.6, 0.0); (565264.2, 4151794.0, 5.4, 144.6, 0.0);
(565264.2, 4151784.0, 5.5, 144.6, 0.0); (565454.2, 4151984.0, 3.0, 144.6, 0.0);
(565454.2, 4151994.0, 2.8, 144.6, 0.0); (565454.2, 4152004.0, 2.6, 144.6, 0.0);
(565454.2, 4152014.0, 2.7, 144.6, 0.0); (565454.2, 4152024.0, 2.8, 144.6, 0.0);
(565454.2, 4152034.0, 2.8, 144.6, 0.0); (565454.2, 4152044.0, 2.8, 144.6, 0.0);
(565454.2, 4152054.0, 2.8, 144.6, 0.0); (565454.2, 4152064.0, 2.8, 144.6, 0.0);
(565454.2, 4152074.0, 2.9, 144.6, 0.0); (565454.2, 4152084.0, 2.9, 144.6, 0.0);
(565454.2, 4152094.0, 3.0, 144.6, 0.0); (565454.2, 4152104.0, 3.0, 144.6, 0.0);
(565454.2, 4152114.0, 3.1, 144.6, 0.0); (565454.2, 4152124.0, 3.1, 144.6, 0.0);
(565454.2, 4152134.0, 3.1, 144.6, 0.0); (565454.2, 4152144.0, 3.1, 144.6, 0.0);
(565454.2, 4152154.0, 3.1, 144.6, 0.0); (

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565454.2, 4152164.0,       3.1,     144.6,       0.0);
     ( 565454.2, 4152174.0,       3.1,     144.6,       0.0);         (
565454.2, 4152184.0,       3.1,     144.6,       0.0);
     ( 565454.2, 4152194.0,       3.2,       3.2,       0.0);         (
565454.2, 4152204.0,       3.4,       3.4,       0.0);
     ( 565454.2, 4152214.0,       3.6,       3.6,       0.0);         (
565454.2, 4152224.0,       3.7,       3.7,       0.0);
     ( 565454.2, 4152234.0,       3.7,       3.7,       0.0);         (
565454.2, 4152244.0,       3.7,       3.7,       0.0);
     ( 565454.2, 4152254.0,       3.7,       3.7,       0.0);         (
565454.2, 4152264.0,       3.6,       3.6,       0.0);
     ( 565454.2, 4152274.0,       3.5,       3.5,       0.0);         (
565454.2, 4152284.0,       3.4,       3.4,       0.0);
     ( 565444.2, 4151984.0,       3.0,     144.6,       0.0);         (
565444.2, 4151994.0,       2.8,     144.6,       0.0);
     ( 565444.2, 4152004.0,       2.7,     144.6,       0.0);         (
565444.2, 4152014.0,       2.8,     144.6,       0.0);
     ( 565444.2, 4152024.0,       2.8,     144.6,       0.0);         (
565444.2, 4152034.0,       2.9,     144.6,       0.0);
     ( 565444.2, 4152044.0,       2.9,     144.6,       0.0);         (
565444.2, 4152054.0,       2.9,     144.6,       0.0);
     ( 565444.2, 4152064.0,       2.9,     144.6,       0.0);         (
565444.2, 4152074.0,       2.9,     144.6,       0.0);
     ( 565444.2, 4152084.0,       2.9,     144.6,       0.0);         (
565444.2, 4152094.0,       2.9,     144.6,       0.0);
     ( 565444.2, 4152104.0,       3.0,     144.6,       0.0);         (
565444.2, 4152114.0,       3.1,     144.6,       0.0);
     ( 565444.2, 4152124.0,       3.1,     144.6,       0.0);         (
565444.2, 4152134.0,       3.2,     144.6,       0.0);
     ( 565444.2, 4152144.0,       3.2,     144.6,       0.0);         (
565444.2, 4152154.0,       3.2,     144.6,       0.0);
     ( 565444.2, 4152164.0,       3.2,     144.6,       0.0);         (
565444.2, 4152174.0,       3.1,     144.6,       0.0);
     ( 565444.2, 4152184.0,       3.1,     144.6,       0.0);         (
565444.2, 4152194.0,       3.2,     144.6,       0.0);
     ( 565444.2, 4152204.0,       3.3,     144.6,       0.0);         (
565444.2, 4152214.0,       3.4,       3.4,       0.0);
     ( 565444.2, 4152224.0,       3.5,       3.5,       0.0);         (
565444.2, 4152234.0,       3.6,       3.6,       0.0);
     ( 565444.2, 4152244.0,       3.7,       3.7,       0.0);         (
565444.2, 4152254.0,       3.6,       3.6,       0.0);
     ( 565444.2, 4152264.0,       3.5,       3.5,       0.0);         (
565444.2, 4152274.0,       3.3,       3.3,       0.0);
     ( 565444.2, 4152284.0,       3.3,       3.3,       0.0);         (
565434.2, 4151984.0,       3.0,     144.6,       0.0);
     ( 565434.2, 4151994.0,       2.9,     144.6,       0.0);         (
565434.2, 4152004.0,       2.8,     144.6,       0.0);
     ( 565434.2, 4152014.0,       2.9,     144.6,       0.0);         (
565434.2, 4152024.0,       2.9,     144.6,       0.0);
     ( 565434.2, 4152034.0,       2.9,     144.6,       0.0);         (
565434.2, 4152044.0,       2.9,     144.6,       0.0);
     ( 565434.2, 4152054.0,       2.9,     144.6,       0.0);         (
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565434.2, 4152064.0,       3.0,     144.6,       0.0);
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565434.2, 4152074.0, 2.9, 144.6, 0.0); (565434.2, 4152084.0, 2.9, 144.6, 0.0);
(565434.2, 4152094.0, 2.8, 144.6, 0.0); (565434.2, 4152104.0, 2.9, 144.6, 0.0);
(565434.2, 4152114.0, 3.0, 144.6, 0.0); (565434.2, 4152124.0, 3.1, 144.6, 0.0);
(565434.2, 4152134.0, 3.2, 144.6, 0.0); (565434.2, 4152144.0, 3.2, 144.6, 0.0);
(565434.2, 4152154.0, 3.3, 144.6, 0.0); (565434.2, 4152164.0, 3.2, 144.6, 0.0);
(565434.2, 4152174.0, 3.2, 144.6, 0.0); (565434.2, 4152184.0, 3.1, 144.6, 0.0);
(565434.2, 4152194.0, 3.2, 144.6, 0.0); (565434.2, 4152204.0, 3.2, 144.6, 0.0);
(565434.2, 4152214.0, 3.2, 144.6, 0.0); (565434.2, 4152224.0, 3.4, 144.6, 0.0);
(565434.2, 4152234.0, 3.5, 3.5, 0.0); (565434.2, 4152244.0, 3.6, 3.6, 0.0);
(565434.2, 4152254.0, 3.5, 3.5, 0.0); (565434.2, 4152264.0, 3.4, 3.4, 0.0);
(565434.2, 4152274.0, 3.2, 3.2, 0.0); (565434.2, 4152284.0, 3.1, 3.1, 0.0);
(565424.2, 4151984.0, 3.1, 144.6, 0.0); (565424.2, 4151994.0, 3.1, 144.6, 0.0);
(565424.2, 4152004.0, 3.1, 144.6, 0.0); (565424.2, 4152014.0, 3.0, 144.6, 0.0);
(565424.2, 4152024.0, 2.9, 144.6, 0.0); (565424.2, 4152034.0, 2.9, 144.6, 0.0);
(565424.2, 4152044.0, 2.9, 144.6, 0.0); (565424.2, 4152054.0, 2.9, 144.6, 0.0);
(565424.2, 4152064.0, 3.0, 144.6, 0.0); (565424.2, 4152074.0, 3.0, 144.6, 0.0);
(565424.2, 4152084.0, 2.9, 144.6, 0.0); (565424.2, 4152094.0, 2.9, 144.6, 0.0);
(565424.2, 4152104.0, 3.0, 144.6, 0.0); (565424.2, 4152114.0, 3.0, 144.6, 0.0);
(565424.2, 4152124.0, 3.0, 144.6, 0.0); (

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565424.2, 4152134.0,       3.1,     144.6,       0.0);
     ( 565424.2, 4152144.0,       3.1,     144.6,       0.0);         (
565424.2, 4152154.0,       3.2,     144.6,       0.0);
     ( 565424.2, 4152164.0,       3.2,     144.6,       0.0);         (
565424.2, 4152174.0,       3.2,     144.6,       0.0);
     ( 565424.2, 4152184.0,       3.2,     144.6,       0.0);         (
565424.2, 4152194.0,       3.2,     144.6,       0.0);
     ( 565424.2, 4152204.0,       3.2,     144.6,       0.0);         (
565424.2, 4152214.0,       3.2,     144.6,       0.0);
     ( 565424.2, 4152224.0,       3.3,     144.6,       0.0);         (
565424.2, 4152234.0,       3.4,     144.6,       0.0);
     ( 565424.2, 4152244.0,       3.5,     144.6,       0.0);         (
565424.2, 4152254.0,       3.5,       3.5,       0.0);
     ( 565424.2, 4152264.0,       3.3,       3.3,       0.0);         (
565424.2, 4152274.0,       3.2,       3.2,       0.0);
     ( 565424.2, 4152284.0,       3.1,       3.1,       0.0);         (
565414.2, 4151984.0,       3.3,     144.6,       0.0);
     ( 565414.2, 4151994.0,       3.3,     144.6,       0.0);         (
565414.2, 4152004.0,       3.3,     144.6,       0.0);
     ( 565414.2, 4152014.0,       3.1,     144.6,       0.0);         (
565414.2, 4152024.0,       3.0,     144.6,       0.0);
     ( 565414.2, 4152034.0,       2.9,     144.6,       0.0);         (
565414.2, 4152044.0,       2.9,     144.6,       0.0);
     ( 565414.2, 4152054.0,       2.9,     144.6,       0.0);         (
565414.2, 4152064.0,       3.0,     144.6,       0.0);
     ( 565414.2, 4152074.0,       3.0,     144.6,       0.0);         (
565414.2, 4152084.0,       3.0,     144.6,       0.0);
     ( 565414.2, 4152094.0,       3.1,     144.6,       0.0);         (
565414.2, 4152104.0,       3.0,     144.6,       0.0);
     ( 565414.2, 4152114.0,       2.9,     144.6,       0.0);         (
565414.2, 4152124.0,       2.8,     144.6,       0.0);
     ( 565414.2, 4152134.0,       2.9,     144.6,       0.0);         (
565414.2, 4152144.0,       3.0,     144.6,       0.0);
     ( 565414.2, 4152154.0,       3.1,     144.6,       0.0);         (
565414.2, 4152164.0,       3.2,     144.6,       0.0);
     ( 565414.2, 4152174.0,       3.2,     144.6,       0.0);         (
565414.2, 4152184.0,       3.3,     144.6,       0.0);
     ( 565414.2, 4152194.0,       3.3,     144.6,       0.0);         (
565414.2, 4152204.0,       3.3,     144.6,       0.0);
     ( 565414.2, 4152214.0,       3.2,     144.6,       0.0);         (
565414.2, 4152224.0,       3.3,     144.6,       0.0);
     ( 565414.2, 4152234.0,       3.4,     144.6,       0.0);         (
565414.2, 4152244.0,       3.5,     144.6,       0.0);
     ( 565414.2, 4152254.0,       3.4,     144.6,       0.0);         (
565414.2, 4152264.0,       3.3,     144.6,       0.0);
     ( 565414.2, 4152274.0,       3.2,     144.6,       0.0);         (
565414.2, 4152284.0,       3.2,       3.2,       0.0);
     ( 565404.2, 4151984.0,       3.4,     144.6,       0.0);         (
565404.2, 4151994.0,       3.4,     144.6,       0.0);
     ( 565404.2, 4152004.0,       3.4,     144.6,       0.0);         (
565404.2, 4152014.0,       3.2,     144.6,       0.0);
     ( 565404.2, 4152024.0,       2.9,     144.6,       0.0);         (
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565404.2, 4152034.0,       2.8,     144.6,       0.0);
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565404.2, 4152044.0, 2.9, 144.6, 0.0); (565404.2, 4152054.0, 2.9, 144.6, 0.0);
(565404.2, 4152064.0, 3.0, 144.6, 0.0); (565404.2, 4152074.0, 3.0, 144.6, 0.0);
(565404.2, 4152084.0, 3.1, 144.6, 0.0); (565404.2, 4152094.0, 3.1, 144.6, 0.0);
(565404.2, 4152104.0, 3.0, 144.6, 0.0); (565404.2, 4152114.0, 2.9, 144.6, 0.0);
(565404.2, 4152124.0, 2.9, 144.6, 0.0); (565404.2, 4152134.0, 2.9, 144.6, 0.0);
(565404.2, 4152144.0, 2.9, 144.6, 0.0); (565404.2, 4152154.0, 3.0, 144.6, 0.0);
(565404.2, 4152164.0, 3.1, 144.6, 0.0); (565404.2, 4152174.0, 3.2, 144.6, 0.0);
(565404.2, 4152184.0, 3.3, 144.6, 0.0); (565404.2, 4152194.0, 3.3, 144.6, 0.0);
(565404.2, 4152204.0, 3.3, 144.6, 0.0); (565404.2, 4152214.0, 3.3, 144.6, 0.0);
(565404.2, 4152224.0, 3.3, 144.6, 0.0); (565404.2, 4152234.0, 3.4, 144.6, 0.0);
(565404.2, 4152244.0, 3.4, 144.6, 0.0); (565404.2, 4152254.0, 3.3, 144.6, 0.0);
(565404.2, 4152264.0, 3.2, 144.6, 0.0); (565404.2, 4152274.0, 3.1, 144.6, 0.0);
(565404.2, 4152284.0, 3.1, 144.6, 0.0); (565394.2, 4151984.0, 3.5, 144.6, 0.0);
(565394.2, 4151994.0, 3.5, 144.6, 0.0); (565394.2, 4152004.0, 3.4, 144.6, 0.0);
(565394.2, 4152014.0, 3.1, 144.6, 0.0); (565394.2, 4152024.0, 2.8, 144.6, 0.0);
(565394.2, 4152034.0, 2.6, 144.6, 0.0); (565394.2, 4152044.0, 2.8, 144.6, 0.0);
(565394.2, 4152054.0, 2.9, 144.6, 0.0); (565394.2, 4152064.0, 3.0, 144.6, 0.0);
(565394.2, 4152074.0, 3.0, 144.6, 0.0); (565394.2, 4152084.0, 3.0, 144.6, 0.0);
(565394.2, 4152094.0, 3.0, 144.6, 0.0); (

565394.2, 4152104.0, 3.0, 144.6, 0.0);
(565394.2, 4152114.0, 3.0, 144.6, 0.0); (
565394.2, 4152124.0, 3.0, 144.6, 0.0);
(565394.2, 4152134.0, 3.0, 144.6, 0.0); (
565394.2, 4152144.0, 2.9, 144.6, 0.0);
(565394.2, 4152154.0, 2.8, 144.6, 0.0); (
565394.2, 4152164.0, 3.0, 144.6, 0.0);
(565394.2, 4152174.0, 3.1, 144.6, 0.0); (
565394.2, 4152184.0, 3.2, 144.6, 0.0);
(565394.2, 4152194.0, 3.3, 144.6, 0.0); (
565394.2, 4152204.0, 3.3, 144.6, 0.0);
(565394.2, 4152214.0, 3.3, 144.6, 0.0); (
565394.2, 4152224.0, 3.4, 144.6, 0.0);
(565394.2, 4152234.0, 3.4, 144.6, 0.0); (
565394.2, 4152244.0, 3.4, 144.6, 0.0);
(565394.2, 4152254.0, 3.3, 144.6, 0.0); (
565394.2, 4152264.0, 3.1, 144.6, 0.0);
(565394.2, 4152274.0, 3.0, 144.6, 0.0); (
565394.2, 4152284.0, 3.0, 144.6, 0.0);
(565384.2, 4151984.0, 3.6, 144.6, 0.0); (
565384.2, 4151994.0, 3.5, 144.6, 0.0);
(565384.2, 4152004.0, 3.4, 144.6, 0.0); (
565384.2, 4152014.0, 3.1, 144.6, 0.0);
(565384.2, 4152024.0, 2.7, 144.6, 0.0); (
565384.2, 4152034.0, 2.5, 144.6, 0.0);
(565384.2, 4152044.0, 2.7, 144.6, 0.0); (
565384.2, 4152054.0, 2.9, 144.6, 0.0);
(565384.2, 4152064.0, 3.1, 144.6, 0.0); (
565384.2, 4152074.0, 3.0, 144.6, 0.0);
(565384.2, 4152084.0, 3.0, 144.6, 0.0); (
565384.2, 4152094.0, 3.0, 144.6, 0.0);
(565384.2, 4152104.0, 3.1, 144.6, 0.0); (
565384.2, 4152114.0, 3.1, 144.6, 0.0);
(565384.2, 4152124.0, 3.2, 144.6, 0.0); (
565384.2, 4152134.0, 3.0, 144.6, 0.0);
(565384.2, 4152144.0, 2.9, 144.6, 0.0); (
565384.2, 4152154.0, 2.7, 144.6, 0.0);
(565384.2, 4152164.0, 2.8, 144.6, 0.0); (
565384.2, 4152174.0, 3.0, 144.6, 0.0);
(565384.2, 4152184.0, 3.2, 144.6, 0.0); (
565384.2, 4152194.0, 3.2, 144.6, 0.0);
(565384.2, 4152204.0, 3.3, 144.6, 0.0); (
565384.2, 4152214.0, 3.4, 144.6, 0.0);
(565384.2, 4152224.0, 3.4, 144.6, 0.0); (
565384.2, 4152234.0, 3.4, 144.6, 0.0);
(565384.2, 4152244.0, 3.4, 144.6, 0.0); (
565384.2, 4152254.0, 3.2, 144.6, 0.0);
(565384.2, 4152264.0, 3.0, 144.6, 0.0); (
565384.2, 4152274.0, 2.8, 144.6, 0.0);
(565384.2, 4152284.0, 2.8, 144.6, 0.0); (
565374.2, 4151984.0, 3.6, 144.6, 0.0);
(565374.2, 4151994.0, 3.5, 144.6, 0.0); (

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565374.2, 4152004.0,       3.4,     144.6,       0.0);
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565374.2, 4152014.0, 3.1, 144.6, 0.0); (565374.2, 4152024.0, 2.8, 144.6, 0.0);
(565374.2, 4152034.0, 2.6, 144.6, 0.0); (565374.2, 4152044.0, 2.8, 144.6, 0.0);
(565374.2, 4152054.0, 2.9, 144.6, 0.0); (565374.2, 4152064.0, 3.0, 144.6, 0.0);
(565374.2, 4152074.0, 3.1, 144.6, 0.0); (565374.2, 4152084.0, 3.1, 144.6, 0.0);
(565374.2, 4152094.0, 3.1, 144.6, 0.0); (565374.2, 4152104.0, 3.1, 144.6, 0.0);
(565374.2, 4152114.0, 3.1, 144.6, 0.0); (565374.2, 4152124.0, 3.2, 144.6, 0.0);
(565374.2, 4152134.0, 3.1, 144.6, 0.0); (565374.2, 4152144.0, 3.0, 144.6, 0.0);
(565374.2, 4152154.0, 3.0, 144.6, 0.0); (565374.2, 4152164.0, 3.0, 144.6, 0.0);
(565374.2, 4152174.0, 3.0, 144.6, 0.0); (565374.2, 4152184.0, 3.0, 144.6, 0.0);
(565374.2, 4152194.0, 3.1, 144.6, 0.0); (565374.2, 4152204.0, 3.2, 144.6, 0.0);
(565374.2, 4152214.0, 3.3, 144.6, 0.0); (565374.2, 4152224.0, 3.3, 144.6, 0.0);
(565374.2, 4152234.0, 3.4, 144.6, 0.0); (565374.2, 4152244.0, 3.4, 144.6, 0.0);
(565374.2, 4152254.0, 3.1, 144.6, 0.0); (565374.2, 4152264.0, 2.8, 144.6, 0.0);
(565374.2, 4152274.0, 2.4, 144.6, 0.0); (565374.2, 4152284.0, 2.4, 144.6, 0.0);
(565364.2, 4151984.0, 3.6, 144.6, 0.0); (565364.2, 4151994.0, 3.5, 144.6, 0.0);
(565364.2, 4152004.0, 3.3, 144.6, 0.0); (565364.2, 4152014.0, 3.1, 144.6, 0.0);
(565364.2, 4152024.0, 2.9, 144.6, 0.0); (565364.2, 4152034.0, 2.7, 144.6, 0.0);
(565364.2, 4152044.0, 2.8, 144.6, 0.0); (565364.2, 4152054.0, 2.9, 144.6, 0.0);
(565364.2, 4152064.0, 3.0, 144.6, 0.0); (

```
565364.2, 4152074.0,       3.1,     144.6,       0.0);
     ( 565364.2, 4152084.0,       3.1,     144.6,       0.0);         (
565364.2, 4152094.0,       3.2,     144.6,       0.0);
     ( 565364.2, 4152104.0,       3.1,     144.6,       0.0);         (
565364.2, 4152114.0,       3.1,     144.6,       0.0);
     ( 565364.2, 4152124.0,       3.1,     144.6,       0.0);         (
565364.2, 4152134.0,       3.1,     144.6,       0.0);
     ( 565364.2, 4152144.0,       3.2,     144.6,       0.0);         (
565364.2, 4152154.0,       3.2,     144.6,       0.0);
     ( 565364.2, 4152164.0,       3.1,     144.6,       0.0);         (
565364.2, 4152174.0,       3.0,     144.6,       0.0);
     ( 565364.2, 4152184.0,       2.9,     144.6,       0.0);         (
565364.2, 4152194.0,       3.0,     144.6,       0.0);
     ( 565364.2, 4152204.0,       3.1,     144.6,       0.0);         (
565364.2, 4152214.0,       3.1,     144.6,       0.0);
     ( 565364.2, 4152224.0,       3.2,     144.6,       0.0);         (
565364.2, 4152234.0,       3.3,     144.6,       0.0);
     ( 565364.2, 4152244.0,       3.4,     144.6,       0.0);         (
565364.2, 4152254.0,       3.0,     144.6,       0.0);
     ( 565364.2, 4152264.0,       2.5,     144.6,       0.0);         (
565364.2, 4152274.0,       1.9,     144.6,       0.0);
     ( 565364.2, 4152284.0,       2.0,     144.6,       0.0);         (
565354.2, 4151984.0,       3.5,     144.6,       0.0);
     ( 565354.2, 4151994.0,       3.4,     144.6,       0.0);         (
565354.2, 4152004.0,       3.3,     144.6,       0.0);
     ( 565354.2, 4152014.0,       3.1,     144.6,       0.0);         (
565354.2, 4152024.0,       3.0,     144.6,       0.0);
     ( 565354.2, 4152034.0,       2.9,     144.6,       0.0);         (
565354.2, 4152044.0,       3.0,     144.6,       0.0);
     ( 565354.2, 4152054.0,       3.0,     144.6,       0.0);         (
565354.2, 4152064.0,       3.1,     144.6,       0.0);
     ( 565354.2, 4152074.0,       3.1,     144.6,       0.0);         (
565354.2, 4152084.0,       3.1,     144.6,       0.0);
     ( 565354.2, 4152094.0,       3.2,     144.6,       0.0);         (
565354.2, 4152104.0,       3.2,     144.6,       0.0);
     ( 565354.2, 4152114.0,       3.2,     144.6,       0.0);         (
565354.2, 4152124.0,       3.2,     144.6,       0.0);
     ( 565354.2, 4152134.0,       3.2,     144.6,       0.0);         (
565354.2, 4152144.0,       3.3,     144.6,       0.0);
     ( 565354.2, 4152154.0,       3.3,     144.6,       0.0);         (
565354.2, 4152164.0,       3.2,     144.6,       0.0);
     ( 565354.2, 4152174.0,       3.1,     144.6,       0.0);         (
565354.2, 4152184.0,       3.0,     144.6,       0.0);
     ( 565354.2, 4152194.0,       3.0,     144.6,       0.0);         (
565354.2, 4152204.0,       3.0,     144.6,       0.0);
     ( 565354.2, 4152214.0,       3.0,     144.6,       0.0);         (
565354.2, 4152224.0,       3.1,     144.6,       0.0);
     ( 565354.2, 4152234.0,       3.2,     144.6,       0.0);         (
565354.2, 4152244.0,       3.3,     144.6,       0.0);
     ( 565354.2, 4152254.0,       3.1,     144.6,       0.0);         (
565354.2, 4152264.0,       2.8,     144.6,       0.0);
     ( 565354.2, 4152274.0,       2.4,     144.6,       0.0);         (
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565354.2, 4152284.0,       2.4,     144.6,       0.0);
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565344.2, 4151984.0, 3.4, 144.6, 0.0); (565344.2, 4151994.0, 3.3, 144.6, 0.0);
(565344.2, 4152004.0, 3.3, 144.6, 0.0); (565344.2, 4152014.0, 3.2, 144.6, 0.0);
(565344.2, 4152024.0, 3.2, 144.6, 0.0); (565344.2, 4152034.0, 3.1, 144.6, 0.0);
(565344.2, 4152044.0, 3.1, 144.6, 0.0); (565344.2, 4152054.0, 3.1, 144.6, 0.0);
(565344.2, 4152064.0, 3.1, 144.6, 0.0); (565344.2, 4152074.0, 3.1, 144.6, 0.0);
(565344.2, 4152084.0, 3.1, 144.6, 0.0); (565344.2, 4152094.0, 3.1, 144.6, 0.0);
(565344.2, 4152104.0, 3.2, 144.6, 0.0); (565344.2, 4152114.0, 3.3, 144.6, 0.0);
(565344.2, 4152124.0, 3.3, 144.6, 0.0); (565344.2, 4152134.0, 3.3, 144.6, 0.0);
(565344.2, 4152144.0, 3.3, 144.6, 0.0); (565344.2, 4152154.0, 3.3, 144.6, 0.0);
(565344.2, 4152164.0, 3.2, 144.6, 0.0); (565344.2, 4152174.0, 3.2, 144.6, 0.0);
(565344.2, 4152184.0, 3.2, 144.6, 0.0); (565344.2, 4152194.0, 3.1, 144.6, 0.0);
(565344.2, 4152204.0, 3.0, 144.6, 0.0); (565344.2, 4152214.0, 3.0, 144.6, 0.0);
(565344.2, 4152224.0, 3.0, 144.6, 0.0); (565344.2, 4152234.0, 3.1, 144.6, 0.0);
(565344.2, 4152244.0, 3.2, 144.6, 0.0); (565344.2, 4152254.0, 3.4, 144.6, 0.0);
(565344.2, 4152264.0, 3.7, 144.6, 0.0); (565344.2, 4152274.0, 3.9, 144.6, 0.0);
(565344.2, 4152284.0, 3.8, 144.6, 0.0); (565334.2, 4151984.0, 3.4, 144.6, 0.0);
(565334.2, 4151994.0, 3.3, 144.6, 0.0); (565334.2, 4152004.0, 3.3, 144.6, 0.0);
(565334.2, 4152014.0, 3.3, 144.6, 0.0); (565334.2, 4152024.0, 3.3, 144.6, 0.0);
(565334.2, 4152034.0, 3.3, 144.6, 0.0); (

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565334.2, 4152044.0,       3.2,     144.6,       0.0);
     ( 565334.2, 4152054.0,       3.2,     144.6,       0.0);         (
565334.2, 4152064.0,       3.1,     144.6,       0.0);
     ( 565334.2, 4152074.0,       3.1,     144.6,       0.0);         (
565334.2, 4152084.0,       3.1,     144.6,       0.0);
     ( 565334.2, 4152094.0,       3.1,     144.6,       0.0);         (
565334.2, 4152104.0,       3.2,     144.6,       0.0);
     ( 565334.2, 4152114.0,       3.3,     144.6,       0.0);         (
565334.2, 4152124.0,       3.5,     144.6,       0.0);
     ( 565334.2, 4152134.0,       3.4,     144.6,       0.0);         (
565334.2, 4152144.0,       3.3,     144.6,       0.0);
     ( 565334.2, 4152154.0,       3.3,     144.6,       0.0);         (
565334.2, 4152164.0,       3.3,     144.6,       0.0);
     ( 565334.2, 4152174.0,       3.3,     144.6,       0.0);         (
565334.2, 4152184.0,       3.3,     144.6,       0.0);
     ( 565334.2, 4152194.0,       3.2,     144.6,       0.0);         (
565334.2, 4152204.0,       3.1,     144.6,       0.0);
     ( 565334.2, 4152214.0,       2.9,     144.6,       0.0);         (
565334.2, 4152224.0,       3.0,     144.6,       0.0);
     ( 565334.2, 4152234.0,       3.0,     144.6,       0.0);         (
565334.2, 4152244.0,       3.1,     144.6,       0.0);
     ( 565334.2, 4152254.0,       3.8,     144.6,       0.0);         (
565334.2, 4152264.0,       4.6,     144.6,       0.0);
     ( 565334.2, 4152274.0,       5.4,     144.6,       0.0);         (
565334.2, 4152284.0,       5.1,     144.6,       0.0);
     ( 565324.2, 4151984.0,       3.4,     144.6,       0.0);         (
565324.2, 4151994.0,       3.4,     144.6,       0.0);
     ( 565324.2, 4152004.0,       3.3,     144.6,       0.0);         (
565324.2, 4152014.0,       3.4,     144.6,       0.0);
     ( 565324.2, 4152024.0,       3.4,     144.6,       0.0);         (
565324.2, 4152034.0,       3.4,     144.6,       0.0);
     ( 565324.2, 4152044.0,       3.2,     144.6,       0.0);         (
565324.2, 4152054.0,       3.1,     144.6,       0.0);
     ( 565324.2, 4152064.0,       3.0,     144.6,       0.0);         (
565324.2, 4152074.0,       3.1,     144.6,       0.0);
     ( 565324.2, 4152084.0,       3.2,     144.6,       0.0);         (
565324.2, 4152094.0,       3.2,     144.6,       0.0);
     ( 565324.2, 4152104.0,       3.3,     144.6,       0.0);         (
565324.2, 4152114.0,       3.4,     144.6,       0.0);
     ( 565324.2, 4152124.0,       3.4,     144.6,       0.0);         (
565324.2, 4152134.0,       3.4,     144.6,       0.0);
     ( 565324.2, 4152144.0,       3.3,     144.6,       0.0);         (
565324.2, 4152154.0,       3.3,     144.6,       0.0);
     ( 565324.2, 4152164.0,       3.3,     144.6,       0.0);         (
565324.2, 4152174.0,       3.3,     144.6,       0.0);
     ( 565324.2, 4152184.0,       3.3,     144.6,       0.0);         (
565324.2, 4152194.0,       3.2,     144.6,       0.0);
     ( 565324.2, 4152204.0,       3.1,     144.6,       0.0);         (
565324.2, 4152214.0,       3.0,     144.6,       0.0);
     ( 565324.2, 4152224.0,       3.0,     144.6,       0.0);         (
565324.2, 4152234.0,       3.0,     144.6,       0.0);
     ( 565324.2, 4152244.0,       3.1,     144.6,       0.0);         (
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565324.2, 4152254.0,       3.9,     144.6,       0.0);
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565324.2, 4152264.0, 5.0, 144.6, 0.0); (565324.2, 4152274.0, 6.1, 144.6, 0.0);
(565324.2, 4152284.0, 5.8, 144.6, 0.0); (565314.2, 4151984.0, 3.5, 144.6, 0.0);
(565314.2, 4151994.0, 3.4, 144.6, 0.0); (565314.2, 4152004.0, 3.4, 144.6, 0.0);
(565314.2, 4152014.0, 3.4, 144.6, 0.0); (565314.2, 4152024.0, 3.4, 144.6, 0.0);
(565314.2, 4152034.0, 3.4, 144.6, 0.0); (565314.2, 4152044.0, 3.2, 144.6, 0.0);
(565314.2, 4152054.0, 3.0, 144.6, 0.0); (565314.2, 4152064.0, 2.9, 144.6, 0.0);
(565314.2, 4152074.0, 3.1, 144.6, 0.0); (565314.2, 4152084.0, 3.2, 144.6, 0.0);
(565314.2, 4152094.0, 3.4, 144.6, 0.0); (565314.2, 4152104.0, 3.4, 144.6, 0.0);
(565314.2, 4152114.0, 3.4, 144.6, 0.0); (565314.2, 4152124.0, 3.4, 144.6, 0.0);
(565314.2, 4152134.0, 3.4, 144.6, 0.0); (565314.2, 4152144.0, 3.3, 144.6, 0.0);
(565314.2, 4152154.0, 3.3, 144.6, 0.0); (565314.2, 4152164.0, 3.3, 144.6, 0.0);
(565314.2, 4152174.0, 3.3, 144.6, 0.0); (565314.2, 4152184.0, 3.3, 144.6, 0.0);
(565314.2, 4152194.0, 3.3, 144.6, 0.0); (565314.2, 4152204.0, 3.2, 144.6, 0.0);
(565314.2, 4152214.0, 3.1, 144.6, 0.0); (565314.2, 4152224.0, 3.0, 144.6, 0.0);
(565314.2, 4152234.0, 3.0, 144.6, 0.0); (565314.2, 4152244.0, 3.0, 144.6, 0.0);
(565314.2, 4152254.0, 4.0, 144.6, 0.0); (565314.2, 4152264.0, 5.4, 144.6, 0.0);
(565314.2, 4152274.0, 6.8, 144.6, 0.0); (565314.2, 4152284.0, 6.4, 144.6, 0.0);
(565304.2, 4151984.0, 3.5, 144.6, 0.0); (565304.2, 4151994.0, 3.5, 144.6, 0.0);
(565304.2, 4152004.0, 3.5, 144.6, 0.0); (

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565304.2, 4152014.0,       3.4,     144.6,       0.0);
     ( 565304.2, 4152024.0,       3.4,     144.6,       0.0);         (
565304.2, 4152034.0,       3.3,     144.6,       0.0);
     ( 565304.2, 4152044.0,       3.2,     144.6,       0.0);         (
565304.2, 4152054.0,       3.0,     144.6,       0.0);
     ( 565304.2, 4152064.0,       2.9,     144.6,       0.0);         (
565304.2, 4152074.0,       3.1,     144.6,       0.0);
     ( 565304.2, 4152084.0,       3.3,     144.6,       0.0);         (
565304.2, 4152094.0,       3.4,     144.6,       0.0);
     ( 565304.2, 4152104.0,       3.4,     144.6,       0.0);         (
565304.2, 4152114.0,       3.4,     144.6,       0.0);
     ( 565304.2, 4152124.0,       3.3,     144.6,       0.0);         (
565304.2, 4152134.0,       3.3,     144.6,       0.0);
     ( 565304.2, 4152144.0,       3.3,     144.6,       0.0);         (
565304.2, 4152154.0,       3.3,     144.6,       0.0);
     ( 565304.2, 4152164.0,       3.3,     144.6,       0.0);         (
565304.2, 4152174.0,       3.3,     144.6,       0.0);
     ( 565304.2, 4152184.0,       3.3,     144.6,       0.0);         (
565304.2, 4152194.0,       3.3,     144.6,       0.0);
     ( 565304.2, 4152204.0,       3.2,     144.6,       0.0);         (
565304.2, 4152214.0,       3.1,     144.6,       0.0);
     ( 565304.2, 4152224.0,       3.1,     144.6,       0.0);         (
565304.2, 4152234.0,       3.0,     144.6,       0.0);
     ( 565304.2, 4152244.0,       2.9,     144.6,       0.0);         (
565304.2, 4152254.0,       3.8,     144.6,       0.0);
     ( 565304.2, 4152264.0,       5.0,     144.6,       0.0);         (
565304.2, 4152274.0,       6.1,     144.6,       0.0);
     ( 565304.2, 4152284.0,       5.8,     144.6,       0.0);         (
565294.2, 4151984.0,       3.5,     144.6,       0.0);
     ( 565294.2, 4151994.0,       3.5,     144.6,       0.0);         (
565294.2, 4152004.0,       3.5,     144.6,       0.0);
     ( 565294.2, 4152014.0,       3.4,     144.6,       0.0);         (
565294.2, 4152024.0,       3.3,     144.6,       0.0);
     ( 565294.2, 4152034.0,       3.2,     144.6,       0.0);         (
565294.2, 4152044.0,       3.1,     144.6,       0.0);
     ( 565294.2, 4152054.0,       3.0,     144.6,       0.0);         (
565294.2, 4152064.0,       3.0,     144.6,       0.0);
     ( 565294.2, 4152074.0,       3.1,     144.6,       0.0);         (
565294.2, 4152084.0,       3.3,     144.6,       0.0);
     ( 565294.2, 4152094.0,       3.4,     144.6,       0.0);         (
565294.2, 4152104.0,       3.4,     144.6,       0.0);
     ( 565294.2, 4152114.0,       3.3,     144.6,       0.0);         (
565294.2, 4152124.0,       3.3,     144.6,       0.0);
     ( 565294.2, 4152134.0,       3.3,     144.6,       0.0);         (
565294.2, 4152144.0,       3.3,     144.6,       0.0);
     ( 565294.2, 4152154.0,       3.4,     144.6,       0.0);         (
565294.2, 4152164.0,       3.4,     144.6,       0.0);
     ( 565294.2, 4152174.0,       3.4,     144.6,       0.0);         (
565294.2, 4152184.0,       3.4,     144.6,       0.0);
     ( 565294.2, 4152194.0,       3.3,     144.6,       0.0);         (
565294.2, 4152204.0,       3.2,     144.6,       0.0);
     ( 565294.2, 4152214.0,       3.1,     144.6,       0.0);         (
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565294.2, 4152224.0,       3.0,     144.6,       0.0);
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565294.2, 4152234.0, 3.0, 144.6, 0.0); (565294.2, 4152244.0, 2.9, 144.6, 0.0);
(565294.2, 4152254.0, 3.4, 144.6, 0.0); (565294.2, 4152264.0, 3.9, 144.6, 0.0);
(565294.2, 4152274.0, 4.5, 144.6, 0.0); (565294.2, 4152284.0, 4.4, 144.6, 0.0);
(565284.2, 4151984.0, 3.5, 144.6, 0.0); (565284.2, 4151994.0, 3.6, 144.6, 0.0);
(565284.2, 4152004.0, 3.5, 144.6, 0.0); (565284.2, 4152014.0, 3.4, 144.6, 0.0);
(565284.2, 4152024.0, 3.2, 144.6, 0.0); (565284.2, 4152034.0, 3.1, 144.6, 0.0);
(565284.2, 4152044.0, 3.1, 144.6, 0.0); (565284.2, 4152054.0, 3.0, 144.6, 0.0);
(565284.2, 4152064.0, 3.0, 144.6, 0.0); (565284.2, 4152074.0, 3.1, 144.6, 0.0);
(565284.2, 4152084.0, 3.3, 144.6, 0.0); (565284.2, 4152094.0, 3.4, 144.6, 0.0);
(565284.2, 4152104.0, 3.3, 144.6, 0.0); (565284.2, 4152114.0, 3.3, 144.6, 0.0);
(565284.2, 4152124.0, 3.2, 144.6, 0.0); (565284.2, 4152134.0, 3.3, 144.6, 0.0);
(565284.2, 4152144.0, 3.3, 144.6, 0.0); (565284.2, 4152154.0, 3.4, 144.6, 0.0);
(565284.2, 4152164.0, 3.4, 144.6, 0.0); (565284.2, 4152174.0, 3.4, 144.6, 0.0);
(565284.2, 4152184.0, 3.4, 144.6, 0.0); (565284.2, 4152194.0, 3.3, 144.6, 0.0);
(565284.2, 4152204.0, 3.2, 144.6, 0.0); (565284.2, 4152214.0, 3.1, 144.6, 0.0);
(565284.2, 4152224.0, 3.1, 144.6, 0.0); (565284.2, 4152234.0, 3.0, 144.6, 0.0);
(565284.2, 4152244.0, 2.9, 144.6, 0.0); (565284.2, 4152254.0, 3.0, 144.6, 0.0);
(565284.2, 4152264.0, 3.0, 144.6, 0.0); (565284.2, 4152274.0, 3.1, 144.6, 0.0);
(565284.2, 4152284.0, 3.1, 144.6, 0.0); (

```
565274.2, 4151984.0,       3.6,     144.6,       0.0);
     ( 565274.2, 4151994.0,       3.5,     144.6,       0.0);         (
565274.2, 4152004.0,       3.5,     144.6,       0.0);
     ( 565274.2, 4152014.0,       3.3,     144.6,       0.0);         (
565274.2, 4152024.0,       3.2,     144.6,       0.0);
     ( 565274.2, 4152034.0,       3.1,     144.6,       0.0);         (
565274.2, 4152044.0,       3.0,     144.6,       0.0);
     ( 565274.2, 4152054.0,       3.0,     144.6,       0.0);         (
565274.2, 4152064.0,       3.0,     144.6,       0.0);
     ( 565274.2, 4152074.0,       3.1,     144.6,       0.0);         (
565274.2, 4152084.0,       3.2,     144.6,       0.0);
     ( 565274.2, 4152094.0,       3.2,     144.6,       0.0);         (
565274.2, 4152104.0,       3.2,     144.6,       0.0);
     ( 565274.2, 4152114.0,       3.3,     144.6,       0.0);         (
565274.2, 4152124.0,       3.3,     144.6,       0.0);
     ( 565274.2, 4152134.0,       3.3,     144.6,       0.0);         (
565274.2, 4152144.0,       3.4,     144.6,       0.0);
     ( 565274.2, 4152154.0,       3.4,     144.6,       0.0);         (
565274.2, 4152164.0,       3.4,     144.6,       0.0);
     ( 565274.2, 4152174.0,       3.4,     144.6,       0.0);         (
565274.2, 4152184.0,       3.4,     144.6,       0.0);
     ( 565274.2, 4152194.0,       3.4,     144.6,       0.0);         (
565274.2, 4152204.0,       3.3,     144.6,       0.0);
     ( 565274.2, 4152214.0,       3.3,     144.6,       0.0);         (
565274.2, 4152224.0,       3.2,     144.6,       0.0);
     ( 565274.2, 4152234.0,       3.1,     144.6,       0.0);         (
565274.2, 4152244.0,       3.0,     144.6,       0.0);
     ( 565274.2, 4152254.0,       2.9,     144.6,       0.0);         (
565274.2, 4152264.0,       3.0,     144.6,       0.0);
     ( 565274.2, 4152274.0,       3.0,     144.6,       0.0);         (
565274.2, 4152284.0,       3.0,     144.6,       0.0);
     ( 565264.2, 4151984.0,       3.6,     144.6,       0.0);         (
565264.2, 4151994.0,       3.5,     144.6,       0.0);
     ( 565264.2, 4152004.0,       3.4,     144.6,       0.0);         (
565264.2, 4152014.0,       3.3,     144.6,       0.0);
     ( 565264.2, 4152024.0,       3.2,     144.6,       0.0);         (
565264.2, 4152034.0,       3.1,     144.6,       0.0);
     ( 565264.2, 4152044.0,       3.0,     144.6,       0.0);         (
565264.2, 4152054.0,       3.0,     144.6,       0.0);
     ( 565264.2, 4152064.0,       3.0,     144.6,       0.0);         (
565264.2, 4152074.0,       3.0,     144.6,       0.0);
     ( 565264.2, 4152084.0,       3.0,     144.6,       0.0);         (
565264.2, 4152094.0,       3.1,     144.6,       0.0);
     ( 565264.2, 4152104.0,       3.2,     144.6,       0.0);         (
565264.2, 4152114.0,       3.3,     144.6,       0.0);
     ( 565264.2, 4152124.0,       3.3,     144.6,       0.0);         (
565264.2, 4152134.0,       3.3,     144.6,       0.0);
     ( 565264.2, 4152144.0,       3.4,     144.6,       0.0);         (
565264.2, 4152154.0,       3.4,     144.6,       0.0);
     ( 565264.2, 4152164.0,       3.4,     144.6,       0.0);         (
565264.2, 4152174.0,       3.4,     144.6,       0.0);
     ( 565264.2, 4152184.0,       3.4,     144.6,       0.0);         (
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565264.2, 4152194.0,       3.4,     144.6,       0.0);
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565264.2, 4152204.0, 3.5, 144.6, 0.0); (565264.2, 4152214.0, 3.5, 144.6, 0.0);
(565264.2, 4152224.0, 3.4, 144.6, 0.0); (565264.2, 4152234.0, 3.2, 144.6, 0.0);
(565264.2, 4152244.0, 3.0, 144.6, 0.0); (565264.2, 4152254.0, 2.9, 144.6, 0.0);
(565264.2, 4152264.0, 2.9, 144.6, 0.0); (565264.2, 4152274.0, 2.9, 144.6, 0.0);
(565264.2, 4152284.0, 2.9, 144.6, 0.0); (565264.2, 4152367.2, 2.9, 144.6, 0.0);
(565264.2, 4152450.8, 2.9, 144.6, 0.0); (565264.2, 4152534.0, 2.8, 2.8, 0.0);
(565358.0, 4152367.2, 2.5, 144.6, 0.0); (565358.0, 4152450.8, 3.2, 3.2, 0.0);
(565358.0, 4152534.0, 3.2, 3.2, 0.0); (565451.8, 4152367.2, 3.1, 3.1, 0.0);
(565451.8, 4152450.8, 3.5, 3.5, 0.0); (565451.8, 4152534.0, 2.0, 2.0, 0.0);
(565545.5, 4152367.2, 3.6, 3.6, 0.0); (565545.5, 4152450.8, 2.2, 2.2, 0.0);
(565545.5, 4152534.0, 2.6, 2.6, 0.0); (565639.2, 4152367.2, 1.9, 1.9, 0.0);
(565639.2, 4152450.8, 2.6, 2.6, 0.0); (565639.2, 4152534.0, 2.0, 2.0, 0.0);
(565733.0, 4152367.2, 2.1, 2.1, 0.0); (565733.0, 4152450.8, 1.6, 1.6, 0.0);
(565733.0, 4152534.0, 0.7, 0.7, 0.0); (565826.8, 4152367.2, 1.8, 1.8, 0.0);
(565826.8, 4152450.8, 1.4, 1.4, 0.0); (565826.8, 4152534.0, 1.6, 1.6, 0.0);
(565920.5, 4152367.2, 1.4, 1.4, 0.0); (565920.5, 4152450.8, 1.4, 1.4, 0.0);
(565920.5, 4152534.0, 1.4, 1.4, 0.0); (566014.2, 4152367.2, 1.5, 1.5, 0.0);
(566014.2, 4152450.8, 1.0, 1.0, 0.0); (566014.2, 4152534.0, 1.8, 1.8, 0.0);
(565847.6, 4152284.0, 3.3, 3.3, 0.0); (

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565847.6, 4152190.2,       3.5,       3.5,       0.0);
     ( 565847.6, 4152096.5,       1.7,       1.7,       0.0);         (
565847.6, 4152002.8,       3.4,       3.4,       0.0);
     ( 565847.6, 4151909.0,       2.6,       2.6,       0.0);         (
565847.6, 4151815.2,       2.6,       2.6,       0.0);
     ( 565847.6, 4151721.5,       2.8,       2.8,       0.0);         (
565847.6, 4151627.8,       2.8,       2.8,       0.0);
     ( 565847.6, 4151534.0,       3.4,       3.4,       0.0);         (
565930.9, 4152284.0,       1.6,       1.6,       0.0);
     ( 565930.9, 4152190.2,       2.5,       2.5,       0.0);         (
565930.9, 4152096.5,       2.9,       2.9,       0.0);
     ( 565930.9, 4152002.8,       2.6,       2.6,       0.0);         (
565930.9, 4151909.0,       3.5,       3.5,       0.0);
     ( 565930.9, 4151815.2,       2.4,       2.4,       0.0);         (
565930.9, 4151721.5,       2.9,       2.9,       0.0);
     ( 565930.9, 4151627.8,       2.8,       2.8,       0.0);         (
565930.9, 4151534.0,       2.9,       2.9,       0.0);
     ( 566014.2, 4152284.0,       1.6,       1.6,       0.0);         (
566014.2, 4152190.2,       1.4,       1.4,       0.0);
     ( 566014.2, 4152096.5,       1.9,       1.9,       0.0);         (
566014.2, 4152002.8,       1.8,       1.8,       0.0);
     ( 566014.2, 4151909.0,       2.4,       2.4,       0.0);         (
566014.2, 4151815.2,       3.4,       3.4,       0.0);
     ( 566014.2, 4151721.5,       3.1,       3.1,       0.0);         (
566014.2, 4151627.8,       3.0,       3.0,       0.0);
     ( 566014.2, 4151534.0,       2.9,       2.9,       0.0);         (
565764.2, 4151700.8,       2.9,       2.9,       0.0);
     ( 565764.2, 4151617.2,       3.3,       3.3,       0.0);         (
565764.2, 4151534.0,       4.0,       4.0,       0.0);
     ( 565670.5, 4151700.8,       3.3,       3.3,       0.0);         (
565670.5, 4151617.2,       4.2,       4.2,       0.0);
     ( 565670.5, 4151534.0,       5.0,       5.0,       0.0);         (
565576.8, 4151700.8,       4.0,       4.0,       0.0);
     ( 565576.8, 4151617.2,       4.7,       4.7,       0.0);         (
565576.8, 4151534.0,       6.2,       6.2,       0.0);
     ( 565483.0, 4151700.8,       4.5,     144.6,       0.0);         (
565483.0, 4151617.2,       5.8,     144.6,       0.0);
     ( 565483.0, 4151534.0,       6.9,     144.6,       0.0);         (
565389.2, 4151700.8,       6.5,     144.6,       0.0);
     ( 565389.2, 4151617.2,       7.1,     144.6,       0.0);         (
565389.2, 4151534.0,       7.9,     144.6,       0.0);
     ( 565295.5, 4151700.8,       7.4,     144.6,       0.0);         (
565295.5, 4151617.2,       6.9,     144.6,       0.0);
     ( 565295.5, 4151534.0,       8.4,     144.6,       0.0);         (
565201.8, 4151700.8,       8.6,     144.6,       0.0);
     ( 565201.8, 4151617.2,       8.2,     144.6,       0.0);         (
565201.8, 4151534.0,       9.2,     144.6,       0.0);
     ( 565108.0, 4151700.8,       7.7,     144.6,       0.0);         (
565108.0, 4151617.2,       9.3,     144.6,       0.0);
     ( 565108.0, 4151534.0,      11.6,     144.6,       0.0);         (
565014.2, 4151700.8,      11.7,     144.6,       0.0);
     ( 565014.2, 4151617.2,      15.1,     144.6,       0.0);         (
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565014.2, 4151534.0,      12.5,     144.6,       0.0);
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565180.9, 4151784.0, 6.2, 144.6, 0.0); (565180.9, 4151877.8, 4.7, 144.6, 0.0);
(565180.9, 4151971.5, 3.5, 144.6, 0.0); (565180.9, 4152065.2, 3.2, 144.6, 0.0);
(565180.9, 4152159.0, 3.6, 144.6, 0.0); (565180.9, 4152252.8, 3.1, 144.6, 0.0);
(565180.9, 4152346.5, 3.1, 144.6, 0.0); (565180.9, 4152440.2, 3.9, 144.6, 0.0);
(565180.9, 4152534.0, 3.1, 144.6, 0.0); (565097.6, 4151784.0, 8.0, 144.6, 0.0);
(565097.6, 4151877.8, 5.0, 144.6, 0.0); (565097.6, 4151971.5, 3.9, 144.6, 0.0);
(565097.6, 4152065.2, 3.2, 144.6, 0.0); (565097.6, 4152159.0, 3.4, 144.6, 0.0);
(565097.6, 4152252.8, 3.1, 144.6, 0.0); (565097.6, 4152346.5, 3.1, 144.6, 0.0);
(565097.6, 4152440.2, 3.1, 144.6, 0.0); (565097.6, 4152534.0, 3.1, 144.6, 0.0);
(565014.2, 4151784.0, 8.0, 144.6, 0.0); (565014.2, 4151877.8, 9.3, 144.6, 0.0);
(565014.2, 4151971.5, 4.1, 144.6, 0.0); (565014.2, 4152065.2, 3.3, 144.6, 0.0);
(565014.2, 4152159.0, 3.4, 144.6, 0.0); (565014.2, 4152252.8, 3.8, 144.6, 0.0);
(565014.2, 4152346.5, 3.3, 144.6, 0.0); (565014.2, 4152440.2, 4.2, 144.6, 0.0);
(565014.2, 4152534.0, 4.5, 144.6, 0.0); (565502.7, 4152072.5, 2.8, 144.6, 1.5);
(565589.1, 4151982.9, 3.3, 3.3, 1.5); (565619.9, 4152017.4, 3.0, 3.0, 1.5);
(565621.6, 4152031.6, 2.8, 2.8, 1.5); (565618.5, 4152046.0, 3.0, 3.0, 1.5);
(565600.9, 4152086.0, 2.6, 2.6, 1.5); (565578.7, 4152137.3, 2.8, 8.8, 1.5);
(565504.0, 4152071.9, 2.8, 144.6, 1.5);

```
 *** AERMOD - VERSION 21112  ***   ***
C:\Lakes\405IndustrialRd\405IndustrialRd.isc
***        02/09/22
 *** AERMET - VERSION  14134 ***   ***
***        08:32:34

PAGE  40
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN

                                            *** 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,
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: Met data-San Carlos Airport\724938.SFC
Met Version: 14134
Profile file: Met data-San Carlos Airport\724938.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 93231 Upper air station no.: 23230
Name: UNKNOWN Name: OAKLAND/WSO_AP
Year: 2009 Year: 2009

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
09	01	01	1	01	-999.0	-9.000	-9.000	-999.	-999.	-99999.0	0.04	0.55	1.00	999.00	999.	-9.0	999.0	-9.0	
09	01	01	1	02	-999.0	-9.000	-9.000	-999.	-999.	-99999.0	0.04	0.55	1.00	999.00	999.	-9.0	999.0	-9.0	
09	01	01	1	03	-999.0	-9.000	-9.000	-999.	-999.	-99999.0	0.04	0.55	1.00	999.00	999.	-9.0	999.0	-9.0	
09	01	01	1	04	-999.0	-9.000	-9.000	-999.	-999.	-99999.0	0.04	0.55	1.00	999.00	999.	-9.0	999.0	-9.0	
09	01	01	1	05	-999.0	-9.000	-9.000	-999.	-999.	-99999.0	0.04	0.55	1.00	999.00	999.	-9.0	999.0	-9.0	
09	01	01	1	06	-999.0	-9.000	-9.000	-999.	-999.	-99999.0	0.04	0.55	1.00	999.00	999.	-9.0	999.0	-9.0	
09	01	01	1	07	-3.0	0.063	-9.000	-9.000	-999.	38.	7.5	0.04	0.55	1.00	1.76	5.	10.0	281.1	2.0
09	01	01	1	08	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.04	0.55	0.74	0.00	0.	10.0	280.1	2.0
09	01	01	1	09	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.04	0.55	0.38	999.00	999.	-9.0	280.1	2.0
09	01	01	1	10	5.5	0.179	0.236	0.014	87.	181.	-95.0	0.04	0.55	0.26	2.36	61.	10.0	280.1	2.0
09	01	01	1	11	12.1	-9.000	-9.000	-9.000	156.	-999.	-99999.0	0.04	0.55	0.21	0.00	0.	10.0	280.1	2.0
09	01	01	1	12	16.0	0.328	0.455	0.016	215.	451.	-201.4	0.04							

```
0.55   0.20    4.36  336.   10.0  281.1    2.0
 09 01 01   1 13   16.6  0.226  0.493  0.015  262.  263.    -63.2  0.04
0.55   0.19    2.86  293.   10.0  281.1    2.0
 09 01 01   1 14   69.0 -9.000 -9.000 -9.000  402. -999. -99999.0  0.04
0.55   0.20    0.00    0.   10.0  282.1    2.0
 09 01 01   1 15   49.6  0.205  0.847  0.017  445.  223.    -15.9  0.04
0.55   0.23    2.36  999.   10.0  283.1    2.0
 09 01 01   1 16   18.0  0.192  0.607  0.016  451.  202.    -35.7  0.04
0.55   0.31    2.36  999.   10.0  283.1    2.0
 09 01 01   1 17  -17.1  0.203 -9.000 -9.000 -999.  220.     44.6  0.04
0.55   0.55    3.36  999.   10.0  282.1    2.0
 09 01 01   1 18  -11.3  0.104 -9.000 -9.000 -999.   86.      9.1  0.04
0.55   1.00    2.86  337.   10.0  282.1    2.0
 09 01 01   1 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.04
0.55   1.00    0.00    0.   10.0  281.1    2.0
 09 01 01   1 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.04
0.55   1.00    0.00    0.   10.0  281.1    2.0
 09 01 01   1 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.04
0.55   1.00    0.00    0.   10.0  280.1    2.0
 09 01 01   1 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.04
0.55   1.00  999.00  999.   -9.0  999.0   -9.0
 09 01 01   1 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.04
0.55   1.00  999.00  999.   -9.0  999.0   -9.0
 09 01 01   1 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.04
0.55   1.00  999.00  999.   -9.0  999.0   -9.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 09 01 01 01   10.0 1 -999.  -99.00  -999.0   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565464.25	4151984.00	0.05720	565464.25	4152009.00	0.05777
565464.25	4152034.00	0.05496	565464.25	4152059.00	0.04972
565464.25	4152084.00	0.04497	565489.25	4151984.00	0.10089
565489.25	4152009.00	0.11195	565489.25	4152034.00	0.11291
565489.25	4152059.00	0.09291	565489.25	4152084.00	0.07825
565514.25	4151984.00	0.17748	565514.25	4152009.00	0.22111
565514.25	4152034.00	0.23809	565514.25	4152059.00	0.16372
565514.25	4152084.00	0.11908	565539.25	4151984.00	0.29160
565539.25	4152009.00	0.36781	565539.25	4152034.00	0.36306
565564.25	4151984.00	0.41072	565564.25	4152009.00	0.45924
565464.25	4152094.00	0.04391	565464.25	4152104.00	0.04321
565464.25	4152114.00	0.04255	565464.25	4152124.00	0.04173
565464.25	4152134.00	0.04068	565464.25	4152144.00	0.03941
565464.25	4152154.00	0.03793	565464.25	4152164.00	0.03630

565464.25 4152174.00 0.03454
565464.25 4152184.00 0.03269
565464.25 4152194.00 0.03079
565464.25 4152204.00 0.02884
565464.25 4152214.00 0.02692
565464.25 4152224.00 0.02509
565464.25 4152234.00 0.02335
565464.25 4152244.00 0.02171
565464.25 4152254.00 0.02018
565464.25 4152264.00 0.01877
565464.25 4152274.00 0.01747
565464.25 4152284.00 0.01628
565474.25 4152094.00 0.05432
565474.25 4152104.00 0.05297
565474.25 4152114.00 0.05147
565474.25 4152124.00 0.04969
565474.25 4152134.00 0.04767
565474.25 4152144.00 0.04547
565474.25 4152154.00 0.04314
565474.25 4152164.00 0.04073
565474.25 4152174.00 0.03827
565474.25 4152184.00 0.03579
565474.25 4152194.00 0.03331
565474.25 4152204.00 0.03089
565474.25 4152214.00 0.02858
565474.25 4152224.00 0.02641
565474.25 4152234.00 0.02441
565474.25 4152244.00 0.02255
565474.25 4152254.00 0.02085
565474.25 4152264.00 0.01930
565474.25 4152274.00 0.01790
565474.25 4152284.00 0.01663
565484.25 4152094.00 0.06764
565484.25 4152104.00 0.06510
565484.25 4152114.00 0.06220
565484.25 4152124.00 0.05898
565484.25 4152134.00 0.05561
565484.25 4152144.00 0.05219
565484.25 4152154.00 0.04879
565484.25 4152164.00 0.04542
565484.25 4152174.00 0.04211
565484.25 4152184.00 0.03889
565484.25 4152194.00 0.03580
565484.25 4152204.00 0.03286
565484.25 4152214.00 0.03013
565484.25 4152224.00 0.02763
565484.25 4152234.00 0.02536
565484.25 4152244.00 0.02330
565484.25 4152254.00 0.02144
565484.25 4152264.00 0.01977
565484.25 4152274.00 0.01827
565484.25 4152284.00 0.01693

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565494.25	4152094.00	0.08325	565494.25	4152104.00	0.07924
565494.25	4152114.00	0.07387	565494.25	4152124.00	0.06836
565494.25	4152134.00	0.06372	565494.25	4152144.00	0.05920
565494.25	4152154.00	0.05477	565494.25	4152164.00	0.05028
565494.25	4152174.00	0.04601	565494.25	4152184.00	0.04196
565494.25	4152194.00	0.03818	565494.25	4152204.00	0.03470
565494.25	4152214.00	0.03153	565494.25	4152224.00	0.02871
565494.25	4152234.00	0.02621	565494.25	4152244.00	0.02396
565494.25	4152254.00	0.02196	565494.25	4152264.00	0.02017
565494.25	4152274.00	0.01859	565494.25	4152284.00	0.01718
565504.25	4152094.00	0.09914	565504.25	4152104.00	0.09381
565504.25	4152114.00	0.08635	565504.25	4152124.00	0.07846
565504.25	4152134.00	0.07223	565504.25	4152144.00	0.06646
565504.25	4152154.00	0.06094	565504.25	4152164.00	0.05515

565504.25 4152174.00 0.04978
565504.25 4152184.00 0.04484
565504.25 4152194.00 0.04033
565504.25 4152204.00 0.03630
565504.25 4152214.00 0.03272
565504.25 4152224.00 0.02961
565504.25 4152234.00 0.02688
565504.25 4152244.00 0.02446
565504.25 4152254.00 0.02233
565504.25 4152264.00 0.02047
565504.25 4152274.00 0.01882
565504.25 4152284.00 0.01736
565514.25 4152094.00 0.11382
565514.25 4152104.00 0.10856
565514.25 4152114.00 0.10018
565514.25 4152124.00 0.09032
565514.25 4152134.00 0.08162
565514.25 4152144.00 0.07369
565514.25 4152154.00 0.06635
565514.25 4152164.00 0.05944
565514.25 4152174.00 0.05310
565514.25 4152184.00 0.04737
565514.25 4152194.00 0.04218
565514.25 4152204.00 0.03763
565514.25 4152214.00 0.03368
565514.25 4152224.00 0.03029
565514.25 4152234.00 0.02735
565514.25 4152244.00 0.02480
565514.25 4152254.00 0.02259
565514.25 4152264.00 0.02065
565514.25 4152274.00 0.01896
565514.25 4152284.00 0.01746
565524.25 4152094.00 0.12747
565524.25 4152104.00 0.12134
565524.25 4152114.00 0.11298
565524.25 4152124.00 0.10229
565524.25 4152134.00 0.09113
565524.25 4152144.00 0.08060
565524.25 4152154.00 0.07100
565524.25 4152164.00 0.06291
565524.25 4152174.00 0.05576
565524.25 4152184.00 0.04941
565524.25 4152194.00 0.04357
565524.25 4152204.00 0.03857
565524.25 4152214.00 0.03433
565524.25 4152224.00 0.03072
565524.25 4152234.00 0.02764
565524.25 4152244.00 0.02500
565524.25 4152254.00 0.02271
565524.25 4152264.00 0.02073
565524.25 4152274.00 0.01900
565524.25 4152284.00 0.01748

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565534.25	4152104.00	0.13073	565534.25	4152114.00	0.12198
565534.25	4152124.00	0.11171	565534.25	4152134.00	0.09948
565534.25	4152144.00	0.08684	565534.25	4152154.00	0.07496
565534.25	4152164.00	0.06546	565534.25	4152174.00	0.05740
565534.25	4152184.00	0.05044	565534.25	4152194.00	0.04428
565534.25	4152204.00	0.03905	565534.25	4152214.00	0.03464
565534.25	4152224.00	0.03090	565534.25	4152234.00	0.02773
565534.25	4152244.00	0.02503	565534.25	4152254.00	0.02270
565534.25	4152264.00	0.02069	565534.25	4152274.00	0.01892
565534.25	4152284.00	0.01738	565544.25	4152114.00	0.12586
565544.25	4152124.00	0.11595	565544.25	4152134.00	0.10485
565544.25	4152144.00	0.09179	565544.25	4152154.00	0.07816
565544.25	4152164.00	0.06662	565544.25	4152174.00	0.05719
565544.25	4152184.00	0.04946	565544.25	4152194.00	0.04355

565544.25 4152204.00 0.03871
565544.25 4152214.00 0.03458
565544.25 4152224.00 0.03083
565544.25 4152234.00 0.02762
565544.25 4152244.00 0.02488
565544.25 4152254.00 0.02245
565544.25 4152264.00 0.02033
565544.25 4152274.00 0.01850
565544.25 4152284.00 0.01702
565554.25 4152124.00 0.11344
565554.25 4152134.00 0.10489
565554.25 4152144.00 0.09413
565554.25 4152154.00 0.07959
565554.25 4152164.00 0.06617
565554.25 4152174.00 0.05547
565554.25 4152184.00 0.04367
565554.25 4152194.00 0.04193
565554.25 4152204.00 0.03788
565554.25 4152214.00 0.03417
565554.25 4152224.00 0.03050
565554.25 4152234.00 0.02730
565554.25 4152244.00 0.02453
565554.25 4152254.00 0.02206
565554.25 4152264.00 0.01987
565554.25 4152274.00 0.01797
565554.25 4152284.00 0.01657
565564.25 4152134.00 0.09925
565564.25 4152144.00 0.09079
565564.25 4152154.00 0.07895
565564.25 4152164.00 0.06655
565564.25 4152174.00 0.05629
565564.25 4152184.00 0.04805
565564.25 4152194.00 0.04234
565564.25 4152204.00 0.03777
565564.25 4152214.00 0.03366
565564.25 4152224.00 0.02961
565564.25 4152234.00 0.02663
565564.25 4152244.00 0.02407
565564.25 4152254.00 0.02179
565564.25 4152264.00 0.01975
565564.25 4152274.00 0.01800
565564.25 4152284.00 0.01658
565574.25 4152134.00 0.09397
565574.25 4152144.00 0.08556
565574.25 4152154.00 0.07574
565574.25 4152164.00 0.06546
565574.25 4152174.00 0.05618
565574.25 4152184.00 0.04843
565574.25 4152194.00 0.04229
565574.25 4152204.00 0.03670
565574.25 4152214.00 0.03177
565574.25 4152224.00 0.02836

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565574.25	4152234.00	0.02578	565574.25	4152244.00	0.02352
565574.25	4152254.00	0.02140	565574.25	4152264.00	0.01950
565574.25	4152274.00	0.01786	565574.25	4152284.00	0.01641
565584.25	4152134.00	0.09068	565584.25	4152144.00	0.08102
565584.25	4152154.00	0.07177	565584.25	4152164.00	0.06171
565584.25	4152174.00	0.05273	565584.25	4152184.00	0.04538
565584.25	4152194.00	0.03935	565584.25	4152204.00	0.03440
565584.25	4152214.00	0.03035	565584.25	4152224.00	0.02741
565584.25	4152234.00	0.02507	565584.25	4152244.00	0.02297
565584.25	4152254.00	0.02087	565584.25	4152264.00	0.01903
565584.25	4152274.00	0.01741	565584.25	4152284.00	0.01602
565594.25	4152104.00	0.19950	565594.25	4152114.00	0.15303
565594.25	4152124.00	0.11842	565594.25	4152134.00	0.09542
565594.25	4152144.00	0.08010	565594.25	4152154.00	0.06846

565594.25 4152164.00 0.05869
565594.25 4152174.00 0.05049
565594.25 4152184.00 0.04379
565594.25 4152194.00 0.03823
565594.25 4152204.00 0.03363
565594.25 4152214.00 0.02983
565594.25 4152224.00 0.02694
565594.25 4152234.00 0.02458
565594.25 4152244.00 0.02231
565594.25 4152254.00 0.02030
565594.25 4152264.00 0.01856
565594.25 4152274.00 0.01704
565594.25 4152284.00 0.01570
565604.25 4152094.00 0.26222
565604.25 4152104.00 0.21850
565604.25 4152114.00 0.17565
565604.25 4152124.00 0.13502
565604.25 4152134.00 0.10253
565604.25 4152144.00 0.07992
565604.25 4152154.00 0.06515
565604.25 4152164.00 0.05506
565604.25 4152174.00 0.04751
565604.25 4152184.00 0.04152
565604.25 4152194.00 0.03663
565604.25 4152204.00 0.03256
565604.25 4152214.00 0.02906
565604.25 4152224.00 0.02625
565604.25 4152234.00 0.02376
565604.25 4152244.00 0.02156
565604.25 4152254.00 0.01968
565604.25 4152264.00 0.01807
565604.25 4152274.00 0.01664
565604.25 4152284.00 0.01538
565614.25 4152094.00 0.27998
565614.25 4152104.00 0.23236
565614.25 4152114.00 0.18464
565614.25 4152124.00 0.13930
565614.25 4152134.00 0.10479
565614.25 4152144.00 0.07940
565614.25 4152154.00 0.06262
565614.25 4152164.00 0.05186
565614.25 4152174.00 0.04442
565614.25 4152184.00 0.03869
565614.25 4152194.00 0.03433
565614.25 4152204.00 0.03079
565614.25 4152214.00 0.02774
565614.25 4152224.00 0.02511
565614.25 4152234.00 0.02283
565614.25 4152244.00 0.02082
565614.25 4152254.00 0.01907
565614.25 4152264.00 0.01756
565614.25 4152274.00 0.01621

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565614.25	4152284.00	0.01501	565624.25	4152094.00	0.26881
565624.25	4152104.00	0.22286	565624.25	4152114.00	0.17712
565624.25	4152124.00	0.13154	565624.25	4152134.00	0.10026
565624.25	4152144.00	0.07709	565624.25	4152154.00	0.06031
565624.25	4152164.00	0.04924	565624.25	4152174.00	0.04142
565624.25	4152184.00	0.03582	565624.25	4152194.00	0.03195
565624.25	4152204.00	0.02896	565624.25	4152214.00	0.02627
565624.25	4152224.00	0.02389	565624.25	4152234.00	0.02182
565624.25	4152244.00	0.02000	565624.25	4152254.00	0.01841
565624.25	4152264.00	0.01700	565624.25	4152274.00	0.01574
565624.25	4152284.00	0.01461	565634.25	4152094.00	0.24189
565634.25	4152104.00	0.20159	565634.25	4152114.00	0.16195
565634.25	4152124.00	0.12161	565634.25	4152134.00	0.09404
565634.25	4152144.00	0.07333	565634.25	4152154.00	0.05792

565634.25 4152164.00 0.04695
565634.25 4152174.00 0.03915
565634.25 4152184.00 0.03369
565634.25 4152194.00 0.03005
565634.25 4152204.00 0.02729
565634.25 4152214.00 0.02480
565634.25 4152224.00 0.02263
565634.25 4152234.00 0.02076
565634.25 4152244.00 0.01912
565634.25 4152254.00 0.01767
565634.25 4152264.00 0.01638
565634.25 4152274.00 0.01522
565634.25 4152284.00 0.01417
565644.25 4152094.00 0.21350
565644.25 4152104.00 0.17912
565644.25 4152114.00 0.14586
565644.25 4152124.00 0.11232
565644.25 4152134.00 0.08791
565644.25 4152144.00 0.06920
565644.25 4152154.00 0.05517
565644.25 4152164.00 0.04483
565644.25 4152174.00 0.03749
565644.25 4152184.00 0.03229
565644.25 4152194.00 0.02863
565644.25 4152204.00 0.02578
565644.25 4152214.00 0.02340
565644.25 4152224.00 0.02139
565644.25 4152234.00 0.01969
565644.25 4152244.00 0.01820
565644.25 4152254.00 0.01688
565644.25 4152264.00 0.01571
565644.25 4152274.00 0.01465
565644.25 4152284.00 0.01369
565654.25 4152094.00 0.18798
565654.25 4152104.00 0.15894
565654.25 4152114.00 0.13120
565654.25 4152124.00 0.10332
565654.25 4152134.00 0.08189
565654.25 4152144.00 0.06518
565654.25 4152154.00 0.05233
565654.25 4152164.00 0.04289
565654.25 4152174.00 0.03604
565654.25 4152184.00 0.03106
565654.25 4152194.00 0.02727
565654.25 4152204.00 0.02438
565654.25 4152214.00 0.02208
565654.25 4152224.00 0.02020
565654.25 4152234.00 0.01863
565654.25 4152244.00 0.01727
565654.25 4152254.00 0.01607
565654.25 4152264.00 0.01500
565654.25 4152274.00 0.01404

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565654.25	4152284.00	0.01317	565664.25	4152094.00	0.16344
565664.25	4152104.00	0.13995	565664.25	4152114.00	0.11773
565664.25	4152124.00	0.09641	565664.25	4152134.00	0.07734
565664.25	4152144.00	0.06229	565664.25	4152154.00	0.05044
565664.25	4152164.00	0.04152	565664.25	4152174.00	0.03479
565664.25	4152184.00	0.02976	565664.25	4152194.00	0.02601
565664.25	4152204.00	0.02315	565664.25	4152214.00	0.02090
565664.25	4152224.00	0.01910	565664.25	4152234.00	0.01763
565664.25	4152244.00	0.01636	565664.25	4152254.00	0.01528
565664.25	4152264.00	0.01432	565664.25	4152274.00	0.01344
565664.25	4152284.00	0.01263	565674.25	4152094.00	0.14252
565674.25	4152104.00	0.12389	565674.25	4152114.00	0.10590
565674.25	4152124.00	0.08894	565674.25	4152134.00	0.07278
565674.25	4152144.00	0.05930	565674.25	4152154.00	0.04847

565674.25 4152164.00 0.04000
565674.25 4152174.00 0.03353
565674.25 4152184.00 0.02863
565674.25 4152194.00 0.02490
565674.25 4152204.00 0.02206
565674.25 4152214.00 0.01986
565674.25 4152224.00 0.01812
565674.25 4152234.00 0.01670
565674.25 4152244.00 0.01551
565674.25 4152254.00 0.01451
565674.25 4152264.00 0.01359
565674.25 4152274.00 0.01269
565674.25 4152284.00 0.01193
565684.25 4152094.00 0.12577
565684.25 4152104.00 0.11053
565684.25 4152114.00 0.09568
565684.25 4152124.00 0.08145
565684.25 4152134.00 0.06784
565684.25 4152144.00 0.05608
565684.25 4152154.00 0.04633
565684.25 4152164.00 0.03851
565684.25 4152174.00 0.03236
565684.25 4152184.00 0.02758
565684.25 4152194.00 0.02394
565684.25 4152204.00 0.02115
565684.25 4152214.00 0.01898
565684.25 4152224.00 0.01727
565684.25 4152234.00 0.01589
565684.25 4152244.00 0.01474
565684.25 4152254.00 0.01377
565684.25 4152264.00 0.01290
565684.25 4152274.00 0.01207
565684.25 4152284.00 0.01138
565694.25 4152094.00 0.10730
565694.25 4152104.00 0.09944
565694.25 4152114.00 0.08671
565694.25 4152124.00 0.07449
565694.25 4152134.00 0.06290
565694.25 4152144.00 0.05276
565694.25 4152154.00 0.04426
565694.25 4152164.00 0.03709
565694.25 4152174.00 0.03126
565694.25 4152184.00 0.02668
565694.25 4152194.00 0.02314
565694.25 4152204.00 0.02039
565694.25 4152214.00 0.01824
565694.25 4152224.00 0.01654
565694.25 4152234.00 0.01518
565694.25 4152244.00 0.01405
565694.25 4152254.00 0.01310
565694.25 4152264.00 0.01228
565694.25 4152274.00 0.01155

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565694.25	4152284.00	0.01092	565704.25	4152094.00	0.09647
565704.25	4152104.00	0.08577	565704.25	4152114.00	0.07893
565704.25	4152124.00	0.06836	565704.25	4152134.00	0.05854
565704.25	4152144.00	0.04979	565704.25	4152154.00	0.04227
565704.25	4152164.00	0.03571	565704.25	4152174.00	0.03026
565704.25	4152184.00	0.02589	565704.25	4152194.00	0.02246
565704.25	4152204.00	0.01976	565704.25	4152214.00	0.01763
565704.25	4152224.00	0.01594	565704.25	4152234.00	0.01456
565704.25	4152244.00	0.01343	565704.25	4152254.00	0.01249
565704.25	4152264.00	0.01170	565704.25	4152274.00	0.01102
565704.25	4152284.00	0.01042	565714.25	4152094.00	0.09504
565714.25	4152104.00	0.08448	565714.25	4152114.00	0.07447
565714.25	4152124.00	0.06486	565714.25	4152134.00	0.05574
565714.25	4152144.00	0.04759	565714.25	4152154.00	0.04054

565714.25 4152164.00 0.03446
565714.25 4152174.00 0.02937
565714.25 4152184.00 0.02523
565714.25 4152194.00 0.02191
565714.25 4152204.00 0.01927
565714.25 4152214.00 0.01713
565714.25 4152224.00 0.01541
565714.25 4152234.00 0.01401
565714.25 4152244.00 0.01284
565714.25 4152254.00 0.01190
565714.25 4152264.00 0.01114
565714.25 4152274.00 0.01050
565714.25 4152284.00 0.00993
565724.25 4152094.00 0.08886
565724.25 4152104.00 0.07927
565724.25 4152114.00 0.07020
565724.25 4152124.00 0.06150
565724.25 4152134.00 0.05310
565724.25 4152144.00 0.04552
565724.25 4152154.00 0.03892
565724.25 4152164.00 0.03328
565724.25 4152174.00 0.02854
565724.25 4152184.00 0.02462
565724.25 4152194.00 0.02143
565724.25 4152204.00 0.01882
565724.25 4152214.00 0.01669
565724.25 4152224.00 0.01494
565724.25 4152234.00 0.01350
565724.25 4152244.00 0.01233
565724.25 4152254.00 0.01139
565724.25 4152264.00 0.01064
565724.25 4152274.00 0.01001
565724.25 4152284.00 0.00947
565734.25 4152094.00 0.08311
565734.25 4152104.00 0.07434
565734.25 4152114.00 0.06600
565734.25 4152124.00 0.05805
565734.25 4152134.00 0.05043
565734.25 4152144.00 0.04351
565734.25 4152154.00 0.03743
565734.25 4152164.00 0.03217
565734.25 4152174.00 0.02769
565734.25 4152184.00 0.02393
565734.25 4152194.00 0.02087
565734.25 4152204.00 0.01838
565734.25 4152214.00 0.01631
565734.25 4152224.00 0.01460
565734.25 4152234.00 0.01315
565734.25 4152244.00 0.01196
565734.25 4152254.00 0.01101
565734.25 4152264.00 0.01025
565734.25 4152274.00 0.00962

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565734.25	4152284.00	0.00907	565744.25	4152094.00	0.07769
565744.25	4152104.00	0.06970	565744.25	4152114.00	0.06200
565744.25	4152124.00	0.05470	565744.25	4152134.00	0.04783
565744.25	4152144.00	0.04158	565744.25	4152154.00	0.03603
565744.25	4152164.00	0.03111	565744.25	4152174.00	0.02684
565744.25	4152184.00	0.02323	565744.25	4152194.00	0.02028
565744.25	4152204.00	0.01789	565744.25	4152214.00	0.01591
565744.25	4152224.00	0.01428	565744.25	4152234.00	0.01288
565744.25	4152244.00	0.01169	565744.25	4152254.00	0.01071
565744.25	4152264.00	0.00994	565744.25	4152274.00	0.00929
565744.25	4152284.00	0.00873	565754.25	4152094.00	0.07247
565754.25	4152104.00	0.06529	565754.25	4152114.00	0.05829
565754.25	4152124.00	0.05161	565754.25	4152134.00	0.04541
565754.25	4152144.00	0.03976	565754.25	4152154.00	0.03469

565754.25 4152164.00 0.03008
565754.25 4152174.00 0.02602
565754.25 4152184.00 0.02254
565754.25 4152194.00 0.01972
565754.25 4152204.00 0.01743
565754.25 4152214.00 0.01551
565754.25 4152224.00 0.01392
565754.25 4152234.00 0.01260
565754.25 4152244.00 0.01146
565754.25 4152254.00 0.01048
565754.25 4152264.00 0.00968
565754.25 4152274.00 0.00901
565754.25 4152284.00 0.00844
565764.25 4152094.00 0.06715
565764.25 4152104.00 0.06085
565764.25 4152114.00 0.05467
565764.25 4152124.00 0.04873
565764.25 4152134.00 0.04314
565764.25 4152144.00 0.03798
565764.25 4152154.00 0.03331
565764.25 4152164.00 0.02899
565764.25 4152174.00 0.02511
565764.25 4152184.00 0.02174
565764.25 4152194.00 0.01905
565764.25 4152204.00 0.01688
565764.25 4152214.00 0.01505
565764.25 4152224.00 0.01351
565764.25 4152234.00 0.01223
565764.25 4152244.00 0.01115
565764.25 4152254.00 0.01022
565764.25 4152264.00 0.00941
565764.25 4152274.00 0.00873
565764.25 4152284.00 0.00816
565574.25 4151994.00 0.45799
565574.25 4151984.00 0.43654
565574.25 4151974.00 0.40289
565574.25 4151964.00 0.35548
565574.25 4151954.00 0.30330
565574.25 4151944.00 0.25559
565574.25 4151934.00 0.21587
565574.25 4151924.00 0.18388
565574.25 4151914.00 0.15818
565574.25 4151904.00 0.13736
565574.25 4151894.00 0.12029
565574.25 4151884.00 0.10618
565574.25 4151874.00 0.09432
565574.25 4151864.00 0.08436
565574.25 4151854.00 0.07591
565574.25 4151844.00 0.06863
565574.25 4151834.00 0.06233
565574.25 4151824.00 0.05686
565574.25 4151814.00 0.05209

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565574.25	4151804.00	0.04793	565574.25	4151794.00	0.04424
565574.25	4151784.00	0.04094	565584.25	4151984.00	0.44928
565584.25	4151974.00	0.41816	565584.25	4151964.00	0.37311
565584.25	4151954.00	0.31814	565584.25	4151944.00	0.26605
565584.25	4151934.00	0.22296	565584.25	4151924.00	0.18871
565584.25	4151914.00	0.16157	565584.25	4151904.00	0.13980
565584.25	4151894.00	0.12210	565584.25	4151884.00	0.10739
565584.25	4151874.00	0.09523	565584.25	4151864.00	0.08505
565584.25	4151854.00	0.07643	565584.25	4151844.00	0.06907
565584.25	4151834.00	0.06277	565584.25	4151824.00	0.05729
565584.25	4151814.00	0.05248	565584.25	4151804.00	0.04822
565584.25	4151794.00	0.04445	565584.25	4151784.00	0.04109
565594.25	4151984.00	0.45243	565594.25	4151974.00	0.41971
565594.25	4151964.00	0.37342	565594.25	4151954.00	0.31845

565594.25 4151944.00 0.26620
565594.25 4151934.00 0.22297
565594.25 4151924.00 0.18866
565594.25 4151914.00 0.16148
565594.25 4151904.00 0.13971
565594.25 4151894.00 0.12202
565594.25 4151884.00 0.10748
565594.25 4151874.00 0.09533
565594.25 4151864.00 0.08512
565594.25 4151854.00 0.07645
565594.25 4151844.00 0.06910
565594.25 4151834.00 0.06281
565594.25 4151824.00 0.05734
565594.25 4151814.00 0.05252
565594.25 4151804.00 0.04821
565594.25 4151794.00 0.04442
565594.25 4151784.00 0.04104
565604.25 4152084.00 0.30951
565604.25 4151994.00 0.47344
565604.25 4151984.00 0.44777
565604.25 4151974.00 0.41049
565604.25 4151964.00 0.36088
565604.25 4151954.00 0.30644
565604.25 4151944.00 0.25702
565604.25 4151934.00 0.21654
565604.25 4151924.00 0.18428
565604.25 4151914.00 0.15843
565604.25 4151904.00 0.13746
565604.25 4151894.00 0.12033
565604.25 4151884.00 0.10619
565604.25 4151874.00 0.09439
565604.25 4151864.00 0.08442
565604.25 4151854.00 0.07589
565604.25 4151844.00 0.06864
565604.25 4151834.00 0.06246
565604.25 4151824.00 0.05707
565604.25 4151814.00 0.05229
565604.25 4151804.00 0.04799
565604.25 4151794.00 0.04419
565604.25 4151784.00 0.04084
565614.25 4152084.00 0.32476
565614.25 4152074.00 0.36519
565614.25 4152064.00 0.40028
565614.25 4152004.00 0.48190
565614.25 4151994.00 0.46698
565614.25 4151984.00 0.43814
565614.25 4151974.00 0.39318
565614.25 4151964.00 0.34023
565614.25 4151954.00 0.28880
565614.25 4151944.00 0.24401
565614.25 4151934.00 0.20729
565614.25 4151924.00 0.17764

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565614.25	4151914.00	0.15345	565614.25	4151904.00	0.13373
565614.25	4151894.00	0.11749	565614.25	4151884.00	0.10400
565614.25	4151874.00	0.09268	565614.25	4151864.00	0.08309
565614.25	4151854.00	0.07491	565614.25	4151844.00	0.06786
565614.25	4151834.00	0.06177	565614.25	4151824.00	0.05646
565614.25	4151814.00	0.05176	565614.25	4151804.00	0.04755
565614.25	4151794.00	0.04383	565614.25	4151784.00	0.04055
565624.25	4152084.00	0.31416	565624.25	4152074.00	0.35513
565624.25	4152064.00	0.39012	565624.25	4152054.00	0.41850
565624.25	4152044.00	0.43926	565624.25	4152034.00	0.45320
565624.25	4152024.00	0.46540	565624.25	4152014.00	0.47129
565624.25	4152004.00	0.46886	565624.25	4151994.00	0.45125
565624.25	4151984.00	0.41535	565624.25	4151974.00	0.36592
565624.25	4151964.00	0.31523	565624.25	4151954.00	0.26925

565624.25 4151944.00 0.22987
565624.25 4151934.00 0.19668
565624.25 4151924.00 0.16960
565624.25 4151914.00 0.14742
565624.25 4151904.00 0.12915
565624.25 4151894.00 0.11396
565624.25 4151884.00 0.10124
565624.25 4151874.00 0.09049
565624.25 4151864.00 0.08135
565624.25 4151854.00 0.07350
565624.25 4151844.00 0.06673
565624.25 4151834.00 0.06083
565624.25 4151824.00 0.05561
565624.25 4151814.00 0.05102
565624.25 4151804.00 0.04697
565624.25 4151794.00 0.04337
565624.25 4151784.00 0.04020
565634.25 4152084.00 0.28517
565634.25 4152074.00 0.32669
565634.25 4152064.00 0.36434
565634.25 4152054.00 0.39642
565634.25 4152044.00 0.42138
565634.25 4152034.00 0.43794
565634.25 4152024.00 0.44954
565634.25 4152014.00 0.45344
565634.25 4152004.00 0.44478
565634.25 4151994.00 0.41969
565634.25 4151984.00 0.38006
565634.25 4151974.00 0.33364
565634.25 4151964.00 0.28934
565634.25 4151954.00 0.24980
565634.25 4151944.00 0.21508
565634.25 4151934.00 0.18566
565634.25 4151924.00 0.16129
565634.25 4151914.00 0.14108
565634.25 4151904.00 0.12424
565634.25 4151894.00 0.11011
565634.25 4151884.00 0.09808
565634.25 4151874.00 0.08797
565634.25 4151864.00 0.07936
565634.25 4151854.00 0.07190
565634.25 4151844.00 0.06541
565634.25 4151834.00 0.05974
565634.25 4151824.00 0.05465
565634.25 4151814.00 0.05019
565634.25 4151804.00 0.04630
565634.25 4151794.00 0.04284
565634.25 4151784.00 0.03978
565644.25 4152084.00 0.25107
565644.25 4152074.00 0.28840
565644.25 4152064.00 0.32402
565644.25 4152054.00 0.35773

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565644.25	4152044.00	0.38623	565644.25	4152034.00	0.40769
565644.25	4152024.00	0.41942	565644.25	4152014.00	0.41929
565644.25	4152004.00	0.40488	565644.25	4151994.00	0.37778
565644.25	4151984.00	0.34195	565644.25	4151974.00	0.30283
565644.25	4151964.00	0.26556	565644.25	4151954.00	0.23130
565644.25	4151944.00	0.20092	565644.25	4151934.00	0.17504
565644.25	4151924.00	0.15320	565644.25	4151914.00	0.13484
565644.25	4151904.00	0.11935	565644.25	4151894.00	0.10625
565644.25	4151884.00	0.09505	565644.25	4151874.00	0.08552
565644.25	4151864.00	0.07733	565644.25	4151854.00	0.07020
565644.25	4151844.00	0.06400	565644.25	4151834.00	0.05854
565644.25	4151824.00	0.05364	565644.25	4151814.00	0.04937
565644.25	4151804.00	0.04566	565644.25	4151794.00	0.04234
565644.25	4151784.00	0.03938	565654.25	4152084.00	0.21959

565654.25 4152074.00 0.25132
565654.25 4152064.00 0.28216
565654.25 4152054.00 0.31188
565654.25 4152044.00 0.33803
565654.25 4152034.00 0.35804
565654.25 4152024.00 0.36954
565654.25 4152014.00 0.36910
565654.25 4152004.00 0.35644
565654.25 4151994.00 0.33390
565654.25 4151984.00 0.30508
565654.25 4151974.00 0.27380
565654.25 4151964.00 0.24279
565654.25 4151954.00 0.21355
565654.25 4151944.00 0.18752
565654.25 4151934.00 0.16491
565654.25 4151924.00 0.14550
565654.25 4151914.00 0.12885
565654.25 4151904.00 0.11464
565654.25 4151894.00 0.10249
565654.25 4151884.00 0.09205
565654.25 4151874.00 0.08306
565654.25 4151864.00 0.07527
565654.25 4151854.00 0.06849
565654.25 4151844.00 0.06256
565654.25 4151834.00 0.05729
565654.25 4151824.00 0.05260
565654.25 4151814.00 0.04852
565654.25 4151804.00 0.04498
565654.25 4151794.00 0.04180
565654.25 4151784.00 0.03889
565664.25 4152084.00 0.19018
565664.25 4152074.00 0.21722
565664.25 4152064.00 0.24376
565664.25 4152054.00 0.26966
565664.25 4152044.00 0.29249
565664.25 4152034.00 0.30989
565664.25 4152024.00 0.32003
565664.25 4152014.00 0.32053
565664.25 4152004.00 0.31137
565664.25 4151994.00 0.29450
565664.25 4151984.00 0.27246
565664.25 4151974.00 0.24711
565664.25 4151964.00 0.22132
565664.25 4151954.00 0.19706
565664.25 4151944.00 0.17501
565664.25 4151934.00 0.15538
565664.25 4151924.00 0.13814
565664.25 4151914.00 0.12313
565664.25 4151904.00 0.11013
565664.25 4151894.00 0.09887
565664.25 4151884.00 0.08913
565664.25 4151874.00 0.08066

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565664.25	4151864.00	0.07328	565664.25	4151854.00	0.06682
565664.25	4151844.00	0.06115	565664.25	4151834.00	0.05615
565664.25	4151824.00	0.05170	565664.25	4151814.00	0.04777
565664.25	4151804.00	0.04429	565664.25	4151794.00	0.04114
565664.25	4151784.00	0.03831	565674.25	4152084.00	0.16519
565674.25	4152074.00	0.18828	565674.25	4152064.00	0.21096
565674.25	4152054.00	0.23338	565674.25	4152044.00	0.25300
565674.25	4152034.00	0.26810	565674.25	4152024.00	0.27693
565674.25	4152014.00	0.27820	565674.25	4152004.00	0.27199
565674.25	4151994.00	0.25984	565674.25	4151984.00	0.24270
565674.25	4151974.00	0.22100	565674.25	4151964.00	0.20099
565674.25	4151954.00	0.18178	565674.25	4151944.00	0.16316
565674.25	4151934.00	0.14623	565674.25	4151924.00	0.13107
565674.25	4151914.00	0.11762	565674.25	4151904.00	0.10578

565674.25 4151894.00 0.09540
565674.25 4151884.00 0.08631
565674.25 4151874.00 0.07835
565674.25 4151864.00 0.07136
565674.25 4151854.00 0.06521
565674.25 4151844.00 0.05979
565674.25 4151834.00 0.05500
565674.25 4151824.00 0.05074
565674.25 4151814.00 0.04694
565674.25 4151804.00 0.04354
565674.25 4151794.00 0.04049
565674.25 4151784.00 0.03774
565684.25 4152084.00 0.14522
565684.25 4152074.00 0.16500
565684.25 4152064.00 0.18447
565684.25 4152054.00 0.20385
565684.25 4152044.00 0.22079
565684.25 4152034.00 0.23386
565684.25 4152024.00 0.24116
565684.25 4152014.00 0.24261
565684.25 4152004.00 0.23833
565684.25 4151994.00 0.22956
565684.25 4151984.00 0.21629
565684.25 4151974.00 0.19748
565684.25 4151964.00 0.18226
565684.25 4151954.00 0.16760
565684.25 4151944.00 0.15199
565684.25 4151934.00 0.13748
565684.25 4151924.00 0.12424
565684.25 4151914.00 0.11227
565684.25 4151904.00 0.10156
565684.25 4151894.00 0.09203
565684.25 4151884.00 0.08358
565684.25 4151874.00 0.07612
565684.25 4151864.00 0.06951
565684.25 4151854.00 0.06367
565684.25 4151844.00 0.05849
565684.25 4151834.00 0.05388
565684.25 4151824.00 0.04976
565684.25 4151814.00 0.04607
565684.25 4151804.00 0.04281
565684.25 4151794.00 0.03985
565684.25 4151784.00 0.03717
565694.25 4152084.00 0.12948
565694.25 4152074.00 0.14656
565694.25 4152064.00 0.16331
565694.25 4152054.00 0.18023
565694.25 4152044.00 0.19490
565694.25 4152034.00 0.20619
565694.25 4152024.00 0.21190
565694.25 4152014.00 0.21303
565694.25 4152004.00 0.20976

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565694.25	4151994.00	0.20335	565694.25	4151984.00	0.19334
565694.25	4151974.00	0.17864	565694.25	4151964.00	0.16625
565694.25	4151954.00	0.15416	565694.25	4151944.00	0.14148
565694.25	4151934.00	0.12912	565694.25	4151924.00	0.11761
565694.25	4151914.00	0.10703	565694.25	4151904.00	0.09740
565694.25	4151894.00	0.08871	565694.25	4151884.00	0.08091
565694.25	4151874.00	0.07394	565694.25	4151864.00	0.06772
565694.25	4151854.00	0.06218	565694.25	4151844.00	0.05723
565694.25	4151834.00	0.05280	565694.25	4151824.00	0.04885
565694.25	4151814.00	0.04529	565694.25	4151804.00	0.04210
565694.25	4151794.00	0.03923	565694.25	4151784.00	0.03663
565704.25	4152084.00	0.11089	565704.25	4152074.00	0.13090
565704.25	4152064.00	0.14542	565704.25	4152054.00	0.16020
565704.25	4152044.00	0.17294	565704.25	4152034.00	0.18267

565704.25 4152024.00 0.18721
565704.25 4152014.00 0.18817
565704.25 4152004.00 0.18568
565704.25 4151994.00 0.18102
565704.25 4151984.00 0.17345
565704.25 4151974.00 0.16191
565704.25 4151964.00 0.15181
565704.25 4151954.00 0.14174
565704.25 4151944.00 0.13157
565704.25 4151934.00 0.12112
565704.25 4151924.00 0.11117
565704.25 4151914.00 0.10188
565704.25 4151904.00 0.09328
565704.25 4151894.00 0.08541
565704.25 4151884.00 0.07826
565704.25 4151874.00 0.07179
565704.25 4151864.00 0.06596
565704.25 4151854.00 0.06072
565704.25 4151844.00 0.05600
565704.25 4151834.00 0.05177
565704.25 4151824.00 0.04796
565704.25 4151814.00 0.04453
565704.25 4151804.00 0.04143
565704.25 4151794.00 0.03864
565704.25 4151784.00 0.03610
565714.25 4152084.00 0.10844
565714.25 4152074.00 0.12186
565714.25 4152064.00 0.13469
565714.25 4152054.00 0.14612
565714.25 4152044.00 0.15582
565714.25 4152034.00 0.16315
565714.25 4152024.00 0.16693
565714.25 4152014.00 0.16786
565714.25 4152004.00 0.16603
565714.25 4151994.00 0.16229
565714.25 4151984.00 0.15601
565714.25 4151974.00 0.14690
565714.25 4151964.00 0.13895
565714.25 4151954.00 0.13081
565714.25 4151944.00 0.12234
565714.25 4151934.00 0.11349
565714.25 4151924.00 0.10494
565714.25 4151914.00 0.09682
565714.25 4151904.00 0.08920
565714.25 4151894.00 0.08213
565714.25 4151884.00 0.07561
565714.25 4151874.00 0.06964
565714.25 4151864.00 0.06420
565714.25 4151854.00 0.05927
565714.25 4151844.00 0.05480
565714.25 4151834.00 0.05075
565714.25 4151824.00 0.04709

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565714.25	4151814.00	0.04378	565714.25	4151804.00	0.04077
565714.25	4151794.00	0.03804	565714.25	4151784.00	0.03557
565724.25	4152084.00	0.10091	565724.25	4152074.00	0.11271
565724.25	4152064.00	0.12368	565724.25	4152054.00	0.13275
565724.25	4152044.00	0.14017	565724.25	4152034.00	0.14518
565724.25	4152024.00	0.14905	565724.25	4152014.00	0.15013
565724.25	4152004.00	0.14899	565724.25	4151994.00	0.14591
565724.25	4151984.00	0.14042	565724.25	4151974.00	0.13362
565724.25	4151964.00	0.12738	565724.25	4151954.00	0.12079
565724.25	4151944.00	0.11372	565724.25	4151934.00	0.10625
565724.25	4151924.00	0.09894	565724.25	4151914.00	0.09188
565724.25	4151904.00	0.08516	565724.25	4151894.00	0.07884
565724.25	4151884.00	0.07293	565724.25	4151874.00	0.06746
565724.25	4151864.00	0.06242	565724.25	4151854.00	0.05781

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         565724.25    4151844.00        0.05359
565724.25    4151834.00        0.04975
         565724.25    4151824.00        0.04625
565724.25    4151814.00        0.04303
         565724.25    4151804.00        0.04012
565724.25    4151794.00        0.03746
         565724.25    4151784.00        0.03506
565734.25    4152084.00        0.09336
         565734.25    4152074.00        0.10328
565734.25    4152064.00        0.11166
         565734.25    4152054.00        0.11886
565734.25    4152044.00        0.12476
         565734.25    4152034.00        0.12907
565734.25    4152024.00        0.13258
         565734.25    4152014.00        0.13426
565734.25    4152004.00        0.13404
         565734.25    4151994.00        0.13135
565734.25    4151984.00        0.12716
         565734.25    4151974.00        0.12193
565734.25    4151964.00        0.11699
         565734.25    4151954.00        0.11162
565734.25    4151944.00        0.10573
         565734.25    4151934.00        0.09944
565734.25    4151924.00        0.09319
         565734.25    4151914.00        0.08708
565734.25    4151904.00        0.08118
         565734.25    4151894.00        0.07556
565734.25    4151884.00        0.07024
         565734.25    4151874.00        0.06526
565734.25    4151864.00        0.06062
         565734.25    4151854.00        0.05632
565734.25    4151844.00        0.05237
         565734.25    4151834.00        0.04873
565734.25    4151824.00        0.04538
         565734.25    4151814.00        0.04230
565734.25    4151804.00        0.03949
         565734.25    4151794.00        0.03692
565734.25    4151784.00        0.03458
         565744.25    4152084.00        0.08619
565744.25    4152074.00        0.09439
         565744.25    4152064.00        0.10150
565744.25    4152054.00        0.10768
         565744.25    4152044.00        0.11273
565744.25    4152034.00        0.11646
         565744.25    4152024.00        0.11953
565744.25    4152014.00        0.12107
         565744.25    4152004.00        0.12114
565744.25    4151994.00        0.11907
         565744.25    4151984.00        0.11579
565744.25    4151974.00        0.11164
         565744.25    4151964.00        0.10763
565744.25    4151954.00        0.10321
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565744.25	4151944.00	0.09836	565744.25	4151934.00	0.09305
565744.25	4151924.00	0.08765	565744.25	4151914.00	0.08228
565744.25	4151904.00	0.07716	565744.25	4151894.00	0.07226
565744.25	4151884.00	0.06754	565744.25	4151874.00	0.06303
565744.25	4151864.00	0.05878	565744.25	4151854.00	0.05481
565744.25	4151844.00	0.05112	565744.25	4151834.00	0.04769
565744.25	4151824.00	0.04453	565744.25	4151814.00	0.04161
565744.25	4151804.00	0.03890	565744.25	4151794.00	0.03642
565744.25	4151784.00	0.03415	565754.25	4152084.00	0.07961
565754.25	4152074.00	0.08644	565754.25	4152064.00	0.09268
565754.25	4152054.00	0.09800	565754.25	4152044.00	0.10235
565754.25	4152034.00	0.10561	565754.25	4152024.00	0.10827
565754.25	4152014.00	0.10970	565754.25	4152004.00	0.10990
565754.25	4151994.00	0.10836	565754.25	4151984.00	0.10581

565754.25 4151974.00 0.10249
565754.25 4151964.00 0.09924
565754.25 4151954.00 0.09558
565754.25 4151944.00 0.09157
565754.25 4151934.00 0.08703
565754.25 4151924.00 0.08234
565754.25 4151914.00 0.07767
565754.25 4151904.00 0.07326
565754.25 4151894.00 0.06901
565754.25 4151884.00 0.06484
565754.25 4151874.00 0.06077
565754.25 4151864.00 0.05691
565754.25 4151854.00 0.05326
565754.25 4151844.00 0.04983
565754.25 4151834.00 0.04663
565754.25 4151824.00 0.04365
565754.25 4151814.00 0.04088
565754.25 4151804.00 0.03831
565754.25 4151794.00 0.03592
565754.25 4151784.00 0.03373
565764.25 4152084.00 0.07344
565764.25 4152074.00 0.07942
565764.25 4152064.00 0.08494
565764.25 4152054.00 0.08983
565764.25 4152044.00 0.09368
565764.25 4152034.00 0.09657
565764.25 4152024.00 0.09867
565764.25 4152014.00 0.09974
565764.25 4152004.00 0.09976
565764.25 4151994.00 0.09867
565764.25 4151984.00 0.09674
565764.25 4151974.00 0.09415
565764.25 4151964.00 0.09148
565764.25 4151954.00 0.08846
565764.25 4151944.00 0.08513
565764.25 4151934.00 0.08135
565764.25 4151924.00 0.07743
565764.25 4151914.00 0.07346
565764.25 4151904.00 0.06962
565764.25 4151894.00 0.06585
565764.25 4151884.00 0.06215
565764.25 4151874.00 0.05851
565764.25 4151864.00 0.05499
565764.25 4151854.00 0.05164
565764.25 4151844.00 0.04848
565764.25 4151834.00 0.04552
565764.25 4151824.00 0.04273
565764.25 4151814.00 0.04012
565764.25 4151804.00 0.03765
565764.25 4151794.00 0.03536
565764.25 4151784.00 0.03326
565564.25 4151974.00 0.37023

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565564.25	4151964.00	0.32342	565564.25	4151954.00	0.27761
565564.25	4151944.00	0.23683	565564.25	4151934.00	0.20256
565564.25	4151924.00	0.17448	565564.25	4151914.00	0.15140
565564.25	4151904.00	0.13234	565564.25	4151894.00	0.11651
565564.25	4151884.00	0.10328	565564.25	4151874.00	0.09213
565564.25	4151864.00	0.08267	565564.25	4151854.00	0.07457
565564.25	4151844.00	0.06758	565564.25	4151834.00	0.06140
565564.25	4151824.00	0.05601	565564.25	4151814.00	0.05134
565564.25	4151804.00	0.04734	565564.25	4151794.00	0.04378
565564.25	4151784.00	0.04057	565554.25	4151974.00	0.32675
565554.25	4151964.00	0.28508	565554.25	4151954.00	0.24707
565554.25	4151944.00	0.21368	565554.25	4151934.00	0.18544
565554.25	4151924.00	0.16174	565554.25	4151914.00	0.14182
565554.25	4151904.00	0.12511	565554.25	4151894.00	0.11095

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         565554.25    4151884.00        0.09894
565554.25    4151874.00        0.08871
         565554.25    4151864.00        0.07993
565554.25    4151854.00        0.07235
         565554.25    4151844.00        0.06578
565554.25    4151834.00        0.05991
         565554.25    4151824.00        0.05476
565554.25    4151814.00        0.05029
         565554.25    4151804.00        0.04643
565554.25    4151794.00        0.04300
         565554.25    4151784.00        0.03990
565544.25    4151974.00        0.28048
         565544.25    4151964.00        0.24620
565544.25    4151954.00        0.21587
         565544.25    4151944.00        0.18953
565544.25    4151934.00        0.16683
         565544.25    4151924.00        0.14733
565544.25    4151914.00        0.13061
         565544.25    4151904.00        0.11629
565544.25    4151894.00        0.10400
         565544.25    4151884.00        0.09341
565544.25    4151874.00        0.08427
         565544.25    4151864.00        0.07633
565544.25    4151854.00        0.06939
         565544.25    4151844.00        0.06325
565544.25    4151834.00        0.05787
         565544.25    4151824.00        0.05312
565544.25    4151814.00        0.04892
         565544.25    4151804.00        0.04522
565544.25    4151794.00        0.04190
         565544.25    4151784.00        0.03893
565534.25    4151974.00        0.23637
         565534.25    4151964.00        0.20964
565534.25    4151954.00        0.18616
         565534.25    4151944.00        0.16565
565534.25    4151934.00        0.14773
         565534.25    4151924.00        0.13208
565534.25    4151914.00        0.11843
         565534.25    4151904.00        0.10652
565534.25    4151894.00        0.09612
         565534.25    4151884.00        0.08702
565534.25    4151874.00        0.07905
         565534.25    4151864.00        0.07204
565534.25    4151854.00        0.06573
         565534.25    4151844.00        0.06019
565534.25    4151834.00        0.05537
         565534.25    4151824.00        0.05107
565534.25    4151814.00        0.04720
         565534.25    4151804.00        0.04369
565534.25    4151794.00        0.04054
         565534.25    4151784.00        0.03773
565524.25    4151974.00        0.19654
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565524.25	4151964.00	0.17654	565524.25	4151954.00	0.15883
565524.25	4151944.00	0.14317	565524.25	4151934.00	0.12929
565524.25	4151924.00	0.11697	565524.25	4151914.00	0.10605
565524.25	4151904.00	0.09635	565524.25	4151894.00	0.08775
565524.25	4151884.00	0.08010	565524.25	4151874.00	0.07330
565524.25	4151864.00	0.06724	565524.25	4151854.00	0.06173
565524.25	4151844.00	0.05684	565524.25	4151834.00	0.05250
565524.25	4151824.00	0.04860	565524.25	4151814.00	0.04507
565524.25	4151804.00	0.04188	565524.25	4151794.00	0.03899
565524.25	4151784.00	0.03639	565514.25	4151974.00	0.16162
565514.25	4151964.00	0.14724	565514.25	4151954.00	0.13426
565514.25	4151944.00	0.12257	565514.25	4151934.00	0.11204
565514.25	4151924.00	0.10254	565514.25	4151914.00	0.09397
565514.25	4151904.00	0.08624	565514.25	4151894.00	0.07926

565514.25 4151884.00 0.07296
565514.25 4151874.00 0.06727
565514.25 4151864.00 0.06212
565514.25 4151854.00 0.05743
565514.25 4151844.00 0.05318
565514.25 4151834.00 0.04934
565514.25 4151824.00 0.04585
565514.25 4151814.00 0.04270
565514.25 4151804.00 0.03983
565514.25 4151794.00 0.03723
565514.25 4151784.00 0.03486
565504.25 4151974.00 0.13170
565504.25 4151964.00 0.12178
565504.25 4151954.00 0.11258
565504.25 4151944.00 0.10409
565504.25 4151934.00 0.09630
565504.25 4151924.00 0.08913
565504.25 4151914.00 0.08255
565504.25 4151904.00 0.07649
565504.25 4151894.00 0.07094
565504.25 4151884.00 0.06584
565504.25 4151874.00 0.06115
565504.25 4151864.00 0.05684
565504.25 4151854.00 0.05289
565504.25 4151844.00 0.04928
565504.25 4151834.00 0.04597
565504.25 4151824.00 0.04294
565504.25 4151814.00 0.04016
565504.25 4151804.00 0.03762
565504.25 4151794.00 0.03529
565504.25 4151784.00 0.03316
565494.25 4151974.00 0.10659
565494.25 4151964.00 0.10007
565494.25 4151954.00 0.09380
565494.25 4151944.00 0.08784
565494.25 4151934.00 0.08222
565494.25 4151924.00 0.07693
565494.25 4151914.00 0.07192
565494.25 4151904.00 0.06726
565494.25 4151894.00 0.06291
565494.25 4151884.00 0.05886
565494.25 4151874.00 0.05508
565494.25 4151864.00 0.05157
565494.25 4151854.00 0.04830
565494.25 4151844.00 0.04529
565494.25 4151834.00 0.04250
565494.25 4151824.00 0.03992
565494.25 4151814.00 0.03752
565494.25 4151804.00 0.03530
565494.25 4151794.00 0.03324
565494.25 4151784.00 0.03134
565484.25 4151974.00 0.08596

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565484.25	4151964.00	0.08189	565484.25	4151954.00	0.07780
565484.25	4151944.00	0.07377	565484.25	4151934.00	0.06984
565484.25	4151924.00	0.06598	565484.25	4151914.00	0.06222
565484.25	4151904.00	0.05870	565484.25	4151894.00	0.05541
565484.25	4151884.00	0.05227	565484.25	4151874.00	0.04930
565484.25	4151864.00	0.04647	565484.25	4151854.00	0.04381
565484.25	4151844.00	0.04133	565484.25	4151834.00	0.03902
565484.25	4151824.00	0.03685	565484.25	4151814.00	0.03482
565484.25	4151804.00	0.03289	565484.25	4151794.00	0.03110
565484.25	4151784.00	0.02943	565474.25	4151974.00	0.06934
565474.25	4151964.00	0.06695	565474.25	4151954.00	0.06441
565474.25	4151944.00	0.06178	565474.25	4151934.00	0.05913
565474.25	4151924.00	0.05643	565474.25	4151914.00	0.05375
565474.25	4151904.00	0.05116	565474.25	4151894.00	0.04866

565474.25 4151884.00 0.04624
565474.25 4151874.00 0.04390
565474.25 4151864.00 0.04166
565474.25 4151854.00 0.03953
565474.25 4151844.00 0.03751
565474.25 4151834.00 0.03559
565474.25 4151824.00 0.03377
565474.25 4151814.00 0.03205
565474.25 4151804.00 0.03043
565474.25 4151794.00 0.02890
565474.25 4151784.00 0.02746
565464.25 4151974.00 0.05617
565464.25 4151964.00 0.05487
565464.25 4151954.00 0.05337
565464.25 4151944.00 0.05172
565464.25 4151934.00 0.04997
565464.25 4151924.00 0.04815
565464.25 4151914.00 0.04632
565464.25 4151904.00 0.04445
565464.25 4151894.00 0.04257
565464.25 4151884.00 0.04073
565464.25 4151874.00 0.03894
565464.25 4151864.00 0.03719
565464.25 4151854.00 0.03551
565464.25 4151844.00 0.03388
565464.25 4151834.00 0.03229
565464.25 4151824.00 0.03079
565464.25 4151814.00 0.02935
565464.25 4151804.00 0.02800
565464.25 4151794.00 0.02671
565464.25 4151784.00 0.02549
565454.25 4151974.00 0.04585
565454.25 4151964.00 0.04519
565454.25 4151954.00 0.04434
565454.25 4151944.00 0.04335
565454.25 4151934.00 0.04225
565454.25 4151924.00 0.04106
565454.25 4151914.00 0.03981
565454.25 4151904.00 0.03850
565454.25 4151894.00 0.03714
565454.25 4151884.00 0.03577
565454.25 4151874.00 0.03442
565454.25 4151864.00 0.03308
565454.25 4151854.00 0.03177
565454.25 4151844.00 0.03047
565454.25 4151834.00 0.02918
565454.25 4151824.00 0.02795
565454.25 4151814.00 0.02676
565454.25 4151804.00 0.02566
565454.25 4151794.00 0.02460
565454.25 4151784.00 0.02359
565444.25 4151974.00 0.03780

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565444.25	4151964.00	0.03754	565444.25	4151954.00	0.03710
565444.25	4151944.00	0.03650	565444.25	4151934.00	0.03582
565444.25	4151924.00	0.03505	565444.25	4151914.00	0.03422
565444.25	4151904.00	0.03332	565444.25	4151894.00	0.03236
565444.25	4151884.00	0.03138	565444.25	4151874.00	0.03037
565444.25	4151864.00	0.02936	565444.25	4151854.00	0.02835
565444.25	4151844.00	0.02733	565444.25	4151834.00	0.02629
565444.25	4151824.00	0.02528	565444.25	4151814.00	0.02432
565444.25	4151804.00	0.02344	565444.25	4151794.00	0.02258
565444.25	4151784.00	0.02175	565434.25	4151974.00	0.03150
565434.25	4151964.00	0.03145	565434.25	4151954.00	0.03125
565434.25	4151944.00	0.03092	565434.25	4151934.00	0.03050
565434.25	4151924.00	0.03002	565434.25	4151914.00	0.02948
565434.25	4151904.00	0.02887	565434.25	4151894.00	0.02822

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         565434.25    4151884.00        0.02752
565434.25    4151874.00        0.02679
         565434.25    4151864.00        0.02603
565434.25    4151854.00        0.02526
         565434.25    4151844.00        0.02446
565434.25    4151834.00        0.02363
         565434.25    4151824.00        0.02282
565434.25    4151814.00        0.02204
         565434.25    4151804.00        0.02134
565434.25    4151794.00        0.02066
         565434.25    4151784.00        0.01998
565424.25    4151974.00        0.02655
         565424.25    4151964.00        0.02660
565424.25    4151954.00        0.02653
         565424.25    4151944.00        0.02636
565424.25    4151934.00        0.02613
         565424.25    4151924.00        0.02585
565424.25    4151914.00        0.02550
         565424.25    4151904.00        0.02511
565424.25    4151894.00        0.02466
         565424.25    4151884.00        0.02418
565424.25    4151874.00        0.02365
         565424.25    4151864.00        0.02308
565424.25    4151854.00        0.02249
         565424.25    4151844.00        0.02188
565424.25    4151834.00        0.02123
         565424.25    4151824.00        0.02059
565424.25    4151814.00        0.01996
         565424.25    4151804.00        0.01939
565424.25    4151794.00        0.01883
         565424.25    4151784.00        0.01826
565414.25    4151974.00        0.02262
         565414.25    4151964.00        0.02271
565414.25    4151954.00        0.02272
         565414.25    4151944.00        0.02265
565414.25    4151934.00        0.02253
         565414.25    4151924.00        0.02237
565414.25    4151914.00        0.02216
         565414.25    4151904.00        0.02190
565414.25    4151894.00        0.02162
         565414.25    4151884.00        0.02129
565414.25    4151874.00        0.02091
         565414.25    4151864.00        0.02049
565414.25    4151854.00        0.02004
         565414.25    4151844.00        0.01957
565414.25    4151834.00        0.01907
         565414.25    4151824.00        0.01856
565414.25    4151814.00        0.01806
         565414.25    4151804.00        0.01760
565414.25    4151794.00        0.01713
         565414.25    4151784.00        0.01667
565404.25    4151974.00        0.01944
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565404.25	4151964.00	0.01954	565404.25	4151954.00	0.01958
565404.25	4151944.00	0.01959	565404.25	4151934.00	0.01955
565404.25	4151924.00	0.01947	565404.25	4151914.00	0.01935
565404.25	4151904.00	0.01920	565404.25	4151894.00	0.01901
565404.25	4151884.00	0.01878	565404.25	4151874.00	0.01852
565404.25	4151864.00	0.01822	565404.25	4151854.00	0.01790
565404.25	4151844.00	0.01755	565404.25	4151834.00	0.01717
565404.25	4151824.00	0.01678	565404.25	4151814.00	0.01639
565404.25	4151804.00	0.01600	565404.25	4151794.00	0.01560
565404.25	4151784.00	0.01521	565394.25	4151974.00	0.01683
565394.25	4151964.00	0.01694	565394.25	4151954.00	0.01701
565394.25	4151944.00	0.01706	565394.25	4151934.00	0.01707
565394.25	4151924.00	0.01705	565394.25	4151914.00	0.01700
565394.25	4151904.00	0.01691	565394.25	4151894.00	0.01678

565394.25 4151884.00 0.01662
565394.25 4151874.00 0.01644
565394.25 4151864.00 0.01625
565394.25 4151854.00 0.01603
565394.25 4151844.00 0.01578
565394.25 4151834.00 0.01550
565394.25 4151824.00 0.01520
565394.25 4151814.00 0.01489
565394.25 4151804.00 0.01455
565394.25 4151794.00 0.01421
565394.25 4151784.00 0.01388
565384.25 4151974.00 0.01471
565384.25 4151964.00 0.01481
565384.25 4151954.00 0.01489
565384.25 4151944.00 0.01496
565384.25 4151934.00 0.01500
565384.25 4151924.00 0.01501
565384.25 4151914.00 0.01500
565384.25 4151904.00 0.01495
565384.25 4151894.00 0.01487
565384.25 4151884.00 0.01477
565384.25 4151874.00 0.01465
565384.25 4151864.00 0.01453
565384.25 4151854.00 0.01438
565384.25 4151844.00 0.01420
565384.25 4151834.00 0.01399
565384.25 4151824.00 0.01377
565384.25 4151814.00 0.01353
565384.25 4151804.00 0.01325
565384.25 4151794.00 0.01296
565384.25 4151784.00 0.01268
565374.25 4151974.00 0.01299
565374.25 4151964.00 0.01307
565374.25 4151954.00 0.01314
565374.25 4151944.00 0.01321
565374.25 4151934.00 0.01326
565374.25 4151924.00 0.01329
565374.25 4151914.00 0.01330
565374.25 4151904.00 0.01328
565374.25 4151894.00 0.01325
565374.25 4151884.00 0.01320
565374.25 4151874.00 0.01312
565374.25 4151864.00 0.01302
565374.25 4151854.00 0.01291
565374.25 4151844.00 0.01277
565374.25 4151834.00 0.01263
565374.25 4151824.00 0.01247
565374.25 4151814.00 0.01229
565374.25 4151804.00 0.01207
565374.25 4151794.00 0.01185
565374.25 4151784.00 0.01162
565364.25 4151974.00 0.01155

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565364.25	4151964.00	0.01161	565364.25	4151954.00	0.01168
565364.25	4151944.00	0.01174	565364.25	4151934.00	0.01179
565364.25	4151924.00	0.01182	565364.25	4151914.00	0.01184
565364.25	4151904.00	0.01186	565364.25	4151894.00	0.01186
565364.25	4151884.00	0.01184	565364.25	4151874.00	0.01180
565364.25	4151864.00	0.01171	565364.25	4151854.00	0.01162
565364.25	4151844.00	0.01152	565364.25	4151834.00	0.01142
565364.25	4151824.00	0.01131	565364.25	4151814.00	0.01118
565364.25	4151804.00	0.01101	565364.25	4151794.00	0.01084
565364.25	4151784.00	0.01066	565354.25	4151974.00	0.01035
565354.25	4151964.00	0.01040	565354.25	4151954.00	0.01045
565354.25	4151944.00	0.01049	565354.25	4151934.00	0.01054
565354.25	4151924.00	0.01058	565354.25	4151914.00	0.01062
565354.25	4151904.00	0.01064	565354.25	4151894.00	0.01065

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         565354.25    4151884.00        0.01064
565354.25    4151874.00        0.01062
         565354.25    4151864.00        0.01057
565354.25    4151854.00        0.01051
         565354.25    4151844.00        0.01044
565354.25    4151834.00        0.01035
         565354.25    4151824.00        0.01026
565354.25    4151814.00        0.01016
         565354.25    4151804.00        0.01004
565354.25    4151794.00        0.00990
         565354.25    4151784.00        0.00977
565344.25    4151974.00        0.00934
         565344.25    4151964.00        0.00937
565344.25    4151954.00        0.00940
         565344.25    4151944.00        0.00943
565344.25    4151934.00        0.00947
         565344.25    4151924.00        0.00952
565344.25    4151914.00        0.00956
         565344.25    4151904.00        0.00959
565344.25    4151894.00        0.00960
         565344.25    4151884.00        0.00960
565344.25    4151874.00        0.00959
         565344.25    4151864.00        0.00957
565344.25    4151854.00        0.00953
         565344.25    4151844.00        0.00948
565344.25    4151834.00        0.00941
         565344.25    4151824.00        0.00933
565344.25    4151814.00        0.00925
         565344.25    4151804.00        0.00916
565344.25    4151794.00        0.00906
         565344.25    4151784.00        0.00896
565334.25    4151974.00        0.00846
         565334.25    4151964.00        0.00848
565334.25    4151954.00        0.00850
         565334.25    4151944.00        0.00852
565334.25    4151934.00        0.00855
         565334.25    4151924.00        0.00860
565334.25    4151914.00        0.00864
         565334.25    4151904.00        0.00867
565334.25    4151894.00        0.00868
         565334.25    4151884.00        0.00869
565334.25    4151874.00        0.00869
         565334.25    4151864.00        0.00868
565334.25    4151854.00        0.00867
         565334.25    4151844.00        0.00864
565334.25    4151834.00        0.00858
         565334.25    4151824.00        0.00851
565334.25    4151814.00        0.00844
         565334.25    4151804.00        0.00838
565334.25    4151794.00        0.00831
         565334.25    4151784.00        0.00824
565324.25    4151974.00        0.00768
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1
, A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565324.25	4151964.00	0.00770	565324.25	4151954.00	0.00772
565324.25	4151944.00	0.00774	565324.25	4151934.00	0.00777
565324.25	4151924.00	0.00780	565324.25	4151914.00	0.00782
565324.25	4151904.00	0.00785	565324.25	4151894.00	0.00787
565324.25	4151884.00	0.00789	565324.25	4151874.00	0.00791
565324.25	4151864.00	0.00791	565324.25	4151854.00	0.00790
565324.25	4151844.00	0.00788	565324.25	4151834.00	0.00784
565324.25	4151824.00	0.00780	565324.25	4151814.00	0.00775
565324.25	4151804.00	0.00770	565324.25	4151794.00	0.00765
565324.25	4151784.00	0.00759	565314.25	4151974.00	0.00701
565314.25	4151964.00	0.00703	565314.25	4151954.00	0.00705
565314.25	4151944.00	0.00707	565314.25	4151934.00	0.00709
565314.25	4151924.00	0.00710	565314.25	4151914.00	0.00711
565314.25	4151904.00	0.00714	565314.25	4151894.00	0.00717

565314.25 4151884.00 0.00720
565314.25 4151874.00 0.00722
565314.25 4151864.00 0.00722
565314.25 4151854.00 0.00721
565314.25 4151844.00 0.00720
565314.25 4151834.00 0.00718
565314.25 4151824.00 0.00716
565314.25 4151814.00 0.00712
565314.25 4151804.00 0.00709
565314.25 4151794.00 0.00705
565314.25 4151784.00 0.00700
565304.25 4151974.00 0.00644
565304.25 4151964.00 0.00645
565304.25 4151954.00 0.00646
565304.25 4151944.00 0.00647
565304.25 4151934.00 0.00648
565304.25 4151924.00 0.00650
565304.25 4151914.00 0.00651
565304.25 4151904.00 0.00653
565304.25 4151894.00 0.00655
565304.25 4151884.00 0.00657
565304.25 4151874.00 0.00659
565304.25 4151864.00 0.00660
565304.25 4151854.00 0.00660
565304.25 4151844.00 0.00660
565304.25 4151834.00 0.00659
565304.25 4151824.00 0.00658
565304.25 4151814.00 0.00656
565304.25 4151804.00 0.00653
565304.25 4151794.00 0.00649
565304.25 4151784.00 0.00645
565294.25 4151974.00 0.00593
565294.25 4151964.00 0.00594
565294.25 4151954.00 0.00594
565294.25 4151944.00 0.00594
565294.25 4151934.00 0.00595
565294.25 4151924.00 0.00597
565294.25 4151914.00 0.00598
565294.25 4151904.00 0.00600
565294.25 4151894.00 0.00601
565294.25 4151884.00 0.00602
565294.25 4151874.00 0.00603
565294.25 4151864.00 0.00605
565294.25 4151854.00 0.00606
565294.25 4151844.00 0.00607
565294.25 4151834.00 0.00607
565294.25 4151824.00 0.00606
565294.25 4151814.00 0.00605
565294.25 4151804.00 0.00603
565294.25 4151794.00 0.00600
565294.25 4151784.00 0.00596
565284.25 4151974.00 0.00548

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565284.25	4151964.00	0.00548	565284.25	4151954.00	0.00548
565284.25	4151944.00	0.00548	565284.25	4151934.00	0.00549
565284.25	4151924.00	0.00550	565284.25	4151914.00	0.00551
565284.25	4151904.00	0.00553	565284.25	4151894.00	0.00553
565284.25	4151884.00	0.00554	565284.25	4151874.00	0.00555
565284.25	4151864.00	0.00557	565284.25	4151854.00	0.00558
565284.25	4151844.00	0.00559	565284.25	4151834.00	0.00559
565284.25	4151824.00	0.00560	565284.25	4151814.00	0.00559
565284.25	4151804.00	0.00557	565284.25	4151794.00	0.00555
565284.25	4151784.00	0.00553	565274.25	4151974.00	0.00506
565274.25	4151964.00	0.00507	565274.25	4151954.00	0.00507
565274.25	4151944.00	0.00507	565274.25	4151934.00	0.00508
565274.25	4151924.00	0.00509	565274.25	4151914.00	0.00509
565274.25	4151904.00	0.00510	565274.25	4151894.00	0.00511

565274.25 4151884.00 0.00512
565274.25 4151874.00 0.00513
565274.25 4151864.00 0.00514
565274.25 4151854.00 0.00515
565274.25 4151844.00 0.00516
565274.25 4151834.00 0.00517
565274.25 4151824.00 0.00517
565274.25 4151814.00 0.00517
565274.25 4151804.00 0.00517
565274.25 4151794.00 0.00516
565274.25 4151784.00 0.00514
565264.25 4151974.00 0.00470
565264.25 4151964.00 0.00470
565264.25 4151954.00 0.00470
565264.25 4151944.00 0.00471
565264.25 4151934.00 0.00472
565264.25 4151924.00 0.00472
565264.25 4151914.00 0.00472
565264.25 4151904.00 0.00473
565264.25 4151894.00 0.00473
565264.25 4151884.00 0.00474
565264.25 4151874.00 0.00475
565264.25 4151864.00 0.00476
565264.25 4151854.00 0.00477
565264.25 4151844.00 0.00478
565264.25 4151834.00 0.00479
565264.25 4151824.00 0.00479
565264.25 4151814.00 0.00479
565264.25 4151804.00 0.00480
565264.25 4151794.00 0.00480
565264.25 4151784.00 0.00479
565454.25 4151984.00 0.04626
565454.25 4151994.00 0.04636
565454.25 4152004.00 0.04608
565454.25 4152014.00 0.04552
565454.25 4152024.00 0.04464
565454.25 4152034.00 0.04349
565454.25 4152044.00 0.04214
565454.25 4152054.00 0.04071
565454.25 4152064.00 0.03924
565454.25 4152074.00 0.03786
565454.25 4152084.00 0.03673
565454.25 4152094.00 0.03599
565454.25 4152104.00 0.03559
565454.25 4152114.00 0.03534
565454.25 4152124.00 0.03507
565454.25 4152134.00 0.03465
565454.25 4152144.00 0.03403
565454.25 4152154.00 0.03320
565454.25 4152164.00 0.03218
565454.25 4152174.00 0.03100
565454.25 4152184.00 0.02969

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565454.25	4152194.00	0.02827	565454.25	4152204.00	0.02676
565454.25	4152214.00	0.02521	565454.25	4152224.00	0.02370
565454.25	4152234.00	0.02222	565454.25	4152244.00	0.02080
565454.25	4152254.00	0.01945	565454.25	4152264.00	0.01818
565454.25	4152274.00	0.01700	565454.25	4152284.00	0.01590
565444.25	4151984.00	0.03788	565444.25	4151994.00	0.03775
565444.25	4152004.00	0.03740	565444.25	4152014.00	0.03686
565444.25	4152024.00	0.03614	565444.25	4152034.00	0.03528
565444.25	4152044.00	0.03433	565444.25	4152054.00	0.03332
565444.25	4152064.00	0.03230	565444.25	4152074.00	0.03132
565444.25	4152084.00	0.03050	565444.25	4152094.00	0.02995
565444.25	4152104.00	0.02968	565444.25	4152114.00	0.02961
565444.25	4152124.00	0.02960	565444.25	4152134.00	0.02954
565444.25	4152144.00	0.02934	565444.25	4152154.00	0.02897

565444.25 4152164.00 0.02841
565444.25 4152174.00 0.02769
565444.25 4152184.00 0.02681
565444.25 4152194.00 0.02581
565444.25 4152204.00 0.02470
565444.25 4152214.00 0.02351
565444.25 4152224.00 0.02228
565444.25 4152234.00 0.02105
565444.25 4152244.00 0.01983
565444.25 4152254.00 0.01867
565444.25 4152264.00 0.01755
565444.25 4152274.00 0.01649
565444.25 4152284.00 0.01548
565434.25 4151984.00 0.03143
565434.25 4151994.00 0.03122
565434.25 4152004.00 0.03087
565434.25 4152014.00 0.03041
565434.25 4152024.00 0.02985
565434.25 4152034.00 0.02922
565434.25 4152044.00 0.02853
565434.25 4152054.00 0.02779
565434.25 4152064.00 0.02704
565434.25 4152074.00 0.02632
565434.25 4152084.00 0.02571
565434.25 4152094.00 0.02528
565434.25 4152104.00 0.02508
565434.25 4152114.00 0.02506
565434.25 4152124.00 0.02516
565434.25 4152134.00 0.02527
565434.25 4152144.00 0.02532
565434.25 4152154.00 0.02524
565434.25 4152164.00 0.02502
565434.25 4152174.00 0.02464
565434.25 4152184.00 0.02411
565434.25 4152194.00 0.02345
565434.25 4152204.00 0.02266
565434.25 4152214.00 0.02179
565434.25 4152224.00 0.02083
565434.25 4152234.00 0.01983
565434.25 4152244.00 0.01882
565434.25 4152254.00 0.01783
565434.25 4152264.00 0.01687
565434.25 4152274.00 0.01592
565434.25 4152284.00 0.01501
565424.25 4151984.00 0.02641
565424.25 4151994.00 0.02619
565424.25 4152004.00 0.02588
565424.25 4152014.00 0.02551
565424.25 4152024.00 0.02508
565424.25 4152034.00 0.02461
565424.25 4152044.00 0.02409
565424.25 4152054.00 0.02354

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565424.25	4152064.00	0.02298	565424.25	4152074.00	0.02243
565424.25	4152084.00	0.02196	565424.25	4152094.00	0.02161
565424.25	4152104.00	0.02144	565424.25	4152114.00	0.02144
565424.25	4152124.00	0.02156	565424.25	4152134.00	0.02174
565424.25	4152144.00	0.02191	565424.25	4152154.00	0.02201
565424.25	4152164.00	0.02201	565424.25	4152174.00	0.02187
565424.25	4152184.00	0.02161	565424.25	4152194.00	0.02121
565424.25	4152204.00	0.02069	565424.25	4152214.00	0.02007
565424.25	4152224.00	0.01937	565424.25	4152234.00	0.01859
565424.25	4152244.00	0.01777	565424.25	4152254.00	0.01695
565424.25	4152264.00	0.01613	565424.25	4152274.00	0.01530
565424.25	4152284.00	0.01450	565414.25	4151984.00	0.02246
565414.25	4151994.00	0.02226	565414.25	4152004.00	0.02201
565414.25	4152014.00	0.02171	565414.25	4152024.00	0.02139

565414.25 4152034.00 0.02102
565414.25 4152044.00 0.02063
565414.25 4152054.00 0.02021
565414.25 4152064.00 0.01977
565414.25 4152074.00 0.01934
565414.25 4152084.00 0.01896
565414.25 4152094.00 0.01868
565414.25 4152104.00 0.01853
565414.25 4152114.00 0.01852
565414.25 4152124.00 0.01863
565414.25 4152134.00 0.01882
565414.25 4152144.00 0.01904
565414.25 4152154.00 0.01923
565414.25 4152164.00 0.01936
565414.25 4152174.00 0.01939
565414.25 4152184.00 0.01931
565414.25 4152194.00 0.01912
565414.25 4152204.00 0.01882
565414.25 4152214.00 0.01841
565414.25 4152224.00 0.01791
565414.25 4152234.00 0.01733
565414.25 4152244.00 0.01670
565414.25 4152254.00 0.01603
565414.25 4152264.00 0.01535
565414.25 4152274.00 0.01465
565414.25 4152284.00 0.01395
565404.25 4151984.00 0.01928
565404.25 4151994.00 0.01909
565404.25 4152004.00 0.01891
565404.25 4152014.00 0.01871
565404.25 4152024.00 0.01846
565404.25 4152034.00 0.01818
565404.25 4152044.00 0.01787
565404.25 4152054.00 0.01754
565404.25 4152064.00 0.01719
565404.25 4152074.00 0.01685
565404.25 4152084.00 0.01655
565404.25 4152094.00 0.01631
565404.25 4152104.00 0.01617
565404.25 4152114.00 0.01615
565404.25 4152124.00 0.01624
565404.25 4152134.00 0.01642
565404.25 4152144.00 0.01664
565404.25 4152154.00 0.01686
565404.25 4152164.00 0.01706
565404.25 4152174.00 0.01719
565404.25 4152184.00 0.01724
565404.25 4152194.00 0.01720
565404.25 4152204.00 0.01706
565404.25 4152214.00 0.01683
565404.25 4152224.00 0.01650
565404.25 4152234.00 0.01609

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565404.25	4152244.00	0.01562	565404.25	4152254.00	0.01510
565404.25	4152264.00	0.01455	565404.25	4152274.00	0.01397
565404.25	4152284.00	0.01337	565394.25	4151984.00	0.01671
565394.25	4151994.00	0.01657	565394.25	4152004.00	0.01644
565394.25	4152014.00	0.01629	565394.25	4152024.00	0.01610
565394.25	4152034.00	0.01587	565394.25	4152044.00	0.01563
565394.25	4152054.00	0.01537	565394.25	4152064.00	0.01509
565394.25	4152074.00	0.01481	565394.25	4152084.00	0.01456
565394.25	4152094.00	0.01436	565394.25	4152104.00	0.01424
565394.25	4152114.00	0.01421	565394.25	4152124.00	0.01427
565394.25	4152134.00	0.01442	565394.25	4152144.00	0.01462
565394.25	4152154.00	0.01485	565394.25	4152164.00	0.01507
565394.25	4152174.00	0.01526	565394.25	4152184.00	0.01539
565394.25	4152194.00	0.01546	565394.25	4152204.00	0.01544

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         565394.25    4152214.00        0.01533
565394.25    4152224.00        0.01514
         565394.25    4152234.00        0.01487
565394.25    4152244.00        0.01454
         565394.25    4152254.00        0.01416
565394.25    4152264.00        0.01373
         565394.25    4152274.00        0.01326
565394.25    4152284.00        0.01276
         565384.25    4151984.00        0.01462
565384.25    4151994.00        0.01452
         565384.25    4152004.00        0.01443
565384.25    4152014.00        0.01432
         565384.25    4152024.00        0.01416
565384.25    4152034.00        0.01397
         565384.25    4152044.00        0.01379
565384.25    4152054.00        0.01358
         565384.25    4152064.00        0.01335
565384.25    4152074.00        0.01313
         565384.25    4152084.00        0.01292
565384.25    4152094.00        0.01274
         565384.25    4152104.00        0.01263
565384.25    4152114.00        0.01259
         565384.25    4152124.00        0.01263
565384.25    4152134.00        0.01275
         565384.25    4152144.00        0.01293
565384.25    4152154.00        0.01312
         565384.25    4152164.00        0.01337
565384.25    4152174.00        0.01358
         565384.25    4152184.00        0.01376
565384.25    4152194.00        0.01388
         565384.25    4152204.00        0.01394
565384.25    4152214.00        0.01393
         565384.25    4152224.00        0.01385
565384.25    4152234.00        0.01370
         565384.25    4152244.00        0.01349
565384.25    4152254.00        0.01322
         565384.25    4152264.00        0.01290
565384.25    4152274.00        0.01253
         565384.25    4152284.00        0.01214
565374.25    4151984.00        0.01292
         565374.25    4151994.00        0.01285
565374.25    4152004.00        0.01278
         565374.25    4152014.00        0.01269
565374.25    4152024.00        0.01256
         565374.25    4152034.00        0.01241
565374.25    4152044.00        0.01226
         565374.25    4152054.00        0.01209
565374.25    4152064.00        0.01190
         565374.25    4152074.00        0.01171
565374.25    4152084.00        0.01153
         565374.25    4152094.00        0.01138
565374.25    4152104.00        0.01128
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565374.25	4152114.00	0.01124	565374.25	4152124.00	0.01126
565374.25	4152134.00	0.01135	565374.25	4152144.00	0.01150
565374.25	4152154.00	0.01169	565374.25	4152164.00	0.01190
565374.25	4152174.00	0.01211	565374.25	4152184.00	0.01231
565374.25	4152194.00	0.01248	565374.25	4152204.00	0.01260
565374.25	4152214.00	0.01266	565374.25	4152224.00	0.01266
565374.25	4152234.00	0.01260	565374.25	4152244.00	0.01247
565374.25	4152254.00	0.01231	565374.25	4152264.00	0.01207
565374.25	4152274.00	0.01174	565374.25	4152284.00	0.01144
565364.25	4151984.00	0.01150	565364.25	4151994.00	0.01145
565364.25	4152004.00	0.01140	565364.25	4152014.00	0.01132
565364.25	4152024.00	0.01122	565364.25	4152034.00	0.01110
565364.25	4152044.00	0.01098	565364.25	4152054.00	0.01083
565364.25	4152064.00	0.01067	565364.25	4152074.00	0.01051

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         565364.25    4152084.00        0.01036
565364.25    4152094.00        0.01023
         565364.25    4152104.00        0.01014
565364.25    4152114.00        0.01009
         565364.25    4152124.00        0.01010
565364.25    4152134.00        0.01017
         565364.25    4152144.00        0.01029
565364.25    4152154.00        0.01045
         565364.25    4152164.00        0.01064
565364.25    4152174.00        0.01085
         565364.25    4152184.00        0.01105
565364.25    4152194.00        0.01123
         565364.25    4152204.00        0.01138
565364.25    4152214.00        0.01149
         565364.25    4152224.00        0.01155
565364.25    4152234.00        0.01156
         565364.25    4152244.00        0.01151
565364.25    4152254.00        0.01142
         565364.25    4152264.00        0.01122
565364.25    4152274.00        0.01095
         565364.25    4152284.00        0.01074
565354.25    4151984.00        0.01032
         565354.25    4151994.00        0.01028
565354.25    4152004.00        0.01024
         565354.25    4152014.00        0.01017
565354.25    4152024.00        0.01008
         565354.25    4152034.00        0.00999
565354.25    4152044.00        0.00988
         565354.25    4152054.00        0.00976
565354.25    4152064.00        0.00963
         565354.25    4152074.00        0.00949
565354.25    4152084.00        0.00936
         565354.25    4152094.00        0.00925
565354.25    4152104.00        0.00916
         565354.25    4152114.00        0.00912
565354.25    4152124.00        0.00911
         565354.25    4152134.00        0.00916
565354.25    4152144.00        0.00926
         565354.25    4152154.00        0.00939
565354.25    4152164.00        0.00956
         565354.25    4152174.00        0.00975
565354.25    4152184.00        0.00994
         565354.25    4152194.00        0.01013
565354.25    4152204.00        0.01029
         565354.25    4152214.00        0.01043
565354.25    4152224.00        0.01053
         565354.25    4152234.00        0.01059
565354.25    4152244.00        0.01060
         565354.25    4152254.00        0.01057
565354.25    4152264.00        0.01048
         565354.25    4152274.00        0.01031
565354.25    4152284.00        0.01016
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565344.25	4151984.00	0.00931	565344.25	4151994.00	0.00928
565344.25	4152004.00	0.00923	565344.25	4152014.00	0.00918
565344.25	4152024.00	0.00911	565344.25	4152034.00	0.00903
565344.25	4152044.00	0.00894	565344.25	4152054.00	0.00884
565344.25	4152064.00	0.00872	565344.25	4152074.00	0.00861
565344.25	4152084.00	0.00850	565344.25	4152094.00	0.00840
565344.25	4152104.00	0.00832	565344.25	4152114.00	0.00827
565344.25	4152124.00	0.00826	565344.25	4152134.00	0.00829
565344.25	4152144.00	0.00837	565344.25	4152154.00	0.00848
565344.25	4152164.00	0.00863	565344.25	4152174.00	0.00879
565344.25	4152184.00	0.00897	565344.25	4152194.00	0.00915
565344.25	4152204.00	0.00933	565344.25	4152214.00	0.00948
565344.25	4152224.00	0.00960	565344.25	4152234.00	0.00969
565344.25	4152244.00	0.00975	565344.25	4152254.00	0.00975

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         565344.25    4152264.00        0.00971
565344.25    4152274.00        0.00964
         565344.25    4152284.00        0.00954
565334.25    4151984.00        0.00844
         565334.25    4151994.00        0.00841
565334.25    4152004.00        0.00837
         565334.25    4152014.00        0.00833
565334.25    4152024.00        0.00827
         565334.25    4152034.00        0.00821
565334.25    4152044.00        0.00813
         565334.25    4152054.00        0.00804
565334.25    4152064.00        0.00794
         565334.25    4152074.00        0.00784
565334.25    4152084.00        0.00775
         565334.25    4152094.00        0.00766
565334.25    4152104.00        0.00759
         565334.25    4152114.00        0.00754
565334.25    4152124.00        0.00751
         565334.25    4152134.00        0.00754
565334.25    4152144.00        0.00761
         565334.25    4152154.00        0.00770
565334.25    4152164.00        0.00782
         565334.25    4152174.00        0.00797
565334.25    4152184.00        0.00813
         565334.25    4152194.00        0.00830
565334.25    4152204.00        0.00847
         565334.25    4152214.00        0.00862
565334.25    4152224.00        0.00876
         565334.25    4152234.00        0.00887
565334.25    4152244.00        0.00896
         565334.25    4152254.00        0.00898
565334.25    4152264.00        0.00895
         565334.25    4152274.00        0.00888
565334.25    4152284.00        0.00884
         565324.25    4151984.00        0.00767
565324.25    4151994.00        0.00765
         565324.25    4152004.00        0.00762
565324.25    4152014.00        0.00759
         565324.25    4152024.00        0.00754
565324.25    4152034.00        0.00748
         565324.25    4152044.00        0.00743
565324.25    4152054.00        0.00735
         565324.25    4152064.00        0.00727
565324.25    4152074.00        0.00718
         565324.25    4152084.00        0.00709
565324.25    4152094.00        0.00701
         565324.25    4152104.00        0.00695
565324.25    4152114.00        0.00690
         565324.25    4152124.00        0.00688
565324.25    4152134.00        0.00689
         565324.25    4152144.00        0.00694
565324.25    4152154.00        0.00702
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565324.25	4152164.00	0.00712	565324.25	4152174.00	0.00725
565324.25	4152184.00	0.00739	565324.25	4152194.00	0.00755
565324.25	4152204.00	0.00771	565324.25	4152214.00	0.00786
565324.25	4152224.00	0.00800	565324.25	4152234.00	0.00813
565324.25	4152244.00	0.00823	565324.25	4152254.00	0.00827
565324.25	4152264.00	0.00826	565324.25	4152274.00	0.00820
565324.25	4152284.00	0.00821	565314.25	4151984.00	0.00700
565314.25	4151994.00	0.00699	565314.25	4152004.00	0.00697
565314.25	4152014.00	0.00694	565314.25	4152024.00	0.00690
565314.25	4152034.00	0.00686	565314.25	4152044.00	0.00681
565314.25	4152054.00	0.00674	565314.25	4152064.00	0.00667
565314.25	4152074.00	0.00659	565314.25	4152084.00	0.00652
565314.25	4152094.00	0.00644	565314.25	4152104.00	0.00638
565314.25	4152114.00	0.00634	565314.25	4152124.00	0.00632

565314.25 4152134.00 0.00633
565314.25 4152144.00 0.00636
565314.25 4152154.00 0.00643
565314.25 4152164.00 0.00651
565314.25 4152174.00 0.00662
565314.25 4152184.00 0.00674
565314.25 4152194.00 0.00688
565314.25 4152204.00 0.00703
565314.25 4152214.00 0.00718
565314.25 4152224.00 0.00732
565314.25 4152234.00 0.00745
565314.25 4152244.00 0.00756
565314.25 4152254.00 0.00762
565314.25 4152264.00 0.00761
565314.25 4152274.00 0.00756
565314.25 4152284.00 0.00761
565304.25 4151984.00 0.00642
565304.25 4151994.00 0.00641
565304.25 4152004.00 0.00639
565304.25 4152014.00 0.00637
565304.25 4152024.00 0.00635
565304.25 4152034.00 0.00631
565304.25 4152044.00 0.00626
565304.25 4152054.00 0.00621
565304.25 4152064.00 0.00614
565304.25 4152074.00 0.00608
565304.25 4152084.00 0.00601
565304.25 4152094.00 0.00594
565304.25 4152104.00 0.00589
565304.25 4152114.00 0.00585
565304.25 4152124.00 0.00583
565304.25 4152134.00 0.00583
565304.25 4152144.00 0.00586
565304.25 4152154.00 0.00590
565304.25 4152164.00 0.00597
565304.25 4152174.00 0.00606
565304.25 4152184.00 0.00617
565304.25 4152194.00 0.00630
565304.25 4152204.00 0.00643
565304.25 4152214.00 0.00657
565304.25 4152224.00 0.00671
565304.25 4152234.00 0.00684
565304.25 4152244.00 0.00696
565304.25 4152254.00 0.00703
565304.25 4152264.00 0.00706
565304.25 4152274.00 0.00706
565304.25 4152284.00 0.00712
565294.25 4151984.00 0.00592
565294.25 4151994.00 0.00590
565294.25 4152004.00 0.00589
565294.25 4152014.00 0.00588
565294.25 4152024.00 0.00586

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1
, A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565294.25	4152034.00	0.00583	565294.25	4152044.00	0.00578
565294.25	4152054.00	0.00573	565294.25	4152064.00	0.00568
565294.25	4152074.00	0.00562	565294.25	4152084.00	0.00556
565294.25	4152094.00	0.00549	565294.25	4152104.00	0.00545
565294.25	4152114.00	0.00542	565294.25	4152124.00	0.00540
565294.25	4152134.00	0.00539	565294.25	4152144.00	0.00541
565294.25	4152154.00	0.00544	565294.25	4152164.00	0.00550
565294.25	4152174.00	0.00558	565294.25	4152184.00	0.00567
565294.25	4152194.00	0.00579	565294.25	4152204.00	0.00591
565294.25	4152214.00	0.00603	565294.25	4152224.00	0.00616
565294.25	4152234.00	0.00629	565294.25	4152244.00	0.00640
565294.25	4152254.00	0.00651	565294.25	4152264.00	0.00658
565294.25	4152274.00	0.00663	565294.25	4152284.00	0.00670
565284.25	4151984.00	0.00547	565284.25	4151994.00	0.00545

565284.25 4152004.00 0.00544
565284.25 4152014.00 0.00544
565284.25 4152024.00 0.00542
565284.25 4152034.00 0.00539
565284.25 4152044.00 0.00536
565284.25 4152054.00 0.00531
565284.25 4152064.00 0.00526
565284.25 4152074.00 0.00521
565284.25 4152084.00 0.00516
565284.25 4152094.00 0.00510
565284.25 4152104.00 0.00506
565284.25 4152114.00 0.00503
565284.25 4152124.00 0.00501
565284.25 4152134.00 0.00500
565284.25 4152144.00 0.00501
565284.25 4152154.00 0.00504
565284.25 4152164.00 0.00508
565284.25 4152174.00 0.00515
565284.25 4152184.00 0.00523
565284.25 4152194.00 0.00533
565284.25 4152204.00 0.00544
565284.25 4152214.00 0.00555
565284.25 4152224.00 0.00567
565284.25 4152234.00 0.00579
565284.25 4152244.00 0.00591
565284.25 4152254.00 0.00601
565284.25 4152264.00 0.00611
565284.25 4152274.00 0.00620
565284.25 4152284.00 0.00627
565274.25 4151984.00 0.00506
565274.25 4151994.00 0.00506
565274.25 4152004.00 0.00505
565274.25 4152014.00 0.00505
565274.25 4152024.00 0.00503
565274.25 4152034.00 0.00501
565274.25 4152044.00 0.00497
565274.25 4152054.00 0.00493
565274.25 4152064.00 0.00489
565274.25 4152074.00 0.00484
565274.25 4152084.00 0.00480
565274.25 4152094.00 0.00475
565274.25 4152104.00 0.00471
565274.25 4152114.00 0.00468
565274.25 4152124.00 0.00466
565274.25 4152134.00 0.00465
565274.25 4152144.00 0.00466
565274.25 4152154.00 0.00468
565274.25 4152164.00 0.00471
565274.25 4152174.00 0.00477
565274.25 4152184.00 0.00484
565274.25 4152194.00 0.00492
565274.25 4152204.00 0.00502

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565274.25	4152214.00	0.00512	565274.25	4152224.00	0.00523
565274.25	4152234.00	0.00534	565274.25	4152244.00	0.00545
565274.25	4152254.00	0.00556	565274.25	4152264.00	0.00566
565274.25	4152274.00	0.00575	565274.25	4152284.00	0.00583
565264.25	4151984.00	0.00470	565264.25	4151994.00	0.00470
565264.25	4152004.00	0.00470	565264.25	4152014.00	0.00470
565264.25	4152024.00	0.00468	565264.25	4152034.00	0.00466
565264.25	4152044.00	0.00463	565264.25	4152054.00	0.00460
565264.25	4152064.00	0.00456	565264.25	4152074.00	0.00451
565264.25	4152084.00	0.00447	565264.25	4152094.00	0.00443
565264.25	4152104.00	0.00440	565264.25	4152114.00	0.00437
565264.25	4152124.00	0.00435	565264.25	4152134.00	0.00434
565264.25	4152144.00	0.00434	565264.25	4152154.00	0.00435
565264.25	4152164.00	0.00438	565264.25	4152174.00	0.00443

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         565264.25    4152184.00         0.00449
565264.25    4152194.00         0.00456
         565264.25    4152204.00         0.00464
565264.25    4152214.00         0.00473
         565264.25    4152224.00         0.00484
565264.25    4152234.00         0.00494
         565264.25    4152244.00         0.00505
565264.25    4152254.00         0.00515
         565264.25    4152264.00         0.00525
565264.25    4152274.00         0.00534
         565264.25    4152284.00         0.00542
565264.25    4152367.25         0.00559
         565264.25    4152450.75         0.00488
565264.25    4152534.00         0.00388
         565358.00    4152367.25         0.00803
565358.00    4152450.75         0.00574
         565358.00    4152534.00         0.00420
565451.75    4152367.25         0.00951
         565451.75    4152450.75         0.00631
565451.75    4152534.00         0.00449
         565545.50    4152367.25         0.00955
565545.50    4152450.75         0.00608
         565545.50    4152534.00         0.00427
565639.25    4152367.25         0.00834
         565639.25    4152450.75         0.00557
565639.25    4152534.00         0.00396
         565733.00    4152367.25         0.00633
565733.00    4152450.75         0.00475
         565733.00    4152534.00         0.00362
565826.75    4152367.25         0.00443
         565826.75    4152450.75         0.00341
565826.75    4152534.00         0.00286
         565920.50    4152367.25         0.00386
565920.50    4152450.75         0.00262
         565920.50    4152534.00         0.00211
566014.25    4152367.25         0.00375
         566014.25    4152450.75         0.00241
566014.25    4152534.00         0.00176
         565847.56    4152284.00         0.00719
565847.56    4152190.25         0.01720
         565847.56    4152096.50         0.03806
565847.56    4152002.75         0.05280
         565847.56    4151909.00         0.04572
565847.56    4151815.25         0.03279
         565847.56    4151721.50         0.02157
565847.56    4151627.75         0.01420
         565847.56    4151534.00         0.00983
565930.94    4152284.00         0.00675
         565930.94    4152190.25         0.01389
565930.94    4152096.50         0.02519
         565930.94    4152002.75         0.03250
565930.94    4151909.00         0.03054
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565930.94	4151815.25	0.02507	565930.94	4151721.50	0.01893
565930.94	4151627.75	0.01358	565930.94	4151534.00	0.00970
566014.25	4152284.00	0.00623	566014.25	4152190.25	0.01110
566014.25	4152096.50	0.01768	566014.25	4152002.75	0.02196
566014.25	4151909.00	0.02153	566014.25	4151815.25	0.01903
566014.25	4151721.50	0.01582	566014.25	4151627.75	0.01239
566014.25	4151534.00	0.00942	565764.25	4151700.75	0.02087
565764.25	4151617.25	0.01414	565764.25	4151534.00	0.01019
565670.50	4151700.75	0.02275	565670.50	4151617.25	0.01496
565670.50	4151534.00	0.01055	565576.75	4151700.75	0.02358
565576.75	4151617.25	0.01522	565576.75	4151534.00	0.01057
565483.00	4151700.75	0.01930	565483.00	4151617.25	0.01332
565483.00	4151534.00	0.00967	565389.25	4151700.75	0.01097
565389.25	4151617.25	0.00894	565389.25	4151534.00	0.00724

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         565295.50    4151700.75        0.00560
565295.50    4151617.25        0.00516
         565295.50    4151534.00        0.00450
565201.75    4151700.75        0.00309
         565201.75    4151617.25        0.00299
565201.75    4151534.00        0.00278
         565108.00    4151700.75        0.00193
565108.00    4151617.25        0.00192
         565108.00    4151534.00        0.00184
565014.25    4151700.75        0.00123
         565014.25    4151617.25        0.00123
565014.25    4151534.00        0.00128
         565180.94    4151784.00        0.00278
565180.94    4151877.75        0.00273
         565180.94    4151971.50        0.00279
565180.94    4152065.25        0.00274
         565180.94    4152159.00        0.00262
565180.94    4152252.75        0.00290
         565180.94    4152346.50        0.00345
565180.94    4152440.25        0.00366
         565180.94    4152534.00        0.00336
565097.56    4151784.00        0.00175
         565097.56    4151877.75        0.00178
565097.56    4151971.50        0.00185
         565097.56    4152065.25        0.00184
565097.56    4152159.00        0.00176
         565097.56    4152252.75        0.00186
565097.56    4152346.50        0.00217
         565097.56    4152440.25        0.00250
565097.56    4152534.00        0.00261
         565014.25    4151784.00        0.00122
565014.25    4151877.75        0.00118
         565014.25    4151971.50        0.00133
565014.25    4152065.25        0.00132
         565014.25    4152159.00        0.00127
565014.25    4152252.75        0.00130
         565014.25    4152346.50        0.00146
565014.25    4152440.25        0.00169
         565014.25    4152534.00        0.00189
565502.65    4152072.47        0.11000
         565589.07    4151982.88        0.47016
565619.89    4152017.45        0.51253
         565621.62    4152031.56        0.48904
565618.45    4152045.97        0.47294
         565600.88    4152086.01        0.33788
565578.70    4152137.28        0.09291
         565504.04    4152071.95        0.11377
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565464.25	4151984.00	0.05705	565464.25	4152009.00	0.05764
565464.25	4152034.00	0.05489	565464.25	4152059.00	0.04965
565464.25	4152084.00	0.04492	565489.25	4151984.00	0.10067
565489.25	4152009.00	0.11176	565489.25	4152034.00	0.11279
565489.25	4152059.00	0.09285	565489.25	4152084.00	0.07820
565514.25	4151984.00	0.17728	565514.25	4152009.00	0.22089
565514.25	4152034.00	0.23789	565514.25	4152059.00	0.16365
565514.25	4152084.00	0.11904	565539.25	4151984.00	0.29138
565539.25	4152009.00	0.36762	565539.25	4152034.00	0.36290
565564.25	4151984.00	0.41051	565564.25	4152009.00	0.45908
565464.25	4152094.00	0.04387	565464.25	4152104.00	0.04317
565464.25	4152114.00	0.04252	565464.25	4152124.00	0.04170
565464.25	4152134.00	0.04066	565464.25	4152144.00	0.03939
565464.25	4152154.00	0.03792	565464.25	4152164.00	0.03628

565464.25 4152174.00 0.03453
565464.25 4152184.00 0.03268
565464.25 4152194.00 0.03078
565464.25 4152204.00 0.02883
565464.25 4152214.00 0.02691
565464.25 4152224.00 0.02508
565464.25 4152234.00 0.02334
565464.25 4152244.00 0.02170
565464.25 4152254.00 0.02018
565464.25 4152264.00 0.01876
565464.25 4152274.00 0.01747
565464.25 4152284.00 0.01628
565474.25 4152094.00 0.05428
565474.25 4152104.00 0.05294
565474.25 4152114.00 0.05144
565474.25 4152124.00 0.04967
565474.25 4152134.00 0.04765
565474.25 4152144.00 0.04545
565474.25 4152154.00 0.04313
565474.25 4152164.00 0.04071
565474.25 4152174.00 0.03825
565474.25 4152184.00 0.03578
565474.25 4152194.00 0.03330
565474.25 4152204.00 0.03088
565474.25 4152214.00 0.02857
565474.25 4152224.00 0.02641
565474.25 4152234.00 0.02440
565474.25 4152244.00 0.02254
565474.25 4152254.00 0.02084
565474.25 4152264.00 0.01929
565474.25 4152274.00 0.01789
565474.25 4152284.00 0.01662
565484.25 4152094.00 0.06760
565484.25 4152104.00 0.06507
565484.25 4152114.00 0.06217
565484.25 4152124.00 0.05895
565484.25 4152134.00 0.05559
565484.25 4152144.00 0.05217
565484.25 4152154.00 0.04877
565484.25 4152164.00 0.04540
565484.25 4152174.00 0.04210
565484.25 4152184.00 0.03888
565484.25 4152194.00 0.03578
565484.25 4152204.00 0.03285
565484.25 4152214.00 0.03012
565484.25 4152224.00 0.02762
565484.25 4152234.00 0.02535
565484.25 4152244.00 0.02329
565484.25 4152254.00 0.02143
565484.25 4152264.00 0.01976
565484.25 4152274.00 0.01826
565484.25 4152284.00 0.01692

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565494.25	4152094.00	0.08321	565494.25	4152104.00	0.07920
565494.25	4152114.00	0.07384	565494.25	4152124.00	0.06833
565494.25	4152134.00	0.06370	565494.25	4152144.00	0.05918
565494.25	4152154.00	0.05475	565494.25	4152164.00	0.05026
565494.25	4152174.00	0.04599	565494.25	4152184.00	0.04194
565494.25	4152194.00	0.03816	565494.25	4152204.00	0.03469
565494.25	4152214.00	0.03152	565494.25	4152224.00	0.02870
565494.25	4152234.00	0.02620	565494.25	4152244.00	0.02395
565494.25	4152254.00	0.02195	565494.25	4152264.00	0.02017
565494.25	4152274.00	0.01858	565494.25	4152284.00	0.01718
565504.25	4152094.00	0.09910	565504.25	4152104.00	0.09378
565504.25	4152114.00	0.08633	565504.25	4152124.00	0.07844
565504.25	4152134.00	0.07221	565504.25	4152144.00	0.06644
565504.25	4152154.00	0.06092	565504.25	4152164.00	0.05513

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         565504.25    4152174.00        0.04976
565504.25    4152184.00        0.04482
         565504.25    4152194.00        0.04032
565504.25    4152204.00        0.03629
         565504.25    4152214.00        0.03271
565504.25    4152224.00        0.02960
         565504.25    4152234.00        0.02687
565504.25    4152244.00        0.02445
         565504.25    4152254.00        0.02233
565504.25    4152264.00        0.02046
         565504.25    4152274.00        0.01881
565504.25    4152284.00        0.01736
         565514.25    4152094.00        0.11378
565514.25    4152104.00        0.10852
         565514.25    4152114.00        0.10015
565514.25    4152124.00        0.09030
         565514.25    4152134.00        0.08160
565514.25    4152144.00        0.07368
         565514.25    4152154.00        0.06634
565514.25    4152164.00        0.05942
         565514.25    4152174.00        0.05308
565514.25    4152184.00        0.04736
         565514.25    4152194.00        0.04217
565514.25    4152204.00        0.03762
         565514.25    4152214.00        0.03366
565514.25    4152224.00        0.03028
         565514.25    4152234.00        0.02734
565514.25    4152244.00        0.02480
         565514.25    4152254.00        0.02258
565514.25    4152264.00        0.02065
         565514.25    4152274.00        0.01895
565514.25    4152284.00        0.01746
         565524.25    4152094.00        0.12744
565524.25    4152104.00        0.12131
         565524.25    4152114.00        0.11295
565524.25    4152124.00        0.10227
         565524.25    4152134.00        0.09111
565524.25    4152144.00        0.08058
         565524.25    4152154.00        0.07098
565524.25    4152164.00        0.06289
         565524.25    4152174.00        0.05574
565524.25    4152184.00        0.04940
         565524.25    4152194.00        0.04355
565524.25    4152204.00        0.03856
         565524.25    4152214.00        0.03432
565524.25    4152224.00        0.03071
         565524.25    4152234.00        0.02763
565524.25    4152244.00        0.02499
         565524.25    4152254.00        0.02271
565524.25    4152264.00        0.02073
         565524.25    4152274.00        0.01899
565524.25    4152284.00        0.01747
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565534.25	4152104.00	0.13070	565534.25	4152114.00	0.12195
565534.25	4152124.00	0.11169	565534.25	4152134.00	0.09946
565534.25	4152144.00	0.08682	565534.25	4152154.00	0.07494
565534.25	4152164.00	0.06544	565534.25	4152174.00	0.05738
565534.25	4152184.00	0.05042	565534.25	4152194.00	0.04427
565534.25	4152204.00	0.03904	565534.25	4152214.00	0.03463
565534.25	4152224.00	0.03089	565534.25	4152234.00	0.02772
565534.25	4152244.00	0.02502	565534.25	4152254.00	0.02270
565534.25	4152264.00	0.02068	565534.25	4152274.00	0.01891
565534.25	4152284.00	0.01738	565544.25	4152114.00	0.12583
565544.25	4152124.00	0.11593	565544.25	4152134.00	0.10483
565544.25	4152144.00	0.09177	565544.25	4152154.00	0.07814
565544.25	4152164.00	0.06661	565544.25	4152174.00	0.05718
565544.25	4152184.00	0.04945	565544.25	4152194.00	0.04353

565544.25 4152204.00 0.03870
565544.25 4152214.00 0.03457
565544.25 4152224.00 0.03082
565544.25 4152234.00 0.02761
565544.25 4152244.00 0.02488
565544.25 4152254.00 0.02244
565544.25 4152264.00 0.02033
565544.25 4152274.00 0.01849
565544.25 4152284.00 0.01702
565554.25 4152124.00 0.11341
565554.25 4152134.00 0.10487
565554.25 4152144.00 0.09411
565554.25 4152154.00 0.07958
565554.25 4152164.00 0.06616
565554.25 4152174.00 0.05546
565554.25 4152184.00 0.04366
565554.25 4152194.00 0.04192
565554.25 4152204.00 0.03787
565554.25 4152214.00 0.03416
565554.25 4152224.00 0.03049
565554.25 4152234.00 0.02729
565554.25 4152244.00 0.02452
565554.25 4152254.00 0.02205
565554.25 4152264.00 0.01986
565554.25 4152274.00 0.01797
565554.25 4152284.00 0.01656
565564.25 4152134.00 0.09923
565564.25 4152144.00 0.09077
565564.25 4152154.00 0.07893
565564.25 4152164.00 0.06654
565564.25 4152174.00 0.05628
565564.25 4152184.00 0.04804
565564.25 4152194.00 0.04233
565564.25 4152204.00 0.03776
565564.25 4152214.00 0.03365
565564.25 4152224.00 0.02960
565564.25 4152234.00 0.02662
565564.25 4152244.00 0.02407
565564.25 4152254.00 0.02178
565564.25 4152264.00 0.01975
565564.25 4152274.00 0.01799
565564.25 4152284.00 0.01657
565574.25 4152134.00 0.09395
565574.25 4152144.00 0.08554
565574.25 4152154.00 0.07573
565574.25 4152164.00 0.06545
565574.25 4152174.00 0.05617
565574.25 4152184.00 0.04841
565574.25 4152194.00 0.04228
565574.25 4152204.00 0.03669
565574.25 4152214.00 0.03176
565574.25 4152224.00 0.02835

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565574.25	4152234.00	0.02578	565574.25	4152244.00	0.02351
565574.25	4152254.00	0.02139	565574.25	4152264.00	0.01950
565574.25	4152274.00	0.01785	565574.25	4152284.00	0.01641
565584.25	4152134.00	0.09066	565584.25	4152144.00	0.08101
565584.25	4152154.00	0.07175	565584.25	4152164.00	0.06169
565584.25	4152174.00	0.05272	565584.25	4152184.00	0.04537
565584.25	4152194.00	0.03934	565584.25	4152204.00	0.03439
565584.25	4152214.00	0.03035	565584.25	4152224.00	0.02740
565584.25	4152234.00	0.02506	565584.25	4152244.00	0.02296
565584.25	4152254.00	0.02087	565584.25	4152264.00	0.01902
565584.25	4152274.00	0.01741	565584.25	4152284.00	0.01602
565594.25	4152104.00	0.19947	565594.25	4152114.00	0.15300
565594.25	4152124.00	0.11840	565594.25	4152134.00	0.09540
565594.25	4152144.00	0.08008	565594.25	4152154.00	0.06844

565594.25 4152164.00 0.05868
565594.25 4152174.00 0.05048
565594.25 4152184.00 0.04377
565594.25 4152194.00 0.03822
565594.25 4152204.00 0.03362
565594.25 4152214.00 0.02982
565594.25 4152224.00 0.02693
565594.25 4152234.00 0.02457
565594.25 4152244.00 0.02231
565594.25 4152254.00 0.02029
565594.25 4152264.00 0.01855
565594.25 4152274.00 0.01703
565594.25 4152284.00 0.01570
565604.25 4152094.00 0.26218
565604.25 4152104.00 0.21847
565604.25 4152114.00 0.17562
565604.25 4152124.00 0.13499
565604.25 4152134.00 0.10251
565604.25 4152144.00 0.07990
565604.25 4152154.00 0.06514
565604.25 4152164.00 0.05505
565604.25 4152174.00 0.04750
565604.25 4152184.00 0.04151
565604.25 4152194.00 0.03662
565604.25 4152204.00 0.03255
565604.25 4152214.00 0.02905
565604.25 4152224.00 0.02624
565604.25 4152234.00 0.02375
565604.25 4152244.00 0.02156
565604.25 4152254.00 0.01968
565604.25 4152264.00 0.01806
565604.25 4152274.00 0.01664
565604.25 4152284.00 0.01537
565614.25 4152094.00 0.27995
565614.25 4152104.00 0.23233
565614.25 4152114.00 0.18461
565614.25 4152124.00 0.13928
565614.25 4152134.00 0.10478
565614.25 4152144.00 0.07938
565614.25 4152154.00 0.06260
565614.25 4152164.00 0.05185
565614.25 4152174.00 0.04441
565614.25 4152184.00 0.03868
565614.25 4152194.00 0.03432
565614.25 4152204.00 0.03078
565614.25 4152214.00 0.02774
565614.25 4152224.00 0.02510
565614.25 4152234.00 0.02282
565614.25 4152244.00 0.02081
565614.25 4152254.00 0.01907
565614.25 4152264.00 0.01755
565614.25 4152274.00 0.01620

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565614.25	4152284.00	0.01500	565624.25	4152094.00	0.26877
565624.25	4152104.00	0.22283	565624.25	4152114.00	0.17709
565624.25	4152124.00	0.13152	565624.25	4152134.00	0.10024
565624.25	4152144.00	0.07707	565624.25	4152154.00	0.06030
565624.25	4152164.00	0.04923	565624.25	4152174.00	0.04141
565624.25	4152184.00	0.03581	565624.25	4152194.00	0.03194
565624.25	4152204.00	0.02895	565624.25	4152214.00	0.02626
565624.25	4152224.00	0.02388	565624.25	4152234.00	0.02181
565624.25	4152244.00	0.02000	565624.25	4152254.00	0.01840
565624.25	4152264.00	0.01699	565624.25	4152274.00	0.01573
565624.25	4152284.00	0.01461	565634.25	4152094.00	0.24185
565634.25	4152104.00	0.20156	565634.25	4152114.00	0.16192
565634.25	4152124.00	0.12159	565634.25	4152134.00	0.09403
565634.25	4152144.00	0.07331	565634.25	4152154.00	0.05791

565634.25 4152164.00 0.04694
565634.25 4152174.00 0.03914
565634.25 4152184.00 0.03368
565634.25 4152194.00 0.03004
565634.25 4152204.00 0.02728
565634.25 4152214.00 0.02479
565634.25 4152224.00 0.02262
565634.25 4152234.00 0.02076
565634.25 4152244.00 0.01912
565634.25 4152254.00 0.01767
565634.25 4152264.00 0.01637
565634.25 4152274.00 0.01521
565634.25 4152284.00 0.01417
565644.25 4152094.00 0.21346
565644.25 4152104.00 0.17909
565644.25 4152114.00 0.14583
565644.25 4152124.00 0.11230
565644.25 4152134.00 0.08790
565644.25 4152144.00 0.06919
565644.25 4152154.00 0.05516
565644.25 4152164.00 0.04482
565644.25 4152174.00 0.03748
565644.25 4152184.00 0.03228
565644.25 4152194.00 0.02862
565644.25 4152204.00 0.02577
565644.25 4152214.00 0.02339
565644.25 4152224.00 0.02138
565644.25 4152234.00 0.01968
565644.25 4152244.00 0.01819
565644.25 4152254.00 0.01688
565644.25 4152264.00 0.01570
565644.25 4152274.00 0.01464
565644.25 4152284.00 0.01369
565654.25 4152094.00 0.18795
565654.25 4152104.00 0.15891
565654.25 4152114.00 0.13118
565654.25 4152124.00 0.10330
565654.25 4152134.00 0.08187
565654.25 4152144.00 0.06516
565654.25 4152154.00 0.05232
565654.25 4152164.00 0.04288
565654.25 4152174.00 0.03603
565654.25 4152184.00 0.03105
565654.25 4152194.00 0.02726
565654.25 4152204.00 0.02437
565654.25 4152214.00 0.02207
565654.25 4152224.00 0.02019
565654.25 4152234.00 0.01862
565654.25 4152244.00 0.01726
565654.25 4152254.00 0.01606
565654.25 4152264.00 0.01500
565654.25 4152274.00 0.01403

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565654.25	4152284.00	0.01317	565664.25	4152094.00	0.16341
565664.25	4152104.00	0.13993	565664.25	4152114.00	0.11771
565664.25	4152124.00	0.09639	565664.25	4152134.00	0.07733
565664.25	4152144.00	0.06228	565664.25	4152154.00	0.05043
565664.25	4152164.00	0.04151	565664.25	4152174.00	0.03478
565664.25	4152184.00	0.02975	565664.25	4152194.00	0.02600
565664.25	4152204.00	0.02314	565664.25	4152214.00	0.02089
565664.25	4152224.00	0.01910	565664.25	4152234.00	0.01762
565664.25	4152244.00	0.01636	565664.25	4152254.00	0.01527
565664.25	4152264.00	0.01431	565664.25	4152274.00	0.01343
565664.25	4152284.00	0.01263	565674.25	4152094.00	0.14249
565674.25	4152104.00	0.12387	565674.25	4152114.00	0.10588
565674.25	4152124.00	0.08892	565674.25	4152134.00	0.07276
565674.25	4152144.00	0.05929	565674.25	4152154.00	0.04845

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         565674.25    4152164.00        0.03999
565674.25    4152174.00        0.03352
         565674.25    4152184.00        0.02862
565674.25    4152194.00        0.02489
         565674.25    4152204.00        0.02205
565674.25    4152214.00        0.01985
         565674.25    4152224.00        0.01811
565674.25    4152234.00        0.01669
         565674.25    4152244.00        0.01550
565674.25    4152254.00        0.01451
         565674.25    4152264.00        0.01358
565674.25    4152274.00        0.01268
         565674.25    4152284.00        0.01193
565684.25    4152094.00        0.12575
         565684.25    4152104.00        0.11051
565684.25    4152114.00        0.09566
         565684.25    4152124.00        0.08144
565684.25    4152134.00        0.06782
         565684.25    4152144.00        0.05607
565684.25    4152154.00        0.04632
         565684.25    4152164.00        0.03849
565684.25    4152174.00        0.03235
         565684.25    4152184.00        0.02757
565684.25    4152194.00        0.02393
         565684.25    4152204.00        0.02114
565684.25    4152214.00        0.01897
         565684.25    4152224.00        0.01726
565684.25    4152234.00        0.01588
         565684.25    4152244.00        0.01474
565684.25    4152254.00        0.01377
         565684.25    4152264.00        0.01289
565684.25    4152274.00        0.01207
         565684.25    4152284.00        0.01138
565694.25    4152094.00        0.10728
         565694.25    4152104.00        0.09942
565694.25    4152114.00        0.08670
         565694.25    4152124.00        0.07447
565694.25    4152134.00        0.06288
         565694.25    4152144.00        0.05275
565694.25    4152154.00        0.04425
         565694.25    4152164.00        0.03707
565694.25    4152174.00        0.03125
         565694.25    4152184.00        0.02668
565694.25    4152194.00        0.02313
         565694.25    4152204.00        0.02039
565694.25    4152214.00        0.01823
         565694.25    4152224.00        0.01654
565694.25    4152234.00        0.01518
         565694.25    4152244.00        0.01404
565694.25    4152254.00        0.01309
         565694.25    4152264.00        0.01228
565694.25    4152274.00        0.01155
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565694.25	4152284.00	0.01091	565704.25	4152094.00	0.09645
565704.25	4152104.00	0.08575	565704.25	4152114.00	0.07892
565704.25	4152124.00	0.06835	565704.25	4152134.00	0.05852
565704.25	4152144.00	0.04977	565704.25	4152154.00	0.04226
565704.25	4152164.00	0.03570	565704.25	4152174.00	0.03025
565704.25	4152184.00	0.02588	565704.25	4152194.00	0.02245
565704.25	4152204.00	0.01975	565704.25	4152214.00	0.01762
565704.25	4152224.00	0.01593	565704.25	4152234.00	0.01455
565704.25	4152244.00	0.01342	565704.25	4152254.00	0.01248
565704.25	4152264.00	0.01169	565704.25	4152274.00	0.01101
565704.25	4152284.00	0.01042	565714.25	4152094.00	0.09502
565714.25	4152104.00	0.08446	565714.25	4152114.00	0.07445
565714.25	4152124.00	0.06485	565714.25	4152134.00	0.05573
565714.25	4152144.00	0.04757	565714.25	4152154.00	0.04053

565714.25 4152164.00 0.03445
565714.25 4152174.00 0.02936
565714.25 4152184.00 0.02522
565714.25 4152194.00 0.02190
565714.25 4152204.00 0.01926
565714.25 4152214.00 0.01713
565714.25 4152224.00 0.01541
565714.25 4152234.00 0.01401
565714.25 4152244.00 0.01284
565714.25 4152254.00 0.01190
565714.25 4152264.00 0.01114
565714.25 4152274.00 0.01049
565714.25 4152284.00 0.00993
565724.25 4152094.00 0.08884
565724.25 4152104.00 0.07925
565724.25 4152114.00 0.07019
565724.25 4152124.00 0.06148
565724.25 4152134.00 0.05309
565724.25 4152144.00 0.04551
565724.25 4152154.00 0.03891
565724.25 4152164.00 0.03327
565724.25 4152174.00 0.02853
565724.25 4152184.00 0.02461
565724.25 4152194.00 0.02143
565724.25 4152204.00 0.01881
565724.25 4152214.00 0.01668
565724.25 4152224.00 0.01494
565724.25 4152234.00 0.01350
565724.25 4152244.00 0.01232
565724.25 4152254.00 0.01138
565724.25 4152264.00 0.01064
565724.25 4152274.00 0.01001
565724.25 4152284.00 0.00946
565734.25 4152094.00 0.08309
565734.25 4152104.00 0.07432
565734.25 4152114.00 0.06599
565734.25 4152124.00 0.05804
565734.25 4152134.00 0.05042
565734.25 4152144.00 0.04350
565734.25 4152154.00 0.03742
565734.25 4152164.00 0.03216
565734.25 4152174.00 0.02768
565734.25 4152184.00 0.02393
565734.25 4152194.00 0.02086
565734.25 4152204.00 0.01837
565734.25 4152214.00 0.01630
565734.25 4152224.00 0.01459
565734.25 4152234.00 0.01315
565734.25 4152244.00 0.01196
565734.25 4152254.00 0.01100
565734.25 4152264.00 0.01025
565734.25 4152274.00 0.00961

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565734.25	4152284.00	0.00907	565744.25	4152094.00	0.07767
565744.25	4152104.00	0.06968	565744.25	4152114.00	0.06199
565744.25	4152124.00	0.05468	565744.25	4152134.00	0.04782
565744.25	4152144.00	0.04157	565744.25	4152154.00	0.03602
565744.25	4152164.00	0.03110	565744.25	4152174.00	0.02684
565744.25	4152184.00	0.02322	565744.25	4152194.00	0.02028
565744.25	4152204.00	0.01789	565744.25	4152214.00	0.01590
565744.25	4152224.00	0.01427	565744.25	4152234.00	0.01288
565744.25	4152244.00	0.01168	565744.25	4152254.00	0.01071
565744.25	4152264.00	0.00993	565744.25	4152274.00	0.00928
565744.25	4152284.00	0.00873	565754.25	4152094.00	0.07245
565754.25	4152104.00	0.06527	565754.25	4152114.00	0.05828
565754.25	4152124.00	0.05159	565754.25	4152134.00	0.04540
565754.25	4152144.00	0.03975	565754.25	4152154.00	0.03468

565754.25 4152164.00 0.03007
565754.25 4152174.00 0.02601
565754.25 4152184.00 0.02253
565754.25 4152194.00 0.01971
565754.25 4152204.00 0.01743
565754.25 4152214.00 0.01551
565754.25 4152224.00 0.01391
565754.25 4152234.00 0.01259
565754.25 4152244.00 0.01145
565754.25 4152254.00 0.01048
565754.25 4152264.00 0.00968
565754.25 4152274.00 0.00900
565754.25 4152284.00 0.00843
565764.25 4152094.00 0.06713
565764.25 4152104.00 0.06084
565764.25 4152114.00 0.05465
565764.25 4152124.00 0.04872
565764.25 4152134.00 0.04313
565764.25 4152144.00 0.03797
565764.25 4152154.00 0.03330
565764.25 4152164.00 0.02898
565764.25 4152174.00 0.02510
565764.25 4152184.00 0.02173
565764.25 4152194.00 0.01904
565764.25 4152204.00 0.01688
565764.25 4152214.00 0.01504
565764.25 4152224.00 0.01351
565764.25 4152234.00 0.01222
565764.25 4152244.00 0.01115
565764.25 4152254.00 0.01022
565764.25 4152264.00 0.00941
565764.25 4152274.00 0.00872
565764.25 4152284.00 0.00815
565574.25 4151994.00 0.45782
565574.25 4151984.00 0.43635
565574.25 4151974.00 0.40267
565574.25 4151964.00 0.35525
565574.25 4151954.00 0.30307
565574.25 4151944.00 0.25537
565574.25 4151934.00 0.21565
565574.25 4151924.00 0.18364
565574.25 4151914.00 0.15792
565574.25 4151904.00 0.13710
565574.25 4151894.00 0.12007
565574.25 4151884.00 0.10599
565574.25 4151874.00 0.09417
565574.25 4151864.00 0.08424
565574.25 4151854.00 0.07580
565574.25 4151844.00 0.06854
565574.25 4151834.00 0.06225
565574.25 4151824.00 0.05679
565574.25 4151814.00 0.05203

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565574.25	4151804.00	0.04787	565574.25	4151794.00	0.04419
565574.25	4151784.00	0.04089	565584.25	4151984.00	0.44910
565584.25	4151974.00	0.41795	565584.25	4151964.00	0.37288
565584.25	4151954.00	0.31790	565584.25	4151944.00	0.26581
565584.25	4151934.00	0.22272	565584.25	4151924.00	0.18846
565584.25	4151914.00	0.16130	565584.25	4151904.00	0.13953
565584.25	4151894.00	0.12186	565584.25	4151884.00	0.10720
565584.25	4151874.00	0.09507	565584.25	4151864.00	0.08492
565584.25	4151854.00	0.07631	565584.25	4151844.00	0.06898
565584.25	4151834.00	0.06269	565584.25	4151824.00	0.05721
565584.25	4151814.00	0.05242	565584.25	4151804.00	0.04816
565584.25	4151794.00	0.04440	565584.25	4151784.00	0.04105
565594.25	4151984.00	0.45226	565594.25	4151974.00	0.41951
565594.25	4151964.00	0.37320	565594.25	4151954.00	0.31820

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         565594.25    4151944.00        0.26594
565594.25    4151934.00        0.22270
         565594.25    4151924.00        0.18837
565594.25    4151914.00        0.16118
         565594.25    4151904.00        0.13942
565594.25    4151894.00        0.12178
         565594.25    4151884.00        0.10728
565594.25    4151874.00        0.09517
         565594.25    4151864.00        0.08498
565594.25    4151854.00        0.07634
         565594.25    4151844.00        0.06901
565594.25    4151834.00        0.06272
         565594.25    4151824.00        0.05727
565594.25    4151814.00        0.05246
         565594.25    4151804.00        0.04816
565594.25    4151794.00        0.04437
         565594.25    4151784.00        0.04100
565604.25    4152084.00        0.30947
         565604.25    4151994.00        0.47329
565604.25    4151984.00        0.44760
         565604.25    4151974.00        0.41030
565604.25    4151964.00        0.36067
         565604.25    4151954.00        0.30619
565604.25    4151944.00        0.25674
         565604.25    4151934.00        0.21623
565604.25    4151924.00        0.18396
         565604.25    4151914.00        0.15811
565604.25    4151904.00        0.13718
         565604.25    4151894.00        0.12009
565604.25    4151884.00        0.10599
         565604.25    4151874.00        0.09423
565604.25    4151864.00        0.08429
         565604.25    4151854.00        0.07578
565604.25    4151844.00        0.06854
         565604.25    4151834.00        0.06237
565604.25    4151824.00        0.05699
         565604.25    4151814.00        0.05223
565604.25    4151804.00        0.04793
         565604.25    4151794.00        0.04414
565604.25    4151784.00        0.04080
         565614.25    4152084.00        0.32471
565614.25    4152074.00        0.36514
         565614.25    4152064.00        0.40022
565614.25    4152004.00        0.48177
         565614.25    4151994.00        0.46684
565614.25    4151984.00        0.43797
         565614.25    4151974.00        0.39299
565614.25    4151964.00        0.34001
         565614.25    4151954.00        0.28854
565614.25    4151944.00        0.24372
         565614.25    4151934.00        0.20696
565614.25    4151924.00        0.17731
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565614.25	4151914.00	0.15314	565614.25	4151904.00	0.13346
565614.25	4151894.00	0.11727	565614.25	4151884.00	0.10381
565614.25	4151874.00	0.09252	565614.25	4151864.00	0.08296
565614.25	4151854.00	0.07480	565614.25	4151844.00	0.06777
565614.25	4151834.00	0.06169	565614.25	4151824.00	0.05639
565614.25	4151814.00	0.05170	565614.25	4151804.00	0.04750
565614.25	4151794.00	0.04378	565614.25	4151784.00	0.04051
565624.25	4152084.00	0.31412	565624.25	4152074.00	0.35508
565624.25	4152064.00	0.39006	565624.25	4152054.00	0.41843
565624.25	4152044.00	0.43918	565624.25	4152034.00	0.45311
565624.25	4152024.00	0.46530	565624.25	4152014.00	0.47118
565624.25	4152004.00	0.46873	565624.25	4151994.00	0.45110
565624.25	4151984.00	0.41518	565624.25	4151974.00	0.36572
565624.25	4151964.00	0.31499	565624.25	4151954.00	0.26897

565624.25 4151944.00 0.22956
565624.25 4151934.00 0.19635
565624.25 4151924.00 0.16928
565624.25 4151914.00 0.14713
565624.25 4151904.00 0.12890
565624.25 4151894.00 0.11375
565624.25 4151884.00 0.10107
565624.25 4151874.00 0.09035
565624.25 4151864.00 0.08122
565624.25 4151854.00 0.07340
565624.25 4151844.00 0.06664
565624.25 4151834.00 0.06075
565624.25 4151824.00 0.05554
565624.25 4151814.00 0.05096
565624.25 4151804.00 0.04691
565624.25 4151794.00 0.04332
565624.25 4151784.00 0.04015
565634.25 4152084.00 0.28513
565634.25 4152074.00 0.32664
565634.25 4152064.00 0.36428
565634.25 4152054.00 0.39636
565634.25 4152044.00 0.42131
565634.25 4152034.00 0.43786
565634.25 4152024.00 0.44945
565634.25 4152014.00 0.45332
565634.25 4152004.00 0.44465
565634.25 4151994.00 0.41953
565634.25 4151984.00 0.37987
565634.25 4151974.00 0.33340
565634.25 4151964.00 0.28907
565634.25 4151954.00 0.24950
565634.25 4151944.00 0.21477
565634.25 4151934.00 0.18535
565634.25 4151924.00 0.16100
565634.25 4151914.00 0.14082
565634.25 4151904.00 0.12402
565634.25 4151894.00 0.10992
565634.25 4151884.00 0.09792
565634.25 4151874.00 0.08783
565634.25 4151864.00 0.07924
565634.25 4151854.00 0.07180
565634.25 4151844.00 0.06532
565634.25 4151834.00 0.05966
565634.25 4151824.00 0.05458
565634.25 4151814.00 0.05013
565634.25 4151804.00 0.04624
565634.25 4151794.00 0.04279
565634.25 4151784.00 0.03973
565644.25 4152084.00 0.25103
565644.25 4152074.00 0.28835
565644.25 4152064.00 0.32396
565644.25 4152054.00 0.35767

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565644.25	4152044.00	0.38616	565644.25	4152034.00	0.40761
565644.25	4152024.00	0.41933	565644.25	4152014.00	0.41918
565644.25	4152004.00	0.40474	565644.25	4151994.00	0.37760
565644.25	4151984.00	0.34173	565644.25	4151974.00	0.30258
565644.25	4151964.00	0.26527	565644.25	4151954.00	0.23100
565644.25	4151944.00	0.20062	565644.25	4151934.00	0.17475
565644.25	4151924.00	0.15294	565644.25	4151914.00	0.13460
565644.25	4151904.00	0.11915	565644.25	4151894.00	0.10608
565644.25	4151884.00	0.09490	565644.25	4151874.00	0.08539
565644.25	4151864.00	0.07722	565644.25	4151854.00	0.07011
565644.25	4151844.00	0.06391	565644.25	4151834.00	0.05846
565644.25	4151824.00	0.05357	565644.25	4151814.00	0.04931
565644.25	4151804.00	0.04561	565644.25	4151794.00	0.04230
565644.25	4151784.00	0.03933	565654.25	4152084.00	0.21956

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         565654.25    4152074.00        0.25128
565654.25    4152064.00        0.28211
         565654.25    4152054.00        0.31182
565654.25    4152044.00        0.33796
         565654.25    4152034.00        0.35797
565654.25    4152024.00        0.36945
         565654.25    4152014.00        0.36898
565654.25    4152004.00        0.35628
         565654.25    4151994.00        0.33369
565654.25    4151984.00        0.30484
         565654.25    4151974.00        0.27353
565654.25    4151964.00        0.24251
         565654.25    4151954.00        0.21327
565654.25    4151944.00        0.18725
         565654.25    4151934.00        0.16466
565654.25    4151924.00        0.14527
         565654.25    4151914.00        0.12865
565654.25    4151904.00        0.11446
         565654.25    4151894.00        0.10233
565654.25    4151884.00        0.09192
         565654.25    4151874.00        0.08294
565654.25    4151864.00        0.07517
         565654.25    4151854.00        0.06840
565654.25    4151844.00        0.06248
         565654.25    4151834.00        0.05721
565654.25    4151824.00        0.05254
         565654.25    4151814.00        0.04846
565654.25    4151804.00        0.04493
         565654.25    4151794.00        0.04175
565654.25    4151784.00        0.03884
         565664.25    4152084.00        0.19015
565664.25    4152074.00        0.21718
         565664.25    4152064.00        0.24371
565664.25    4152054.00        0.26960
         565664.25    4152044.00        0.29242
565664.25    4152034.00        0.30982
         565664.25    4152024.00        0.31993
565664.25    4152014.00        0.32039
         565664.25    4152004.00        0.31119
565664.25    4151994.00        0.29428
         565664.25    4151984.00        0.27222
565664.25    4151974.00        0.24685
         565664.25    4151964.00        0.22107
565664.25    4151954.00        0.19682
         565664.25    4151944.00        0.17478
565664.25    4151934.00        0.15516
         565664.25    4151924.00        0.13794
565664.25    4151914.00        0.12295
         565664.25    4151904.00        0.10997
565664.25    4151894.00        0.09873
         565664.25    4151884.00        0.08900
565664.25    4151874.00        0.08055
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565664.25	4151864.00	0.07318	565664.25	4151854.00	0.06674
565664.25	4151844.00	0.06108	565664.25	4151834.00	0.05608
565664.25	4151824.00	0.05164	565664.25	4151814.00	0.04771
565664.25	4151804.00	0.04424	565664.25	4151794.00	0.04110
565664.25	4151784.00	0.03827	565674.25	4152084.00	0.16515
565674.25	4152074.00	0.18825	565674.25	4152064.00	0.21092
565674.25	4152054.00	0.23333	565674.25	4152044.00	0.25293
565674.25	4152034.00	0.26801	565674.25	4152024.00	0.27681
565674.25	4152014.00	0.27805	565674.25	4152004.00	0.27180
565674.25	4151994.00	0.25962	565674.25	4151984.00	0.24247
565674.25	4151974.00	0.22078	565674.25	4151964.00	0.20077
565674.25	4151954.00	0.18156	565674.25	4151944.00	0.16296
565674.25	4151934.00	0.14604	565674.25	4151924.00	0.13090
565674.25	4151914.00	0.11747	565674.25	4151904.00	0.10564

565674.25 4151894.00 0.09527
565674.25 4151884.00 0.08619
565674.25 4151874.00 0.07824
565674.25 4151864.00 0.07127
565674.25 4151854.00 0.06513
565674.25 4151844.00 0.05972
565674.25 4151834.00 0.05493
565674.25 4151824.00 0.05068
565674.25 4151814.00 0.04688
565674.25 4151804.00 0.04349
565674.25 4151794.00 0.04044
565674.25 4151784.00 0.03770
565684.25 4152084.00 0.14519
565684.25 4152074.00 0.16497
565684.25 4152064.00 0.18443
565684.25 4152054.00 0.20380
565684.25 4152044.00 0.22072
565684.25 4152034.00 0.23376
565684.25 4152024.00 0.24103
565684.25 4152014.00 0.24246
565684.25 4152004.00 0.23815
565684.25 4151994.00 0.22936
565684.25 4151984.00 0.21609
565684.25 4151974.00 0.19730
565684.25 4151964.00 0.18207
565684.25 4151954.00 0.16742
565684.25 4151944.00 0.15181
565684.25 4151934.00 0.13732
565684.25 4151924.00 0.12408
565684.25 4151914.00 0.11213
565684.25 4151904.00 0.10143
565684.25 4151894.00 0.09191
565684.25 4151884.00 0.08348
565684.25 4151874.00 0.07602
565684.25 4151864.00 0.06943
565684.25 4151854.00 0.06359
565684.25 4151844.00 0.05842
565684.25 4151834.00 0.05382
565684.25 4151824.00 0.04970
565684.25 4151814.00 0.04602
565684.25 4151804.00 0.04276
565684.25 4151794.00 0.03980
565684.25 4151784.00 0.03713
565694.25 4152084.00 0.12945
565694.25 4152074.00 0.14653
565694.25 4152064.00 0.16328
565694.25 4152054.00 0.18018
565694.25 4152044.00 0.19483
565694.25 4152034.00 0.20609
565694.25 4152024.00 0.21177
565694.25 4152014.00 0.21289
565694.25 4152004.00 0.20960

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565694.25	4151994.00	0.20318	565694.25	4151984.00	0.19317
565694.25	4151974.00	0.17848	565694.25	4151964.00	0.16609
565694.25	4151954.00	0.15400	565694.25	4151944.00	0.14133
565694.25	4151934.00	0.12898	565694.25	4151924.00	0.11747
565694.25	4151914.00	0.10690	565694.25	4151904.00	0.09728
565694.25	4151894.00	0.08860	565694.25	4151884.00	0.08081
565694.25	4151874.00	0.07385	565694.25	4151864.00	0.06764
565694.25	4151854.00	0.06210	565694.25	4151844.00	0.05716
565694.25	4151834.00	0.05274	565694.25	4151824.00	0.04879
565694.25	4151814.00	0.04524	565694.25	4151804.00	0.04206
565694.25	4151794.00	0.03918	565694.25	4151784.00	0.03659
565704.25	4152084.00	0.11087	565704.25	4152074.00	0.13087
565704.25	4152064.00	0.14538	565704.25	4152054.00	0.16016
565704.25	4152044.00	0.17287	565704.25	4152034.00	0.18258

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         565704.25    4152024.00        0.18709
565704.25    4152014.00        0.18804
         565704.25    4152004.00        0.18554
565704.25    4151994.00        0.18087
         565704.25    4151984.00        0.17330
565704.25    4151974.00        0.16177
         565704.25    4151964.00        0.15167
565704.25    4151954.00        0.14160
         565704.25    4151944.00        0.13143
565704.25    4151934.00        0.12099
         565704.25    4151924.00        0.11105
565704.25    4151914.00        0.10176
         565704.25    4151904.00        0.09318
565704.25    4151894.00        0.08532
         565704.25    4151884.00        0.07817
565704.25    4151874.00        0.07171
         565704.25    4151864.00        0.06588
565704.25    4151854.00        0.06065
         565704.25    4151844.00        0.05594
565704.25    4151834.00        0.05171
         565704.25    4151824.00        0.04790
565704.25    4151814.00        0.04448
         565704.25    4151804.00        0.04139
565704.25    4151794.00        0.03859
         565704.25    4151784.00        0.03606
565714.25    4152084.00        0.10842
         565714.25    4152074.00        0.12183
565714.25    4152064.00        0.13466
         565714.25    4152054.00        0.14607
565714.25    4152044.00        0.15575
         565714.25    4152034.00        0.16307
565714.25    4152024.00        0.16683
         565714.25    4152014.00        0.16775
565714.25    4152004.00        0.16591
         565714.25    4151994.00        0.16217
565714.25    4151984.00        0.15589
         565714.25    4151974.00        0.14678
565714.25    4151964.00        0.13883
         565714.25    4151954.00        0.13068
565714.25    4151944.00        0.12222
         565714.25    4151934.00        0.11337
565714.25    4151924.00        0.10483
         565714.25    4151914.00        0.09672
565714.25    4151904.00        0.08911
         565714.25    4151894.00        0.08204
565714.25    4151884.00        0.07552
         565714.25    4151874.00        0.06956
565714.25    4151864.00        0.06413
         565714.25    4151854.00        0.05920
565714.25    4151844.00        0.05474
         565714.25    4151834.00        0.05070
565714.25    4151824.00        0.04704
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565714.25	4151814.00	0.04374	565714.25	4151804.00	0.04073
565714.25	4151794.00	0.03800	565714.25	4151784.00	0.03554
565724.25	4152084.00	0.10088	565724.25	4152074.00	0.11268
565724.25	4152064.00	0.12364	565724.25	4152054.00	0.13270
565724.25	4152044.00	0.14011	565724.25	4152034.00	0.14511
565724.25	4152024.00	0.14897	565724.25	4152014.00	0.15004
565724.25	4152004.00	0.14889	565724.25	4151994.00	0.14580
565724.25	4151984.00	0.14031	565724.25	4151974.00	0.13351
565724.25	4151964.00	0.12728	565724.25	4151954.00	0.12068
565724.25	4151944.00	0.11362	565724.25	4151934.00	0.10615
565724.25	4151924.00	0.09884	565724.25	4151914.00	0.09179
565724.25	4151904.00	0.08508	565724.25	4151894.00	0.07876
565724.25	4151884.00	0.07286	565724.25	4151874.00	0.06739
565724.25	4151864.00	0.06236	565724.25	4151854.00	0.05775

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         565724.25    4151844.00        0.05353
565724.25    4151834.00        0.04969
         565724.25    4151824.00        0.04620
565724.25    4151814.00        0.04299
         565724.25    4151804.00        0.04008
565724.25    4151794.00        0.03743
         565724.25    4151784.00        0.03503
565734.25    4152084.00        0.09333
         565734.25    4152074.00        0.10326
565734.25    4152064.00        0.11163
         565734.25    4152054.00        0.11881
565734.25    4152044.00        0.12471
         565734.25    4152034.00        0.12901
565734.25    4152024.00        0.13251
         565734.25    4152014.00        0.13418
565734.25    4152004.00        0.13395
         565734.25    4151994.00        0.13126
565734.25    4151984.00        0.12707
         565734.25    4151974.00        0.12183
565734.25    4151964.00        0.11689
         565734.25    4151954.00        0.11152
565734.25    4151944.00        0.10564
         565734.25    4151934.00        0.09935
565734.25    4151924.00        0.09310
         565734.25    4151914.00        0.08699
565734.25    4151904.00        0.08110
         565734.25    4151894.00        0.07548
565734.25    4151884.00        0.07017
         565734.25    4151874.00        0.06519
565734.25    4151864.00        0.06056
         565734.25    4151854.00        0.05627
565734.25    4151844.00        0.05231
         565734.25    4151834.00        0.04868
565734.25    4151824.00        0.04534
         565734.25    4151814.00        0.04226
565734.25    4151804.00        0.03945
         565734.25    4151794.00        0.03688
565734.25    4151784.00        0.03455
         565744.25    4152084.00        0.08617
565744.25    4152074.00        0.09437
         565744.25    4152064.00        0.10147
565744.25    4152054.00        0.10764
         565744.25    4152044.00        0.11268
565744.25    4152034.00        0.11641
         565744.25    4152024.00        0.11947
565744.25    4152014.00        0.12100
         565744.25    4152004.00        0.12106
565744.25    4151994.00        0.11899
         565744.25    4151984.00        0.11571
565744.25    4151974.00        0.11155
         565744.25    4151964.00        0.10754
565744.25    4151954.00        0.10313
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565744.25	4151944.00	0.09827	565744.25	4151934.00	0.09297
565744.25	4151924.00	0.08757	565744.25	4151914.00	0.08220
565744.25	4151904.00	0.07709	565744.25	4151894.00	0.07219
565744.25	4151884.00	0.06747	565744.25	4151874.00	0.06297
565744.25	4151864.00	0.05872	565744.25	4151854.00	0.05476
565744.25	4151844.00	0.05107	565744.25	4151834.00	0.04765
565744.25	4151824.00	0.04449	565744.25	4151814.00	0.04157
565744.25	4151804.00	0.03887	565744.25	4151794.00	0.03639
565744.25	4151784.00	0.03412	565754.25	4152084.00	0.07959
565754.25	4152074.00	0.08642	565754.25	4152064.00	0.09265
565754.25	4152054.00	0.09797	565754.25	4152044.00	0.10231
565754.25	4152034.00	0.10556	565754.25	4152024.00	0.10822
565754.25	4152014.00	0.10964	565754.25	4152004.00	0.10983
565754.25	4151994.00	0.10829	565754.25	4151984.00	0.10574

565754.25 4151974.00 0.10242
565754.25 4151964.00 0.09916
565754.25 4151954.00 0.09551
565754.25 4151944.00 0.09149
565754.25 4151934.00 0.08696
565754.25 4151924.00 0.08227
565754.25 4151914.00 0.07760
565754.25 4151904.00 0.07319
565754.25 4151894.00 0.06894
565754.25 4151884.00 0.06478
565754.25 4151874.00 0.06072
565754.25 4151864.00 0.05686
565754.25 4151854.00 0.05321
565754.25 4151844.00 0.04978
565754.25 4151834.00 0.04658
565754.25 4151824.00 0.04360
565754.25 4151814.00 0.04084
565754.25 4151804.00 0.03827
565754.25 4151794.00 0.03589
565754.25 4151784.00 0.03369
565764.25 4152084.00 0.07342
565764.25 4152074.00 0.07939
565764.25 4152064.00 0.08491
565764.25 4152054.00 0.08979
565764.25 4152044.00 0.09364
565764.25 4152034.00 0.09653
565764.25 4152024.00 0.09862
565764.25 4152014.00 0.09968
565764.25 4152004.00 0.09970
565764.25 4151994.00 0.09861
565764.25 4151984.00 0.09667
565764.25 4151974.00 0.09408
565764.25 4151964.00 0.09142
565764.25 4151954.00 0.08839
565764.25 4151944.00 0.08506
565764.25 4151934.00 0.08128
565764.25 4151924.00 0.07736
565764.25 4151914.00 0.07340
565764.25 4151904.00 0.06955
565764.25 4151894.00 0.06579
565764.25 4151884.00 0.06209
565764.25 4151874.00 0.05846
565764.25 4151864.00 0.05494
565764.25 4151854.00 0.05159
565764.25 4151844.00 0.04843
565764.25 4151834.00 0.04548
565764.25 4151824.00 0.04269
565764.25 4151814.00 0.04008
565764.25 4151804.00 0.03762
565764.25 4151794.00 0.03533
565764.25 4151784.00 0.03323
565564.25 4151974.00 0.37000

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565564.25	4151964.00	0.32319	565564.25	4151954.00	0.27739
565564.25	4151944.00	0.23662	565564.25	4151934.00	0.20234
565564.25	4151924.00	0.17423	565564.25	4151914.00	0.15115
565564.25	4151904.00	0.13210	565564.25	4151894.00	0.11631
565564.25	4151884.00	0.10311	565564.25	4151874.00	0.09199
565564.25	4151864.00	0.08255	565564.25	4151854.00	0.07447
565564.25	4151844.00	0.06749	565564.25	4151834.00	0.06132
565564.25	4151824.00	0.05594	565564.25	4151814.00	0.05128
565564.25	4151804.00	0.04729	565564.25	4151794.00	0.04373
565564.25	4151784.00	0.04053	565554.25	4151974.00	0.32653
565554.25	4151964.00	0.28487	565554.25	4151954.00	0.24686
565554.25	4151944.00	0.21347	565554.25	4151934.00	0.18522
565554.25	4151924.00	0.16150	565554.25	4151914.00	0.14159
565554.25	4151904.00	0.12491	565554.25	4151894.00	0.11077

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         565554.25    4151884.00        0.09879
565554.25    4151874.00        0.08858
         565554.25    4151864.00        0.07982
565554.25    4151854.00        0.07226
         565554.25    4151844.00        0.06570
565554.25    4151834.00        0.05983
         565554.25    4151824.00        0.05470
565554.25    4151814.00        0.05023
         565554.25    4151804.00        0.04638
565554.25    4151794.00        0.04295
         565554.25    4151784.00        0.03986
565544.25    4151974.00        0.28027
         565544.25    4151964.00        0.24600
565544.25    4151954.00        0.21567
         565544.25    4151944.00        0.18931
565544.25    4151934.00        0.16659
         565544.25    4151924.00        0.14710
565544.25    4151914.00        0.13041
         565544.25    4151904.00        0.11612
565544.25    4151894.00        0.10385
         565544.25    4151884.00        0.09328
565544.25    4151874.00        0.08416
         565544.25    4151864.00        0.07623
565544.25    4151854.00        0.06930
         565544.25    4151844.00        0.06318
565544.25    4151834.00        0.05780
         565544.25    4151824.00        0.05306
565544.25    4151814.00        0.04887
         565544.25    4151804.00        0.04517
565544.25    4151794.00        0.04186
         565544.25    4151784.00        0.03889
565534.25    4151974.00        0.23617
         565534.25    4151964.00        0.20944
565534.25    4151954.00        0.18594
         565534.25    4151944.00        0.16542
565534.25    4151934.00        0.14750
         565534.25    4151924.00        0.13188
565534.25    4151914.00        0.11825
         565534.25    4151904.00        0.10637
565534.25    4151894.00        0.09599
         565534.25    4151884.00        0.08691
565534.25    4151874.00        0.07895
         565534.25    4151864.00        0.07195
565534.25    4151854.00        0.06565
         565534.25    4151844.00        0.06012
565534.25    4151834.00        0.05531
         565534.25    4151824.00        0.05101
565534.25    4151814.00        0.04715
         565534.25    4151804.00        0.04365
565534.25    4151794.00        0.04050
         565534.25    4151784.00        0.03769
565524.25    4151974.00        0.19634
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565524.25	4151964.00	0.17632	565524.25	4151954.00	0.15861
565524.25	4151944.00	0.14295	565524.25	4151934.00	0.12909
565524.25	4151924.00	0.11680	565524.25	4151914.00	0.10590
565524.25	4151904.00	0.09622	565524.25	4151894.00	0.08763
565524.25	4151884.00	0.08000	565524.25	4151874.00	0.07321
565524.25	4151864.00	0.06716	565524.25	4151854.00	0.06166
565524.25	4151844.00	0.05678	565524.25	4151834.00	0.05244
565524.25	4151824.00	0.04855	565524.25	4151814.00	0.04503
565524.25	4151804.00	0.04184	565524.25	4151794.00	0.03895
565524.25	4151784.00	0.03635	565514.25	4151974.00	0.16141
565514.25	4151964.00	0.14702	565514.25	4151954.00	0.13404
565514.25	4151944.00	0.12237	565514.25	4151934.00	0.11186
565514.25	4151924.00	0.10239	565514.25	4151914.00	0.09385
565514.25	4151904.00	0.08613	565514.25	4151894.00	0.07916

565514.25 4151884.00 0.07287
565514.25 4151874.00 0.06719
565514.25 4151864.00 0.06205
565514.25 4151854.00 0.05736
565514.25 4151844.00 0.05312
565514.25 4151834.00 0.04929
565514.25 4151824.00 0.04581
565514.25 4151814.00 0.04266
565514.25 4151804.00 0.03979
565514.25 4151794.00 0.03719
565514.25 4151784.00 0.03482
565504.25 4151974.00 0.13148
565504.25 4151964.00 0.12156
565504.25 4151954.00 0.11238
565504.25 4151944.00 0.10392
565504.25 4151934.00 0.09615
565504.25 4151924.00 0.08900
565504.25 4151914.00 0.08243
565504.25 4151904.00 0.07639
565504.25 4151894.00 0.07085
565504.25 4151884.00 0.06577
565504.25 4151874.00 0.06108
565504.25 4151864.00 0.05677
565504.25 4151854.00 0.05284
565504.25 4151844.00 0.04923
565504.25 4151834.00 0.04592
565504.25 4151824.00 0.04289
565504.25 4151814.00 0.04012
565504.25 4151804.00 0.03758
565504.25 4151794.00 0.03526
565504.25 4151784.00 0.03313
565494.25 4151974.00 0.10637
565494.25 4151964.00 0.09987
565494.25 4151954.00 0.09362
565494.25 4151944.00 0.08769
565494.25 4151934.00 0.08209
565494.25 4151924.00 0.07682
565494.25 4151914.00 0.07183
565494.25 4151904.00 0.06717
565494.25 4151894.00 0.06283
565494.25 4151884.00 0.05879
565494.25 4151874.00 0.05502
565494.25 4151864.00 0.05151
565494.25 4151854.00 0.04825
565494.25 4151844.00 0.04524
565494.25 4151834.00 0.04245
565494.25 4151824.00 0.03988
565494.25 4151814.00 0.03749
565494.25 4151804.00 0.03526
565494.25 4151794.00 0.03321
565494.25 4151784.00 0.03131
565484.25 4151974.00 0.08576

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565484.25	4151964.00	0.08172	565484.25	4151954.00	0.07765
565484.25	4151944.00	0.07364	565484.25	4151934.00	0.06973
565484.25	4151924.00	0.06588	565484.25	4151914.00	0.06213
565484.25	4151904.00	0.05863	565484.25	4151894.00	0.05534
565484.25	4151884.00	0.05221	565484.25	4151874.00	0.04924
565484.25	4151864.00	0.04642	565484.25	4151854.00	0.04376
565484.25	4151844.00	0.04129	565484.25	4151834.00	0.03898
565484.25	4151824.00	0.03682	565484.25	4151814.00	0.03479
565484.25	4151804.00	0.03286	565484.25	4151794.00	0.03107
565484.25	4151784.00	0.02940	565474.25	4151974.00	0.06918
565474.25	4151964.00	0.06681	565474.25	4151954.00	0.06429
565474.25	4151944.00	0.06168	565474.25	4151934.00	0.05904
565474.25	4151924.00	0.05635	565474.25	4151914.00	0.05368
565474.25	4151904.00	0.05109	565474.25	4151894.00	0.04860

565474.25 4151884.00 0.04618
565474.25 4151874.00 0.04385
565474.25 4151864.00 0.04162
565474.25 4151854.00 0.03949
565474.25 4151844.00 0.03747
565474.25 4151834.00 0.03555
565474.25 4151824.00 0.03374
565474.25 4151814.00 0.03202
565474.25 4151804.00 0.03040
565474.25 4151794.00 0.02887
565474.25 4151784.00 0.02744
565464.25 4151974.00 0.05604
565464.25 4151964.00 0.05476
565464.25 4151954.00 0.05328
565464.25 4151944.00 0.05164
565464.25 4151934.00 0.04989
565464.25 4151924.00 0.04808
565464.25 4151914.00 0.04626
565464.25 4151904.00 0.04439
565464.25 4151894.00 0.04252
565464.25 4151884.00 0.04068
565464.25 4151874.00 0.03889
565464.25 4151864.00 0.03715
565464.25 4151854.00 0.03547
565464.25 4151844.00 0.03384
565464.25 4151834.00 0.03226
565464.25 4151824.00 0.03076
565464.25 4151814.00 0.02932
565464.25 4151804.00 0.02797
565464.25 4151794.00 0.02669
565464.25 4151784.00 0.02547
565454.25 4151974.00 0.04575
565454.25 4151964.00 0.04510
565454.25 4151954.00 0.04427
565454.25 4151944.00 0.04328
565454.25 4151934.00 0.04219
565454.25 4151924.00 0.04101
565454.25 4151914.00 0.03976
565454.25 4151904.00 0.03845
565454.25 4151894.00 0.03710
565454.25 4151884.00 0.03573
565454.25 4151874.00 0.03438
565454.25 4151864.00 0.03304
565454.25 4151854.00 0.03174
565454.25 4151844.00 0.03044
565454.25 4151834.00 0.02916
565454.25 4151824.00 0.02792
565454.25 4151814.00 0.02674
565454.25 4151804.00 0.02564
565454.25 4151794.00 0.02458
565454.25 4151784.00 0.02356
565444.25 4151974.00 0.03773

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565444.25	4151964.00	0.03747	565444.25	4151954.00	0.03704
565444.25	4151944.00	0.03645	565444.25	4151934.00	0.03577
565444.25	4151924.00	0.03501	565444.25	4151914.00	0.03418
565444.25	4151904.00	0.03328	565444.25	4151894.00	0.03232
565444.25	4151884.00	0.03134	565444.25	4151874.00	0.03034
565444.25	4151864.00	0.02933	565444.25	4151854.00	0.02832
565444.25	4151844.00	0.02730	565444.25	4151834.00	0.02627
565444.25	4151824.00	0.02526	565444.25	4151814.00	0.02429
565444.25	4151804.00	0.02341	565444.25	4151794.00	0.02256
565444.25	4151784.00	0.02173	565434.25	4151974.00	0.03145
565434.25	4151964.00	0.03140	565434.25	4151954.00	0.03121
565434.25	4151944.00	0.03087	565434.25	4151934.00	0.03046
565434.25	4151924.00	0.02999	565434.25	4151914.00	0.02944
565434.25	4151904.00	0.02884	565434.25	4151894.00	0.02818

565434.25 4151884.00 0.02749
565434.25 4151874.00 0.02676
565434.25 4151864.00 0.02600
565434.25 4151854.00 0.02523
565434.25 4151844.00 0.02444
565434.25 4151834.00 0.02361
565434.25 4151824.00 0.02280
565434.25 4151814.00 0.02202
565434.25 4151804.00 0.02132
565434.25 4151794.00 0.02064
565434.25 4151784.00 0.01996
565424.25 4151974.00 0.02651
565424.25 4151964.00 0.02656
565424.25 4151954.00 0.02650
565424.25 4151944.00 0.02633
565424.25 4151934.00 0.02610
565424.25 4151924.00 0.02582
565424.25 4151914.00 0.02547
565424.25 4151904.00 0.02508
565424.25 4151894.00 0.02464
565424.25 4151884.00 0.02415
565424.25 4151874.00 0.02363
565424.25 4151864.00 0.02306
565424.25 4151854.00 0.02247
565424.25 4151844.00 0.02186
565424.25 4151834.00 0.02121
565424.25 4151824.00 0.02057
565424.25 4151814.00 0.01994
565424.25 4151804.00 0.01937
565424.25 4151794.00 0.01881
565424.25 4151784.00 0.01825
565414.25 4151974.00 0.02259
565414.25 4151964.00 0.02268
565414.25 4151954.00 0.02269
565414.25 4151944.00 0.02262
565414.25 4151934.00 0.02251
565414.25 4151924.00 0.02234
565414.25 4151914.00 0.02213
565414.25 4151904.00 0.02188
565414.25 4151894.00 0.02159
565414.25 4151884.00 0.02127
565414.25 4151874.00 0.02089
565414.25 4151864.00 0.02047
565414.25 4151854.00 0.02002
565414.25 4151844.00 0.01955
565414.25 4151834.00 0.01905
565414.25 4151824.00 0.01854
565414.25 4151814.00 0.01805
565414.25 4151804.00 0.01758
565414.25 4151794.00 0.01712
565414.25 4151784.00 0.01665
565404.25 4151974.00 0.01942

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565404.25	4151964.00	0.01952	565404.25	4151954.00	0.01956
565404.25	4151944.00	0.01957	565404.25	4151934.00	0.01953
565404.25	4151924.00	0.01945	565404.25	4151914.00	0.01933
565404.25	4151904.00	0.01918	565404.25	4151894.00	0.01899
565404.25	4151884.00	0.01876	565404.25	4151874.00	0.01850
565404.25	4151864.00	0.01821	565404.25	4151854.00	0.01788
565404.25	4151844.00	0.01754	565404.25	4151834.00	0.01716
565404.25	4151824.00	0.01677	565404.25	4151814.00	0.01637
565404.25	4151804.00	0.01598	565404.25	4151794.00	0.01559
565404.25	4151784.00	0.01520	565394.25	4151974.00	0.01681
565394.25	4151964.00	0.01692	565394.25	4151954.00	0.01699
565394.25	4151944.00	0.01704	565394.25	4151934.00	0.01705
565394.25	4151924.00	0.01703	565394.25	4151914.00	0.01698
565394.25	4151904.00	0.01689	565394.25	4151894.00	0.01676

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         565394.25    4151884.00        0.01660
565394.25    4151874.00        0.01643
         565394.25    4151864.00        0.01623
565394.25    4151854.00        0.01601
         565394.25    4151844.00        0.01577
565394.25    4151834.00        0.01548
         565394.25    4151824.00        0.01519
565394.25    4151814.00        0.01488
         565394.25    4151804.00        0.01454
565394.25    4151794.00        0.01420
         565394.25    4151784.00        0.01386
565384.25    4151974.00        0.01470
         565384.25    4151964.00        0.01479
565384.25    4151954.00        0.01488
         565384.25    4151944.00        0.01495
565384.25    4151934.00        0.01499
         565384.25    4151924.00        0.01500
565384.25    4151914.00        0.01498
         565384.25    4151904.00        0.01494
565384.25    4151894.00        0.01486
         565384.25    4151884.00        0.01476
565384.25    4151874.00        0.01464
         565384.25    4151864.00        0.01451
565384.25    4151854.00        0.01436
         565384.25    4151844.00        0.01419
565384.25    4151834.00        0.01398
         565384.25    4151824.00        0.01376
565384.25    4151814.00        0.01352
         565384.25    4151804.00        0.01324
565384.25    4151794.00        0.01295
         565384.25    4151784.00        0.01267
565374.25    4151974.00        0.01298
         565374.25    4151964.00        0.01306
565374.25    4151954.00        0.01313
         565374.25    4151944.00        0.01320
565374.25    4151934.00        0.01325
         565374.25    4151924.00        0.01327
565374.25    4151914.00        0.01328
         565374.25    4151904.00        0.01327
565374.25    4151894.00        0.01324
         565374.25    4151884.00        0.01319
565374.25    4151874.00        0.01311
         565374.25    4151864.00        0.01301
565374.25    4151854.00        0.01290
         565374.25    4151844.00        0.01276
565374.25    4151834.00        0.01262
         565374.25    4151824.00        0.01246
565374.25    4151814.00        0.01228
         565374.25    4151804.00        0.01206
565374.25    4151794.00        0.01184
         565374.25    4151784.00        0.01161
565364.25    4151974.00        0.01154
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565364.25	4151964.00	0.01160	565364.25	4151954.00	0.01167
565364.25	4151944.00	0.01173	565364.25	4151934.00	0.01178
565364.25	4151924.00	0.01181	565364.25	4151914.00	0.01183
565364.25	4151904.00	0.01184	565364.25	4151894.00	0.01184
565364.25	4151884.00	0.01183	565364.25	4151874.00	0.01179
565364.25	4151864.00	0.01170	565364.25	4151854.00	0.01161
565364.25	4151844.00	0.01151	565364.25	4151834.00	0.01141
565364.25	4151824.00	0.01130	565364.25	4151814.00	0.01117
565364.25	4151804.00	0.01100	565364.25	4151794.00	0.01083
565364.25	4151784.00	0.01065	565354.25	4151974.00	0.01034
565354.25	4151964.00	0.01039	565354.25	4151954.00	0.01044
565354.25	4151944.00	0.01049	565354.25	4151934.00	0.01053
565354.25	4151924.00	0.01057	565354.25	4151914.00	0.01061
565354.25	4151904.00	0.01063	565354.25	4151894.00	0.01064

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         565354.25    4151884.00        0.01064
565354.25    4151874.00        0.01061
         565354.25    4151864.00        0.01056
565354.25    4151854.00        0.01050
         565354.25    4151844.00        0.01043
565354.25    4151834.00        0.01035
         565354.25    4151824.00        0.01026
565354.25    4151814.00        0.01015
         565354.25    4151804.00        0.01003
565354.25    4151794.00        0.00990
         565354.25    4151784.00        0.00976
565344.25    4151974.00        0.00933
         565344.25    4151964.00        0.00936
565344.25    4151954.00        0.00939
         565344.25    4151944.00        0.00942
565344.25    4151934.00        0.00946
         565344.25    4151924.00        0.00951
565344.25    4151914.00        0.00955
         565344.25    4151904.00        0.00958
565344.25    4151894.00        0.00959
         565344.25    4151884.00        0.00959
565344.25    4151874.00        0.00958
         565344.25    4151864.00        0.00956
565344.25    4151854.00        0.00952
         565344.25    4151844.00        0.00948
565344.25    4151834.00        0.00941
         565344.25    4151824.00        0.00933
565344.25    4151814.00        0.00924
         565344.25    4151804.00        0.00915
565344.25    4151794.00        0.00905
         565344.25    4151784.00        0.00895
565334.25    4151974.00        0.00845
         565334.25    4151964.00        0.00847
565334.25    4151954.00        0.00849
         565334.25    4151944.00        0.00851
565334.25    4151934.00        0.00855
         565334.25    4151924.00        0.00859
565334.25    4151914.00        0.00863
         565334.25    4151904.00        0.00866
565334.25    4151894.00        0.00868
         565334.25    4151884.00        0.00868
565334.25    4151874.00        0.00868
         565334.25    4151864.00        0.00868
565334.25    4151854.00        0.00866
         565334.25    4151844.00        0.00863
565334.25    4151834.00        0.00857
         565334.25    4151824.00        0.00851
565334.25    4151814.00        0.00844
         565334.25    4151804.00        0.00838
565334.25    4151794.00        0.00831
         565334.25    4151784.00        0.00823
565324.25    4151974.00        0.00768
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565324.25	4151964.00	0.00769	565324.25	4151954.00	0.00771
565324.25	4151944.00	0.00774	565324.25	4151934.00	0.00776
565324.25	4151924.00	0.00779	565324.25	4151914.00	0.00782
565324.25	4151904.00	0.00784	565324.25	4151894.00	0.00787
565324.25	4151884.00	0.00789	565324.25	4151874.00	0.00790
565324.25	4151864.00	0.00790	565324.25	4151854.00	0.00789
565324.25	4151844.00	0.00787	565324.25	4151834.00	0.00783
565324.25	4151824.00	0.00779	565324.25	4151814.00	0.00774
565324.25	4151804.00	0.00769	565324.25	4151794.00	0.00764
565324.25	4151784.00	0.00758	565314.25	4151974.00	0.00701
565314.25	4151964.00	0.00702	565314.25	4151954.00	0.00704
565314.25	4151944.00	0.00706	565314.25	4151934.00	0.00708
565314.25	4151924.00	0.00709	565314.25	4151914.00	0.00711
565314.25	4151904.00	0.00713	565314.25	4151894.00	0.00716

565314.25 4151884.00 0.00719
565314.25 4151874.00 0.00721
565314.25 4151864.00 0.00721
565314.25 4151854.00 0.00721
565314.25 4151844.00 0.00720
565314.25 4151834.00 0.00718
565314.25 4151824.00 0.00715
565314.25 4151814.00 0.00712
565314.25 4151804.00 0.00708
565314.25 4151794.00 0.00704
565314.25 4151784.00 0.00699
565304.25 4151974.00 0.00643
565304.25 4151964.00 0.00644
565304.25 4151954.00 0.00645
565304.25 4151944.00 0.00646
565304.25 4151934.00 0.00648
565304.25 4151924.00 0.00649
565304.25 4151914.00 0.00651
565304.25 4151904.00 0.00652
565304.25 4151894.00 0.00655
565304.25 4151884.00 0.00657
565304.25 4151874.00 0.00658
565304.25 4151864.00 0.00659
565304.25 4151854.00 0.00660
565304.25 4151844.00 0.00660
565304.25 4151834.00 0.00659
565304.25 4151824.00 0.00657
565304.25 4151814.00 0.00655
565304.25 4151804.00 0.00652
565304.25 4151794.00 0.00649
565304.25 4151784.00 0.00645
565294.25 4151974.00 0.00592
565294.25 4151964.00 0.00593
565294.25 4151954.00 0.00593
565294.25 4151944.00 0.00594
565294.25 4151934.00 0.00595
565294.25 4151924.00 0.00596
565294.25 4151914.00 0.00598
565294.25 4151904.00 0.00599
565294.25 4151894.00 0.00601
565294.25 4151884.00 0.00602
565294.25 4151874.00 0.00603
565294.25 4151864.00 0.00604
565294.25 4151854.00 0.00606
565294.25 4151844.00 0.00606
565294.25 4151834.00 0.00606
565294.25 4151824.00 0.00606
565294.25 4151814.00 0.00605
565294.25 4151804.00 0.00602
565294.25 4151794.00 0.00599
565294.25 4151784.00 0.00596
565284.25 4151974.00 0.00547

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565284.25	4151964.00	0.00548	565284.25	4151954.00	0.00547
565284.25	4151944.00	0.00548	565284.25	4151934.00	0.00548
565284.25	4151924.00	0.00549	565284.25	4151914.00	0.00551
565284.25	4151904.00	0.00552	565284.25	4151894.00	0.00553
565284.25	4151884.00	0.00554	565284.25	4151874.00	0.00555
565284.25	4151864.00	0.00556	565284.25	4151854.00	0.00558
565284.25	4151844.00	0.00559	565284.25	4151834.00	0.00559
565284.25	4151824.00	0.00559	565284.25	4151814.00	0.00559
565284.25	4151804.00	0.00557	565284.25	4151794.00	0.00555
565284.25	4151784.00	0.00552	565274.25	4151974.00	0.00506
565274.25	4151964.00	0.00506	565274.25	4151954.00	0.00507
565274.25	4151944.00	0.00507	565274.25	4151934.00	0.00508
565274.25	4151924.00	0.00508	565274.25	4151914.00	0.00509
565274.25	4151904.00	0.00510	565274.25	4151894.00	0.00510

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         565274.25    4151884.00        0.00511
565274.25    4151874.00        0.00512
         565274.25    4151864.00        0.00514
565274.25    4151854.00        0.00515
         565274.25    4151844.00        0.00516
565274.25    4151834.00        0.00517
         565274.25    4151824.00        0.00517
565274.25    4151814.00        0.00517
         565274.25    4151804.00        0.00516
565274.25    4151794.00        0.00515
         565274.25    4151784.00        0.00514
565264.25    4151974.00        0.00469
         565264.25    4151964.00        0.00469
565264.25    4151954.00        0.00470
         565264.25    4151944.00        0.00471
565264.25    4151934.00        0.00471
         565264.25    4151924.00        0.00471
565264.25    4151914.00        0.00472
         565264.25    4151904.00        0.00472
565264.25    4151894.00        0.00473
         565264.25    4151884.00        0.00474
565264.25    4151874.00        0.00474
         565264.25    4151864.00        0.00476
565264.25    4151854.00        0.00477
         565264.25    4151844.00        0.00478
565264.25    4151834.00        0.00478
         565264.25    4151824.00        0.00479
565264.25    4151814.00        0.00479
         565264.25    4151804.00        0.00479
565264.25    4151794.00        0.00479
         565264.25    4151784.00        0.00479
565454.25    4151984.00        0.04615
         565454.25    4151994.00        0.04625
565454.25    4152004.00        0.04597
         565454.25    4152014.00        0.04543
565454.25    4152024.00        0.04457
         565454.25    4152034.00        0.04343
565454.25    4152044.00        0.04209
         565454.25    4152054.00        0.04065
565454.25    4152064.00        0.03919
         565454.25    4152074.00        0.03781
565454.25    4152084.00        0.03669
         565454.25    4152094.00        0.03595
565454.25    4152104.00        0.03556
         565454.25    4152114.00        0.03532
565454.25    4152124.00        0.03505
         565454.25    4152134.00        0.03463
565454.25    4152144.00        0.03401
         565454.25    4152154.00        0.03318
565454.25    4152164.00        0.03217
         565454.25    4152174.00        0.03099
565454.25    4152184.00        0.02967
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565454.25	4152194.00	0.02826	565454.25	4152204.00	0.02675
565454.25	4152214.00	0.02520	565454.25	4152224.00	0.02369
565454.25	4152234.00	0.02221	565454.25	4152244.00	0.02079
565454.25	4152254.00	0.01944	565454.25	4152264.00	0.01818
565454.25	4152274.00	0.01699	565454.25	4152284.00	0.01589
565444.25	4151984.00	0.03780	565444.25	4151994.00	0.03768
565444.25	4152004.00	0.03732	565444.25	4152014.00	0.03679
565444.25	4152024.00	0.03609	565444.25	4152034.00	0.03523
565444.25	4152044.00	0.03428	565444.25	4152054.00	0.03328
565444.25	4152064.00	0.03225	565444.25	4152074.00	0.03128
565444.25	4152084.00	0.03047	565444.25	4152094.00	0.02992
565444.25	4152104.00	0.02965	565444.25	4152114.00	0.02959
565444.25	4152124.00	0.02958	565444.25	4152134.00	0.02952
565444.25	4152144.00	0.02932	565444.25	4152154.00	0.02895

565444.25 4152164.00 0.02840
565444.25 4152174.00 0.02768
565444.25 4152184.00 0.02680
565444.25 4152194.00 0.02580
565444.25 4152204.00 0.02469
565444.25 4152214.00 0.02350
565444.25 4152224.00 0.02227
565444.25 4152234.00 0.02104
565444.25 4152244.00 0.01982
565444.25 4152254.00 0.01866
565444.25 4152264.00 0.01754
565444.25 4152274.00 0.01648
565444.25 4152284.00 0.01547
565434.25 4151984.00 0.03137
565434.25 4151994.00 0.03116
565434.25 4152004.00 0.03082
565434.25 4152014.00 0.03037
565434.25 4152024.00 0.02981
565434.25 4152034.00 0.02918
565434.25 4152044.00 0.02849
565434.25 4152054.00 0.02776
565434.25 4152064.00 0.02701
565434.25 4152074.00 0.02629
565434.25 4152084.00 0.02568
565434.25 4152094.00 0.02525
565434.25 4152104.00 0.02505
565434.25 4152114.00 0.02504
565434.25 4152124.00 0.02514
565434.25 4152134.00 0.02525
565434.25 4152144.00 0.02530
565434.25 4152154.00 0.02522
565434.25 4152164.00 0.02501
565434.25 4152174.00 0.02463
565434.25 4152184.00 0.02410
565434.25 4152194.00 0.02343
565434.25 4152204.00 0.02265
565434.25 4152214.00 0.02178
565434.25 4152224.00 0.02082
565434.25 4152234.00 0.01982
565434.25 4152244.00 0.01881
565434.25 4152254.00 0.01782
565434.25 4152264.00 0.01686
565434.25 4152274.00 0.01591
565434.25 4152284.00 0.01500
565424.25 4151984.00 0.02637
565424.25 4151994.00 0.02615
565424.25 4152004.00 0.02585
565424.25 4152014.00 0.02548
565424.25 4152024.00 0.02505
565424.25 4152034.00 0.02458
565424.25 4152044.00 0.02406
565424.25 4152054.00 0.02352

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565424.25	4152064.00	0.02295	565424.25	4152074.00	0.02240
565424.25	4152084.00	0.02193	565424.25	4152094.00	0.02159
565424.25	4152104.00	0.02142	565424.25	4152114.00	0.02142
565424.25	4152124.00	0.02154	565424.25	4152134.00	0.02172
565424.25	4152144.00	0.02189	565424.25	4152154.00	0.02199
565424.25	4152164.00	0.02199	565424.25	4152174.00	0.02186
565424.25	4152184.00	0.02160	565424.25	4152194.00	0.02120
565424.25	4152204.00	0.02068	565424.25	4152214.00	0.02006
565424.25	4152224.00	0.01936	565424.25	4152234.00	0.01858
565424.25	4152244.00	0.01776	565424.25	4152254.00	0.01694
565424.25	4152264.00	0.01612	565424.25	4152274.00	0.01530
565424.25	4152284.00	0.01449	565414.25	4151984.00	0.02243
565414.25	4151994.00	0.02223	565414.25	4152004.00	0.02198
565414.25	4152014.00	0.02169	565414.25	4152024.00	0.02136

565414.25 4152034.00 0.02100
565414.25 4152044.00 0.02061
565414.25 4152054.00 0.02019
565414.25 4152064.00 0.01975
565414.25 4152074.00 0.01932
565414.25 4152084.00 0.01894
565414.25 4152094.00 0.01866
565414.25 4152104.00 0.01851
565414.25 4152114.00 0.01850
565414.25 4152124.00 0.01862
565414.25 4152134.00 0.01881
565414.25 4152144.00 0.01903
565414.25 4152154.00 0.01922
565414.25 4152164.00 0.01935
565414.25 4152174.00 0.01938
565414.25 4152184.00 0.01930
565414.25 4152194.00 0.01911
565414.25 4152204.00 0.01881
565414.25 4152214.00 0.01840
565414.25 4152224.00 0.01790
565414.25 4152234.00 0.01733
565414.25 4152244.00 0.01669
565414.25 4152254.00 0.01603
565414.25 4152264.00 0.01534
565414.25 4152274.00 0.01464
565414.25 4152284.00 0.01394
565404.25 4151984.00 0.01926
565404.25 4151994.00 0.01907
565404.25 4152004.00 0.01889
565404.25 4152014.00 0.01869
565404.25 4152024.00 0.01844
565404.25 4152034.00 0.01816
565404.25 4152044.00 0.01785
565404.25 4152054.00 0.01752
565404.25 4152064.00 0.01717
565404.25 4152074.00 0.01683
565404.25 4152084.00 0.01653
565404.25 4152094.00 0.01629
565404.25 4152104.00 0.01616
565404.25 4152114.00 0.01614
565404.25 4152124.00 0.01623
565404.25 4152134.00 0.01640
565404.25 4152144.00 0.01662
565404.25 4152154.00 0.01685
565404.25 4152164.00 0.01705
565404.25 4152174.00 0.01718
565404.25 4152184.00 0.01723
565404.25 4152194.00 0.01719
565404.25 4152204.00 0.01705
565404.25 4152214.00 0.01682
565404.25 4152224.00 0.01649
565404.25 4152234.00 0.01608

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565404.25	4152244.00	0.01561	565404.25	4152254.00	0.01509
565404.25	4152264.00	0.01454	565404.25	4152274.00	0.01396
565404.25	4152284.00	0.01336	565394.25	4151984.00	0.01669
565394.25	4151994.00	0.01655	565394.25	4152004.00	0.01642
565394.25	4152014.00	0.01628	565394.25	4152024.00	0.01608
565394.25	4152034.00	0.01585	565394.25	4152044.00	0.01562
565394.25	4152054.00	0.01536	565394.25	4152064.00	0.01508
565394.25	4152074.00	0.01480	565394.25	4152084.00	0.01455
565394.25	4152094.00	0.01435	565394.25	4152104.00	0.01422
565394.25	4152114.00	0.01419	565394.25	4152124.00	0.01426
565394.25	4152134.00	0.01440	565394.25	4152144.00	0.01461
565394.25	4152154.00	0.01484	565394.25	4152164.00	0.01506
565394.25	4152174.00	0.01525	565394.25	4152184.00	0.01538
565394.25	4152194.00	0.01545	565394.25	4152204.00	0.01543

565394.25 4152214.00 0.01532
565394.25 4152224.00 0.01513
565394.25 4152234.00 0.01487
565394.25 4152244.00 0.01453
565394.25 4152254.00 0.01415
565394.25 4152264.00 0.01372
565394.25 4152274.00 0.01325
565394.25 4152284.00 0.01276
565384.25 4151984.00 0.01461
565384.25 4151994.00 0.01450
565384.25 4152004.00 0.01442
565384.25 4152014.00 0.01431
565384.25 4152024.00 0.01415
565384.25 4152034.00 0.01396
565384.25 4152044.00 0.01378
565384.25 4152054.00 0.01357
565384.25 4152064.00 0.01334
565384.25 4152074.00 0.01311
565384.25 4152084.00 0.01290
565384.25 4152094.00 0.01273
565384.25 4152104.00 0.01262
565384.25 4152114.00 0.01258
565384.25 4152124.00 0.01262
565384.25 4152134.00 0.01274
565384.25 4152144.00 0.01291
565384.25 4152154.00 0.01311
565384.25 4152164.00 0.01335
565384.25 4152174.00 0.01357
565384.25 4152184.00 0.01375
565384.25 4152194.00 0.01387
565384.25 4152204.00 0.01394
565384.25 4152214.00 0.01392
565384.25 4152224.00 0.01385
565384.25 4152234.00 0.01370
565384.25 4152244.00 0.01348
565384.25 4152254.00 0.01322
565384.25 4152264.00 0.01289
565384.25 4152274.00 0.01253
565384.25 4152284.00 0.01213
565374.25 4151984.00 0.01291
565374.25 4151994.00 0.01283
565374.25 4152004.00 0.01277
565374.25 4152014.00 0.01268
565374.25 4152024.00 0.01255
565374.25 4152034.00 0.01240
565374.25 4152044.00 0.01225
565374.25 4152054.00 0.01208
565374.25 4152064.00 0.01189
565374.25 4152074.00 0.01170
565374.25 4152084.00 0.01152
565374.25 4152094.00 0.01137
565374.25 4152104.00 0.01127

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565374.25	4152114.00	0.01123	565374.25	4152124.00	0.01125
565374.25	4152134.00	0.01134	565374.25	4152144.00	0.01149
565374.25	4152154.00	0.01168	565374.25	4152164.00	0.01189
565374.25	4152174.00	0.01210	565374.25	4152184.00	0.01230
565374.25	4152194.00	0.01247	565374.25	4152204.00	0.01259
565374.25	4152214.00	0.01265	565374.25	4152224.00	0.01265
565374.25	4152234.00	0.01259	565374.25	4152244.00	0.01247
565374.25	4152254.00	0.01230	565374.25	4152264.00	0.01206
565374.25	4152274.00	0.01173	565374.25	4152284.00	0.01144
565364.25	4151984.00	0.01149	565364.25	4151994.00	0.01144
565364.25	4152004.00	0.01139	565364.25	4152014.00	0.01131
565364.25	4152024.00	0.01121	565364.25	4152034.00	0.01109
565364.25	4152044.00	0.01097	565364.25	4152054.00	0.01082
565364.25	4152064.00	0.01066	565364.25	4152074.00	0.01050

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         565364.25    4152084.00        0.01035
565364.25    4152094.00        0.01022
         565364.25    4152104.00        0.01013
565364.25    4152114.00        0.01008
         565364.25    4152124.00        0.01009
565364.25    4152134.00        0.01016
         565364.25    4152144.00        0.01028
565364.25    4152154.00        0.01044
         565364.25    4152164.00        0.01063
565364.25    4152174.00        0.01084
         565364.25    4152184.00        0.01104
565364.25    4152194.00        0.01122
         565364.25    4152204.00        0.01137
565364.25    4152214.00        0.01148
         565364.25    4152224.00        0.01154
565364.25    4152234.00        0.01155
         565364.25    4152244.00        0.01150
565364.25    4152254.00        0.01141
         565364.25    4152264.00        0.01122
565364.25    4152274.00        0.01094
         565364.25    4152284.00        0.01073
565354.25    4151984.00        0.01031
         565354.25    4151994.00        0.01027
565354.25    4152004.00        0.01023
         565354.25    4152014.00        0.01016
565354.25    4152024.00        0.01008
         565354.25    4152034.00        0.00998
565354.25    4152044.00        0.00987
         565354.25    4152054.00        0.00975
565354.25    4152064.00        0.00962
         565354.25    4152074.00        0.00948
565354.25    4152084.00        0.00935
         565354.25    4152094.00        0.00924
565354.25    4152104.00        0.00915
         565354.25    4152114.00        0.00911
565354.25    4152124.00        0.00911
         565354.25    4152134.00        0.00915
565354.25    4152144.00        0.00925
         565354.25    4152154.00        0.00938
565354.25    4152164.00        0.00955
         565354.25    4152174.00        0.00974
565354.25    4152184.00        0.00993
         565354.25    4152194.00        0.01012
565354.25    4152204.00        0.01029
         565354.25    4152214.00        0.01042
565354.25    4152224.00        0.01052
         565354.25    4152234.00        0.01058
565354.25    4152244.00        0.01059
         565354.25    4152254.00        0.01056
565354.25    4152264.00        0.01048
         565354.25    4152274.00        0.01031
565354.25    4152284.00        0.01015
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565344.25	4151984.00	0.00930	565344.25	4151994.00	0.00927
565344.25	4152004.00	0.00923	565344.25	4152014.00	0.00917
565344.25	4152024.00	0.00910	565344.25	4152034.00	0.00903
565344.25	4152044.00	0.00893	565344.25	4152054.00	0.00883
565344.25	4152064.00	0.00872	565344.25	4152074.00	0.00860
565344.25	4152084.00	0.00849	565344.25	4152094.00	0.00839
565344.25	4152104.00	0.00831	565344.25	4152114.00	0.00827
565344.25	4152124.00	0.00825	565344.25	4152134.00	0.00829
565344.25	4152144.00	0.00836	565344.25	4152154.00	0.00848
565344.25	4152164.00	0.00862	565344.25	4152174.00	0.00879
565344.25	4152184.00	0.00897	565344.25	4152194.00	0.00915
565344.25	4152204.00	0.00932	565344.25	4152214.00	0.00947
565344.25	4152224.00	0.00960	565344.25	4152234.00	0.00969
565344.25	4152244.00	0.00974	565344.25	4152254.00	0.00975

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         565344.25    4152264.00        0.00971
565344.25    4152274.00        0.00963
         565344.25    4152284.00        0.00953
565334.25    4151984.00        0.00843
         565334.25    4151994.00        0.00841
565334.25    4152004.00        0.00837
         565334.25    4152014.00        0.00832
565334.25    4152024.00        0.00827
         565334.25    4152034.00        0.00820
565334.25    4152044.00        0.00812
         565334.25    4152054.00        0.00804
565334.25    4152064.00        0.00794
         565334.25    4152074.00        0.00784
565334.25    4152084.00        0.00774
         565334.25    4152094.00        0.00765
565334.25    4152104.00        0.00758
         565334.25    4152114.00        0.00753
565334.25    4152124.00        0.00750
         565334.25    4152134.00        0.00753
565334.25    4152144.00        0.00760
         565334.25    4152154.00        0.00769
565334.25    4152164.00        0.00781
         565334.25    4152174.00        0.00796
565334.25    4152184.00        0.00812
         565334.25    4152194.00        0.00829
565334.25    4152204.00        0.00846
         565334.25    4152214.00        0.00862
565334.25    4152224.00        0.00875
         565334.25    4152234.00        0.00887
565334.25    4152244.00        0.00895
         565334.25    4152254.00        0.00897
565334.25    4152264.00        0.00894
         565334.25    4152274.00        0.00887
565334.25    4152284.00        0.00884
         565324.25    4151984.00        0.00766
565324.25    4151994.00        0.00765
         565324.25    4152004.00        0.00762
565324.25    4152014.00        0.00758
         565324.25    4152024.00        0.00753
565324.25    4152034.00        0.00748
         565324.25    4152044.00        0.00742
565324.25    4152054.00        0.00734
         565324.25    4152064.00        0.00726
565324.25    4152074.00        0.00717
         565324.25    4152084.00        0.00709
565324.25    4152094.00        0.00701
         565324.25    4152104.00        0.00694
565324.25    4152114.00        0.00689
         565324.25    4152124.00        0.00687
565324.25    4152134.00        0.00689
         565324.25    4152144.00        0.00694
565324.25    4152154.00        0.00701
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565324.25	4152164.00	0.00712	565324.25	4152174.00	0.00724
565324.25	4152184.00	0.00738	565324.25	4152194.00	0.00754
565324.25	4152204.00	0.00770	565324.25	4152214.00	0.00785
565324.25	4152224.00	0.00800	565324.25	4152234.00	0.00812
565324.25	4152244.00	0.00822	565324.25	4152254.00	0.00827
565324.25	4152264.00	0.00825	565324.25	4152274.00	0.00819
565324.25	4152284.00	0.00821	565314.25	4151984.00	0.00700
565314.25	4151994.00	0.00698	565314.25	4152004.00	0.00696
565314.25	4152014.00	0.00693	565314.25	4152024.00	0.00689
565314.25	4152034.00	0.00685	565314.25	4152044.00	0.00680
565314.25	4152054.00	0.00674	565314.25	4152064.00	0.00666
565314.25	4152074.00	0.00659	565314.25	4152084.00	0.00651
565314.25	4152094.00	0.00643	565314.25	4152104.00	0.00638
565314.25	4152114.00	0.00633	565314.25	4152124.00	0.00631

565314.25 4152134.00 0.00632
565314.25 4152144.00 0.00636
565314.25 4152154.00 0.00642
565314.25 4152164.00 0.00650
565314.25 4152174.00 0.00661
565314.25 4152184.00 0.00674
565314.25 4152194.00 0.00688
565314.25 4152204.00 0.00703
565314.25 4152214.00 0.00717
565314.25 4152224.00 0.00731
565314.25 4152234.00 0.00744
565314.25 4152244.00 0.00756
565314.25 4152254.00 0.00761
565314.25 4152264.00 0.00760
565314.25 4152274.00 0.00756
565314.25 4152284.00 0.00761
565304.25 4151984.00 0.00642
565304.25 4151994.00 0.00641
565304.25 4152004.00 0.00639
565304.25 4152014.00 0.00637
565304.25 4152024.00 0.00634
565304.25 4152034.00 0.00631
565304.25 4152044.00 0.00626
565304.25 4152054.00 0.00620
565304.25 4152064.00 0.00614
565304.25 4152074.00 0.00607
565304.25 4152084.00 0.00600
565304.25 4152094.00 0.00593
565304.25 4152104.00 0.00588
565304.25 4152114.00 0.00585
565304.25 4152124.00 0.00583
565304.25 4152134.00 0.00583
565304.25 4152144.00 0.00585
565304.25 4152154.00 0.00590
565304.25 4152164.00 0.00597
565304.25 4152174.00 0.00606
565304.25 4152184.00 0.00617
565304.25 4152194.00 0.00630
565304.25 4152204.00 0.00643
565304.25 4152214.00 0.00657
565304.25 4152224.00 0.00670
565304.25 4152234.00 0.00683
565304.25 4152244.00 0.00695
565304.25 4152254.00 0.00703
565304.25 4152264.00 0.00706
565304.25 4152274.00 0.00705
565304.25 4152284.00 0.00712
565294.25 4151984.00 0.00591
565294.25 4151994.00 0.00590
565294.25 4152004.00 0.00588
565294.25 4152014.00 0.00587
565294.25 4152024.00 0.00586

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565294.25	4152034.00	0.00582	565294.25	4152044.00	0.00578
565294.25	4152054.00	0.00573	565294.25	4152064.00	0.00567
565294.25	4152074.00	0.00561	565294.25	4152084.00	0.00555
565294.25	4152094.00	0.00549	565294.25	4152104.00	0.00545
565294.25	4152114.00	0.00541	565294.25	4152124.00	0.00539
565294.25	4152134.00	0.00539	565294.25	4152144.00	0.00540
565294.25	4152154.00	0.00544	565294.25	4152164.00	0.00550
565294.25	4152174.00	0.00557	565294.25	4152184.00	0.00567
565294.25	4152194.00	0.00578	565294.25	4152204.00	0.00590
565294.25	4152214.00	0.00603	565294.25	4152224.00	0.00616
565294.25	4152234.00	0.00628	565294.25	4152244.00	0.00640
565294.25	4152254.00	0.00650	565294.25	4152264.00	0.00657
565294.25	4152274.00	0.00663	565294.25	4152284.00	0.00669
565284.25	4151984.00	0.00546	565284.25	4151994.00	0.00545

565284.25 4152004.00 0.00544
565284.25 4152014.00 0.00544
565284.25 4152024.00 0.00542
565284.25 4152034.00 0.00539
565284.25 4152044.00 0.00535
565284.25 4152054.00 0.00531
565284.25 4152064.00 0.00526
565284.25 4152074.00 0.00520
565284.25 4152084.00 0.00515
565284.25 4152094.00 0.00510
565284.25 4152104.00 0.00506
565284.25 4152114.00 0.00503
565284.25 4152124.00 0.00500
565284.25 4152134.00 0.00500
565284.25 4152144.00 0.00501
565284.25 4152154.00 0.00503
565284.25 4152164.00 0.00508
565284.25 4152174.00 0.00514
565284.25 4152184.00 0.00523
565284.25 4152194.00 0.00532
565284.25 4152204.00 0.00543
565284.25 4152214.00 0.00555
565284.25 4152224.00 0.00567
565284.25 4152234.00 0.00578
565284.25 4152244.00 0.00590
565284.25 4152254.00 0.00601
565284.25 4152264.00 0.00611
565284.25 4152274.00 0.00619
565284.25 4152284.00 0.00626
565274.25 4151984.00 0.00506
565274.25 4151994.00 0.00505
565274.25 4152004.00 0.00505
565274.25 4152014.00 0.00505
565274.25 4152024.00 0.00503
565274.25 4152034.00 0.00500
565274.25 4152044.00 0.00497
565274.25 4152054.00 0.00493
565274.25 4152064.00 0.00489
565274.25 4152074.00 0.00484
565274.25 4152084.00 0.00479
565274.25 4152094.00 0.00475
565274.25 4152104.00 0.00471
565274.25 4152114.00 0.00468
565274.25 4152124.00 0.00466
565274.25 4152134.00 0.00465
565274.25 4152144.00 0.00465
565274.25 4152154.00 0.00467
565274.25 4152164.00 0.00471
565274.25 4152174.00 0.00476
565274.25 4152184.00 0.00483
565274.25 4152194.00 0.00492
565274.25 4152204.00 0.00501

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565274.25	4152214.00	0.00512	565274.25	4152224.00	0.00523
565274.25	4152234.00	0.00534	565274.25	4152244.00	0.00545
565274.25	4152254.00	0.00556	565274.25	4152264.00	0.00566
565274.25	4152274.00	0.00575	565274.25	4152284.00	0.00582
565264.25	4151984.00	0.00470	565264.25	4151994.00	0.00470
565264.25	4152004.00	0.00470	565264.25	4152014.00	0.00470
565264.25	4152024.00	0.00468	565264.25	4152034.00	0.00466
565264.25	4152044.00	0.00463	565264.25	4152054.00	0.00459
565264.25	4152064.00	0.00455	565264.25	4152074.00	0.00451
565264.25	4152084.00	0.00447	565264.25	4152094.00	0.00443
565264.25	4152104.00	0.00439	565264.25	4152114.00	0.00436
565264.25	4152124.00	0.00434	565264.25	4152134.00	0.00433
565264.25	4152144.00	0.00433	565264.25	4152154.00	0.00435
565264.25	4152164.00	0.00438	565264.25	4152174.00	0.00443

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         565264.25    4152184.00         0.00448
565264.25    4152194.00         0.00455
         565264.25    4152204.00         0.00463
565264.25    4152214.00         0.00472
         565264.25    4152224.00         0.00483
565264.25    4152234.00         0.00494
         565264.25    4152244.00         0.00504
565264.25    4152254.00         0.00514
         565264.25    4152264.00         0.00524
565264.25    4152274.00         0.00534
         565264.25    4152284.00         0.00542
565264.25    4152367.25         0.00558
         565264.25    4152450.75         0.00488
565264.25    4152534.00         0.00388
         565358.00    4152367.25         0.00803
565358.00    4152450.75         0.00574
         565358.00    4152534.00         0.00420
565451.75    4152367.25         0.00951
         565451.75    4152450.75         0.00631
565451.75    4152534.00         0.00449
         565545.50    4152367.25         0.00954
565545.50    4152450.75         0.00608
         565545.50    4152534.00         0.00427
565639.25    4152367.25         0.00834
         565639.25    4152450.75         0.00557
565639.25    4152534.00         0.00395
         565733.00    4152367.25         0.00633
565733.00    4152450.75         0.00474
         565733.00    4152534.00         0.00362
565826.75    4152367.25         0.00442
         565826.75    4152450.75         0.00341
565826.75    4152534.00         0.00286
         565920.50    4152367.25         0.00386
565920.50    4152450.75         0.00262
         565920.50    4152534.00         0.00211
566014.25    4152367.25         0.00374
         566014.25    4152450.75         0.00241
566014.25    4152534.00         0.00176
         565847.56    4152284.00         0.00718
565847.56    4152190.25         0.01719
         565847.56    4152096.50         0.03804
565847.56    4152002.75         0.05278
         565847.56    4151909.00         0.04568
565847.56    4151815.25         0.03277
         565847.56    4151721.50         0.02155
565847.56    4151627.75         0.01419
         565847.56    4151534.00         0.00982
565930.94    4152284.00         0.00675
         565930.94    4152190.25         0.01389
565930.94    4152096.50         0.02518
         565930.94    4152002.75         0.03248
565930.94    4151909.00         0.03052
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565930.94	4151815.25	0.02505	565930.94	4151721.50	0.01892
565930.94	4151627.75	0.01357	565930.94	4151534.00	0.00969
566014.25	4152284.00	0.00623	566014.25	4152190.25	0.01110
566014.25	4152096.50	0.01767	566014.25	4152002.75	0.02195
566014.25	4151909.00	0.02152	566014.25	4151815.25	0.01902
566014.25	4151721.50	0.01581	566014.25	4151627.75	0.01238
566014.25	4151534.00	0.00941	565764.25	4151700.75	0.02085
565764.25	4151617.25	0.01412	565764.25	4151534.00	0.01018
565670.50	4151700.75	0.02272	565670.50	4151617.25	0.01495
565670.50	4151534.00	0.01054	565576.75	4151700.75	0.02356
565576.75	4151617.25	0.01521	565576.75	4151534.00	0.01057
565483.00	4151700.75	0.01928	565483.00	4151617.25	0.01331
565483.00	4151534.00	0.00967	565389.25	4151700.75	0.01096
565389.25	4151617.25	0.00893	565389.25	4151534.00	0.00724

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         565295.50    4151700.75        0.00559
565295.50    4151617.25        0.00515
         565295.50    4151534.00        0.00449
565201.75    4151700.75        0.00309
         565201.75    4151617.25        0.00299
565201.75    4151534.00        0.00277
         565108.00    4151700.75        0.00193
565108.00    4151617.25        0.00191
         565108.00    4151534.00        0.00184
565014.25    4151700.75        0.00123
         565014.25    4151617.25        0.00123
565014.25    4151534.00        0.00128
         565180.94    4151784.00        0.00278
565180.94    4151877.75        0.00273
         565180.94    4151971.50        0.00279
565180.94    4152065.25        0.00274
         565180.94    4152159.00        0.00262
565180.94    4152252.75        0.00290
         565180.94    4152346.50        0.00345
565180.94    4152440.25        0.00366
         565180.94    4152534.00        0.00336
565097.56    4151784.00        0.00175
         565097.56    4151877.75        0.00178
565097.56    4151971.50        0.00185
         565097.56    4152065.25        0.00184
565097.56    4152159.00        0.00176
         565097.56    4152252.75        0.00186
565097.56    4152346.50        0.00216
         565097.56    4152440.25        0.00250
565097.56    4152534.00        0.00260
         565014.25    4151784.00        0.00122
565014.25    4151877.75        0.00118
         565014.25    4151971.50        0.00133
565014.25    4152065.25        0.00132
         565014.25    4152159.00        0.00127
565014.25    4152252.75        0.00130
         565014.25    4152346.50        0.00146
565014.25    4152440.25        0.00169
         565014.25    4152534.00        0.00189
565502.65    4152072.47        0.10995
         565589.07    4151982.88        0.46998
565619.89    4152017.45        0.51242
         565621.62    4152031.56        0.48895
565618.45    4152045.97        0.47286
         565600.88    4152086.01        0.33784
565578.70    4152137.28        0.09290
         565504.04    4152071.95        0.11372
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565464.25	4151984.00	0.00015	565464.25	4152009.00	0.00014
565464.25	4152034.00	0.00007	565464.25	4152059.00	0.00006
565464.25	4152084.00	0.00004	565489.25	4151984.00	0.00022
565489.25	4152009.00	0.00019	565489.25	4152034.00	0.00012
565489.25	4152059.00	0.00006	565489.25	4152084.00	0.00005
565514.25	4151984.00	0.00019	565514.25	4152009.00	0.00022
565514.25	4152034.00	0.00020	565514.25	4152059.00	0.00007
565514.25	4152084.00	0.00004	565539.25	4151984.00	0.00021
565539.25	4152009.00	0.00020	565539.25	4152034.00	0.00016
565564.25	4151984.00	0.00021	565564.25	4152009.00	0.00015
565464.25	4152094.00	0.00004	565464.25	4152104.00	0.00003
565464.25	4152114.00	0.00003	565464.25	4152124.00	0.00002
565464.25	4152134.00	0.00002	565464.25	4152144.00	0.00002
565464.25	4152154.00	0.00002	565464.25	4152164.00	0.00002

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         565464.25    4152174.00        0.00001
565464.25    4152184.00        0.00001
         565464.25    4152194.00        0.00001
565464.25    4152204.00        0.00001
         565464.25    4152214.00        0.00001
565464.25    4152224.00        0.00001
         565464.25    4152234.00        0.00001
565464.25    4152244.00        0.00001
         565464.25    4152254.00        0.00001
565464.25    4152264.00        0.00001
         565464.25    4152274.00        0.00001
565464.25    4152284.00        0.00001
         565474.25    4152094.00        0.00004
565474.25    4152104.00        0.00003
         565474.25    4152114.00        0.00003
565474.25    4152124.00        0.00003
         565474.25    4152134.00        0.00002
565474.25    4152144.00        0.00002
         565474.25    4152154.00        0.00002
565474.25    4152164.00        0.00002
         565474.25    4152174.00        0.00001
565474.25    4152184.00        0.00001
         565474.25    4152194.00        0.00001
565474.25    4152204.00        0.00001
         565474.25    4152214.00        0.00001
565474.25    4152224.00        0.00001
         565474.25    4152234.00        0.00001
565474.25    4152244.00        0.00001
         565474.25    4152254.00        0.00001
565474.25    4152264.00        0.00001
         565474.25    4152274.00        0.00001
565474.25    4152284.00        0.00001
         565484.25    4152094.00        0.00004
565484.25    4152104.00        0.00004
         565484.25    4152114.00        0.00003
565484.25    4152124.00        0.00003
         565484.25    4152134.00        0.00002
565484.25    4152144.00        0.00002
         565484.25    4152154.00        0.00002
565484.25    4152164.00        0.00002
         565484.25    4152174.00        0.00001
565484.25    4152184.00        0.00001
         565484.25    4152194.00        0.00001
565484.25    4152204.00        0.00001
         565484.25    4152214.00        0.00001
565484.25    4152224.00        0.00001
         565484.25    4152234.00        0.00001
565484.25    4152244.00        0.00001
         565484.25    4152254.00        0.00001
565484.25    4152264.00        0.00001
         565484.25    4152274.00        0.00001
565484.25    4152284.00        0.00001
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565494.25	4152094.00	0.00004	565494.25	4152104.00	0.00003
565494.25	4152114.00	0.00003	565494.25	4152124.00	0.00003
565494.25	4152134.00	0.00002	565494.25	4152144.00	0.00002
565494.25	4152154.00	0.00002	565494.25	4152164.00	0.00002
565494.25	4152174.00	0.00001	565494.25	4152184.00	0.00001
565494.25	4152194.00	0.00001	565494.25	4152204.00	0.00001
565494.25	4152214.00	0.00001	565494.25	4152224.00	0.00001
565494.25	4152234.00	0.00001	565494.25	4152244.00	0.00001
565494.25	4152254.00	0.00001	565494.25	4152264.00	0.00001
565494.25	4152274.00	0.00001	565494.25	4152284.00	0.00001
565504.25	4152094.00	0.00004	565504.25	4152104.00	0.00003
565504.25	4152114.00	0.00003	565504.25	4152124.00	0.00002
565504.25	4152134.00	0.00002	565504.25	4152144.00	0.00002
565504.25	4152154.00	0.00002	565504.25	4152164.00	0.00002

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         565504.25    4152174.00        0.00001
565504.25    4152184.00        0.00001
         565504.25    4152194.00        0.00001
565504.25    4152204.00        0.00001
         565504.25    4152214.00        0.00001
565504.25    4152224.00        0.00001
         565504.25    4152234.00        0.00001
565504.25    4152244.00        0.00001
         565504.25    4152254.00        0.00001
565504.25    4152264.00        0.00001
         565504.25    4152274.00        0.00001
565504.25    4152284.00        0.00001
         565514.25    4152094.00        0.00004
565514.25    4152104.00        0.00003
         565514.25    4152114.00        0.00003
565514.25    4152124.00        0.00002
         565514.25    4152134.00        0.00002
565514.25    4152144.00        0.00002
         565514.25    4152154.00        0.00002
565514.25    4152164.00        0.00002
         565514.25    4152174.00        0.00001
565514.25    4152184.00        0.00001
         565514.25    4152194.00        0.00001
565514.25    4152204.00        0.00001
         565514.25    4152214.00        0.00001
565514.25    4152224.00        0.00001
         565514.25    4152234.00        0.00001
565514.25    4152244.00        0.00001
         565514.25    4152254.00        0.00001
565514.25    4152264.00        0.00001
         565514.25    4152274.00        0.00001
565514.25    4152284.00        0.00001
         565524.25    4152094.00        0.00004
565524.25    4152104.00        0.00003
         565524.25    4152114.00        0.00003
565524.25    4152124.00        0.00002
         565524.25    4152134.00        0.00002
565524.25    4152144.00        0.00002
         565524.25    4152154.00        0.00002
565524.25    4152164.00        0.00002
         565524.25    4152174.00        0.00001
565524.25    4152184.00        0.00001
         565524.25    4152194.00        0.00001
565524.25    4152204.00        0.00001
         565524.25    4152214.00        0.00001
565524.25    4152224.00        0.00001
         565524.25    4152234.00        0.00001
565524.25    4152244.00        0.00001
         565524.25    4152254.00        0.00001
565524.25    4152264.00        0.00001
         565524.25    4152274.00        0.00001
565524.25    4152284.00        0.00001
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565534.25	4152104.00	0.00003	565534.25	4152114.00	0.00003
565534.25	4152124.00	0.00002	565534.25	4152134.00	0.00002
565534.25	4152144.00	0.00002	565534.25	4152154.00	0.00002
565534.25	4152164.00	0.00002	565534.25	4152174.00	0.00001
565534.25	4152184.00	0.00001	565534.25	4152194.00	0.00001
565534.25	4152204.00	0.00001	565534.25	4152214.00	0.00001
565534.25	4152224.00	0.00001	565534.25	4152234.00	0.00001
565534.25	4152244.00	0.00001	565534.25	4152254.00	0.00001
565534.25	4152264.00	0.00001	565534.25	4152274.00	0.00001
565534.25	4152284.00	0.00001	565544.25	4152114.00	0.00003
565544.25	4152124.00	0.00002	565544.25	4152134.00	0.00002
565544.25	4152144.00	0.00002	565544.25	4152154.00	0.00002
565544.25	4152164.00	0.00002	565544.25	4152174.00	0.00001
565544.25	4152184.00	0.00001	565544.25	4152194.00	0.00001

565544.25 4152204.00 0.00001
565544.25 4152214.00 0.00001
565544.25 4152224.00 0.00001
565544.25 4152234.00 0.00001
565544.25 4152244.00 0.00001
565544.25 4152254.00 0.00001
565544.25 4152264.00 0.00001
565544.25 4152274.00 0.00001
565544.25 4152284.00 0.00001
565554.25 4152124.00 0.00002
565554.25 4152134.00 0.00002
565554.25 4152144.00 0.00002
565554.25 4152154.00 0.00002
565554.25 4152164.00 0.00001
565554.25 4152174.00 0.00001
565554.25 4152184.00 0.00001
565554.25 4152194.00 0.00001
565554.25 4152204.00 0.00001
565554.25 4152214.00 0.00001
565554.25 4152224.00 0.00001
565554.25 4152234.00 0.00001
565554.25 4152244.00 0.00001
565554.25 4152254.00 0.00001
565554.25 4152264.00 0.00001
565554.25 4152274.00 0.00001
565554.25 4152284.00 0.00001
565564.25 4152134.00 0.00002
565564.25 4152144.00 0.00002
565564.25 4152154.00 0.00002
565564.25 4152164.00 0.00001
565564.25 4152174.00 0.00001
565564.25 4152184.00 0.00001
565564.25 4152194.00 0.00001
565564.25 4152204.00 0.00001
565564.25 4152214.00 0.00001
565564.25 4152224.00 0.00001
565564.25 4152234.00 0.00001
565564.25 4152244.00 0.00001
565564.25 4152254.00 0.00001
565564.25 4152264.00 0.00001
565564.25 4152274.00 0.00001
565564.25 4152284.00 0.00001
565574.25 4152134.00 0.00002
565574.25 4152144.00 0.00002
565574.25 4152154.00 0.00002
565574.25 4152164.00 0.00001
565574.25 4152174.00 0.00001
565574.25 4152184.00 0.00001
565574.25 4152194.00 0.00001
565574.25 4152204.00 0.00001
565574.25 4152214.00 0.00001
565574.25 4152224.00 0.00001

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565574.25	4152234.00	0.00001	565574.25	4152244.00	0.00001
565574.25	4152254.00	0.00001	565574.25	4152264.00	0.00001
565574.25	4152274.00	0.00001	565574.25	4152284.00	0.00001
565584.25	4152134.00	0.00002	565584.25	4152144.00	0.00002
565584.25	4152154.00	0.00002	565584.25	4152164.00	0.00001
565584.25	4152174.00	0.00001	565584.25	4152184.00	0.00001
565584.25	4152194.00	0.00001	565584.25	4152204.00	0.00001
565584.25	4152214.00	0.00001	565584.25	4152224.00	0.00001
565584.25	4152234.00	0.00001	565584.25	4152244.00	0.00001
565584.25	4152254.00	0.00001	565584.25	4152264.00	0.00001
565584.25	4152274.00	0.00001	565584.25	4152284.00	0.00001
565594.25	4152104.00	0.00003	565594.25	4152114.00	0.00003
565594.25	4152124.00	0.00002	565594.25	4152134.00	0.00002
565594.25	4152144.00	0.00002	565594.25	4152154.00	0.00002

```
         565594.25    4152164.00        0.00001
565594.25    4152174.00        0.00001
         565594.25    4152184.00        0.00001
565594.25    4152194.00        0.00001
         565594.25    4152204.00        0.00001
565594.25    4152214.00        0.00001
         565594.25    4152224.00        0.00001
565594.25    4152234.00        0.00001
         565594.25    4152244.00        0.00001
565594.25    4152254.00        0.00001
         565594.25    4152264.00        0.00001
565594.25    4152274.00        0.00001
         565594.25    4152284.00        0.00001
565604.25    4152094.00        0.00004
         565604.25    4152104.00        0.00003
565604.25    4152114.00        0.00003
         565604.25    4152124.00        0.00002
565604.25    4152134.00        0.00002
         565604.25    4152144.00        0.00002
565604.25    4152154.00        0.00002
         565604.25    4152164.00        0.00001
565604.25    4152174.00        0.00001
         565604.25    4152184.00        0.00001
565604.25    4152194.00        0.00001
         565604.25    4152204.00        0.00001
565604.25    4152214.00        0.00001
         565604.25    4152224.00        0.00001
565604.25    4152234.00        0.00001
         565604.25    4152244.00        0.00001
565604.25    4152254.00        0.00001
         565604.25    4152264.00        0.00001
565604.25    4152274.00        0.00001
         565604.25    4152284.00        0.00001
565614.25    4152094.00        0.00004
         565614.25    4152104.00        0.00003
565614.25    4152114.00        0.00003
         565614.25    4152124.00        0.00002
565614.25    4152134.00        0.00002
         565614.25    4152144.00        0.00002
565614.25    4152154.00        0.00002
         565614.25    4152164.00        0.00001
565614.25    4152174.00        0.00001
         565614.25    4152184.00        0.00001
565614.25    4152194.00        0.00001
         565614.25    4152204.00        0.00001
565614.25    4152214.00        0.00001
         565614.25    4152224.00        0.00001
565614.25    4152234.00        0.00001
         565614.25    4152244.00        0.00001
565614.25    4152254.00        0.00001
         565614.25    4152264.00        0.00001
565614.25    4152274.00        0.00001
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565614.25	4152284.00	0.00001	565624.25	4152094.00	0.00004
565624.25	4152104.00	0.00003	565624.25	4152114.00	0.00003
565624.25	4152124.00	0.00002	565624.25	4152134.00	0.00002
565624.25	4152144.00	0.00002	565624.25	4152154.00	0.00001
565624.25	4152164.00	0.00001	565624.25	4152174.00	0.00001
565624.25	4152184.00	0.00001	565624.25	4152194.00	0.00001
565624.25	4152204.00	0.00001	565624.25	4152214.00	0.00001
565624.25	4152224.00	0.00001	565624.25	4152234.00	0.00001
565624.25	4152244.00	0.00001	565624.25	4152254.00	0.00001
565624.25	4152264.00	0.00001	565624.25	4152274.00	0.00001
565624.25	4152284.00	0.00001	565634.25	4152094.00	0.00003
565634.25	4152104.00	0.00003	565634.25	4152114.00	0.00002
565634.25	4152124.00	0.00002	565634.25	4152134.00	0.00002
565634.25	4152144.00	0.00002	565634.25	4152154.00	0.00001

565634.25 4152164.00 0.00001
565634.25 4152174.00 0.00001
565634.25 4152184.00 0.00001
565634.25 4152194.00 0.00001
565634.25 4152204.00 0.00001
565634.25 4152214.00 0.00001
565634.25 4152224.00 0.00001
565634.25 4152234.00 0.00001
565634.25 4152244.00 0.00001
565634.25 4152254.00 0.00001
565634.25 4152264.00 0.00001
565634.25 4152274.00 0.00001
565634.25 4152284.00 0.00001
565644.25 4152094.00 0.00003
565644.25 4152104.00 0.00003
565644.25 4152114.00 0.00002
565644.25 4152124.00 0.00002
565644.25 4152134.00 0.00002
565644.25 4152144.00 0.00002
565644.25 4152154.00 0.00001
565644.25 4152164.00 0.00001
565644.25 4152174.00 0.00001
565644.25 4152184.00 0.00001
565644.25 4152194.00 0.00001
565644.25 4152204.00 0.00001
565644.25 4152214.00 0.00001
565644.25 4152224.00 0.00001
565644.25 4152234.00 0.00001
565644.25 4152244.00 0.00001
565644.25 4152254.00 0.00001
565644.25 4152264.00 0.00001
565644.25 4152274.00 0.00001
565644.25 4152284.00 0.00001
565654.25 4152094.00 0.00003
565654.25 4152104.00 0.00003
565654.25 4152114.00 0.00002
565654.25 4152124.00 0.00002
565654.25 4152134.00 0.00002
565654.25 4152144.00 0.00002
565654.25 4152154.00 0.00001
565654.25 4152164.00 0.00001
565654.25 4152174.00 0.00001
565654.25 4152184.00 0.00001
565654.25 4152194.00 0.00001
565654.25 4152204.00 0.00001
565654.25 4152214.00 0.00001
565654.25 4152224.00 0.00001
565654.25 4152234.00 0.00001
565654.25 4152244.00 0.00001
565654.25 4152254.00 0.00001
565654.25 4152264.00 0.00001
565654.25 4152274.00 0.00001

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565654.25	4152284.00	0.00001	565664.25	4152094.00	0.00003
565664.25	4152104.00	0.00003	565664.25	4152114.00	0.00002
565664.25	4152124.00	0.00002	565664.25	4152134.00	0.00002
565664.25	4152144.00	0.00001	565664.25	4152154.00	0.00001
565664.25	4152164.00	0.00001	565664.25	4152174.00	0.00001
565664.25	4152184.00	0.00001	565664.25	4152194.00	0.00001
565664.25	4152204.00	0.00001	565664.25	4152214.00	0.00001
565664.25	4152224.00	0.00001	565664.25	4152234.00	0.00001
565664.25	4152244.00	0.00001	565664.25	4152254.00	0.00001
565664.25	4152264.00	0.00001	565664.25	4152274.00	0.00001
565664.25	4152284.00	0.00000	565674.25	4152094.00	0.00003
565674.25	4152104.00	0.00002	565674.25	4152114.00	0.00002
565674.25	4152124.00	0.00002	565674.25	4152134.00	0.00002
565674.25	4152144.00	0.00001	565674.25	4152154.00	0.00001

```
         565674.25    4152164.00        0.00001
565674.25    4152174.00        0.00001
         565674.25    4152184.00        0.00001
565674.25    4152194.00        0.00001
         565674.25    4152204.00        0.00001
565674.25    4152214.00        0.00001
         565674.25    4152224.00        0.00001
565674.25    4152234.00        0.00001
         565674.25    4152244.00        0.00001
565674.25    4152254.00        0.00001
         565674.25    4152264.00        0.00001
565674.25    4152274.00        0.00001
         565674.25    4152284.00        0.00000
565684.25    4152094.00        0.00002
         565684.25    4152104.00        0.00002
565684.25    4152114.00        0.00002
         565684.25    4152124.00        0.00002
565684.25    4152134.00        0.00002
         565684.25    4152144.00        0.00001
565684.25    4152154.00        0.00001
         565684.25    4152164.00        0.00001
565684.25    4152174.00        0.00001
         565684.25    4152184.00        0.00001
565684.25    4152194.00        0.00001
         565684.25    4152204.00        0.00001
565684.25    4152214.00        0.00001
         565684.25    4152224.00        0.00001
565684.25    4152234.00        0.00001
         565684.25    4152244.00        0.00001
565684.25    4152254.00        0.00001
         565684.25    4152264.00        0.00001
565684.25    4152274.00        0.00000
         565684.25    4152284.00        0.00000
565694.25    4152094.00        0.00002
         565694.25    4152104.00        0.00002
565694.25    4152114.00        0.00002
         565694.25    4152124.00        0.00002
565694.25    4152134.00        0.00001
         565694.25    4152144.00        0.00001
565694.25    4152154.00        0.00001
         565694.25    4152164.00        0.00001
565694.25    4152174.00        0.00001
         565694.25    4152184.00        0.00001
565694.25    4152194.00        0.00001
         565694.25    4152204.00        0.00001
565694.25    4152214.00        0.00001
         565694.25    4152224.00        0.00001
565694.25    4152234.00        0.00001
         565694.25    4152244.00        0.00001
565694.25    4152254.00        0.00001
         565694.25    4152264.00        0.00001
565694.25    4152274.00        0.00000
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565694.25	4152284.00	0.00000	565704.25	4152094.00	0.00002
565704.25	4152104.00	0.00002	565704.25	4152114.00	0.00002
565704.25	4152124.00	0.00002	565704.25	4152134.00	0.00001
565704.25	4152144.00	0.00001	565704.25	4152154.00	0.00001
565704.25	4152164.00	0.00001	565704.25	4152174.00	0.00001
565704.25	4152184.00	0.00001	565704.25	4152194.00	0.00001
565704.25	4152204.00	0.00001	565704.25	4152214.00	0.00001
565704.25	4152224.00	0.00001	565704.25	4152234.00	0.00001
565704.25	4152244.00	0.00001	565704.25	4152254.00	0.00001
565704.25	4152264.00	0.00001	565704.25	4152274.00	0.00000
565704.25	4152284.00	0.00000	565714.25	4152094.00	0.00002
565714.25	4152104.00	0.00002	565714.25	4152114.00	0.00002
565714.25	4152124.00	0.00001	565714.25	4152134.00	0.00001
565714.25	4152144.00	0.00001	565714.25	4152154.00	0.00001

```
         565714.25    4152164.00        0.00001
565714.25    4152174.00        0.00001
         565714.25    4152184.00        0.00001
565714.25    4152194.00        0.00001
         565714.25    4152204.00        0.00001
565714.25    4152214.00        0.00001
         565714.25    4152224.00        0.00001
565714.25    4152234.00        0.00001
         565714.25    4152244.00        0.00001
565714.25    4152254.00        0.00001
         565714.25    4152264.00        0.00000
565714.25    4152274.00        0.00000
         565714.25    4152284.00        0.00000
565724.25    4152094.00        0.00002
         565724.25    4152104.00        0.00002
565724.25    4152114.00        0.00002
         565724.25    4152124.00        0.00001
565724.25    4152134.00        0.00001
         565724.25    4152144.00        0.00001
565724.25    4152154.00        0.00001
         565724.25    4152164.00        0.00001
565724.25    4152174.00        0.00001
         565724.25    4152184.00        0.00001
565724.25    4152194.00        0.00001
         565724.25    4152204.00        0.00001
565724.25    4152214.00        0.00001
         565724.25    4152224.00        0.00001
565724.25    4152234.00        0.00001
         565724.25    4152244.00        0.00001
565724.25    4152254.00        0.00001
         565724.25    4152264.00        0.00000
565724.25    4152274.00        0.00000
         565724.25    4152284.00        0.00000
565734.25    4152094.00        0.00002
         565734.25    4152104.00        0.00002
565734.25    4152114.00        0.00001
         565734.25    4152124.00        0.00001
565734.25    4152134.00        0.00001
         565734.25    4152144.00        0.00001
565734.25    4152154.00        0.00001
         565734.25    4152164.00        0.00001
565734.25    4152174.00        0.00001
         565734.25    4152184.00        0.00001
565734.25    4152194.00        0.00001
         565734.25    4152204.00        0.00001
565734.25    4152214.00        0.00001
         565734.25    4152224.00        0.00001
565734.25    4152234.00        0.00001
         565734.25    4152244.00        0.00001
565734.25    4152254.00        0.00000
         565734.25    4152264.00        0.00000
565734.25    4152274.00        0.00000
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565734.25	4152284.00	0.00000	565744.25	4152094.00	0.00002
565744.25	4152104.00	0.00002	565744.25	4152114.00	0.00001
565744.25	4152124.00	0.00001	565744.25	4152134.00	0.00001
565744.25	4152144.00	0.00001	565744.25	4152154.00	0.00001
565744.25	4152164.00	0.00001	565744.25	4152174.00	0.00001
565744.25	4152184.00	0.00001	565744.25	4152194.00	0.00001
565744.25	4152204.00	0.00001	565744.25	4152214.00	0.00001
565744.25	4152224.00	0.00001	565744.25	4152234.00	0.00001
565744.25	4152244.00	0.00001	565744.25	4152254.00	0.00000
565744.25	4152264.00	0.00000	565744.25	4152274.00	0.00000
565744.25	4152284.00	0.00000	565754.25	4152094.00	0.00002
565754.25	4152104.00	0.00002	565754.25	4152114.00	0.00001
565754.25	4152124.00	0.00001	565754.25	4152134.00	0.00001
565754.25	4152144.00	0.00001	565754.25	4152154.00	0.00001

```
         565754.25    4152164.00        0.00001
565754.25    4152174.00        0.00001
         565754.25    4152184.00        0.00001
565754.25    4152194.00        0.00001
         565754.25    4152204.00        0.00001
565754.25    4152214.00        0.00001
         565754.25    4152224.00        0.00001
565754.25    4152234.00        0.00001
         565754.25    4152244.00        0.00000
565754.25    4152254.00        0.00000
         565754.25    4152264.00        0.00000
565754.25    4152274.00        0.00000
         565754.25    4152284.00        0.00000
565764.25    4152094.00        0.00002
         565764.25    4152104.00        0.00002
565764.25    4152114.00        0.00001
         565764.25    4152124.00        0.00001
565764.25    4152134.00        0.00001
         565764.25    4152144.00        0.00001
565764.25    4152154.00        0.00001
         565764.25    4152164.00        0.00001
565764.25    4152174.00        0.00001
         565764.25    4152184.00        0.00001
565764.25    4152194.00        0.00001
         565764.25    4152204.00        0.00001
565764.25    4152214.00        0.00001
         565764.25    4152224.00        0.00001
565764.25    4152234.00        0.00000
         565764.25    4152244.00        0.00000
565764.25    4152254.00        0.00000
         565764.25    4152264.00        0.00000
565764.25    4152274.00        0.00000
         565764.25    4152284.00        0.00000
565574.25    4151994.00        0.00017
         565574.25    4151984.00        0.00019
565574.25    4151974.00        0.00022
         565574.25    4151964.00        0.00023
565574.25    4151954.00        0.00023
         565574.25    4151944.00        0.00022
565574.25    4151934.00        0.00022
         565574.25    4151924.00        0.00024
565574.25    4151914.00        0.00026
         565574.25    4151904.00        0.00026
565574.25    4151894.00        0.00022
         565574.25    4151884.00        0.00019
565574.25    4151874.00        0.00015
         565574.25    4151864.00        0.00013
565574.25    4151854.00        0.00011
         565574.25    4151844.00        0.00009
565574.25    4151834.00        0.00008
         565574.25    4151824.00        0.00007
565574.25    4151814.00        0.00006
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565574.25	4151804.00	0.00006	565574.25	4151794.00	0.00005
565574.25	4151784.00	0.00004	565584.25	4151984.00	0.00018
565584.25	4151974.00	0.00021	565584.25	4151964.00	0.00023
565584.25	4151954.00	0.00024	565584.25	4151944.00	0.00024
565584.25	4151934.00	0.00024	565584.25	4151924.00	0.00025
565584.25	4151914.00	0.00027	565584.25	4151904.00	0.00027
565584.25	4151894.00	0.00024	565584.25	4151884.00	0.00020
565584.25	4151874.00	0.00016	565584.25	4151864.00	0.00013
565584.25	4151854.00	0.00011	565584.25	4151844.00	0.00009
565584.25	4151834.00	0.00008	565584.25	4151824.00	0.00007
565584.25	4151814.00	0.00006	565584.25	4151804.00	0.00006
565584.25	4151794.00	0.00005	565584.25	4151784.00	0.00005
565594.25	4151984.00	0.00017	565594.25	4151974.00	0.00020
565594.25	4151964.00	0.00022	565594.25	4151954.00	0.00024

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         565594.25    4151944.00         0.00026
565594.25    4151934.00         0.00028
         565594.25    4151924.00         0.00029
565594.25    4151914.00         0.00029
         565594.25    4151904.00         0.00028
565594.25    4151894.00         0.00024
         565594.25    4151884.00         0.00020
565594.25    4151874.00         0.00016
         565594.25    4151864.00         0.00013
565594.25    4151854.00         0.00011
         565594.25    4151844.00         0.00010
565594.25    4151834.00         0.00008
         565594.25    4151824.00         0.00007
565594.25    4151814.00         0.00006
         565594.25    4151804.00         0.00006
565594.25    4151794.00         0.00005
         565594.25    4151784.00         0.00005
565604.25    4152084.00         0.00004
         565604.25    4151994.00         0.00015
565604.25    4151984.00         0.00017
         565604.25    4151974.00         0.00019
565604.25    4151964.00         0.00021
         565604.25    4151954.00         0.00024
565604.25    4151944.00         0.00028
         565604.25    4151934.00         0.00031
565604.25    4151924.00         0.00032
         565604.25    4151914.00         0.00031
565604.25    4151904.00         0.00028
         565604.25    4151894.00         0.00024
565604.25    4151884.00         0.00019
         565604.25    4151874.00         0.00016
565604.25    4151864.00         0.00013
         565604.25    4151854.00         0.00011
565604.25    4151844.00         0.00010
         565604.25    4151834.00         0.00008
565604.25    4151824.00         0.00007
         565604.25    4151814.00         0.00006
565604.25    4151804.00         0.00006
         565604.25    4151794.00         0.00005
565604.25    4151784.00         0.00005
         565614.25    4152084.00         0.00004
565614.25    4152074.00         0.00005
         565614.25    4152064.00         0.00006
565614.25    4152004.00         0.00013
         565614.25    4151994.00         0.00014
565614.25    4151984.00         0.00016
         565614.25    4151974.00         0.00019
565614.25    4151964.00         0.00022
         565614.25    4151954.00         0.00026
565614.25    4151944.00         0.00030
         565614.25    4151934.00         0.00033
565614.25    4151924.00         0.00033
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565614.25	4151914.00	0.00031	565614.25	4151904.00	0.00027
565614.25	4151894.00	0.00022	565614.25	4151884.00	0.00018
565614.25	4151874.00	0.00015	565614.25	4151864.00	0.00013
565614.25	4151854.00	0.00011	565614.25	4151844.00	0.00009
565614.25	4151834.00	0.00008	565614.25	4151824.00	0.00007
565614.25	4151814.00	0.00006	565614.25	4151804.00	0.00006
565614.25	4151794.00	0.00005	565614.25	4151784.00	0.00005
565624.25	4152084.00	0.00004	565624.25	4152074.00	0.00005
565624.25	4152064.00	0.00006	565624.25	4152054.00	0.00007
565624.25	4152044.00	0.00008	565624.25	4152034.00	0.00009
565624.25	4152024.00	0.00010	565624.25	4152014.00	0.00011
565624.25	4152004.00	0.00013	565624.25	4151994.00	0.00015
565624.25	4151984.00	0.00017	565624.25	4151974.00	0.00020
565624.25	4151964.00	0.00024	565624.25	4151954.00	0.00028

565624.25 4151944.00 0.00031
565624.25 4151934.00 0.00033
565624.25 4151924.00 0.00032
565624.25 4151914.00 0.00029
565624.25 4151904.00 0.00025
565624.25 4151894.00 0.00021
565624.25 4151884.00 0.00017
565624.25 4151874.00 0.00015
565624.25 4151864.00 0.00012
565624.25 4151854.00 0.00011
565624.25 4151844.00 0.00009
565624.25 4151834.00 0.00008
565624.25 4151824.00 0.00007
565624.25 4151814.00 0.00006
565624.25 4151804.00 0.00006
565624.25 4151794.00 0.00005
565624.25 4151784.00 0.00004
565634.25 4152084.00 0.00004
565634.25 4152074.00 0.00005
565634.25 4152064.00 0.00006
565634.25 4152054.00 0.00007
565634.25 4152044.00 0.00008
565634.25 4152034.00 0.00008
565634.25 4152024.00 0.00010
565634.25 4152014.00 0.00011
565634.25 4152004.00 0.00013
565634.25 4151994.00 0.00016
565634.25 4151984.00 0.00019
565634.25 4151974.00 0.00023
565634.25 4151964.00 0.00027
565634.25 4151954.00 0.00030
565634.25 4151944.00 0.00032
565634.25 4151934.00 0.00031
565634.25 4151924.00 0.00029
565634.25 4151914.00 0.00026
565634.25 4151904.00 0.00022
565634.25 4151894.00 0.00019
565634.25 4151884.00 0.00016
565634.25 4151874.00 0.00014
565634.25 4151864.00 0.00012
565634.25 4151854.00 0.00010
565634.25 4151844.00 0.00009
565634.25 4151834.00 0.00008
565634.25 4151824.00 0.00007
565634.25 4151814.00 0.00006
565634.25 4151804.00 0.00005
565634.25 4151794.00 0.00005
565634.25 4151784.00 0.00004
565644.25 4152084.00 0.00004
565644.25 4152074.00 0.00005
565644.25 4152064.00 0.00006
565644.25 4152054.00 0.00006

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565644.25	4152044.00	0.00007	565644.25	4152034.00	0.00008
565644.25	4152024.00	0.00009	565644.25	4152014.00	0.00011
565644.25	4152004.00	0.00014	565644.25	4151994.00	0.00018
565644.25	4151984.00	0.00022	565644.25	4151974.00	0.00026
565644.25	4151964.00	0.00029	565644.25	4151954.00	0.00030
565644.25	4151944.00	0.00030	565644.25	4151934.00	0.00028
565644.25	4151924.00	0.00026	565644.25	4151914.00	0.00023
565644.25	4151904.00	0.00020	565644.25	4151894.00	0.00017
565644.25	4151884.00	0.00015	565644.25	4151874.00	0.00013
565644.25	4151864.00	0.00011	565644.25	4151854.00	0.00010
565644.25	4151844.00	0.00009	565644.25	4151834.00	0.00007
565644.25	4151824.00	0.00007	565644.25	4151814.00	0.00006
565644.25	4151804.00	0.00005	565644.25	4151794.00	0.00005
565644.25	4151784.00	0.00004	565654.25	4152084.00	0.00004

565654.25 4152074.00 0.00004
565654.25 4152064.00 0.00005
565654.25 4152054.00 0.00006
565654.25 4152044.00 0.00006
565654.25 4152034.00 0.00007
565654.25 4152024.00 0.00009
565654.25 4152014.00 0.00012
565654.25 4152004.00 0.00016
565654.25 4151994.00 0.00021
565654.25 4151984.00 0.00024
565654.25 4151974.00 0.00027
565654.25 4151964.00 0.00028
565654.25 4151954.00 0.00028
565654.25 4151944.00 0.00026
565654.25 4151934.00 0.00025
565654.25 4151924.00 0.00023
565654.25 4151914.00 0.00020
565654.25 4151904.00 0.00018
565654.25 4151894.00 0.00016
565654.25 4151884.00 0.00014
565654.25 4151874.00 0.00012
565654.25 4151864.00 0.00011
565654.25 4151854.00 0.00009
565654.25 4151844.00 0.00008
565654.25 4151834.00 0.00007
565654.25 4151824.00 0.00006
565654.25 4151814.00 0.00006
565654.25 4151804.00 0.00005
565654.25 4151794.00 0.00005
565654.25 4151784.00 0.00004
565664.25 4152084.00 0.00003
565664.25 4152074.00 0.00004
565664.25 4152064.00 0.00005
565664.25 4152054.00 0.00006
565664.25 4152044.00 0.00006
565664.25 4152034.00 0.00007
565664.25 4152024.00 0.00010
565664.25 4152014.00 0.00014
565664.25 4152004.00 0.00018
565664.25 4151994.00 0.00022
565664.25 4151984.00 0.00025
565664.25 4151974.00 0.00025
565664.25 4151964.00 0.00025
565664.25 4151954.00 0.00025
565664.25 4151944.00 0.00023
565664.25 4151934.00 0.00022
565664.25 4151924.00 0.00020
565664.25 4151914.00 0.00018
565664.25 4151904.00 0.00016
565664.25 4151894.00 0.00014
565664.25 4151884.00 0.00013
565664.25 4151874.00 0.00011

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565664.25	4151864.00	0.00010	565664.25	4151854.00	0.00009
565664.25	4151844.00	0.00008	565664.25	4151834.00	0.00007
565664.25	4151824.00	0.00006	565664.25	4151814.00	0.00006
565664.25	4151804.00	0.00005	565664.25	4151794.00	0.00005
565664.25	4151784.00	0.00004	565674.25	4152084.00	0.00003
565674.25	4152074.00	0.00004	565674.25	4152064.00	0.00004
565674.25	4152054.00	0.00005	565674.25	4152044.00	0.00007
565674.25	4152034.00	0.00009	565674.25	4152024.00	0.00012
565674.25	4152014.00	0.00015	565674.25	4152004.00	0.00019
565674.25	4151994.00	0.00022	565674.25	4151984.00	0.00023
565674.25	4151974.00	0.00022	565674.25	4151964.00	0.00022
565674.25	4151954.00	0.00021	565674.25	4151944.00	0.00020
565674.25	4151934.00	0.00019	565674.25	4151924.00	0.00017
565674.25	4151914.00	0.00016	565674.25	4151904.00	0.00014

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         565674.25    4151894.00        0.00013
565674.25    4151884.00        0.00012
         565674.25    4151874.00        0.00010
565674.25    4151864.00        0.00009
         565674.25    4151854.00        0.00008
565674.25    4151844.00        0.00007
         565674.25    4151834.00        0.00007
565674.25    4151824.00        0.00006
         565674.25    4151814.00        0.00005
565674.25    4151804.00        0.00005
         565674.25    4151794.00        0.00004
565674.25    4151784.00        0.00004
         565684.25    4152084.00        0.00003
565684.25    4152074.00        0.00003
         565684.25    4152064.00        0.00004
565684.25    4152054.00        0.00005
         565684.25    4152044.00        0.00007
565684.25    4152034.00        0.00010
         565684.25    4152024.00        0.00013
565684.25    4152014.00        0.00016
         565684.25    4152004.00        0.00018
565684.25    4151994.00        0.00020
         565684.25    4151984.00        0.00020
565684.25    4151974.00        0.00019
         565684.25    4151964.00        0.00019
565684.25    4151954.00        0.00018
         565684.25    4151944.00        0.00018
565684.25    4151934.00        0.00017
         565684.25    4151924.00        0.00015
565684.25    4151914.00        0.00014
         565684.25    4151904.00        0.00013
565684.25    4151894.00        0.00012
         565684.25    4151884.00        0.00011
565684.25    4151874.00        0.00010
         565684.25    4151864.00        0.00009
565684.25    4151854.00        0.00008
         565684.25    4151844.00        0.00007
565684.25    4151834.00        0.00006
         565684.25    4151824.00        0.00006
565684.25    4151814.00        0.00005
         565684.25    4151804.00        0.00005
565684.25    4151794.00        0.00004
         565684.25    4151784.00        0.00004
565694.25    4152084.00        0.00003
         565694.25    4152074.00        0.00003
565694.25    4152064.00        0.00004
         565694.25    4152054.00        0.00005
565694.25    4152044.00        0.00007
         565694.25    4152034.00        0.00010
565694.25    4152024.00        0.00012
         565694.25    4152014.00        0.00015
565694.25    4152004.00        0.00016
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565694.25	4151994.00	0.00017	565694.25	4151984.00	0.00017
565694.25	4151974.00	0.00016	565694.25	4151964.00	0.00016
565694.25	4151954.00	0.00016	565694.25	4151944.00	0.00015
565694.25	4151934.00	0.00015	565694.25	4151924.00	0.00014
565694.25	4151914.00	0.00013	565694.25	4151904.00	0.00012
565694.25	4151894.00	0.00011	565694.25	4151884.00	0.00010
565694.25	4151874.00	0.00009	565694.25	4151864.00	0.00008
565694.25	4151854.00	0.00007	565694.25	4151844.00	0.00007
565694.25	4151834.00	0.00006	565694.25	4151824.00	0.00006
565694.25	4151814.00	0.00005	565694.25	4151804.00	0.00005
565694.25	4151794.00	0.00004	565694.25	4151784.00	0.00004
565704.25	4152084.00	0.00002	565704.25	4152074.00	0.00003
565704.25	4152064.00	0.00004	565704.25	4152054.00	0.00005
565704.25	4152044.00	0.00007	565704.25	4152034.00	0.00009

565704.25 4152024.00 0.00011
565704.25 4152014.00 0.00013
565704.25 4152004.00 0.00014
565704.25 4151994.00 0.00015
565704.25 4151984.00 0.00015
565704.25 4151974.00 0.00014
565704.25 4151964.00 0.00014
565704.25 4151954.00 0.00014
565704.25 4151944.00 0.00013
565704.25 4151934.00 0.00013
565704.25 4151924.00 0.00012
565704.25 4151914.00 0.00011
565704.25 4151904.00 0.00011
565704.25 4151894.00 0.00010
565704.25 4151884.00 0.00009
565704.25 4151874.00 0.00008
565704.25 4151864.00 0.00008
565704.25 4151854.00 0.00007
565704.25 4151844.00 0.00006
565704.25 4151834.00 0.00006
565704.25 4151824.00 0.00005
565704.25 4151814.00 0.00005
565704.25 4151804.00 0.00004
565704.25 4151794.00 0.00004
565704.25 4151784.00 0.00004
565714.25 4152084.00 0.00002
565714.25 4152074.00 0.00003
565714.25 4152064.00 0.00004
565714.25 4152054.00 0.00005
565714.25 4152044.00 0.00006
565714.25 4152034.00 0.00008
565714.25 4152024.00 0.00010
565714.25 4152014.00 0.00011
565714.25 4152004.00 0.00012
565714.25 4151994.00 0.00013
565714.25 4151984.00 0.00013
565714.25 4151974.00 0.00012
565714.25 4151964.00 0.00012
565714.25 4151954.00 0.00012
565714.25 4151944.00 0.00012
565714.25 4151934.00 0.00011
565714.25 4151924.00 0.00011
565714.25 4151914.00 0.00010
565714.25 4151904.00 0.00010
565714.25 4151894.00 0.00009
565714.25 4151884.00 0.00008
565714.25 4151874.00 0.00008
565714.25 4151864.00 0.00007
565714.25 4151854.00 0.00007
565714.25 4151844.00 0.00006
565714.25 4151834.00 0.00006
565714.25 4151824.00 0.00005

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565714.25	4151814.00	0.00005	565714.25	4151804.00	0.00004
565714.25	4151794.00	0.00004	565714.25	4151784.00	0.00004
565724.25	4152084.00	0.00002	565724.25	4152074.00	0.00003
565724.25	4152064.00	0.00004	565724.25	4152054.00	0.00004
565724.25	4152044.00	0.00006	565724.25	4152034.00	0.00007
565724.25	4152024.00	0.00008	565724.25	4152014.00	0.00009
565724.25	4152004.00	0.00010	565724.25	4151994.00	0.00011
565724.25	4151984.00	0.00011	565724.25	4151974.00	0.00011
565724.25	4151964.00	0.00011	565724.25	4151954.00	0.00011
565724.25	4151944.00	0.00011	565724.25	4151934.00	0.00010
565724.25	4151924.00	0.00010	565724.25	4151914.00	0.00009
565724.25	4151904.00	0.00009	565724.25	4151894.00	0.00008
565724.25	4151884.00	0.00008	565724.25	4151874.00	0.00007
565724.25	4151864.00	0.00007	565724.25	4151854.00	0.00006

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         565724.25    4151844.00        0.00006
565724.25    4151834.00        0.00005
         565724.25    4151824.00        0.00005
565724.25    4151814.00        0.00005
         565724.25    4151804.00        0.00004
565724.25    4151794.00        0.00004
         565724.25    4151784.00        0.00004
565734.25    4152084.00        0.00002
         565734.25    4152074.00        0.00003
565734.25    4152064.00        0.00003
         565734.25    4152054.00        0.00004
565734.25    4152044.00        0.00005
         565734.25    4152034.00        0.00006
565734.25    4152024.00        0.00007
         565734.25    4152014.00        0.00008
565734.25    4152004.00        0.00009
         565734.25    4151994.00        0.00009
565734.25    4151984.00        0.00009
         565734.25    4151974.00        0.00010
565734.25    4151964.00        0.00010
         565734.25    4151954.00        0.00010
565734.25    4151944.00        0.00009
         565734.25    4151934.00        0.00009
565734.25    4151924.00        0.00009
         565734.25    4151914.00        0.00008
565734.25    4151904.00        0.00008
         565734.25    4151894.00        0.00007
565734.25    4151884.00        0.00007
         565734.25    4151874.00        0.00007
565734.25    4151864.00        0.00006
         565734.25    4151854.00        0.00006
565734.25    4151844.00        0.00005
         565734.25    4151834.00        0.00005
565734.25    4151824.00        0.00005
         565734.25    4151814.00        0.00004
565734.25    4151804.00        0.00004
         565734.25    4151794.00        0.00004
565734.25    4151784.00        0.00003
         565744.25    4152084.00        0.00002
565744.25    4152074.00        0.00003
         565744.25    4152064.00        0.00003
565744.25    4152054.00        0.00004
         565744.25    4152044.00        0.00005
565744.25    4152034.00        0.00005
         565744.25    4152024.00        0.00006
565744.25    4152014.00        0.00007
         565744.25    4152004.00        0.00008
565744.25    4151994.00        0.00008
         565744.25    4151984.00        0.00008
565744.25    4151974.00        0.00008
         565744.25    4151964.00        0.00009
565744.25    4151954.00        0.00009
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565744.25	4151944.00	0.00008	565744.25	4151934.00	0.00008
565744.25	4151924.00	0.00008	565744.25	4151914.00	0.00008
565744.25	4151904.00	0.00007	565744.25	4151894.00	0.00007
565744.25	4151884.00	0.00007	565744.25	4151874.00	0.00006
565744.25	4151864.00	0.00006	565744.25	4151854.00	0.00005
565744.25	4151844.00	0.00005	565744.25	4151834.00	0.00005
565744.25	4151824.00	0.00004	565744.25	4151814.00	0.00004
565744.25	4151804.00	0.00004	565744.25	4151794.00	0.00004
565744.25	4151784.00	0.00003	565754.25	4152084.00	0.00002
565754.25	4152074.00	0.00003	565754.25	4152064.00	0.00003
565754.25	4152054.00	0.00004	565754.25	4152044.00	0.00004
565754.25	4152034.00	0.00005	565754.25	4152024.00	0.00006
565754.25	4152014.00	0.00006	565754.25	4152004.00	0.00007
565754.25	4151994.00	0.00007	565754.25	4151984.00	0.00007

565754.25 4151974.00 0.00008
565754.25 4151964.00 0.00008
565754.25 4151954.00 0.00008
565754.25 4151944.00 0.00008
565754.25 4151934.00 0.00007
565754.25 4151924.00 0.00007
565754.25 4151914.00 0.00007
565754.25 4151904.00 0.00007
565754.25 4151894.00 0.00006
565754.25 4151884.00 0.00006
565754.25 4151874.00 0.00006
565754.25 4151864.00 0.00005
565754.25 4151854.00 0.00005
565754.25 4151844.00 0.00005
565754.25 4151834.00 0.00005
565754.25 4151824.00 0.00004
565754.25 4151814.00 0.00004
565754.25 4151804.00 0.00004
565754.25 4151794.00 0.00003
565754.25 4151784.00 0.00003
565764.25 4152084.00 0.00002
565764.25 4152074.00 0.00002
565764.25 4152064.00 0.00003
565764.25 4152054.00 0.00003
565764.25 4152044.00 0.00004
565764.25 4152034.00 0.00004
565764.25 4152024.00 0.00005
565764.25 4152014.00 0.00006
565764.25 4152004.00 0.00006
565764.25 4151994.00 0.00006
565764.25 4151984.00 0.00007
565764.25 4151974.00 0.00007
565764.25 4151964.00 0.00007
565764.25 4151954.00 0.00007
565764.25 4151944.00 0.00007
565764.25 4151934.00 0.00007
565764.25 4151924.00 0.00007
565764.25 4151914.00 0.00006
565764.25 4151904.00 0.00006
565764.25 4151894.00 0.00006
565764.25 4151884.00 0.00006
565764.25 4151874.00 0.00005
565764.25 4151864.00 0.00005
565764.25 4151854.00 0.00005
565764.25 4151844.00 0.00005
565764.25 4151834.00 0.00004
565764.25 4151824.00 0.00004
565764.25 4151814.00 0.00004
565764.25 4151804.00 0.00004
565764.25 4151794.00 0.00003
565764.25 4151784.00 0.00003
565564.25 4151974.00 0.00022

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565564.25	4151964.00	0.00023	565564.25	4151954.00	0.00022
565564.25	4151944.00	0.00021	565564.25	4151934.00	0.00022
565564.25	4151924.00	0.00024	565564.25	4151914.00	0.00025
565564.25	4151904.00	0.00023	565564.25	4151894.00	0.00020
565564.25	4151884.00	0.00017	565564.25	4151874.00	0.00014
565564.25	4151864.00	0.00012	565564.25	4151854.00	0.00010
565564.25	4151844.00	0.00009	565564.25	4151834.00	0.00008
565564.25	4151824.00	0.00007	565564.25	4151814.00	0.00006
565564.25	4151804.00	0.00005	565564.25	4151794.00	0.00005
565564.25	4151784.00	0.00004	565554.25	4151974.00	0.00022
565554.25	4151964.00	0.00021	565554.25	4151954.00	0.00020
565554.25	4151944.00	0.00021	565554.25	4151934.00	0.00023
565554.25	4151924.00	0.00024	565554.25	4151914.00	0.00023
565554.25	4151904.00	0.00020	565554.25	4151894.00	0.00017

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         565554.25    4151884.00        0.00015
565554.25    4151874.00        0.00013
         565554.25    4151864.00        0.00011
565554.25    4151854.00        0.00009
         565554.25    4151844.00        0.00008
565554.25    4151834.00        0.00007
         565554.25    4151824.00        0.00006
565554.25    4151814.00        0.00006
         565554.25    4151804.00        0.00005
565554.25    4151794.00        0.00005
         565554.25    4151784.00        0.00004
565544.25    4151974.00        0.00021
         565544.25    4151964.00        0.00020
565544.25    4151954.00        0.00020
         565544.25    4151944.00        0.00022
565544.25    4151934.00        0.00024
         565544.25    4151924.00        0.00023
565544.25    4151914.00        0.00020
         565544.25    4151904.00        0.00018
565544.25    4151894.00        0.00015
         565544.25    4151884.00        0.00013
565544.25    4151874.00        0.00011
         565544.25    4151864.00        0.00010
565544.25    4151854.00        0.00009
         565544.25    4151844.00        0.00008
565544.25    4151834.00        0.00007
         565544.25    4151824.00        0.00006
565544.25    4151814.00        0.00005
         565544.25    4151804.00        0.00005
565544.25    4151794.00        0.00004
         565544.25    4151784.00        0.00004
565534.25    4151974.00        0.00020
         565534.25    4151964.00        0.00020
565534.25    4151954.00        0.00022
         565534.25    4151944.00        0.00023
565534.25    4151934.00        0.00022
         565534.25    4151924.00        0.00020
565534.25    4151914.00        0.00017
         565534.25    4151904.00        0.00015
565534.25    4151894.00        0.00013
         565534.25    4151884.00        0.00011
565534.25    4151874.00        0.00010
         565534.25    4151864.00        0.00009
565534.25    4151854.00        0.00008
         565534.25    4151844.00        0.00007
565534.25    4151834.00        0.00006
         565534.25    4151824.00        0.00006
565534.25    4151814.00        0.00005
         565534.25    4151804.00        0.00005
565534.25    4151794.00        0.00004
         565534.25    4151784.00        0.00004
565524.25    4151974.00        0.00020
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565524.25	4151964.00	0.00021	565524.25	4151954.00	0.00023
565524.25	4151944.00	0.00022	565524.25	4151934.00	0.00020
565524.25	4151924.00	0.00017	565524.25	4151914.00	0.00015
565524.25	4151904.00	0.00013	565524.25	4151894.00	0.00011
565524.25	4151884.00	0.00010	565524.25	4151874.00	0.00009
565524.25	4151864.00	0.00008	565524.25	4151854.00	0.00007
565524.25	4151844.00	0.00006	565524.25	4151834.00	0.00006
565524.25	4151824.00	0.00005	565524.25	4151814.00	0.00005
565524.25	4151804.00	0.00004	565524.25	4151794.00	0.00004
565524.25	4151784.00	0.00004	565514.25	4151974.00	0.00021
565514.25	4151964.00	0.00022	565514.25	4151954.00	0.00022
565514.25	4151944.00	0.00020	565514.25	4151934.00	0.00017
565514.25	4151924.00	0.00015	565514.25	4151914.00	0.00013
565514.25	4151904.00	0.00011	565514.25	4151894.00	0.00010

565514.25 4151884.00 0.00009
565514.25 4151874.00 0.00008
565514.25 4151864.00 0.00007
565514.25 4151854.00 0.00006
565514.25 4151844.00 0.00006
565514.25 4151834.00 0.00005
565514.25 4151824.00 0.00005
565514.25 4151814.00 0.00004
565514.25 4151804.00 0.00004
565514.25 4151794.00 0.00004
565514.25 4151784.00 0.00003
565504.25 4151974.00 0.00022
565504.25 4151964.00 0.00022
565504.25 4151954.00 0.00020
565504.25 4151944.00 0.00017
565504.25 4151934.00 0.00015
565504.25 4151924.00 0.00013
565504.25 4151914.00 0.00011
565504.25 4151904.00 0.00010
565504.25 4151894.00 0.00009
565504.25 4151884.00 0.00008
565504.25 4151874.00 0.00007
565504.25 4151864.00 0.00006
565504.25 4151854.00 0.00006
565504.25 4151844.00 0.00005
565504.25 4151834.00 0.00005
565504.25 4151824.00 0.00004
565504.25 4151814.00 0.00004
565504.25 4151804.00 0.00004
565504.25 4151794.00 0.00003
565504.25 4151784.00 0.00003
565494.25 4151974.00 0.00022
565494.25 4151964.00 0.00020
565494.25 4151954.00 0.00017
565494.25 4151944.00 0.00015
565494.25 4151934.00 0.00013
565494.25 4151924.00 0.00011
565494.25 4151914.00 0.00010
565494.25 4151904.00 0.00009
565494.25 4151894.00 0.00008
565494.25 4151884.00 0.00007
565494.25 4151874.00 0.00006
565494.25 4151864.00 0.00006
565494.25 4151854.00 0.00005
565494.25 4151844.00 0.00005
565494.25 4151834.00 0.00004
565494.25 4151824.00 0.00004
565494.25 4151814.00 0.00004
565494.25 4151804.00 0.00003
565494.25 4151794.00 0.00003
565494.25 4151784.00 0.00003
565484.25 4151974.00 0.00019

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565484.25	4151964.00	0.00017	565484.25	4151954.00	0.00015
565484.25	4151944.00	0.00013	565484.25	4151934.00	0.00011
565484.25	4151924.00	0.00009	565484.25	4151914.00	0.00008
565484.25	4151904.00	0.00007	565484.25	4151894.00	0.00007
565484.25	4151884.00	0.00006	565484.25	4151874.00	0.00006
565484.25	4151864.00	0.00005	565484.25	4151854.00	0.00005
565484.25	4151844.00	0.00004	565484.25	4151834.00	0.00004
565484.25	4151824.00	0.00004	565484.25	4151814.00	0.00003
565484.25	4151804.00	0.00003	565484.25	4151794.00	0.00003
565484.25	4151784.00	0.00003	565474.25	4151974.00	0.00016
565474.25	4151964.00	0.00014	565474.25	4151954.00	0.00012
565474.25	4151944.00	0.00010	565474.25	4151934.00	0.00009
565474.25	4151924.00	0.00008	565474.25	4151914.00	0.00007
565474.25	4151904.00	0.00006	565474.25	4151894.00	0.00006

565474.25 4151884.00 0.00005
565474.25 4151874.00 0.00005
565474.25 4151864.00 0.00004
565474.25 4151854.00 0.00004
565474.25 4151844.00 0.00004
565474.25 4151834.00 0.00004
565474.25 4151824.00 0.00003
565474.25 4151814.00 0.00003
565474.25 4151804.00 0.00003
565474.25 4151794.00 0.00003
565474.25 4151784.00 0.00003
565464.25 4151974.00 0.00013
565464.25 4151964.00 0.00011
565464.25 4151954.00 0.00010
565464.25 4151944.00 0.00009
565464.25 4151934.00 0.00008
565464.25 4151924.00 0.00007
565464.25 4151914.00 0.00006
565464.25 4151904.00 0.00006
565464.25 4151894.00 0.00005
565464.25 4151884.00 0.00005
565464.25 4151874.00 0.00004
565464.25 4151864.00 0.00004
565464.25 4151854.00 0.00004
565464.25 4151844.00 0.00003
565464.25 4151834.00 0.00003
565464.25 4151824.00 0.00003
565464.25 4151814.00 0.00003
565464.25 4151804.00 0.00003
565464.25 4151794.00 0.00002
565464.25 4151784.00 0.00002
565454.25 4151974.00 0.00010
565454.25 4151964.00 0.00009
565454.25 4151954.00 0.00008
565454.25 4151944.00 0.00007
565454.25 4151934.00 0.00006
565454.25 4151924.00 0.00006
565454.25 4151914.00 0.00005
565454.25 4151904.00 0.00005
565454.25 4151894.00 0.00004
565454.25 4151884.00 0.00004
565454.25 4151874.00 0.00004
565454.25 4151864.00 0.00004
565454.25 4151854.00 0.00003
565454.25 4151844.00 0.00003
565454.25 4151834.00 0.00003
565454.25 4151824.00 0.00003
565454.25 4151814.00 0.00003
565454.25 4151804.00 0.00002
565454.25 4151794.00 0.00002
565454.25 4151784.00 0.00002
565444.25 4151974.00 0.00007

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565444.25	4151964.00	0.00007	565444.25	4151954.00	0.00006
565444.25	4151944.00	0.00006	565444.25	4151934.00	0.00005
565444.25	4151924.00	0.00005	565444.25	4151914.00	0.00004
565444.25	4151904.00	0.00004	565444.25	4151894.00	0.00004
565444.25	4151884.00	0.00004	565444.25	4151874.00	0.00003
565444.25	4151864.00	0.00003	565444.25	4151854.00	0.00003
565444.25	4151844.00	0.00003	565444.25	4151834.00	0.00003
565444.25	4151824.00	0.00002	565444.25	4151814.00	0.00002
565444.25	4151804.00	0.00002	565444.25	4151794.00	0.00002
565444.25	4151784.00	0.00002	565434.25	4151974.00	0.00005
565434.25	4151964.00	0.00005	565434.25	4151954.00	0.00005
565434.25	4151944.00	0.00004	565434.25	4151934.00	0.00004
565434.25	4151924.00	0.00004	565434.25	4151914.00	0.00004
565434.25	4151904.00	0.00003	565434.25	4151894.00	0.00003

565434.25 4151884.00 0.00003
565434.25 4151874.00 0.00003
565434.25 4151864.00 0.00003
565434.25 4151854.00 0.00003
565434.25 4151844.00 0.00002
565434.25 4151834.00 0.00002
565434.25 4151824.00 0.00002
565434.25 4151814.00 0.00002
565434.25 4151804.00 0.00002
565434.25 4151794.00 0.00002
565434.25 4151784.00 0.00002
565424.25 4151974.00 0.00004
565424.25 4151964.00 0.00004
565424.25 4151954.00 0.00004
565424.25 4151944.00 0.00004
565424.25 4151934.00 0.00003
565424.25 4151924.00 0.00003
565424.25 4151914.00 0.00003
565424.25 4151904.00 0.00003
565424.25 4151894.00 0.00003
565424.25 4151884.00 0.00003
565424.25 4151874.00 0.00003
565424.25 4151864.00 0.00002
565424.25 4151854.00 0.00002
565424.25 4151844.00 0.00002
565424.25 4151834.00 0.00002
565424.25 4151824.00 0.00002
565424.25 4151814.00 0.00002
565424.25 4151804.00 0.00002
565424.25 4151794.00 0.00002
565424.25 4151784.00 0.00002
565414.25 4151974.00 0.00003
565414.25 4151964.00 0.00003
565414.25 4151954.00 0.00003
565414.25 4151944.00 0.00003
565414.25 4151934.00 0.00003
565414.25 4151924.00 0.00003
565414.25 4151914.00 0.00003
565414.25 4151904.00 0.00002
565414.25 4151894.00 0.00002
565414.25 4151884.00 0.00002
565414.25 4151874.00 0.00002
565414.25 4151864.00 0.00002
565414.25 4151854.00 0.00002
565414.25 4151844.00 0.00002
565414.25 4151834.00 0.00002
565414.25 4151824.00 0.00002
565414.25 4151814.00 0.00002
565414.25 4151804.00 0.00002
565414.25 4151794.00 0.00002
565414.25 4151784.00 0.00001
565404.25 4151974.00 0.00002

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565404.25	4151964.00	0.00002	565404.25	4151954.00	0.00002
565404.25	4151944.00	0.00002	565404.25	4151934.00	0.00002
565404.25	4151924.00	0.00002	565404.25	4151914.00	0.00002
565404.25	4151904.00	0.00002	565404.25	4151894.00	0.00002
565404.25	4151884.00	0.00002	565404.25	4151874.00	0.00002
565404.25	4151864.00	0.00002	565404.25	4151854.00	0.00002
565404.25	4151844.00	0.00002	565404.25	4151834.00	0.00002
565404.25	4151824.00	0.00002	565404.25	4151814.00	0.00002
565404.25	4151804.00	0.00001	565404.25	4151794.00	0.00001
565404.25	4151784.00	0.00001	565394.25	4151974.00	0.00002
565394.25	4151964.00	0.00002	565394.25	4151954.00	0.00002
565394.25	4151944.00	0.00002	565394.25	4151934.00	0.00002
565394.25	4151924.00	0.00002	565394.25	4151914.00	0.00002
565394.25	4151904.00	0.00002	565394.25	4151894.00	0.00002

565394.25 4151884.00 0.00002
565394.25 4151874.00 0.00002
565394.25 4151864.00 0.00002
565394.25 4151854.00 0.00002
565394.25 4151844.00 0.00001
565394.25 4151834.00 0.00001
565394.25 4151824.00 0.00001
565394.25 4151814.00 0.00001
565394.25 4151804.00 0.00001
565394.25 4151794.00 0.00001
565394.25 4151784.00 0.00001
565384.25 4151974.00 0.00001
565384.25 4151964.00 0.00001
565384.25 4151954.00 0.00002
565384.25 4151944.00 0.00002
565384.25 4151934.00 0.00002
565384.25 4151924.00 0.00002
565384.25 4151914.00 0.00002
565384.25 4151904.00 0.00001
565384.25 4151894.00 0.00001
565384.25 4151884.00 0.00001
565384.25 4151874.00 0.00001
565384.25 4151864.00 0.00001
565384.25 4151854.00 0.00001
565384.25 4151844.00 0.00001
565384.25 4151834.00 0.00001
565384.25 4151824.00 0.00001
565384.25 4151814.00 0.00001
565384.25 4151804.00 0.00001
565384.25 4151794.00 0.00001
565384.25 4151784.00 0.00001
565374.25 4151974.00 0.00001
565374.25 4151964.00 0.00001
565374.25 4151954.00 0.00001
565374.25 4151944.00 0.00001
565374.25 4151934.00 0.00001
565374.25 4151924.00 0.00001
565374.25 4151914.00 0.00001
565374.25 4151904.00 0.00001
565374.25 4151894.00 0.00001
565374.25 4151884.00 0.00001
565374.25 4151874.00 0.00001
565374.25 4151864.00 0.00001
565374.25 4151854.00 0.00001
565374.25 4151844.00 0.00001
565374.25 4151834.00 0.00001
565374.25 4151824.00 0.00001
565374.25 4151814.00 0.00001
565374.25 4151804.00 0.00001
565374.25 4151794.00 0.00001
565374.25 4151784.00 0.00001
565364.25 4151974.00 0.00001

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565364.25	4151964.00	0.00001	565364.25	4151954.00	0.00001
565364.25	4151944.00	0.00001	565364.25	4151934.00	0.00001
565364.25	4151924.00	0.00001	565364.25	4151914.00	0.00001
565364.25	4151904.00	0.00001	565364.25	4151894.00	0.00001
565364.25	4151884.00	0.00001	565364.25	4151874.00	0.00001
565364.25	4151864.00	0.00001	565364.25	4151854.00	0.00001
565364.25	4151844.00	0.00001	565364.25	4151834.00	0.00001
565364.25	4151824.00	0.00001	565364.25	4151814.00	0.00001
565364.25	4151804.00	0.00001	565364.25	4151794.00	0.00001
565364.25	4151784.00	0.00001	565354.25	4151974.00	0.00001
565354.25	4151964.00	0.00001	565354.25	4151954.00	0.00001
565354.25	4151944.00	0.00001	565354.25	4151934.00	0.00001
565354.25	4151924.00	0.00001	565354.25	4151914.00	0.00001
565354.25	4151904.00	0.00001	565354.25	4151894.00	0.00001

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         565354.25    4151884.00        0.00001
565354.25    4151874.00        0.00001
         565354.25    4151864.00        0.00001
565354.25    4151854.00        0.00001
         565354.25    4151844.00        0.00001
565354.25    4151834.00        0.00001
         565354.25    4151824.00        0.00001
565354.25    4151814.00        0.00001
         565354.25    4151804.00        0.00001
565354.25    4151794.00        0.00001
         565354.25    4151784.00        0.00001
565344.25    4151974.00        0.00001
         565344.25    4151964.00        0.00001
565344.25    4151954.00        0.00001
         565344.25    4151944.00        0.00001
565344.25    4151934.00        0.00001
         565344.25    4151924.00        0.00001
565344.25    4151914.00        0.00001
         565344.25    4151904.00        0.00001
565344.25    4151894.00        0.00001
         565344.25    4151884.00        0.00001
565344.25    4151874.00        0.00001
         565344.25    4151864.00        0.00001
565344.25    4151854.00        0.00001
         565344.25    4151844.00        0.00001
565344.25    4151834.00        0.00001
         565344.25    4151824.00        0.00001
565344.25    4151814.00        0.00001
         565344.25    4151804.00        0.00001
565344.25    4151794.00        0.00001
         565344.25    4151784.00        0.00001
565334.25    4151974.00        0.00001
         565334.25    4151964.00        0.00001
565334.25    4151954.00        0.00001
         565334.25    4151944.00        0.00001
565334.25    4151934.00        0.00001
         565334.25    4151924.00        0.00001
565334.25    4151914.00        0.00001
         565334.25    4151904.00        0.00001
565334.25    4151894.00        0.00001
         565334.25    4151884.00        0.00001
565334.25    4151874.00        0.00001
         565334.25    4151864.00        0.00001
565334.25    4151854.00        0.00001
         565334.25    4151844.00        0.00001
565334.25    4151834.00        0.00001
         565334.25    4151824.00        0.00001
565334.25    4151814.00        0.00001
         565334.25    4151804.00        0.00001
565334.25    4151794.00        0.00001
         565334.25    4151784.00        0.00001
565324.25    4151974.00        0.00001
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565324.25	4151964.00	0.00001	565324.25	4151954.00	0.00001
565324.25	4151944.00	0.00001	565324.25	4151934.00	0.00001
565324.25	4151924.00	0.00001	565324.25	4151914.00	0.00001
565324.25	4151904.00	0.00001	565324.25	4151894.00	0.00001
565324.25	4151884.00	0.00001	565324.25	4151874.00	0.00001
565324.25	4151864.00	0.00001	565324.25	4151854.00	0.00001
565324.25	4151844.00	0.00001	565324.25	4151834.00	0.00001
565324.25	4151824.00	0.00001	565324.25	4151814.00	0.00001
565324.25	4151804.00	0.00001	565324.25	4151794.00	0.00001
565324.25	4151784.00	0.00001	565314.25	4151974.00	0.00001
565314.25	4151964.00	0.00001	565314.25	4151954.00	0.00001
565314.25	4151944.00	0.00001	565314.25	4151934.00	0.00001
565314.25	4151924.00	0.00001	565314.25	4151914.00	0.00001
565314.25	4151904.00	0.00001	565314.25	4151894.00	0.00001

565314.25 4151884.00 0.00001
565314.25 4151874.00 0.00001
565314.25 4151864.00 0.00001
565314.25 4151854.00 0.00001
565314.25 4151844.00 0.00001
565314.25 4151834.00 0.00001
565314.25 4151824.00 0.00001
565314.25 4151814.00 0.00001
565314.25 4151804.00 0.00001
565314.25 4151794.00 0.00001
565314.25 4151784.00 0.00001
565304.25 4151974.00 0.00001
565304.25 4151964.00 0.00001
565304.25 4151954.00 0.00001
565304.25 4151944.00 0.00001
565304.25 4151934.00 0.00001
565304.25 4151924.00 0.00001
565304.25 4151914.00 0.00001
565304.25 4151904.00 0.00001
565304.25 4151894.00 0.00001
565304.25 4151884.00 0.00001
565304.25 4151874.00 0.00001
565304.25 4151864.00 0.00001
565304.25 4151854.00 0.00001
565304.25 4151844.00 0.00001
565304.25 4151834.00 0.00001
565304.25 4151824.00 0.00001
565304.25 4151814.00 0.00001
565304.25 4151804.00 0.00001
565304.25 4151794.00 0.00001
565304.25 4151784.00 0.00000
565294.25 4151974.00 0.00000
565294.25 4151964.00 0.00000
565294.25 4151954.00 0.00000
565294.25 4151944.00 0.00000
565294.25 4151934.00 0.00000
565294.25 4151924.00 0.00000
565294.25 4151914.00 0.00000
565294.25 4151904.00 0.00000
565294.25 4151894.00 0.00000
565294.25 4151884.00 0.00000
565294.25 4151874.00 0.00000
565294.25 4151864.00 0.00000
565294.25 4151854.00 0.00000
565294.25 4151844.00 0.00000
565294.25 4151834.00 0.00000
565294.25 4151824.00 0.00000
565294.25 4151814.00 0.00000
565294.25 4151804.00 0.00000
565294.25 4151794.00 0.00000
565294.25 4151784.00 0.00000
565284.25 4151974.00 0.00000

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565284.25	4151964.00	0.00000	565284.25	4151954.00	0.00000
565284.25	4151944.00	0.00000	565284.25	4151934.00	0.00000
565284.25	4151924.00	0.00000	565284.25	4151914.00	0.00000
565284.25	4151904.00	0.00000	565284.25	4151894.00	0.00000
565284.25	4151884.00	0.00000	565284.25	4151874.00	0.00000
565284.25	4151864.00	0.00000	565284.25	4151854.00	0.00000
565284.25	4151844.00	0.00000	565284.25	4151834.00	0.00000
565284.25	4151824.00	0.00000	565284.25	4151814.00	0.00000
565284.25	4151804.00	0.00000	565284.25	4151794.00	0.00000
565284.25	4151784.00	0.00000	565274.25	4151974.00	0.00000
565274.25	4151964.00	0.00000	565274.25	4151954.00	0.00000
565274.25	4151944.00	0.00000	565274.25	4151934.00	0.00000
565274.25	4151924.00	0.00000	565274.25	4151914.00	0.00000
565274.25	4151904.00	0.00000	565274.25	4151894.00	0.00000

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         565274.25    4151884.00        0.00000
565274.25    4151874.00        0.00000
         565274.25    4151864.00        0.00000
565274.25    4151854.00        0.00000
         565274.25    4151844.00        0.00000
565274.25    4151834.00        0.00000
         565274.25    4151824.00        0.00000
565274.25    4151814.00        0.00000
         565274.25    4151804.00        0.00000
565274.25    4151794.00        0.00000
         565274.25    4151784.00        0.00000
565264.25    4151974.00        0.00000
         565264.25    4151964.00        0.00000
565264.25    4151954.00        0.00000
         565264.25    4151944.00        0.00000
565264.25    4151934.00        0.00000
         565264.25    4151924.00        0.00000
565264.25    4151914.00        0.00000
         565264.25    4151904.00        0.00000
565264.25    4151894.00        0.00000
         565264.25    4151884.00        0.00000
565264.25    4151874.00        0.00000
         565264.25    4151864.00        0.00000
565264.25    4151854.00        0.00000
         565264.25    4151844.00        0.00000
565264.25    4151834.00        0.00000
         565264.25    4151824.00        0.00000
565264.25    4151814.00        0.00000
         565264.25    4151804.00        0.00000
565264.25    4151794.00        0.00000
         565264.25    4151784.00        0.00000
565454.25    4151984.00        0.00011
         565454.25    4151994.00        0.00011
565454.25    4152004.00        0.00011
         565454.25    4152014.00        0.00009
565454.25    4152024.00        0.00007
         565454.25    4152034.00        0.00006
565454.25    4152044.00        0.00006
         565454.25    4152054.00        0.00006
565454.25    4152064.00        0.00005
         565454.25    4152074.00        0.00005
565454.25    4152084.00        0.00004
         565454.25    4152094.00        0.00004
565454.25    4152104.00        0.00003
         565454.25    4152114.00        0.00003
565454.25    4152124.00        0.00002
         565454.25    4152134.00        0.00002
565454.25    4152144.00        0.00002
         565454.25    4152154.00        0.00002
565454.25    4152164.00        0.00002
         565454.25    4152174.00        0.00001
565454.25    4152184.00        0.00001
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565454.25	4152194.00	0.00001	565454.25	4152204.00	0.00001
565454.25	4152214.00	0.00001	565454.25	4152224.00	0.00001
565454.25	4152234.00	0.00001	565454.25	4152244.00	0.00001
565454.25	4152254.00	0.00001	565454.25	4152264.00	0.00001
565454.25	4152274.00	0.00001	565454.25	4152284.00	0.00001
565444.25	4151984.00	0.00008	565444.25	4151994.00	0.00008
565444.25	4152004.00	0.00007	565444.25	4152014.00	0.00007
565444.25	4152024.00	0.00006	565444.25	4152034.00	0.00005
565444.25	4152044.00	0.00005	565444.25	4152054.00	0.00005
565444.25	4152064.00	0.00004	565444.25	4152074.00	0.00004
565444.25	4152084.00	0.00004	565444.25	4152094.00	0.00003
565444.25	4152104.00	0.00003	565444.25	4152114.00	0.00003
565444.25	4152124.00	0.00002	565444.25	4152134.00	0.00002
565444.25	4152144.00	0.00002	565444.25	4152154.00	0.00002

565444.25 4152164.00 0.00002
565444.25 4152174.00 0.00001
565444.25 4152184.00 0.00001
565444.25 4152194.00 0.00001
565444.25 4152204.00 0.00001
565444.25 4152214.00 0.00001
565444.25 4152224.00 0.00001
565444.25 4152234.00 0.00001
565444.25 4152244.00 0.00001
565444.25 4152254.00 0.00001
565444.25 4152264.00 0.00001
565444.25 4152274.00 0.00001
565444.25 4152284.00 0.00001
565434.25 4151984.00 0.00005
565434.25 4151994.00 0.00005
565434.25 4152004.00 0.00005
565434.25 4152014.00 0.00005
565434.25 4152024.00 0.00004
565434.25 4152034.00 0.00004
565434.25 4152044.00 0.00004
565434.25 4152054.00 0.00004
565434.25 4152064.00 0.00004
565434.25 4152074.00 0.00003
565434.25 4152084.00 0.00003
565434.25 4152094.00 0.00003
565434.25 4152104.00 0.00003
565434.25 4152114.00 0.00002
565434.25 4152124.00 0.00002
565434.25 4152134.00 0.00002
565434.25 4152144.00 0.00002
565434.25 4152154.00 0.00002
565434.25 4152164.00 0.00001
565434.25 4152174.00 0.00001
565434.25 4152184.00 0.00001
565434.25 4152194.00 0.00001
565434.25 4152204.00 0.00001
565434.25 4152214.00 0.00001
565434.25 4152224.00 0.00001
565434.25 4152234.00 0.00001
565434.25 4152244.00 0.00001
565434.25 4152254.00 0.00001
565434.25 4152264.00 0.00001
565434.25 4152274.00 0.00001
565434.25 4152284.00 0.00001
565424.25 4151984.00 0.00004
565424.25 4151994.00 0.00004
565424.25 4152004.00 0.00004
565424.25 4152014.00 0.00003
565424.25 4152024.00 0.00003
565424.25 4152034.00 0.00003
565424.25 4152044.00 0.00003
565424.25 4152054.00 0.00003

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565424.25	4152064.00	0.00003	565424.25	4152074.00	0.00003
565424.25	4152084.00	0.00003	565424.25	4152094.00	0.00002
565424.25	4152104.00	0.00002	565424.25	4152114.00	0.00002
565424.25	4152124.00	0.00002	565424.25	4152134.00	0.00002
565424.25	4152144.00	0.00002	565424.25	4152154.00	0.00002
565424.25	4152164.00	0.00001	565424.25	4152174.00	0.00001
565424.25	4152184.00	0.00001	565424.25	4152194.00	0.00001
565424.25	4152204.00	0.00001	565424.25	4152214.00	0.00001
565424.25	4152224.00	0.00001	565424.25	4152234.00	0.00001
565424.25	4152244.00	0.00001	565424.25	4152254.00	0.00001
565424.25	4152264.00	0.00001	565424.25	4152274.00	0.00001
565424.25	4152284.00	0.00001	565414.25	4151984.00	0.00003
565414.25	4151994.00	0.00003	565414.25	4152004.00	0.00003
565414.25	4152014.00	0.00003	565414.25	4152024.00	0.00002

565414.25 4152034.00 0.00002
565414.25 4152044.00 0.00002
565414.25 4152054.00 0.00002
565414.25 4152064.00 0.00002
565414.25 4152074.00 0.00002
565414.25 4152084.00 0.00002
565414.25 4152094.00 0.00002
565414.25 4152104.00 0.00002
565414.25 4152114.00 0.00002
565414.25 4152124.00 0.00002
565414.25 4152134.00 0.00002
565414.25 4152144.00 0.00002
565414.25 4152154.00 0.00001
565414.25 4152164.00 0.00001
565414.25 4152174.00 0.00001
565414.25 4152184.00 0.00001
565414.25 4152194.00 0.00001
565414.25 4152204.00 0.00001
565414.25 4152214.00 0.00001
565414.25 4152224.00 0.00001
565414.25 4152234.00 0.00001
565414.25 4152244.00 0.00001
565414.25 4152254.00 0.00001
565414.25 4152264.00 0.00001
565414.25 4152274.00 0.00001
565414.25 4152284.00 0.00001
565404.25 4151984.00 0.00002
565404.25 4151994.00 0.00002
565404.25 4152004.00 0.00002
565404.25 4152014.00 0.00002
565404.25 4152024.00 0.00002
565404.25 4152034.00 0.00002
565404.25 4152044.00 0.00002
565404.25 4152054.00 0.00002
565404.25 4152064.00 0.00002
565404.25 4152074.00 0.00002
565404.25 4152084.00 0.00002
565404.25 4152094.00 0.00002
565404.25 4152104.00 0.00002
565404.25 4152114.00 0.00002
565404.25 4152124.00 0.00002
565404.25 4152134.00 0.00002
565404.25 4152144.00 0.00001
565404.25 4152154.00 0.00001
565404.25 4152164.00 0.00001
565404.25 4152174.00 0.00001
565404.25 4152184.00 0.00001
565404.25 4152194.00 0.00001
565404.25 4152204.00 0.00001
565404.25 4152214.00 0.00001
565404.25 4152224.00 0.00001
565404.25 4152234.00 0.00001

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565404.25	4152244.00	0.00001	565404.25	4152254.00	0.00001
565404.25	4152264.00	0.00001	565404.25	4152274.00	0.00001
565404.25	4152284.00	0.00001	565394.25	4151984.00	0.00002
565394.25	4151994.00	0.00002	565394.25	4152004.00	0.00002
565394.25	4152014.00	0.00002	565394.25	4152024.00	0.00002
565394.25	4152034.00	0.00002	565394.25	4152044.00	0.00002
565394.25	4152054.00	0.00002	565394.25	4152064.00	0.00002
565394.25	4152074.00	0.00002	565394.25	4152084.00	0.00002
565394.25	4152094.00	0.00002	565394.25	4152104.00	0.00002
565394.25	4152114.00	0.00001	565394.25	4152124.00	0.00001
565394.25	4152134.00	0.00001	565394.25	4152144.00	0.00001
565394.25	4152154.00	0.00001	565394.25	4152164.00	0.00001
565394.25	4152174.00	0.00001	565394.25	4152184.00	0.00001
565394.25	4152194.00	0.00001	565394.25	4152204.00	0.00001

565394.25 4152214.00 0.00001
565394.25 4152224.00 0.00001
565394.25 4152234.00 0.00001
565394.25 4152244.00 0.00001
565394.25 4152254.00 0.00001
565394.25 4152264.00 0.00001
565394.25 4152274.00 0.00001
565394.25 4152284.00 0.00001
565384.25 4151984.00 0.00001
565384.25 4151994.00 0.00001
565384.25 4152004.00 0.00001
565384.25 4152014.00 0.00001
565384.25 4152024.00 0.00001
565384.25 4152034.00 0.00001
565384.25 4152044.00 0.00001
565384.25 4152054.00 0.00001
565384.25 4152064.00 0.00001
565384.25 4152074.00 0.00001
565384.25 4152084.00 0.00001
565384.25 4152094.00 0.00001
565384.25 4152104.00 0.00001
565384.25 4152114.00 0.00001
565384.25 4152124.00 0.00001
565384.25 4152134.00 0.00001
565384.25 4152144.00 0.00001
565384.25 4152154.00 0.00001
565384.25 4152164.00 0.00001
565384.25 4152174.00 0.00001
565384.25 4152184.00 0.00001
565384.25 4152194.00 0.00001
565384.25 4152204.00 0.00001
565384.25 4152214.00 0.00001
565384.25 4152224.00 0.00001
565384.25 4152234.00 0.00001
565384.25 4152244.00 0.00001
565384.25 4152254.00 0.00001
565384.25 4152264.00 0.00001
565384.25 4152274.00 0.00001
565384.25 4152284.00 0.00001
565374.25 4151984.00 0.00001
565374.25 4151994.00 0.00001
565374.25 4152004.00 0.00001
565374.25 4152014.00 0.00001
565374.25 4152024.00 0.00001
565374.25 4152034.00 0.00001
565374.25 4152044.00 0.00001
565374.25 4152054.00 0.00001
565374.25 4152064.00 0.00001
565374.25 4152074.00 0.00001
565374.25 4152084.00 0.00001
565374.25 4152094.00 0.00001
565374.25 4152104.00 0.00001

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565374.25	4152114.00	0.00001	565374.25	4152124.00	0.00001
565374.25	4152134.00	0.00001	565374.25	4152144.00	0.00001
565374.25	4152154.00	0.00001	565374.25	4152164.00	0.00001
565374.25	4152174.00	0.00001	565374.25	4152184.00	0.00001
565374.25	4152194.00	0.00001	565374.25	4152204.00	0.00001
565374.25	4152214.00	0.00001	565374.25	4152224.00	0.00001
565374.25	4152234.00	0.00001	565374.25	4152244.00	0.00001
565374.25	4152254.00	0.00001	565374.25	4152264.00	0.00001
565374.25	4152274.00	0.00001	565374.25	4152284.00	0.00001
565364.25	4151984.00	0.00001	565364.25	4151994.00	0.00001
565364.25	4152004.00	0.00001	565364.25	4152014.00	0.00001
565364.25	4152024.00	0.00001	565364.25	4152034.00	0.00001
565364.25	4152044.00	0.00001	565364.25	4152054.00	0.00001
565364.25	4152064.00	0.00001	565364.25	4152074.00	0.00001

565364.25 4152084.00 0.00001
565364.25 4152094.00 0.00001
565364.25 4152104.00 0.00001
565364.25 4152114.00 0.00001
565364.25 4152124.00 0.00001
565364.25 4152134.00 0.00001
565364.25 4152144.00 0.00001
565364.25 4152154.00 0.00001
565364.25 4152164.00 0.00001
565364.25 4152174.00 0.00001
565364.25 4152184.00 0.00001
565364.25 4152194.00 0.00001
565364.25 4152204.00 0.00001
565364.25 4152214.00 0.00001
565364.25 4152224.00 0.00001
565364.25 4152234.00 0.00001
565364.25 4152244.00 0.00001
565364.25 4152254.00 0.00001
565364.25 4152264.00 0.00001
565364.25 4152274.00 0.00001
565364.25 4152284.00 0.00001
565354.25 4151984.00 0.00001
565354.25 4151994.00 0.00001
565354.25 4152004.00 0.00001
565354.25 4152014.00 0.00001
565354.25 4152024.00 0.00001
565354.25 4152034.00 0.00001
565354.25 4152044.00 0.00001
565354.25 4152054.00 0.00001
565354.25 4152064.00 0.00001
565354.25 4152074.00 0.00001
565354.25 4152084.00 0.00001
565354.25 4152094.00 0.00001
565354.25 4152104.00 0.00001
565354.25 4152114.00 0.00001
565354.25 4152124.00 0.00001
565354.25 4152134.00 0.00001
565354.25 4152144.00 0.00001
565354.25 4152154.00 0.00001
565354.25 4152164.00 0.00001
565354.25 4152174.00 0.00001
565354.25 4152184.00 0.00001
565354.25 4152194.00 0.00001
565354.25 4152204.00 0.00001
565354.25 4152214.00 0.00001
565354.25 4152224.00 0.00001
565354.25 4152234.00 0.00001
565354.25 4152244.00 0.00001
565354.25 4152254.00 0.00001
565354.25 4152264.00 0.00001
565354.25 4152274.00 0.00001
565354.25 4152284.00 0.00001

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565344.25	4151984.00	0.00001	565344.25	4151994.00	0.00001
565344.25	4152004.00	0.00001	565344.25	4152014.00	0.00001
565344.25	4152024.00	0.00001	565344.25	4152034.00	0.00001
565344.25	4152044.00	0.00001	565344.25	4152054.00	0.00001
565344.25	4152064.00	0.00001	565344.25	4152074.00	0.00001
565344.25	4152084.00	0.00001	565344.25	4152094.00	0.00001
565344.25	4152104.00	0.00001	565344.25	4152114.00	0.00001
565344.25	4152124.00	0.00001	565344.25	4152134.00	0.00001
565344.25	4152144.00	0.00001	565344.25	4152154.00	0.00001
565344.25	4152164.00	0.00001	565344.25	4152174.00	0.00001
565344.25	4152184.00	0.00001	565344.25	4152194.00	0.00001
565344.25	4152204.00	0.00001	565344.25	4152214.00	0.00001
565344.25	4152224.00	0.00001	565344.25	4152234.00	0.00001
565344.25	4152244.00	0.00001	565344.25	4152254.00	0.00001

565344.25 4152264.00 0.00001
565344.25 4152274.00 0.00001
565344.25 4152284.00 0.00001
565334.25 4151984.00 0.00001
565334.25 4151994.00 0.00001
565334.25 4152004.00 0.00001
565334.25 4152014.00 0.00001
565334.25 4152024.00 0.00001
565334.25 4152034.00 0.00001
565334.25 4152044.00 0.00001
565334.25 4152054.00 0.00001
565334.25 4152064.00 0.00001
565334.25 4152074.00 0.00001
565334.25 4152084.00 0.00001
565334.25 4152094.00 0.00001
565334.25 4152104.00 0.00001
565334.25 4152114.00 0.00001
565334.25 4152124.00 0.00001
565334.25 4152134.00 0.00001
565334.25 4152144.00 0.00001
565334.25 4152154.00 0.00001
565334.25 4152164.00 0.00001
565334.25 4152174.00 0.00001
565334.25 4152184.00 0.00001
565334.25 4152194.00 0.00001
565334.25 4152204.00 0.00001
565334.25 4152214.00 0.00001
565334.25 4152224.00 0.00001
565334.25 4152234.00 0.00001
565334.25 4152244.00 0.00001
565334.25 4152254.00 0.00001
565334.25 4152264.00 0.00001
565334.25 4152274.00 0.00001
565334.25 4152284.00 0.00001
565324.25 4151984.00 0.00001
565324.25 4151994.00 0.00001
565324.25 4152004.00 0.00001
565324.25 4152014.00 0.00001
565324.25 4152024.00 0.00001
565324.25 4152034.00 0.00001
565324.25 4152044.00 0.00001
565324.25 4152054.00 0.00001
565324.25 4152064.00 0.00001
565324.25 4152074.00 0.00001
565324.25 4152084.00 0.00001
565324.25 4152094.00 0.00001
565324.25 4152104.00 0.00001
565324.25 4152114.00 0.00001
565324.25 4152124.00 0.00001
565324.25 4152134.00 0.00001
565324.25 4152144.00 0.00001
565324.25 4152154.00 0.00001

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565324.25	4152164.00	0.00001	565324.25	4152174.00	0.00001
565324.25	4152184.00	0.00001	565324.25	4152194.00	0.00001
565324.25	4152204.00	0.00001	565324.25	4152214.00	0.00001
565324.25	4152224.00	0.00001	565324.25	4152234.00	0.00001
565324.25	4152244.00	0.00001	565324.25	4152254.00	0.00001
565324.25	4152264.00	0.00001	565324.25	4152274.00	0.00001
565324.25	4152284.00	0.00000	565314.25	4151984.00	0.00001
565314.25	4151994.00	0.00001	565314.25	4152004.00	0.00001
565314.25	4152014.00	0.00001	565314.25	4152024.00	0.00001
565314.25	4152034.00	0.00001	565314.25	4152044.00	0.00001
565314.25	4152054.00	0.00001	565314.25	4152064.00	0.00001
565314.25	4152074.00	0.00001	565314.25	4152084.00	0.00001
565314.25	4152094.00	0.00001	565314.25	4152104.00	0.00001
565314.25	4152114.00	0.00001	565314.25	4152124.00	0.00001

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         565314.25    4152134.00        0.00001
565314.25    4152144.00        0.00001
         565314.25    4152154.00        0.00001
565314.25    4152164.00        0.00001
         565314.25    4152174.00        0.00001
565314.25    4152184.00        0.00001
         565314.25    4152194.00        0.00001
565314.25    4152204.00        0.00001
         565314.25    4152214.00        0.00001
565314.25    4152224.00        0.00001
         565314.25    4152234.00        0.00001
565314.25    4152244.00        0.00001
         565314.25    4152254.00        0.00001
565314.25    4152264.00        0.00001
         565314.25    4152274.00        0.00000
565314.25    4152284.00        0.00000
         565304.25    4151984.00        0.00000
565304.25    4151994.00        0.00000
         565304.25    4152004.00        0.00000
565304.25    4152014.00        0.00000
         565304.25    4152024.00        0.00000
565304.25    4152034.00        0.00000
         565304.25    4152044.00        0.00000
565304.25    4152054.00        0.00000
         565304.25    4152064.00        0.00000
565304.25    4152074.00        0.00000
         565304.25    4152084.00        0.00000
565304.25    4152094.00        0.00000
         565304.25    4152104.00        0.00000
565304.25    4152114.00        0.00000
         565304.25    4152124.00        0.00000
565304.25    4152134.00        0.00001
         565304.25    4152144.00        0.00001
565304.25    4152154.00        0.00001
         565304.25    4152164.00        0.00001
565304.25    4152174.00        0.00001
         565304.25    4152184.00        0.00001
565304.25    4152194.00        0.00001
         565304.25    4152204.00        0.00001
565304.25    4152214.00        0.00001
         565304.25    4152224.00        0.00001
565304.25    4152234.00        0.00001
         565304.25    4152244.00        0.00001
565304.25    4152254.00        0.00001
         565304.25    4152264.00        0.00000
565304.25    4152274.00        0.00000
         565304.25    4152284.00        0.00000
565294.25    4151984.00        0.00000
         565294.25    4151994.00        0.00000
565294.25    4152004.00        0.00000
         565294.25    4152014.00        0.00000
565294.25    4152024.00        0.00000
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565294.25	4152034.00	0.00000	565294.25	4152044.00	0.00000
565294.25	4152054.00	0.00000	565294.25	4152064.00	0.00000
565294.25	4152074.00	0.00000	565294.25	4152084.00	0.00000
565294.25	4152094.00	0.00000	565294.25	4152104.00	0.00000
565294.25	4152114.00	0.00000	565294.25	4152124.00	0.00000
565294.25	4152134.00	0.00000	565294.25	4152144.00	0.00000
565294.25	4152154.00	0.00000	565294.25	4152164.00	0.00000
565294.25	4152174.00	0.00000	565294.25	4152184.00	0.00001
565294.25	4152194.00	0.00001	565294.25	4152204.00	0.00001
565294.25	4152214.00	0.00001	565294.25	4152224.00	0.00001
565294.25	4152234.00	0.00000	565294.25	4152244.00	0.00000
565294.25	4152254.00	0.00000	565294.25	4152264.00	0.00000
565294.25	4152274.00	0.00000	565294.25	4152284.00	0.00000
565284.25	4151984.00	0.00000	565284.25	4151994.00	0.00000

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         565284.25    4152004.00         0.00000
565284.25    4152014.00         0.00000
         565284.25    4152024.00         0.00000
565284.25    4152034.00         0.00000
         565284.25    4152044.00         0.00000
565284.25    4152054.00         0.00000
         565284.25    4152064.00         0.00000
565284.25    4152074.00         0.00000
         565284.25    4152084.00         0.00000
565284.25    4152094.00         0.00000
         565284.25    4152104.00         0.00000
565284.25    4152114.00         0.00000
         565284.25    4152124.00         0.00000
565284.25    4152134.00         0.00000
         565284.25    4152144.00         0.00000
565284.25    4152154.00         0.00000
         565284.25    4152164.00         0.00000
565284.25    4152174.00         0.00000
         565284.25    4152184.00         0.00000
565284.25    4152194.00         0.00000
         565284.25    4152204.00         0.00000
565284.25    4152214.00         0.00000
         565284.25    4152224.00         0.00000
565284.25    4152234.00         0.00000
         565284.25    4152244.00         0.00000
565284.25    4152254.00         0.00000
         565284.25    4152264.00         0.00000
565284.25    4152274.00         0.00000
         565284.25    4152284.00         0.00000
565274.25    4151984.00         0.00000
         565274.25    4151994.00         0.00000
565274.25    4152004.00         0.00000
         565274.25    4152014.00         0.00000
565274.25    4152024.00         0.00000
         565274.25    4152034.00         0.00000
565274.25    4152044.00         0.00000
         565274.25    4152054.00         0.00000
565274.25    4152064.00         0.00000
         565274.25    4152074.00         0.00000
565274.25    4152084.00         0.00000
         565274.25    4152094.00         0.00000
565274.25    4152104.00         0.00000
         565274.25    4152114.00         0.00000
565274.25    4152124.00         0.00000
         565274.25    4152134.00         0.00000
565274.25    4152144.00         0.00000
         565274.25    4152154.00         0.00000
565274.25    4152164.00         0.00000
         565274.25    4152174.00         0.00000
565274.25    4152184.00         0.00000
         565274.25    4152194.00         0.00000
565274.25    4152204.00         0.00000
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565274.25	4152214.00	0.00000	565274.25	4152224.00	0.00000
565274.25	4152234.00	0.00000	565274.25	4152244.00	0.00000
565274.25	4152254.00	0.00000	565274.25	4152264.00	0.00000
565274.25	4152274.00	0.00000	565274.25	4152284.00	0.00000
565264.25	4151984.00	0.00000	565264.25	4151994.00	0.00000
565264.25	4152004.00	0.00000	565264.25	4152014.00	0.00000
565264.25	4152024.00	0.00000	565264.25	4152034.00	0.00000
565264.25	4152044.00	0.00000	565264.25	4152054.00	0.00000
565264.25	4152064.00	0.00000	565264.25	4152074.00	0.00000
565264.25	4152084.00	0.00000	565264.25	4152094.00	0.00000
565264.25	4152104.00	0.00000	565264.25	4152114.00	0.00000
565264.25	4152124.00	0.00000	565264.25	4152134.00	0.00000
565264.25	4152144.00	0.00000	565264.25	4152154.00	0.00000
565264.25	4152164.00	0.00000	565264.25	4152174.00	0.00000

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         565264.25    4152184.00         0.00000
565264.25    4152194.00         0.00000
         565264.25    4152204.00         0.00000
565264.25    4152214.00         0.00000
         565264.25    4152224.00         0.00000
565264.25    4152234.00         0.00000
         565264.25    4152244.00         0.00000
565264.25    4152254.00         0.00000
         565264.25    4152264.00         0.00000
565264.25    4152274.00         0.00000
         565264.25    4152284.00         0.00000
565264.25    4152367.25         0.00000
         565264.25    4152450.75         0.00000
565264.25    4152534.00         0.00000
         565358.00    4152367.25         0.00000
565358.00    4152450.75         0.00000
         565358.00    4152534.00         0.00000
565451.75    4152367.25         0.00000
         565451.75    4152450.75         0.00000
565451.75    4152534.00         0.00000
         565545.50    4152367.25         0.00000
565545.50    4152450.75         0.00000
         565545.50    4152534.00         0.00000
565639.25    4152367.25         0.00000
         565639.25    4152450.75         0.00000
565639.25    4152534.00         0.00000
         565733.00    4152367.25         0.00000
565733.00    4152450.75         0.00000
         565733.00    4152534.00         0.00000
565826.75    4152367.25         0.00000
         565826.75    4152450.75         0.00000
565826.75    4152534.00         0.00000
         565920.50    4152367.25         0.00000
565920.50    4152450.75         0.00000
         565920.50    4152534.00         0.00000
566014.25    4152367.25         0.00000
         566014.25    4152450.75         0.00000
566014.25    4152534.00         0.00000
         565847.56    4152284.00         0.00000
565847.56    4152190.25         0.00001
         565847.56    4152096.50         0.00001
565847.56    4152002.75         0.00003
         565847.56    4151909.00         0.00003
565847.56    4151815.25         0.00003
         565847.56    4151721.50         0.00002
565847.56    4151627.75         0.00001
         565847.56    4151534.00         0.00001
565930.94    4152284.00         0.00000
         565930.94    4152190.25         0.00000
565930.94    4152096.50         0.00001
         565930.94    4152002.75         0.00002
565930.94    4151909.00         0.00002
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565930.94	4151815.25	0.00002	565930.94	4151721.50	0.00001
565930.94	4151627.75	0.00001	565930.94	4151534.00	0.00001
566014.25	4152284.00	0.00000	566014.25	4152190.25	0.00000
566014.25	4152096.50	0.00001	566014.25	4152002.75	0.00001
566014.25	4151909.00	0.00001	566014.25	4151815.25	0.00001
566014.25	4151721.50	0.00001	566014.25	4151627.75	0.00001
566014.25	4151534.00	0.00001	565764.25	4151700.75	0.00002
565764.25	4151617.25	0.00001	565764.25	4151534.00	0.00001
565670.50	4151700.75	0.00002	565670.50	4151617.25	0.00001
565670.50	4151534.00	0.00001	565576.75	4151700.75	0.00002
565576.75	4151617.25	0.00001	565576.75	4151534.00	0.00001
565483.00	4151700.75	0.00002	565483.00	4151617.25	0.00001
565483.00	4151534.00	0.00001	565389.25	4151700.75	0.00001
565389.25	4151617.25	0.00001	565389.25	4151534.00	0.00001

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         565295.50    4151700.75        0.00000
565295.50    4151617.25        0.00000
         565295.50    4151534.00        0.00000
565201.75    4151700.75        0.00000
         565201.75    4151617.25        0.00000
565201.75    4151534.00        0.00000
         565108.00    4151700.75        0.00000
565108.00    4151617.25        0.00000
         565108.00    4151534.00        0.00000
565014.25    4151700.75        0.00000
         565014.25    4151617.25        0.00000
565014.25    4151534.00        0.00000
         565180.94    4151784.00        0.00000
565180.94    4151877.75        0.00000
         565180.94    4151971.50        0.00000
565180.94    4152065.25        0.00000
         565180.94    4152159.00        0.00000
565180.94    4152252.75        0.00000
         565180.94    4152346.50        0.00000
565180.94    4152440.25        0.00000
         565180.94    4152534.00        0.00000
565097.56    4151784.00        0.00000
         565097.56    4151877.75        0.00000
565097.56    4151971.50        0.00000
         565097.56    4152065.25        0.00000
565097.56    4152159.00        0.00000
         565097.56    4152252.75        0.00000
565097.56    4152346.50        0.00000
         565097.56    4152440.25        0.00000
565097.56    4152534.00        0.00000
         565014.25    4151784.00        0.00000
565014.25    4151877.75        0.00000
         565014.25    4151971.50        0.00000
565014.25    4152065.25        0.00000
         565014.25    4152159.00        0.00000
565014.25    4152252.75        0.00000
         565014.25    4152346.50        0.00000
565014.25    4152440.25        0.00000
         565014.25    4152534.00        0.00000
565502.65    4152072.47        0.00006
         565589.07    4151982.88        0.00018
565619.89    4152017.45        0.00011
         565621.62    4152031.56        0.00009
565618.45    4152045.97        0.00008
         565600.88    4152086.01        0.00004
565578.70    4152137.28        0.00002
         565504.04    4152071.95        0.00006
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565464.25	4151984.00	0.02047	565464.25	4152009.00	0.02068
565464.25	4152034.00	0.01969	565464.25	4152059.00	0.01781
565464.25	4152084.00	0.01612	565489.25	4151984.00	0.03612
565489.25	4152009.00	0.04010	565489.25	4152034.00	0.04046
565489.25	4152059.00	0.03331	565489.25	4152084.00	0.02806
565514.25	4151984.00	0.06360	565514.25	4152009.00	0.07924
565514.25	4152034.00	0.08535	565514.25	4152059.00	0.05871
565514.25	4152084.00	0.04271	565539.25	4151984.00	0.10453
565539.25	4152009.00	0.13188	565539.25	4152034.00	0.13019
565564.25	4151984.00	0.14727	565564.25	4152009.00	0.16470
565464.25	4152094.00	0.01574	565464.25	4152104.00	0.01549
565464.25	4152114.00	0.01525	565464.25	4152124.00	0.01496
565464.25	4152134.00	0.01459	565464.25	4152144.00	0.01413
565464.25	4152154.00	0.01360	565464.25	4152164.00	0.01302

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         565464.25    4152174.00        0.01239
565464.25    4152184.00        0.01172
         565464.25    4152194.00        0.01104
565464.25    4152204.00        0.01034
         565464.25    4152214.00        0.00965
565464.25    4152224.00        0.00900
         565464.25    4152234.00        0.00837
565464.25    4152244.00        0.00779
         565464.25    4152254.00        0.00724
565464.25    4152264.00        0.00673
         565464.25    4152274.00        0.00627
565464.25    4152284.00        0.00584
         565474.25    4152094.00        0.01947
565474.25    4152104.00        0.01899
         565474.25    4152114.00        0.01845
565474.25    4152124.00        0.01782
         565474.25    4152134.00        0.01709
565474.25    4152144.00        0.01631
         565474.25    4152154.00        0.01547
565474.25    4152164.00        0.01461
         565474.25    4152174.00        0.01372
565474.25    4152184.00        0.01283
         565474.25    4152194.00        0.01195
565474.25    4152204.00        0.01108
         565474.25    4152214.00        0.01025
565474.25    4152224.00        0.00947
         565474.25    4152234.00        0.00875
565474.25    4152244.00        0.00809
         565474.25    4152254.00        0.00748
565474.25    4152264.00        0.00692
         565474.25    4152274.00        0.00642
565474.25    4152284.00        0.00596
         565484.25    4152094.00        0.02425
565484.25    4152104.00        0.02334
         565484.25    4152114.00        0.02230
565484.25    4152124.00        0.02115
         565484.25    4152134.00        0.01994
565484.25    4152144.00        0.01872
         565484.25    4152154.00        0.01750
565484.25    4152164.00        0.01629
         565484.25    4152174.00        0.01510
565484.25    4152184.00        0.01395
         565484.25    4152194.00        0.01284
565484.25    4152204.00        0.01179
         565484.25    4152214.00        0.01081
565484.25    4152224.00        0.00991
         565484.25    4152234.00        0.00909
565484.25    4152244.00        0.00836
         565484.25    4152254.00        0.00769
565484.25    4152264.00        0.00709
         565484.25    4152274.00        0.00655
565484.25    4152284.00        0.00607
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565494.25	4152094.00	0.02985	565494.25	4152104.00	0.02841
565494.25	4152114.00	0.02649	565494.25	4152124.00	0.02452
565494.25	4152134.00	0.02285	565494.25	4152144.00	0.02123
565494.25	4152154.00	0.01964	565494.25	4152164.00	0.01803
565494.25	4152174.00	0.01650	565494.25	4152184.00	0.01505
565494.25	4152194.00	0.01369	565494.25	4152204.00	0.01244
565494.25	4152214.00	0.01131	565494.25	4152224.00	0.01030
565494.25	4152234.00	0.00940	565494.25	4152244.00	0.00859
565494.25	4152254.00	0.00787	565494.25	4152264.00	0.00723
565494.25	4152274.00	0.00667	565494.25	4152284.00	0.00616
565504.25	4152094.00	0.03555	565504.25	4152104.00	0.03364
565504.25	4152114.00	0.03097	565504.25	4152124.00	0.02814
565504.25	4152134.00	0.02591	565504.25	4152144.00	0.02384
565504.25	4152154.00	0.02186	565504.25	4152164.00	0.01978

565504.25 4152174.00 0.01785
565504.25 4152184.00 0.01608
565504.25 4152194.00 0.01447
565504.25 4152204.00 0.01302
565504.25 4152214.00 0.01174
565504.25 4152224.00 0.01062
565504.25 4152234.00 0.00964
565504.25 4152244.00 0.00877
565504.25 4152254.00 0.00801
565504.25 4152264.00 0.00734
565504.25 4152274.00 0.00675
565504.25 4152284.00 0.00623
565514.25 4152094.00 0.04082
565514.25 4152104.00 0.03893
565514.25 4152114.00 0.03593
565514.25 4152124.00 0.03239
565514.25 4152134.00 0.02927
565514.25 4152144.00 0.02643
565514.25 4152154.00 0.02380
565514.25 4152164.00 0.02132
565514.25 4152174.00 0.01904
565514.25 4152184.00 0.01699
565514.25 4152194.00 0.01513
565514.25 4152204.00 0.01350
565514.25 4152214.00 0.01208
565514.25 4152224.00 0.01086
565514.25 4152234.00 0.00981
565514.25 4152244.00 0.00890
565514.25 4152254.00 0.00810
565514.25 4152264.00 0.00741
565514.25 4152274.00 0.00680
565514.25 4152284.00 0.00626
565524.25 4152094.00 0.04572
565524.25 4152104.00 0.04352
565524.25 4152114.00 0.04052
565524.25 4152124.00 0.03669
565524.25 4152134.00 0.03269
565524.25 4152144.00 0.02891
565524.25 4152154.00 0.02546
565524.25 4152164.00 0.02256
565524.25 4152174.00 0.02000
565524.25 4152184.00 0.01772
565524.25 4152194.00 0.01562
565524.25 4152204.00 0.01383
565524.25 4152214.00 0.01231
565524.25 4152224.00 0.01102
565524.25 4152234.00 0.00991
565524.25 4152244.00 0.00896
565524.25 4152254.00 0.00815
565524.25 4152264.00 0.00744
565524.25 4152274.00 0.00681
565524.25 4152284.00 0.00627

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565534.25	4152104.00	0.04689	565534.25	4152114.00	0.04375
565534.25	4152124.00	0.04007	565534.25	4152134.00	0.03568
565534.25	4152144.00	0.03115	565534.25	4152154.00	0.02688
565534.25	4152164.00	0.02348	565534.25	4152174.00	0.02059
565534.25	4152184.00	0.01809	565534.25	4152194.00	0.01588
565534.25	4152204.00	0.01401	565534.25	4152214.00	0.01242
565534.25	4152224.00	0.01108	565534.25	4152234.00	0.00995
565534.25	4152244.00	0.00898	565534.25	4152254.00	0.00814
565534.25	4152264.00	0.00742	565534.25	4152274.00	0.00679
565534.25	4152284.00	0.00623	565544.25	4152114.00	0.04514
565544.25	4152124.00	0.04159	565544.25	4152134.00	0.03761
565544.25	4152144.00	0.03292	565544.25	4152154.00	0.02803
565544.25	4152164.00	0.02389	565544.25	4152174.00	0.02051
565544.25	4152184.00	0.01774	565544.25	4152194.00	0.01562

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         565544.25    4152204.00         0.01388
565544.25    4152214.00         0.01240
         565544.25    4152224.00         0.01106
565544.25    4152234.00         0.00990
         565544.25    4152244.00         0.00892
565544.25    4152254.00         0.00805
         565544.25    4152264.00         0.00729
565544.25    4152274.00         0.00663
         565544.25    4152284.00         0.00610
565554.25    4152124.00         0.04069
         565554.25    4152134.00         0.03762
565554.25    4152144.00         0.03376
         565554.25    4152154.00         0.02855
565554.25    4152164.00         0.02373
         565554.25    4152174.00         0.01990
565554.25    4152184.00         0.01566
         565554.25    4152194.00         0.01504
565554.25    4152204.00         0.01359
         565554.25    4152214.00         0.01226
565554.25    4152224.00         0.01094
         565554.25    4152234.00         0.00979
565554.25    4152244.00         0.00880
         565554.25    4152254.00         0.00791
565554.25    4152264.00         0.00712
         565554.25    4152274.00         0.00645
565554.25    4152284.00         0.00594
         565564.25    4152134.00         0.03560
565564.25    4152144.00         0.03256
         565564.25    4152154.00         0.02832
565564.25    4152164.00         0.02387
         565564.25    4152174.00         0.02019
565564.25    4152184.00         0.01723
         565564.25    4152194.00         0.01519
565564.25    4152204.00         0.01355
         565564.25    4152214.00         0.01207
565564.25    4152224.00         0.01062
         565564.25    4152234.00         0.00955
565564.25    4152244.00         0.00863
         565564.25    4152254.00         0.00781
565564.25    4152264.00         0.00708
         565564.25    4152274.00         0.00646
565564.25    4152284.00         0.00595
         565574.25    4152134.00         0.03370
565574.25    4152144.00         0.03069
         565574.25    4152154.00         0.02717
565574.25    4152164.00         0.02348
         565574.25    4152174.00         0.02015
565574.25    4152184.00         0.01737
         565574.25    4152194.00         0.01517
565574.25    4152204.00         0.01316
         565574.25    4152214.00         0.01139
565574.25    4152224.00         0.01017
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565574.25	4152234.00	0.00925	565574.25	4152244.00	0.00843
565574.25	4152254.00	0.00767	565574.25	4152264.00	0.00699
565574.25	4152274.00	0.00640	565574.25	4152284.00	0.00589
565584.25	4152134.00	0.03252	565584.25	4152144.00	0.02906
565584.25	4152154.00	0.02574	565584.25	4152164.00	0.02213
565584.25	4152174.00	0.01891	565584.25	4152184.00	0.01628
565584.25	4152194.00	0.01411	565584.25	4152204.00	0.01234
565584.25	4152214.00	0.01089	565584.25	4152224.00	0.00983
565584.25	4152234.00	0.00899	565584.25	4152244.00	0.00824
565584.25	4152254.00	0.00749	565584.25	4152264.00	0.00682
565584.25	4152274.00	0.00625	565584.25	4152284.00	0.00575
565594.25	4152104.00	0.07156	565594.25	4152114.00	0.05489
565594.25	4152124.00	0.04248	565594.25	4152134.00	0.03422
565594.25	4152144.00	0.02873	565594.25	4152154.00	0.02455

565594.25 4152164.00 0.02105
565594.25 4152174.00 0.01811
565594.25 4152184.00 0.01570
565594.25 4152194.00 0.01371
565594.25 4152204.00 0.01206
565594.25 4152214.00 0.01070
565594.25 4152224.00 0.00966
565594.25 4152234.00 0.00881
565594.25 4152244.00 0.00800
565594.25 4152254.00 0.00728
565594.25 4152264.00 0.00665
565594.25 4152274.00 0.00611
565594.25 4152284.00 0.00563
565604.25 4152094.00 0.09406
565604.25 4152104.00 0.07838
565604.25 4152114.00 0.06300
565604.25 4152124.00 0.04843
565604.25 4152134.00 0.03678
565604.25 4152144.00 0.02866
565604.25 4152154.00 0.02337
565604.25 4152164.00 0.01975
565604.25 4152174.00 0.01704
565604.25 4152184.00 0.01489
565604.25 4152194.00 0.01314
565604.25 4152204.00 0.01168
565604.25 4152214.00 0.01042
565604.25 4152224.00 0.00942
565604.25 4152234.00 0.00852
565604.25 4152244.00 0.00773
565604.25 4152254.00 0.00706
565604.25 4152264.00 0.00648
565604.25 4152274.00 0.00597
565604.25 4152284.00 0.00551
565614.25 4152094.00 0.10043
565614.25 4152104.00 0.08335
565614.25 4152114.00 0.06623
565614.25 4152124.00 0.04997
565614.25 4152134.00 0.03759
565614.25 4152144.00 0.02848
565614.25 4152154.00 0.02246
565614.25 4152164.00 0.01860
565614.25 4152174.00 0.01593
565614.25 4152184.00 0.01388
565614.25 4152194.00 0.01231
565614.25 4152204.00 0.01104
565614.25 4152214.00 0.00995
565614.25 4152224.00 0.00900
565614.25 4152234.00 0.00819
565614.25 4152244.00 0.00746
565614.25 4152254.00 0.00684
565614.25 4152264.00 0.00630
565614.25 4152274.00 0.00581

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565614.25	4152284.00	0.00538	565624.25	4152094.00	0.09642
565624.25	4152104.00	0.07994	565624.25	4152114.00	0.06353
565624.25	4152124.00	0.04718	565624.25	4152134.00	0.03596
565624.25	4152144.00	0.02765	565624.25	4152154.00	0.02163
565624.25	4152164.00	0.01766	565624.25	4152174.00	0.01486
565624.25	4152184.00	0.01285	565624.25	4152194.00	0.01146
565624.25	4152204.00	0.01038	565624.25	4152214.00	0.00942
565624.25	4152224.00	0.00857	565624.25	4152234.00	0.00783
565624.25	4152244.00	0.00717	565624.25	4152254.00	0.00660
565624.25	4152264.00	0.00609	565624.25	4152274.00	0.00564
565624.25	4152284.00	0.00524	565634.25	4152094.00	0.08677
565634.25	4152104.00	0.07231	565634.25	4152114.00	0.05809
565634.25	4152124.00	0.04362	565634.25	4152134.00	0.03373
565634.25	4152144.00	0.02630	565634.25	4152154.00	0.02078

565634.25 4152164.00 0.01684
565634.25 4152174.00 0.01404
565634.25 4152184.00 0.01208
565634.25 4152194.00 0.01078
565634.25 4152204.00 0.00979
565634.25 4152214.00 0.00889
565634.25 4152224.00 0.00812
565634.25 4152234.00 0.00745
565634.25 4152244.00 0.00686
565634.25 4152254.00 0.00634
565634.25 4152264.00 0.00587
565634.25 4152274.00 0.00546
565634.25 4152284.00 0.00508
565644.25 4152094.00 0.07658
565644.25 4152104.00 0.06425
565644.25 4152114.00 0.05232
565644.25 4152124.00 0.04029
565644.25 4152134.00 0.03153
565644.25 4152144.00 0.02482
565644.25 4152154.00 0.01979
565644.25 4152164.00 0.01608
565644.25 4152174.00 0.01345
565644.25 4152184.00 0.01158
565644.25 4152194.00 0.01027
565644.25 4152204.00 0.00925
565644.25 4152214.00 0.00839
565644.25 4152224.00 0.00767
565644.25 4152234.00 0.00706
565644.25 4152244.00 0.00653
565644.25 4152254.00 0.00605
565644.25 4152264.00 0.00563
565644.25 4152274.00 0.00525
565644.25 4152284.00 0.00491
565654.25 4152094.00 0.06743
565654.25 4152104.00 0.05701
565654.25 4152114.00 0.04706
565654.25 4152124.00 0.03706
565654.25 4152134.00 0.02937
565654.25 4152144.00 0.02338
565654.25 4152154.00 0.01877
565654.25 4152164.00 0.01538
565654.25 4152174.00 0.01293
565654.25 4152184.00 0.01114
565654.25 4152194.00 0.00978
565654.25 4152204.00 0.00874
565654.25 4152214.00 0.00792
565654.25 4152224.00 0.00724
565654.25 4152234.00 0.00668
565654.25 4152244.00 0.00619
565654.25 4152254.00 0.00576
565654.25 4152264.00 0.00538
565654.25 4152274.00 0.00503

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565654.25	4152284.00	0.00472	565664.25	4152094.00	0.05862
565664.25	4152104.00	0.05020	565664.25	4152114.00	0.04223
565664.25	4152124.00	0.03458	565664.25	4152134.00	0.02774
565664.25	4152144.00	0.02234	565664.25	4152154.00	0.01809
565664.25	4152164.00	0.01489	565664.25	4152174.00	0.01248
565664.25	4152184.00	0.01067	565664.25	4152194.00	0.00933
565664.25	4152204.00	0.00830	565664.25	4152214.00	0.00749
565664.25	4152224.00	0.00685	565664.25	4152234.00	0.00632
565664.25	4152244.00	0.00587	565664.25	4152254.00	0.00548
565664.25	4152264.00	0.00513	565664.25	4152274.00	0.00482
565664.25	4152284.00	0.00453	565674.25	4152094.00	0.05112
565674.25	4152104.00	0.04444	565674.25	4152114.00	0.03799
565674.25	4152124.00	0.03190	565674.25	4152134.00	0.02610
565674.25	4152144.00	0.02127	565674.25	4152154.00	0.01738

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         565674.25    4152164.00        0.01435
565674.25    4152174.00        0.01202
         565674.25    4152184.00        0.01027
565674.25    4152194.00        0.00893
         565674.25    4152204.00        0.00791
565674.25    4152214.00        0.00712
         565674.25    4152224.00        0.00650
565674.25    4152234.00        0.00599
         565674.25    4152244.00        0.00556
565674.25    4152254.00        0.00520
         565674.25    4152264.00        0.00487
565674.25    4152274.00        0.00455
         565674.25    4152284.00        0.00428
565684.25    4152094.00        0.04511
         565684.25    4152104.00        0.03965
565684.25    4152114.00        0.03432
         565684.25    4152124.00        0.02922
565684.25    4152134.00        0.02433
         565684.25    4152144.00        0.02011
565684.25    4152154.00        0.01662
         565684.25    4152164.00        0.01381
565684.25    4152174.00        0.01161
         565684.25    4152184.00        0.00989
565684.25    4152194.00        0.00859
         565684.25    4152204.00        0.00758
565684.25    4152214.00        0.00680
         565684.25    4152224.00        0.00619
565684.25    4152234.00        0.00570
         565684.25    4152244.00        0.00529
565684.25    4152254.00        0.00494
         565684.25    4152264.00        0.00462
565684.25    4152274.00        0.00433
         565684.25    4152284.00        0.00408
565694.25    4152094.00        0.03849
         565694.25    4152104.00        0.03567
565694.25    4152114.00        0.03110
         565694.25    4152124.00        0.02672
565694.25    4152134.00        0.02256
         565694.25    4152144.00        0.01892
565694.25    4152154.00        0.01588
         565694.25    4152164.00        0.01330
565694.25    4152174.00        0.01121
         565694.25    4152184.00        0.00957
565694.25    4152194.00        0.00830
         565694.25    4152204.00        0.00731
565694.25    4152214.00        0.00654
         565694.25    4152224.00        0.00593
565694.25    4152234.00        0.00545
         565694.25    4152244.00        0.00504
565694.25    4152254.00        0.00470
         565694.25    4152264.00        0.00440
565694.25    4152274.00        0.00414
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565694.25	4152284.00	0.00392	565704.25	4152094.00	0.03460
565704.25	4152104.00	0.03076	565704.25	4152114.00	0.02831
565704.25	4152124.00	0.02452	565704.25	4152134.00	0.02100
565704.25	4152144.00	0.01786	565704.25	4152154.00	0.01516
565704.25	4152164.00	0.01281	565704.25	4152174.00	0.01085
565704.25	4152184.00	0.00928	565704.25	4152194.00	0.00805
565704.25	4152204.00	0.00709	565704.25	4152214.00	0.00632
565704.25	4152224.00	0.00572	565704.25	4152234.00	0.00522
565704.25	4152244.00	0.00482	565704.25	4152254.00	0.00448
565704.25	4152264.00	0.00419	565704.25	4152274.00	0.00395
565704.25	4152284.00	0.00374	565714.25	4152094.00	0.03409
565714.25	4152104.00	0.03030	565714.25	4152114.00	0.02671
565714.25	4152124.00	0.02326	565714.25	4152134.00	0.01999
565714.25	4152144.00	0.01707	565714.25	4152154.00	0.01454

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         565714.25    4152164.00        0.01236
565714.25    4152174.00        0.01053
         565714.25    4152184.00        0.00905
565714.25    4152194.00        0.00786
         565714.25    4152204.00        0.00691
565714.25    4152214.00        0.00614
         565714.25    4152224.00        0.00553
565714.25    4152234.00        0.00502
         565714.25    4152244.00        0.00461
565714.25    4152254.00        0.00427
         565714.25    4152264.00        0.00400
565714.25    4152274.00        0.00376
         565714.25    4152284.00        0.00356
565724.25    4152094.00        0.03187
         565724.25    4152104.00        0.02843
565724.25    4152114.00        0.02518
         565724.25    4152124.00        0.02206
565724.25    4152134.00        0.01905
         565724.25    4152144.00        0.01633
565724.25    4152154.00        0.01396
         565724.25    4152164.00        0.01193
565724.25    4152174.00        0.01024
         565724.25    4152184.00        0.00883
565724.25    4152194.00        0.00769
         565724.25    4152204.00        0.00675
565724.25    4152214.00        0.00599
         565724.25    4152224.00        0.00536
565724.25    4152234.00        0.00484
         565724.25    4152244.00        0.00442
565724.25    4152254.00        0.00408
         565724.25    4152264.00        0.00382
565724.25    4152274.00        0.00359
         565724.25    4152284.00        0.00339
565734.25    4152094.00        0.02981
         565734.25    4152104.00        0.02666
565734.25    4152114.00        0.02367
         565734.25    4152124.00        0.02082
565734.25    4152134.00        0.01809
         565734.25    4152144.00        0.01561
565734.25    4152154.00        0.01342
         565734.25    4152164.00        0.01154
565734.25    4152174.00        0.00993
         565734.25    4152184.00        0.00858
565734.25    4152194.00        0.00748
         565734.25    4152204.00        0.00659
565734.25    4152214.00        0.00585
         565734.25    4152224.00        0.00523
565734.25    4152234.00        0.00472
         565734.25    4152244.00        0.00429
565734.25    4152254.00        0.00395
         565734.25    4152264.00        0.00368
565734.25    4152274.00        0.00345
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565734.25	4152284.00	0.00325	565744.25	4152094.00	0.02786
565744.25	4152104.00	0.02500	565744.25	4152114.00	0.02224
565744.25	4152124.00	0.01962	565744.25	4152134.00	0.01716
565744.25	4152144.00	0.01491	565744.25	4152154.00	0.01292
565744.25	4152164.00	0.01116	565744.25	4152174.00	0.00963
565744.25	4152184.00	0.00833	565744.25	4152194.00	0.00727
565744.25	4152204.00	0.00642	565744.25	4152214.00	0.00570
565744.25	4152224.00	0.00512	565744.25	4152234.00	0.00462
565744.25	4152244.00	0.00419	565744.25	4152254.00	0.00384
565744.25	4152264.00	0.00356	565744.25	4152274.00	0.00333
565744.25	4152284.00	0.00313	565754.25	4152094.00	0.02599
565754.25	4152104.00	0.02342	565754.25	4152114.00	0.02091
565754.25	4152124.00	0.01851	565754.25	4152134.00	0.01629
565754.25	4152144.00	0.01426	565754.25	4152154.00	0.01244

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         565754.25    4152164.00        0.01079
565754.25    4152174.00        0.00933
         565754.25    4152184.00        0.00808
565754.25    4152194.00        0.00707
         565754.25    4152204.00        0.00625
565754.25    4152214.00        0.00556
         565754.25    4152224.00        0.00499
565754.25    4152234.00        0.00452
         565754.25    4152244.00        0.00411
565754.25    4152254.00        0.00376
         565754.25    4152264.00        0.00347
565754.25    4152274.00        0.00323
         565754.25    4152284.00        0.00303
565764.25    4152094.00        0.02408
         565764.25    4152104.00        0.02183
565764.25    4152114.00        0.01961
         565764.25    4152124.00        0.01748
565764.25    4152134.00        0.01547
         565764.25    4152144.00        0.01362
565764.25    4152154.00        0.01195
         565764.25    4152164.00        0.01040
565764.25    4152174.00        0.00900
         565764.25    4152184.00        0.00780
565764.25    4152194.00        0.00683
         565764.25    4152204.00        0.00606
565764.25    4152214.00        0.00540
         565764.25    4152224.00        0.00485
565764.25    4152234.00        0.00439
         565764.25    4152244.00        0.00400
565764.25    4152254.00        0.00367
         565764.25    4152264.00        0.00337
565764.25    4152274.00        0.00313
         565764.25    4152284.00        0.00293
565574.25    4151994.00        0.16424
         565574.25    4151984.00        0.15654
565574.25    4151974.00        0.14446
         565574.25    4151964.00        0.12745
565574.25    4151954.00        0.10873
         565574.25    4151944.00        0.09161
565574.25    4151934.00        0.07737
         565574.25    4151924.00        0.06588
565574.25    4151914.00        0.05665
         565574.25    4151904.00        0.04919
565574.25    4151894.00        0.04308
         565574.25    4151884.00        0.03802
565574.25    4151874.00        0.03378
         565574.25    4151864.00        0.03022
565574.25    4151854.00        0.02719
         565574.25    4151844.00        0.02459
565574.25    4151834.00        0.02233
         565574.25    4151824.00        0.02037
565574.25    4151814.00        0.01867
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565574.25	4151804.00	0.01717	565574.25	4151794.00	0.01585
565574.25	4151784.00	0.01467	565584.25	4151984.00	0.16112
565584.25	4151974.00	0.14994	565584.25	4151964.00	0.13377
565584.25	4151954.00	0.11405	565584.25	4151944.00	0.09536
565584.25	4151934.00	0.07990	565584.25	4151924.00	0.06761
565584.25	4151914.00	0.05787	565584.25	4151904.00	0.05006
565584.25	4151894.00	0.04372	565584.25	4151884.00	0.03846
565584.25	4151874.00	0.03411	565584.25	4151864.00	0.03046
565584.25	4151854.00	0.02738	565584.25	4151844.00	0.02475
565584.25	4151834.00	0.02249	565584.25	4151824.00	0.02053
565584.25	4151814.00	0.01880	565584.25	4151804.00	0.01728
565584.25	4151794.00	0.01593	565584.25	4151784.00	0.01473
565594.25	4151984.00	0.16225	565594.25	4151974.00	0.15050
565594.25	4151964.00	0.13389	565594.25	4151954.00	0.11416

565594.25 4151944.00 0.09541
565594.25 4151934.00 0.07989
565594.25 4151924.00 0.06758
565594.25 4151914.00 0.05783
565594.25 4151904.00 0.05002
565594.25 4151894.00 0.04369
565594.25 4151884.00 0.03849
565594.25 4151874.00 0.03414
565594.25 4151864.00 0.03049
565594.25 4151854.00 0.02739
565594.25 4151844.00 0.02476
565594.25 4151834.00 0.02250
565594.25 4151824.00 0.02055
565594.25 4151814.00 0.01882
565594.25 4151804.00 0.01728
565594.25 4151794.00 0.01592
565594.25 4151784.00 0.01471
565604.25 4152084.00 0.11102
565604.25 4151994.00 0.16980
565604.25 4151984.00 0.16058
565604.25 4151974.00 0.14720
565604.25 4151964.00 0.12939
565604.25 4151954.00 0.10985
565604.25 4151944.00 0.09211
565604.25 4151934.00 0.07757
565604.25 4151924.00 0.06599
565604.25 4151914.00 0.05672
565604.25 4151904.00 0.04921
565604.25 4151894.00 0.04308
565604.25 4151884.00 0.03803
565604.25 4151874.00 0.03380
565604.25 4151864.00 0.03024
565604.25 4151854.00 0.02719
565604.25 4151844.00 0.02459
565604.25 4151834.00 0.02238
565604.25 4151824.00 0.02045
565604.25 4151814.00 0.01874
565604.25 4151804.00 0.01720
565604.25 4151794.00 0.01583
565604.25 4151784.00 0.01464
565614.25 4152084.00 0.11649
565614.25 4152074.00 0.13099
565614.25 4152064.00 0.14358
565614.25 4152004.00 0.17284
565614.25 4151994.00 0.16748
565614.25 4151984.00 0.15712
565614.25 4151974.00 0.14099
565614.25 4151964.00 0.12198
565614.25 4151954.00 0.10351
565614.25 4151944.00 0.08743
565614.25 4151934.00 0.07425
565614.25 4151924.00 0.06361

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565614.25	4151914.00	0.05494	565614.25	4151904.00	0.04788
565614.25	4151894.00	0.04207	565614.25	4151884.00	0.03724
565614.25	4151874.00	0.03319	565614.25	4151864.00	0.02976
565614.25	4151854.00	0.02683	565614.25	4151844.00	0.02431
565614.25	4151834.00	0.02213	565614.25	4151824.00	0.02023
565614.25	4151814.00	0.01855	565614.25	4151804.00	0.01704
565614.25	4151794.00	0.01571	565614.25	4151784.00	0.01453
565624.25	4152084.00	0.11269	565624.25	4152074.00	0.12738
565624.25	4152064.00	0.13994	565624.25	4152054.00	0.15011
565624.25	4152044.00	0.15756	565624.25	4152034.00	0.16256
565624.25	4152024.00	0.16693	565624.25	4152014.00	0.16904
565624.25	4152004.00	0.16816	565624.25	4151994.00	0.16183
565624.25	4151984.00	0.14895	565624.25	4151974.00	0.13120
565624.25	4151964.00	0.11300	565624.25	4151954.00	0.09649

565624.25 4151944.00 0.08235
565624.25 4151934.00 0.07044
565624.25 4151924.00 0.06073
565624.25 4151914.00 0.05279
565624.25 4151904.00 0.04624
565624.25 4151894.00 0.04081
565624.25 4151884.00 0.03626
565624.25 4151874.00 0.03241
565624.25 4151864.00 0.02914
565624.25 4151854.00 0.02633
565624.25 4151844.00 0.02391
565624.25 4151834.00 0.02180
565624.25 4151824.00 0.01993
565624.25 4151814.00 0.01828
565624.25 4151804.00 0.01683
565624.25 4151794.00 0.01554
565624.25 4151784.00 0.01441
565634.25 4152084.00 0.10229
565634.25 4152074.00 0.11718
565634.25 4152064.00 0.13069
565634.25 4152054.00 0.14219
565634.25 4152044.00 0.15115
565634.25 4152034.00 0.15708
565634.25 4152024.00 0.16124
565634.25 4152014.00 0.16263
565634.25 4152004.00 0.15952
565634.25 4151994.00 0.15051
565634.25 4151984.00 0.13628
565634.25 4151974.00 0.11961
565634.25 4151964.00 0.10371
565634.25 4151954.00 0.08951
565634.25 4151944.00 0.07705
565634.25 4151934.00 0.06649
565634.25 4151924.00 0.05776
565634.25 4151914.00 0.05052
565634.25 4151904.00 0.04449
565634.25 4151894.00 0.03943
565634.25 4151884.00 0.03513
565634.25 4151874.00 0.03151
565634.25 4151864.00 0.02843
565634.25 4151854.00 0.02576
565634.25 4151844.00 0.02343
565634.25 4151834.00 0.02140
565634.25 4151824.00 0.01958
565634.25 4151814.00 0.01798
565634.25 4151804.00 0.01659
565634.25 4151794.00 0.01535
565634.25 4151784.00 0.01426
565644.25 4152084.00 0.09006
565644.25 4152074.00 0.10345
565644.25 4152064.00 0.11622
565644.25 4152054.00 0.12831

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565644.25	4152044.00	0.13854	565644.25	4152034.00	0.14623
565644.25	4152024.00	0.15044	565644.25	4152014.00	0.15038
565644.25	4152004.00	0.14520	565644.25	4151994.00	0.13547
565644.25	4151984.00	0.12260	565644.25	4151974.00	0.10855
565644.25	4151964.00	0.09517	565644.25	4151954.00	0.08287
565644.25	4151944.00	0.07197	565644.25	4151934.00	0.06269
565644.25	4151924.00	0.05487	565644.25	4151914.00	0.04829
565644.25	4151904.00	0.04275	565644.25	4151894.00	0.03806
565644.25	4151884.00	0.03405	565644.25	4151874.00	0.03064
565644.25	4151864.00	0.02770	565644.25	4151854.00	0.02515
565644.25	4151844.00	0.02293	565644.25	4151834.00	0.02097
565644.25	4151824.00	0.01922	565644.25	4151814.00	0.01769
565644.25	4151804.00	0.01636	565644.25	4151794.00	0.01517
565644.25	4151784.00	0.01411	565654.25	4152084.00	0.07877

565654.25 4152074.00 0.09015
565654.25 4152064.00 0.10121
565654.25 4152054.00 0.11187
565654.25 4152044.00 0.12125
565654.25 4152034.00 0.12842
565654.25 4152024.00 0.13254
565654.25 4152014.00 0.13237
565654.25 4152004.00 0.12782
565654.25 4151994.00 0.11971
565654.25 4151984.00 0.10936
565654.25 4151974.00 0.09813
565654.25 4151964.00 0.08700
565654.25 4151954.00 0.07651
565654.25 4151944.00 0.06718
565654.25 4151934.00 0.05907
565654.25 4151924.00 0.05212
565654.25 4151914.00 0.04615
565654.25 4151904.00 0.04106
565654.25 4151894.00 0.03671
565654.25 4151884.00 0.03298
565654.25 4151874.00 0.02976
565654.25 4151864.00 0.02697
565654.25 4151854.00 0.02454
565654.25 4151844.00 0.02242
565654.25 4151834.00 0.02053
565654.25 4151824.00 0.01885
565654.25 4151814.00 0.01739
565654.25 4151804.00 0.01612
565654.25 4151794.00 0.01498
565654.25 4151784.00 0.01394
565664.25 4152084.00 0.06822
565664.25 4152074.00 0.07791
565664.25 4152064.00 0.08743
565664.25 4152054.00 0.09672
565664.25 4152044.00 0.10491
565664.25 4152034.00 0.11115
565664.25 4152024.00 0.11478
565664.25 4152014.00 0.11494
565664.25 4152004.00 0.11164
565664.25 4151994.00 0.10558
565664.25 4151984.00 0.09766
565664.25 4151974.00 0.08856
565664.25 4151964.00 0.07931
565664.25 4151954.00 0.07061
565664.25 4151944.00 0.06270
565664.25 4151934.00 0.05567
565664.25 4151924.00 0.04949
565664.25 4151914.00 0.04411
565664.25 4151904.00 0.03945
565664.25 4151894.00 0.03542
565664.25 4151884.00 0.03193
565664.25 4151874.00 0.02890

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565664.25	4151864.00	0.02625	565664.25	4151854.00	0.02394
565664.25	4151844.00	0.02191	565664.25	4151834.00	0.02012
565664.25	4151824.00	0.01853	565664.25	4151814.00	0.01712
565664.25	4151804.00	0.01587	565664.25	4151794.00	0.01474
565664.25	4151784.00	0.01373	565674.25	4152084.00	0.05925
565674.25	4152074.00	0.06753	565674.25	4152064.00	0.07567
565674.25	4152054.00	0.08371	565674.25	4152044.00	0.09074
565674.25	4152034.00	0.09615	565674.25	4152024.00	0.09931
565674.25	4152014.00	0.09975	565674.25	4152004.00	0.09751
565674.25	4151994.00	0.09314	565674.25	4151984.00	0.08699
565674.25	4151974.00	0.07920	565674.25	4151964.00	0.07203
565674.25	4151954.00	0.06514	565674.25	4151944.00	0.05846
565674.25	4151934.00	0.05239	565674.25	4151924.00	0.04696
565674.25	4151914.00	0.04214	565674.25	4151904.00	0.03790

565674.25 4151894.00 0.03418
565674.25 4151884.00 0.03092
565674.25 4151874.00 0.02807
565674.25 4151864.00 0.02557
565674.25 4151854.00 0.02337
565674.25 4151844.00 0.02142
565674.25 4151834.00 0.01971
565674.25 4151824.00 0.01818
565674.25 4151814.00 0.01682
565674.25 4151804.00 0.01560
565674.25 4151794.00 0.01451
565674.25 4151784.00 0.01352
565684.25 4152084.00 0.05209
565684.25 4152074.00 0.05918
565684.25 4152064.00 0.06617
565684.25 4152054.00 0.07311
565684.25 4152044.00 0.07918
565684.25 4152034.00 0.08386
565684.25 4152024.00 0.08647
565684.25 4152014.00 0.08698
565684.25 4152004.00 0.08544
565684.25 4151994.00 0.08228
565684.25 4151984.00 0.07752
565684.25 4151974.00 0.07078
565684.25 4151964.00 0.06532
565684.25 4151954.00 0.06006
565684.25 4151944.00 0.05446
565684.25 4151934.00 0.04926
565684.25 4151924.00 0.04452
565684.25 4151914.00 0.04023
565684.25 4151904.00 0.03639
565684.25 4151894.00 0.03297
565684.25 4151884.00 0.02995
565684.25 4151874.00 0.02727
565684.25 4151864.00 0.02491
565684.25 4151854.00 0.02281
565684.25 4151844.00 0.02096
565684.25 4151834.00 0.01931
565684.25 4151824.00 0.01783
565684.25 4151814.00 0.01651
565684.25 4151804.00 0.01534
565684.25 4151794.00 0.01428
565684.25 4151784.00 0.01332
565694.25 4152084.00 0.04644
565694.25 4152074.00 0.05257
565694.25 4152064.00 0.05858
565694.25 4152054.00 0.06464
565694.25 4152044.00 0.06990
565694.25 4152034.00 0.07394
565694.25 4152024.00 0.07597
565694.25 4152014.00 0.07637
565694.25 4152004.00 0.07519

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565694.25	4151994.00	0.07289	565694.25	4151984.00	0.06930
565694.25	4151974.00	0.06403	565694.25	4151964.00	0.05958
565694.25	4151954.00	0.05525	565694.25	4151944.00	0.05070
565694.25	4151934.00	0.04627	565694.25	4151924.00	0.04214
565694.25	4151914.00	0.03835	565694.25	4151904.00	0.03490
565694.25	4151894.00	0.03179	565694.25	4151884.00	0.02899
565694.25	4151874.00	0.02650	565694.25	4151864.00	0.02427
565694.25	4151854.00	0.02228	565694.25	4151844.00	0.02051
565694.25	4151834.00	0.01892	565694.25	4151824.00	0.01750
565694.25	4151814.00	0.01623	565694.25	4151804.00	0.01509
565694.25	4151794.00	0.01406	565694.25	4151784.00	0.01313
565704.25	4152084.00	0.03977	565704.25	4152074.00	0.04695
565704.25	4152064.00	0.05216	565704.25	4152054.00	0.05746
565704.25	4152044.00	0.06202	565704.25	4152034.00	0.06550

565704.25 4152024.00 0.06712
565704.25 4152014.00 0.06746
565704.25 4152004.00 0.06656
565704.25 4151994.00 0.06489
565704.25 4151984.00 0.06217
565704.25 4151974.00 0.05804
565704.25 4151964.00 0.05441
565704.25 4151954.00 0.05080
565704.25 4151944.00 0.04715
565704.25 4151934.00 0.04341
565704.25 4151924.00 0.03984
565704.25 4151914.00 0.03651
565704.25 4151904.00 0.03343
565704.25 4151894.00 0.03061
565704.25 4151884.00 0.02804
565704.25 4151874.00 0.02573
565704.25 4151864.00 0.02364
565704.25 4151854.00 0.02176
565704.25 4151844.00 0.02007
565704.25 4151834.00 0.01855
565704.25 4151824.00 0.01719
565704.25 4151814.00 0.01596
565704.25 4151804.00 0.01485
565704.25 4151794.00 0.01385
565704.25 4151784.00 0.01294
565714.25 4152084.00 0.03890
565714.25 4152074.00 0.04371
565714.25 4152064.00 0.04831
565714.25 4152054.00 0.05240
565714.25 4152044.00 0.05588
565714.25 4152034.00 0.05850
565714.25 4152024.00 0.05985
565714.25 4152014.00 0.06018
565714.25 4152004.00 0.05952
565714.25 4151994.00 0.05818
565714.25 4151984.00 0.05593
565714.25 4151974.00 0.05266
565714.25 4151964.00 0.04981
565714.25 4151954.00 0.04688
565714.25 4151944.00 0.04385
565714.25 4151934.00 0.04067
565714.25 4151924.00 0.03761
565714.25 4151914.00 0.03470
565714.25 4151904.00 0.03197
565714.25 4151894.00 0.02943
565714.25 4151884.00 0.02709
565714.25 4151874.00 0.02496
565714.25 4151864.00 0.02301
565714.25 4151854.00 0.02124
565714.25 4151844.00 0.01964
565714.25 4151834.00 0.01819
565714.25 4151824.00 0.01688

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565714.25	4151814.00	0.01569	565714.25	4151804.00	0.01461
565714.25	4151794.00	0.01363	565714.25	4151784.00	0.01275
565724.25	4152084.00	0.03619	565724.25	4152074.00	0.04043
565724.25	4152064.00	0.04436	565724.25	4152054.00	0.04761
565724.25	4152044.00	0.05027	565724.25	4152034.00	0.05206
565724.25	4152024.00	0.05344	565724.25	4152014.00	0.05383
565724.25	4152004.00	0.05341	565724.25	4151994.00	0.05231
565724.25	4151984.00	0.05034	565724.25	4151974.00	0.04790
565724.25	4151964.00	0.04566	565724.25	4151954.00	0.04329
565724.25	4151944.00	0.04076	565724.25	4151934.00	0.03808
565724.25	4151924.00	0.03546	565724.25	4151914.00	0.03293
565724.25	4151904.00	0.03052	565724.25	4151894.00	0.02825
565724.25	4151884.00	0.02614	565724.25	4151874.00	0.02418
565724.25	4151864.00	0.02237	565724.25	4151854.00	0.02072

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         565724.25    4151844.00        0.01921
565724.25    4151834.00        0.01783
         565724.25    4151824.00        0.01657
565724.25    4151814.00        0.01542
         565724.25    4151804.00        0.01438
565724.25    4151794.00        0.01343
         565724.25    4151784.00        0.01257
565734.25    4152084.00        0.03348
         565734.25    4152074.00        0.03704
565734.25    4152064.00        0.04005
         565734.25    4152054.00        0.04263
565734.25    4152044.00        0.04474
         565734.25    4152034.00        0.04628
565734.25    4152024.00        0.04754
         565734.25    4152014.00        0.04814
565734.25    4152004.00        0.04806
         565734.25    4151994.00        0.04709
565734.25    4151984.00        0.04559
         565734.25    4151974.00        0.04371
565734.25    4151964.00        0.04193
         565734.25    4151954.00        0.04001
565734.25    4151944.00        0.03790
         565734.25    4151934.00        0.03564
565734.25    4151924.00        0.03340
         565734.25    4151914.00        0.03121
565734.25    4151904.00        0.02910
         565734.25    4151894.00        0.02708
565734.25    4151884.00        0.02517
         565734.25    4151874.00        0.02339
565734.25    4151864.00        0.02173
         565734.25    4151854.00        0.02019
565734.25    4151844.00        0.01877
         565734.25    4151834.00        0.01746
565734.25    4151824.00        0.01627
         565734.25    4151814.00        0.01516
565734.25    4151804.00        0.01415
         565734.25    4151794.00        0.01323
565734.25    4151784.00        0.01239
         565744.25    4152084.00        0.03091
565744.25    4152074.00        0.03385
         565744.25    4152064.00        0.03640
565744.25    4152054.00        0.03862
         565744.25    4152044.00        0.04043
565744.25    4152034.00        0.04176
         565744.25    4152024.00        0.04286
565744.25    4152014.00        0.04341
         565744.25    4152004.00        0.04343
565744.25    4151994.00        0.04269
         565744.25    4151984.00        0.04151
565744.25    4151974.00        0.04002
         565744.25    4151964.00        0.03858
565744.25    4151954.00        0.03700
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565744.25	4151944.00	0.03526	565744.25	4151934.00	0.03335
565744.25	4151924.00	0.03142	565744.25	4151914.00	0.02949
565744.25	4151904.00	0.02766	565744.25	4151894.00	0.02590
565744.25	4151884.00	0.02421	565744.25	4151874.00	0.02259
565744.25	4151864.00	0.02107	565744.25	4151854.00	0.01964
565744.25	4151844.00	0.01832	565744.25	4151834.00	0.01709
565744.25	4151824.00	0.01596	565744.25	4151814.00	0.01491
565744.25	4151804.00	0.01394	565744.25	4151794.00	0.01305
565744.25	4151784.00	0.01224	565754.25	4152084.00	0.02855
565754.25	4152074.00	0.03100	565754.25	4152064.00	0.03324
565754.25	4152054.00	0.03515	565754.25	4152044.00	0.03670
565754.25	4152034.00	0.03787	565754.25	4152024.00	0.03882
565754.25	4152014.00	0.03933	565754.25	4152004.00	0.03940
565754.25	4151994.00	0.03885	565754.25	4151984.00	0.03793

565754.25 4151974.00 0.03674
565754.25 4151964.00 0.03558
565754.25 4151954.00 0.03426
565754.25 4151944.00 0.03282
565754.25 4151934.00 0.03120
565754.25 4151924.00 0.02951
565754.25 4151914.00 0.02784
565754.25 4151904.00 0.02626
565754.25 4151894.00 0.02473
565754.25 4151884.00 0.02324
565754.25 4151874.00 0.02178
565754.25 4151864.00 0.02040
565754.25 4151854.00 0.01909
565754.25 4151844.00 0.01786
565754.25 4151834.00 0.01671
565754.25 4151824.00 0.01564
565754.25 4151814.00 0.01465
565754.25 4151804.00 0.01373
565754.25 4151794.00 0.01287
565754.25 4151784.00 0.01209
565764.25 4152084.00 0.02634
565764.25 4152074.00 0.02848
565764.25 4152064.00 0.03046
565764.25 4152054.00 0.03221
565764.25 4152044.00 0.03360
565764.25 4152034.00 0.03463
565764.25 4152024.00 0.03538
565764.25 4152014.00 0.03576
565764.25 4152004.00 0.03577
565764.25 4151994.00 0.03538
565764.25 4151984.00 0.03468
565764.25 4151974.00 0.03375
565764.25 4151964.00 0.03280
565764.25 4151954.00 0.03171
565764.25 4151944.00 0.03052
565764.25 4151934.00 0.02916
565764.25 4151924.00 0.02775
565764.25 4151914.00 0.02633
565764.25 4151904.00 0.02495
565764.25 4151894.00 0.02360
565764.25 4151884.00 0.02228
565764.25 4151874.00 0.02097
565764.25 4151864.00 0.01971
565764.25 4151854.00 0.01851
565764.25 4151844.00 0.01738
565764.25 4151834.00 0.01631
565764.25 4151824.00 0.01532
565764.25 4151814.00 0.01438
565764.25 4151804.00 0.01350
565764.25 4151794.00 0.01268
565764.25 4151784.00 0.01192
565564.25 4151974.00 0.13274

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565564.25	4151964.00	0.11595	565564.25	4151954.00	0.09951
565564.25	4151944.00	0.08489	565564.25	4151934.00	0.07259
565564.25	4151924.00	0.06251	565564.25	4151914.00	0.05423
565564.25	4151904.00	0.04739	565564.25	4151894.00	0.04173
565564.25	4151884.00	0.03699	565564.25	4151874.00	0.03300
565564.25	4151864.00	0.02961	565564.25	4151854.00	0.02672
565564.25	4151844.00	0.02421	565564.25	4151834.00	0.02200
565564.25	4151824.00	0.02007	565564.25	4151814.00	0.01840
565564.25	4151804.00	0.01696	565564.25	4151794.00	0.01569
565564.25	4151784.00	0.01454	565554.25	4151974.00	0.11715
565554.25	4151964.00	0.10220	565554.25	4151954.00	0.08856
565554.25	4151944.00	0.07658	565554.25	4151934.00	0.06645
565554.25	4151924.00	0.05794	565554.25	4151914.00	0.05080
565554.25	4151904.00	0.04481	565554.25	4151894.00	0.03974

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         565554.25    4151884.00        0.03544
565554.25    4151874.00        0.03178
         565554.25    4151864.00        0.02864
565554.25    4151854.00        0.02592
         565554.25    4151844.00        0.02357
565554.25    4151834.00        0.02147
         565554.25    4151824.00        0.01962
565554.25    4151814.00        0.01802
         565554.25    4151804.00        0.01664
565554.25    4151794.00        0.01541
         565554.25    4151784.00        0.01430
565544.25    4151974.00        0.10055
         565544.25    4151964.00        0.08825
565544.25    4151954.00        0.07737
         565544.25    4151944.00        0.06791
565544.25    4151934.00        0.05976
         565544.25    4151924.00        0.05277
565544.25    4151914.00        0.04679
         565544.25    4151904.00        0.04166
565544.25    4151894.00        0.03726
         565544.25    4151884.00        0.03347
565544.25    4151874.00        0.03019
         565544.25    4151864.00        0.02735
565544.25    4151854.00        0.02486
         565544.25    4151844.00        0.02266
565544.25    4151834.00        0.02074
         565544.25    4151824.00        0.01904
565544.25    4151814.00        0.01753
         565544.25    4151804.00        0.01620
565544.25    4151794.00        0.01502
         565544.25    4151784.00        0.01395
565534.25    4151974.00        0.08473
         565534.25    4151964.00        0.07514
565534.25    4151954.00        0.06671
         565534.25    4151944.00        0.05934
565534.25    4151934.00        0.05292
         565534.25    4151924.00        0.04731
565534.25    4151914.00        0.04242
         565534.25    4151904.00        0.03816
565534.25    4151894.00        0.03444
         565534.25    4151884.00        0.03118
565534.25    4151874.00        0.02832
         565534.25    4151864.00        0.02581
565534.25    4151854.00        0.02355
         565534.25    4151844.00        0.02157
565534.25    4151834.00        0.01984
         565534.25    4151824.00        0.01830
565534.25    4151814.00        0.01692
         565534.25    4151804.00        0.01566
565534.25    4151794.00        0.01453
         565534.25    4151784.00        0.01352
565524.25    4151974.00        0.07044
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565524.25	4151964.00	0.06326	565524.25	4151954.00	0.05690
565524.25	4151944.00	0.05128	565524.25	4151934.00	0.04631
565524.25	4151924.00	0.04190	565524.25	4151914.00	0.03799
565524.25	4151904.00	0.03452	565524.25	4151894.00	0.03144
565524.25	4151884.00	0.02870	565524.25	4151874.00	0.02627
565524.25	4151864.00	0.02410	565524.25	4151854.00	0.02212
565524.25	4151844.00	0.02037	565524.25	4151834.00	0.01881
565524.25	4151824.00	0.01742	565524.25	4151814.00	0.01615
565524.25	4151804.00	0.01501	565524.25	4151794.00	0.01397
565524.25	4151784.00	0.01304	565514.25	4151974.00	0.05791
565514.25	4151964.00	0.05274	565514.25	4151954.00	0.04809
565514.25	4151944.00	0.04390	565514.25	4151934.00	0.04013
565514.25	4151924.00	0.03673	565514.25	4151914.00	0.03367
565514.25	4151904.00	0.03090	565514.25	4151894.00	0.02840

565514.25 4151884.00 0.02614
565514.25 4151874.00 0.02411
565514.25 4151864.00 0.02226
565514.25 4151854.00 0.02058
565514.25 4151844.00 0.01906
565514.25 4151834.00 0.01768
565514.25 4151824.00 0.01643
565514.25 4151814.00 0.01530
565514.25 4151804.00 0.01428
565514.25 4151794.00 0.01334
565514.25 4151784.00 0.01249
565504.25 4151974.00 0.04717
565504.25 4151964.00 0.04361
565504.25 4151954.00 0.04032
565504.25 4151944.00 0.03728
565504.25 4151934.00 0.03449
565504.25 4151924.00 0.03193
565504.25 4151914.00 0.02957
565504.25 4151904.00 0.02741
565504.25 4151894.00 0.02542
565504.25 4151884.00 0.02359
565504.25 4151874.00 0.02191
565504.25 4151864.00 0.02037
565504.25 4151854.00 0.01896
565504.25 4151844.00 0.01766
565504.25 4151834.00 0.01647
565504.25 4151824.00 0.01539
565504.25 4151814.00 0.01439
565504.25 4151804.00 0.01348
565504.25 4151794.00 0.01265
565504.25 4151784.00 0.01188
565494.25 4151974.00 0.03816
565494.25 4151964.00 0.03583
565494.25 4151954.00 0.03359
565494.25 4151944.00 0.03146
565494.25 4151934.00 0.02945
565494.25 4151924.00 0.02756
565494.25 4151914.00 0.02577
565494.25 4151904.00 0.02410
565494.25 4151894.00 0.02254
565494.25 4151884.00 0.02109
565494.25 4151874.00 0.01974
565494.25 4151864.00 0.01848
565494.25 4151854.00 0.01731
565494.25 4151844.00 0.01623
565494.25 4151834.00 0.01523
565494.25 4151824.00 0.01431
565494.25 4151814.00 0.01345
565494.25 4151804.00 0.01265
565494.25 4151794.00 0.01191
565494.25 4151784.00 0.01123
565484.25 4151974.00 0.03077

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565484.25	4151964.00	0.02932	565484.25	4151954.00	0.02786
565484.25	4151944.00	0.02642	565484.25	4151934.00	0.02502
565484.25	4151924.00	0.02364	565484.25	4151914.00	0.02229
565484.25	4151904.00	0.02103	565484.25	4151894.00	0.01985
565484.25	4151884.00	0.01873	565484.25	4151874.00	0.01767
565484.25	4151864.00	0.01665	565484.25	4151854.00	0.01570
565484.25	4151844.00	0.01481	565484.25	4151834.00	0.01398
565484.25	4151824.00	0.01321	565484.25	4151814.00	0.01248
565484.25	4151804.00	0.01179	565484.25	4151794.00	0.01115
565484.25	4151784.00	0.01055	565474.25	4151974.00	0.02482
565474.25	4151964.00	0.02397	565474.25	4151954.00	0.02306
565474.25	4151944.00	0.02213	565474.25	4151934.00	0.02118
565474.25	4151924.00	0.02021	565474.25	4151914.00	0.01926
565474.25	4151904.00	0.01833	565474.25	4151894.00	0.01743

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         565474.25    4151884.00        0.01657
565474.25    4151874.00        0.01573
         565474.25    4151864.00        0.01493
565474.25    4151854.00        0.01417
         565474.25    4151844.00        0.01344
565474.25    4151834.00        0.01275
         565474.25    4151824.00        0.01210
565474.25    4151814.00        0.01149
         565474.25    4151804.00        0.01091
565474.25    4151794.00        0.01036
         565474.25    4151784.00        0.00984
565464.25    4151974.00        0.02011
         565464.25    4151964.00        0.01964
565464.25    4151954.00        0.01911
         565464.25    4151944.00        0.01853
565464.25    4151934.00        0.01790
         565464.25    4151924.00        0.01725
565464.25    4151914.00        0.01659
         565464.25    4151904.00        0.01593
565464.25    4151894.00        0.01525
         565464.25    4151884.00        0.01459
565464.25    4151874.00        0.01395
         565464.25    4151864.00        0.01333
565464.25    4151854.00        0.01273
         565464.25    4151844.00        0.01214
565464.25    4151834.00        0.01157
         565464.25    4151824.00        0.01103
565464.25    4151814.00        0.01052
         565464.25    4151804.00        0.01004
565464.25    4151794.00        0.00957
         565464.25    4151784.00        0.00914
565454.25    4151974.00        0.01641
         565454.25    4151964.00        0.01618
565454.25    4151954.00        0.01588
         565454.25    4151944.00        0.01553
565454.25    4151934.00        0.01513
         565454.25    4151924.00        0.01471
565454.25    4151914.00        0.01426
         565454.25    4151904.00        0.01379
565454.25    4151894.00        0.01331
         565454.25    4151884.00        0.01282
565454.25    4151874.00        0.01233
         565454.25    4151864.00        0.01185
565454.25    4151854.00        0.01139
         565454.25    4151844.00        0.01092
565454.25    4151834.00        0.01046
         565454.25    4151824.00        0.01002
565454.25    4151814.00        0.00959
         565454.25    4151804.00        0.00920
565454.25    4151794.00        0.00882
         565454.25    4151784.00        0.00845
565444.25    4151974.00        0.01353
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565444.25	4151964.00	0.01344	565444.25	4151954.00	0.01329
565444.25	4151944.00	0.01308	565444.25	4151934.00	0.01283
565444.25	4151924.00	0.01256	565444.25	4151914.00	0.01226
565444.25	4151904.00	0.01194	565444.25	4151894.00	0.01159
565444.25	4151884.00	0.01124	565444.25	4151874.00	0.01088
565444.25	4151864.00	0.01052	565444.25	4151854.00	0.01016
565444.25	4151844.00	0.00979	565444.25	4151834.00	0.00942
565444.25	4151824.00	0.00906	565444.25	4151814.00	0.00872
565444.25	4151804.00	0.00840	565444.25	4151794.00	0.00809
565444.25	4151784.00	0.00780	565434.25	4151974.00	0.01128
565434.25	4151964.00	0.01126	565434.25	4151954.00	0.01119
565434.25	4151944.00	0.01108	565434.25	4151934.00	0.01093
565434.25	4151924.00	0.01076	565434.25	4151914.00	0.01056
565434.25	4151904.00	0.01035	565434.25	4151894.00	0.01011

565434.25 4151884.00 0.00986
565434.25 4151874.00 0.00960
565434.25 4151864.00 0.00933
565434.25 4151854.00 0.00905
565434.25 4151844.00 0.00877
565434.25 4151834.00 0.00847
565434.25 4151824.00 0.00818
565434.25 4151814.00 0.00790
565434.25 4151804.00 0.00765
565434.25 4151794.00 0.00740
565434.25 4151784.00 0.00716
565424.25 4151974.00 0.00951
565424.25 4151964.00 0.00953
565424.25 4151954.00 0.00951
565424.25 4151944.00 0.00945
565424.25 4151934.00 0.00936
565424.25 4151924.00 0.00926
565424.25 4151914.00 0.00914
565424.25 4151904.00 0.00900
565424.25 4151894.00 0.00884
565424.25 4151884.00 0.00867
565424.25 4151874.00 0.00848
565424.25 4151864.00 0.00827
565424.25 4151854.00 0.00806
565424.25 4151844.00 0.00784
565424.25 4151834.00 0.00761
565424.25 4151824.00 0.00738
565424.25 4151814.00 0.00715
565424.25 4151804.00 0.00695
565424.25 4151794.00 0.00675
565424.25 4151784.00 0.00655
565414.25 4151974.00 0.00810
565414.25 4151964.00 0.00814
565414.25 4151954.00 0.00814
565414.25 4151944.00 0.00811
565414.25 4151934.00 0.00807
565414.25 4151924.00 0.00801
565414.25 4151914.00 0.00794
565414.25 4151904.00 0.00785
565414.25 4151894.00 0.00775
565414.25 4151884.00 0.00763
565414.25 4151874.00 0.00750
565414.25 4151864.00 0.00734
565414.25 4151854.00 0.00718
565414.25 4151844.00 0.00701
565414.25 4151834.00 0.00683
565414.25 4151824.00 0.00665
565414.25 4151814.00 0.00647
565414.25 4151804.00 0.00631
565414.25 4151794.00 0.00614
565414.25 4151784.00 0.00597
565404.25 4151974.00 0.00697

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565404.25	4151964.00	0.00700	565404.25	4151954.00	0.00702
565404.25	4151944.00	0.00702	565404.25	4151934.00	0.00701
565404.25	4151924.00	0.00698	565404.25	4151914.00	0.00693
565404.25	4151904.00	0.00688	565404.25	4151894.00	0.00681
565404.25	4151884.00	0.00673	565404.25	4151874.00	0.00664
565404.25	4151864.00	0.00653	565404.25	4151854.00	0.00642
565404.25	4151844.00	0.00629	565404.25	4151834.00	0.00616
565404.25	4151824.00	0.00602	565404.25	4151814.00	0.00587
565404.25	4151804.00	0.00573	565404.25	4151794.00	0.00559
565404.25	4151784.00	0.00545	565394.25	4151974.00	0.00603
565394.25	4151964.00	0.00607	565394.25	4151954.00	0.00610
565394.25	4151944.00	0.00611	565394.25	4151934.00	0.00612
565394.25	4151924.00	0.00611	565394.25	4151914.00	0.00609
565394.25	4151904.00	0.00606	565394.25	4151894.00	0.00601

565394.25 4151884.00 0.00596
565394.25 4151874.00 0.00589
565394.25 4151864.00 0.00582
565394.25 4151854.00 0.00574
565394.25 4151844.00 0.00566
565394.25 4151834.00 0.00555
565394.25 4151824.00 0.00545
565394.25 4151814.00 0.00534
565394.25 4151804.00 0.00522
565394.25 4151794.00 0.00510
565394.25 4151784.00 0.00497
565384.25 4151974.00 0.00527
565384.25 4151964.00 0.00531
565384.25 4151954.00 0.00534
565384.25 4151944.00 0.00536
565384.25 4151934.00 0.00538
565384.25 4151924.00 0.00538
565384.25 4151914.00 0.00538
565384.25 4151904.00 0.00536
565384.25 4151894.00 0.00533
565384.25 4151884.00 0.00529
565384.25 4151874.00 0.00525
565384.25 4151864.00 0.00521
565384.25 4151854.00 0.00515
565384.25 4151844.00 0.00509
565384.25 4151834.00 0.00502
565384.25 4151824.00 0.00494
565384.25 4151814.00 0.00485
565384.25 4151804.00 0.00475
565384.25 4151794.00 0.00465
565384.25 4151784.00 0.00454
565374.25 4151974.00 0.00466
565374.25 4151964.00 0.00468
565374.25 4151954.00 0.00471
565374.25 4151944.00 0.00474
565374.25 4151934.00 0.00475
565374.25 4151924.00 0.00476
565374.25 4151914.00 0.00477
565374.25 4151904.00 0.00476
565374.25 4151894.00 0.00475
565374.25 4151884.00 0.00473
565374.25 4151874.00 0.00470
565374.25 4151864.00 0.00467
565374.25 4151854.00 0.00463
565374.25 4151844.00 0.00458
565374.25 4151834.00 0.00453
565374.25 4151824.00 0.00447
565374.25 4151814.00 0.00441
565374.25 4151804.00 0.00433
565374.25 4151794.00 0.00425
565374.25 4151784.00 0.00416
565364.25 4151974.00 0.00414

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565364.25	4151964.00	0.00416	565364.25	4151954.00	0.00419
565364.25	4151944.00	0.00421	565364.25	4151934.00	0.00423
565364.25	4151924.00	0.00424	565364.25	4151914.00	0.00425
565364.25	4151904.00	0.00425	565364.25	4151894.00	0.00425
565364.25	4151884.00	0.00424	565364.25	4151874.00	0.00423
565364.25	4151864.00	0.00420	565364.25	4151854.00	0.00417
565364.25	4151844.00	0.00413	565364.25	4151834.00	0.00409
565364.25	4151824.00	0.00405	565364.25	4151814.00	0.00401
565364.25	4151804.00	0.00395	565364.25	4151794.00	0.00388
565364.25	4151784.00	0.00382	565354.25	4151974.00	0.00371
565354.25	4151964.00	0.00373	565354.25	4151954.00	0.00374
565354.25	4151944.00	0.00376	565354.25	4151934.00	0.00378
565354.25	4151924.00	0.00379	565354.25	4151914.00	0.00380
565354.25	4151904.00	0.00381	565354.25	4151894.00	0.00382

565354.25 4151884.00 0.00382
565354.25 4151874.00 0.00381
565354.25 4151864.00 0.00379
565354.25 4151854.00 0.00377
565354.25 4151844.00 0.00374
565354.25 4151834.00 0.00371
565354.25 4151824.00 0.00368
565354.25 4151814.00 0.00364
565354.25 4151804.00 0.00360
565354.25 4151794.00 0.00355
565354.25 4151784.00 0.00350
565344.25 4151974.00 0.00335
565344.25 4151964.00 0.00336
565344.25 4151954.00 0.00337
565344.25 4151944.00 0.00338
565344.25 4151934.00 0.00339
565344.25 4151924.00 0.00341
565344.25 4151914.00 0.00343
565344.25 4151904.00 0.00344
565344.25 4151894.00 0.00344
565344.25 4151884.00 0.00344
565344.25 4151874.00 0.00344
565344.25 4151864.00 0.00343
565344.25 4151854.00 0.00342
565344.25 4151844.00 0.00340
565344.25 4151834.00 0.00337
565344.25 4151824.00 0.00335
565344.25 4151814.00 0.00331
565344.25 4151804.00 0.00328
565344.25 4151794.00 0.00325
565344.25 4151784.00 0.00321
565334.25 4151974.00 0.00303
565334.25 4151964.00 0.00304
565334.25 4151954.00 0.00305
565334.25 4151944.00 0.00305
565334.25 4151934.00 0.00307
565334.25 4151924.00 0.00308
565334.25 4151914.00 0.00310
565334.25 4151904.00 0.00311
565334.25 4151894.00 0.00311
565334.25 4151884.00 0.00312
565334.25 4151874.00 0.00312
565334.25 4151864.00 0.00311
565334.25 4151854.00 0.00311
565334.25 4151844.00 0.00310
565334.25 4151834.00 0.00308
565334.25 4151824.00 0.00305
565334.25 4151814.00 0.00303
565334.25 4151804.00 0.00300
565334.25 4151794.00 0.00298
565334.25 4151784.00 0.00295
565324.25 4151974.00 0.00275

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565324.25	4151964.00	0.00276	565324.25	4151954.00	0.00277
565324.25	4151944.00	0.00278	565324.25	4151934.00	0.00278
565324.25	4151924.00	0.00279	565324.25	4151914.00	0.00280
565324.25	4151904.00	0.00281	565324.25	4151894.00	0.00282
565324.25	4151884.00	0.00283	565324.25	4151874.00	0.00283
565324.25	4151864.00	0.00283	565324.25	4151854.00	0.00283
565324.25	4151844.00	0.00282	565324.25	4151834.00	0.00281
565324.25	4151824.00	0.00280	565324.25	4151814.00	0.00278
565324.25	4151804.00	0.00276	565324.25	4151794.00	0.00274
565324.25	4151784.00	0.00272	565314.25	4151974.00	0.00251
565314.25	4151964.00	0.00252	565314.25	4151954.00	0.00253
565314.25	4151944.00	0.00253	565314.25	4151934.00	0.00254
565314.25	4151924.00	0.00254	565314.25	4151914.00	0.00255
565314.25	4151904.00	0.00256	565314.25	4151894.00	0.00257

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         565314.25    4151884.00        0.00258
565314.25    4151874.00        0.00259
         565314.25    4151864.00        0.00259
565314.25    4151854.00        0.00259
         565314.25    4151844.00        0.00258
565314.25    4151834.00        0.00257
         565314.25    4151824.00        0.00257
565314.25    4151814.00        0.00255
         565314.25    4151804.00        0.00254
565314.25    4151794.00        0.00253
         565314.25    4151784.00        0.00251
565304.25    4151974.00        0.00231
         565304.25    4151964.00        0.00231
565304.25    4151954.00        0.00231
         565304.25    4151944.00        0.00232
565304.25    4151934.00        0.00232
         565304.25    4151924.00        0.00233
565304.25    4151914.00        0.00233
         565304.25    4151904.00        0.00234
565304.25    4151894.00        0.00235
         565304.25    4151884.00        0.00236
565304.25    4151874.00        0.00236
         565304.25    4151864.00        0.00237
565304.25    4151854.00        0.00237
         565304.25    4151844.00        0.00237
565304.25    4151834.00        0.00236
         565304.25    4151824.00        0.00236
565304.25    4151814.00        0.00235
         565304.25    4151804.00        0.00234
565304.25    4151794.00        0.00233
         565304.25    4151784.00        0.00231
565294.25    4151974.00        0.00213
         565294.25    4151964.00        0.00213
565294.25    4151954.00        0.00213
         565294.25    4151944.00        0.00213
565294.25    4151934.00        0.00213
         565294.25    4151924.00        0.00214
565294.25    4151914.00        0.00214
         565294.25    4151904.00        0.00215
565294.25    4151894.00        0.00215
         565294.25    4151884.00        0.00216
565294.25    4151874.00        0.00216
         565294.25    4151864.00        0.00217
565294.25    4151854.00        0.00217
         565294.25    4151844.00        0.00218
565294.25    4151834.00        0.00218
         565294.25    4151824.00        0.00217
565294.25    4151814.00        0.00217
         565294.25    4151804.00        0.00216
565294.25    4151794.00        0.00215
         565294.25    4151784.00        0.00214
565284.25    4151974.00        0.00196
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565284.25	4151964.00	0.00196	565284.25	4151954.00	0.00196
565284.25	4151944.00	0.00196	565284.25	4151934.00	0.00197
565284.25	4151924.00	0.00197	565284.25	4151914.00	0.00198
565284.25	4151904.00	0.00198	565284.25	4151894.00	0.00198
565284.25	4151884.00	0.00199	565284.25	4151874.00	0.00199
565284.25	4151864.00	0.00200	565284.25	4151854.00	0.00200
565284.25	4151844.00	0.00200	565284.25	4151834.00	0.00201
565284.25	4151824.00	0.00201	565284.25	4151814.00	0.00200
565284.25	4151804.00	0.00200	565284.25	4151794.00	0.00199
565284.25	4151784.00	0.00198	565274.25	4151974.00	0.00182
565274.25	4151964.00	0.00182	565274.25	4151954.00	0.00182
565274.25	4151944.00	0.00182	565274.25	4151934.00	0.00182
565274.25	4151924.00	0.00182	565274.25	4151914.00	0.00183
565274.25	4151904.00	0.00183	565274.25	4151894.00	0.00183

565274.25 4151884.00 0.00183
565274.25 4151874.00 0.00184
565274.25 4151864.00 0.00184
565274.25 4151854.00 0.00185
565274.25 4151844.00 0.00185
565274.25 4151834.00 0.00185
565274.25 4151824.00 0.00185
565274.25 4151814.00 0.00185
565274.25 4151804.00 0.00185
565274.25 4151794.00 0.00185
565274.25 4151784.00 0.00184
565264.25 4151974.00 0.00168
565264.25 4151964.00 0.00168
565264.25 4151954.00 0.00169
565264.25 4151944.00 0.00169
565264.25 4151934.00 0.00169
565264.25 4151924.00 0.00169
565264.25 4151914.00 0.00169
565264.25 4151904.00 0.00169
565264.25 4151894.00 0.00170
565264.25 4151884.00 0.00170
565264.25 4151874.00 0.00170
565264.25 4151864.00 0.00171
565264.25 4151854.00 0.00171
565264.25 4151844.00 0.00171
565264.25 4151834.00 0.00172
565264.25 4151824.00 0.00172
565264.25 4151814.00 0.00172
565264.25 4151804.00 0.00172
565264.25 4151794.00 0.00172
565264.25 4151784.00 0.00172
565454.25 4151984.00 0.01656
565454.25 4151994.00 0.01659
565454.25 4152004.00 0.01649
565454.25 4152014.00 0.01630
565454.25 4152024.00 0.01599
565454.25 4152034.00 0.01558
565454.25 4152044.00 0.01510
565454.25 4152054.00 0.01458
565454.25 4152064.00 0.01406
565454.25 4152074.00 0.01357
565454.25 4152084.00 0.01316
565454.25 4152094.00 0.01290
565454.25 4152104.00 0.01276
565454.25 4152114.00 0.01267
565454.25 4152124.00 0.01257
565454.25 4152134.00 0.01242
565454.25 4152144.00 0.01220
565454.25 4152154.00 0.01190
565454.25 4152164.00 0.01154
565454.25 4152174.00 0.01112
565454.25 4152184.00 0.01065

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565454.25	4152194.00	0.01014	565454.25	4152204.00	0.00960
565454.25	4152214.00	0.00904	565454.25	4152224.00	0.00850
565454.25	4152234.00	0.00797	565454.25	4152244.00	0.00746
565454.25	4152254.00	0.00698	565454.25	4152264.00	0.00652
565454.25	4152274.00	0.00610	565454.25	4152284.00	0.00570
565444.25	4151984.00	0.01356	565444.25	4151994.00	0.01352
565444.25	4152004.00	0.01339	565444.25	4152014.00	0.01320
565444.25	4152024.00	0.01295	565444.25	4152034.00	0.01264
565444.25	4152044.00	0.01230	565444.25	4152054.00	0.01194
565444.25	4152064.00	0.01157	565444.25	4152074.00	0.01122
565444.25	4152084.00	0.01093	565444.25	4152094.00	0.01073
565444.25	4152104.00	0.01064	565444.25	4152114.00	0.01061
565444.25	4152124.00	0.01061	565444.25	4152134.00	0.01059
565444.25	4152144.00	0.01052	565444.25	4152154.00	0.01039

565444.25 4152164.00 0.01019
565444.25 4152174.00 0.00993
565444.25 4152184.00 0.00962
565444.25 4152194.00 0.00925
565444.25 4152204.00 0.00886
565444.25 4152214.00 0.00843
565444.25 4152224.00 0.00799
565444.25 4152234.00 0.00755
565444.25 4152244.00 0.00711
565444.25 4152254.00 0.00669
565444.25 4152264.00 0.00629
565444.25 4152274.00 0.00591
565444.25 4152284.00 0.00555
565434.25 4151984.00 0.01126
565434.25 4151994.00 0.01118
565434.25 4152004.00 0.01106
565434.25 4152014.00 0.01089
565434.25 4152024.00 0.01069
565434.25 4152034.00 0.01047
565434.25 4152044.00 0.01022
565434.25 4152054.00 0.00996
565434.25 4152064.00 0.00969
565434.25 4152074.00 0.00943
565434.25 4152084.00 0.00921
565434.25 4152094.00 0.00906
565434.25 4152104.00 0.00899
565434.25 4152114.00 0.00898
565434.25 4152124.00 0.00902
565434.25 4152134.00 0.00906
565434.25 4152144.00 0.00908
565434.25 4152154.00 0.00905
565434.25 4152164.00 0.00897
565434.25 4152174.00 0.00884
565434.25 4152184.00 0.00865
565434.25 4152194.00 0.00841
565434.25 4152204.00 0.00813
565434.25 4152214.00 0.00781
565434.25 4152224.00 0.00747
565434.25 4152234.00 0.00711
565434.25 4152244.00 0.00675
565434.25 4152254.00 0.00639
565434.25 4152264.00 0.00605
565434.25 4152274.00 0.00571
565434.25 4152284.00 0.00538
565424.25 4151984.00 0.00946
565424.25 4151994.00 0.00938
565424.25 4152004.00 0.00927
565424.25 4152014.00 0.00914
565424.25 4152024.00 0.00899
565424.25 4152034.00 0.00882
565424.25 4152044.00 0.00863
565424.25 4152054.00 0.00844

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565424.25	4152064.00	0.00823	565424.25	4152074.00	0.00804
565424.25	4152084.00	0.00787	565424.25	4152094.00	0.00774
565424.25	4152104.00	0.00768	565424.25	4152114.00	0.00768
565424.25	4152124.00	0.00773	565424.25	4152134.00	0.00779
565424.25	4152144.00	0.00785	565424.25	4152154.00	0.00789
565424.25	4152164.00	0.00789	565424.25	4152174.00	0.00784
565424.25	4152184.00	0.00775	565424.25	4152194.00	0.00760
565424.25	4152204.00	0.00742	565424.25	4152214.00	0.00720
565424.25	4152224.00	0.00694	565424.25	4152234.00	0.00666
565424.25	4152244.00	0.00637	565424.25	4152254.00	0.00608
565424.25	4152264.00	0.00578	565424.25	4152274.00	0.00549
565424.25	4152284.00	0.00520	565414.25	4151984.00	0.00805
565414.25	4151994.00	0.00798	565414.25	4152004.00	0.00788
565414.25	4152014.00	0.00778	565414.25	4152024.00	0.00766

565414.25 4152034.00 0.00753
565414.25 4152044.00 0.00739
565414.25 4152054.00 0.00724
565414.25 4152064.00 0.00708
565414.25 4152074.00 0.00693
565414.25 4152084.00 0.00680
565414.25 4152094.00 0.00669
565414.25 4152104.00 0.00664
565414.25 4152114.00 0.00664
565414.25 4152124.00 0.00668
565414.25 4152134.00 0.00675
565414.25 4152144.00 0.00683
565414.25 4152154.00 0.00689
565414.25 4152164.00 0.00694
565414.25 4152174.00 0.00695
565414.25 4152184.00 0.00692
565414.25 4152194.00 0.00686
565414.25 4152204.00 0.00675
565414.25 4152214.00 0.00660
565414.25 4152224.00 0.00642
565414.25 4152234.00 0.00622
565414.25 4152244.00 0.00599
565414.25 4152254.00 0.00575
565414.25 4152264.00 0.00550
565414.25 4152274.00 0.00525
565414.25 4152284.00 0.00500
565404.25 4151984.00 0.00691
565404.25 4151994.00 0.00684
565404.25 4152004.00 0.00678
565404.25 4152014.00 0.00671
565404.25 4152024.00 0.00661
565404.25 4152034.00 0.00651
565404.25 4152044.00 0.00640
565404.25 4152054.00 0.00629
565404.25 4152064.00 0.00616
565404.25 4152074.00 0.00604
565404.25 4152084.00 0.00593
565404.25 4152094.00 0.00584
565404.25 4152104.00 0.00580
565404.25 4152114.00 0.00579
565404.25 4152124.00 0.00582
565404.25 4152134.00 0.00588
565404.25 4152144.00 0.00596
565404.25 4152154.00 0.00604
565404.25 4152164.00 0.00612
565404.25 4152174.00 0.00616
565404.25 4152184.00 0.00618
565404.25 4152194.00 0.00617
565404.25 4152204.00 0.00612
565404.25 4152214.00 0.00603
565404.25 4152224.00 0.00592
565404.25 4152234.00 0.00577

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565404.25	4152244.00	0.00560	565404.25	4152254.00	0.00542
565404.25	4152264.00	0.00522	565404.25	4152274.00	0.00501
565404.25	4152284.00	0.00479	565394.25	4151984.00	0.00599
565394.25	4151994.00	0.00594	565394.25	4152004.00	0.00589
565394.25	4152014.00	0.00584	565394.25	4152024.00	0.00577
565394.25	4152034.00	0.00569	565394.25	4152044.00	0.00560
565394.25	4152054.00	0.00551	565394.25	4152064.00	0.00541
565394.25	4152074.00	0.00531	565394.25	4152084.00	0.00522
565394.25	4152094.00	0.00515	565394.25	4152104.00	0.00510
565394.25	4152114.00	0.00509	565394.25	4152124.00	0.00511
565394.25	4152134.00	0.00517	565394.25	4152144.00	0.00524
565394.25	4152154.00	0.00532	565394.25	4152164.00	0.00540
565394.25	4152174.00	0.00547	565394.25	4152184.00	0.00552
565394.25	4152194.00	0.00554	565394.25	4152204.00	0.00553

565394.25 4152214.00 0.00550
565394.25 4152224.00 0.00543
565394.25 4152234.00 0.00533
565394.25 4152244.00 0.00521
565394.25 4152254.00 0.00508
565394.25 4152264.00 0.00492
565394.25 4152274.00 0.00475
565394.25 4152284.00 0.00458
565384.25 4151984.00 0.00524
565384.25 4151994.00 0.00520
565384.25 4152004.00 0.00517
565384.25 4152014.00 0.00513
565384.25 4152024.00 0.00508
565384.25 4152034.00 0.00501
565384.25 4152044.00 0.00494
565384.25 4152054.00 0.00487
565384.25 4152064.00 0.00479
565384.25 4152074.00 0.00470
565384.25 4152084.00 0.00463
565384.25 4152094.00 0.00457
565384.25 4152104.00 0.00453
565384.25 4152114.00 0.00451
565384.25 4152124.00 0.00453
565384.25 4152134.00 0.00457
565384.25 4152144.00 0.00463
565384.25 4152154.00 0.00470
565384.25 4152164.00 0.00479
565384.25 4152174.00 0.00487
565384.25 4152184.00 0.00493
565384.25 4152194.00 0.00498
565384.25 4152204.00 0.00500
565384.25 4152214.00 0.00500
565384.25 4152224.00 0.00497
565384.25 4152234.00 0.00491
565384.25 4152244.00 0.00484
565384.25 4152254.00 0.00474
565384.25 4152264.00 0.00463
565384.25 4152274.00 0.00449
565384.25 4152284.00 0.00435
565374.25 4151984.00 0.00463
565374.25 4151994.00 0.00460
565374.25 4152004.00 0.00458
565374.25 4152014.00 0.00455
565374.25 4152024.00 0.00450
565374.25 4152034.00 0.00445
565374.25 4152044.00 0.00440
565374.25 4152054.00 0.00433
565374.25 4152064.00 0.00427
565374.25 4152074.00 0.00420
565374.25 4152084.00 0.00413
565374.25 4152094.00 0.00408
565374.25 4152104.00 0.00404

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565374.25	4152114.00	0.00403	565374.25	4152124.00	0.00404
565374.25	4152134.00	0.00407	565374.25	4152144.00	0.00412
565374.25	4152154.00	0.00419	565374.25	4152164.00	0.00427
565374.25	4152174.00	0.00434	565374.25	4152184.00	0.00441
565374.25	4152194.00	0.00447	565374.25	4152204.00	0.00452
565374.25	4152214.00	0.00454	565374.25	4152224.00	0.00454
565374.25	4152234.00	0.00452	565374.25	4152244.00	0.00447
565374.25	4152254.00	0.00441	565374.25	4152264.00	0.00433
565374.25	4152274.00	0.00421	565374.25	4152284.00	0.00410
565364.25	4151984.00	0.00412	565364.25	4151994.00	0.00410
565364.25	4152004.00	0.00409	565364.25	4152014.00	0.00406
565364.25	4152024.00	0.00402	565364.25	4152034.00	0.00398
565364.25	4152044.00	0.00393	565364.25	4152054.00	0.00388
565364.25	4152064.00	0.00383	565364.25	4152074.00	0.00377

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         565364.25    4152084.00         0.00371
565364.25    4152094.00         0.00367
         565364.25    4152104.00         0.00363
565364.25    4152114.00         0.00362
         565364.25    4152124.00         0.00362
565364.25    4152134.00         0.00364
         565364.25    4152144.00         0.00369
565364.25    4152154.00         0.00375
         565364.25    4152164.00         0.00381
565364.25    4152174.00         0.00389
         565364.25    4152184.00         0.00396
565364.25    4152194.00         0.00403
         565364.25    4152204.00         0.00408
565364.25    4152214.00         0.00412
         565364.25    4152224.00         0.00414
565364.25    4152234.00         0.00414
         565364.25    4152244.00         0.00413
565364.25    4152254.00         0.00409
         565364.25    4152264.00         0.00402
565364.25    4152274.00         0.00393
         565364.25    4152284.00         0.00385
565354.25    4151984.00         0.00370
         565354.25    4151994.00         0.00368
565354.25    4152004.00         0.00367
         565354.25    4152014.00         0.00364
565354.25    4152024.00         0.00361
         565354.25    4152034.00         0.00358
565354.25    4152044.00         0.00354
         565354.25    4152054.00         0.00350
565354.25    4152064.00         0.00345
         565354.25    4152074.00         0.00340
565354.25    4152084.00         0.00335
         565354.25    4152094.00         0.00331
565354.25    4152104.00         0.00328
         565354.25    4152114.00         0.00327
565354.25    4152124.00         0.00327
         565354.25    4152134.00         0.00328
565354.25    4152144.00         0.00332
         565354.25    4152154.00         0.00337
565354.25    4152164.00         0.00343
         565354.25    4152174.00         0.00349
565354.25    4152184.00         0.00356
         565354.25    4152194.00         0.00363
565354.25    4152204.00         0.00369
         565354.25    4152214.00         0.00374
565354.25    4152224.00         0.00378
         565354.25    4152234.00         0.00380
565354.25    4152244.00         0.00380
         565354.25    4152254.00         0.00379
565354.25    4152264.00         0.00376
         565354.25    4152274.00         0.00370
565354.25    4152284.00         0.00364
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565344.25	4151984.00	0.00334	565344.25	4151994.00	0.00333
565344.25	4152004.00	0.00331	565344.25	4152014.00	0.00329
565344.25	4152024.00	0.00327	565344.25	4152034.00	0.00324
565344.25	4152044.00	0.00321	565344.25	4152054.00	0.00317
565344.25	4152064.00	0.00313	565344.25	4152074.00	0.00309
565344.25	4152084.00	0.00305	565344.25	4152094.00	0.00301
565344.25	4152104.00	0.00298	565344.25	4152114.00	0.00297
565344.25	4152124.00	0.00296	565344.25	4152134.00	0.00297
565344.25	4152144.00	0.00300	565344.25	4152154.00	0.00304
565344.25	4152164.00	0.00309	565344.25	4152174.00	0.00315
565344.25	4152184.00	0.00322	565344.25	4152194.00	0.00328
565344.25	4152204.00	0.00334	565344.25	4152214.00	0.00340
565344.25	4152224.00	0.00344	565344.25	4152234.00	0.00348
565344.25	4152244.00	0.00349	565344.25	4152254.00	0.00350

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         565344.25    4152264.00        0.00348
565344.25    4152274.00        0.00346
         565344.25    4152284.00        0.00342
565334.25    4151984.00        0.00302
         565334.25    4151994.00        0.00302
565334.25    4152004.00        0.00300
         565334.25    4152014.00        0.00299
565334.25    4152024.00        0.00297
         565334.25    4152034.00        0.00294
565334.25    4152044.00        0.00291
         565334.25    4152054.00        0.00288
565334.25    4152064.00        0.00285
         565334.25    4152074.00        0.00281
565334.25    4152084.00        0.00278
         565334.25    4152094.00        0.00275
565334.25    4152104.00        0.00272
         565334.25    4152114.00        0.00270
565334.25    4152124.00        0.00269
         565334.25    4152134.00        0.00270
565334.25    4152144.00        0.00273
         565334.25    4152154.00        0.00276
565334.25    4152164.00        0.00280
         565334.25    4152174.00        0.00286
565334.25    4152184.00        0.00291
         565334.25    4152194.00        0.00297
565334.25    4152204.00        0.00303
         565334.25    4152214.00        0.00309
565334.25    4152224.00        0.00314
         565334.25    4152234.00        0.00318
565334.25    4152244.00        0.00321
         565334.25    4152254.00        0.00322
565334.25    4152264.00        0.00321
         565334.25    4152274.00        0.00318
565334.25    4152284.00        0.00317
         565324.25    4151984.00        0.00275
565324.25    4151994.00        0.00274
         565324.25    4152004.00        0.00273
565324.25    4152014.00        0.00272
         565324.25    4152024.00        0.00270
565324.25    4152034.00        0.00268
         565324.25    4152044.00        0.00266
565324.25    4152054.00        0.00263
         565324.25    4152064.00        0.00260
565324.25    4152074.00        0.00257
         565324.25    4152084.00        0.00254
565324.25    4152094.00        0.00251
         565324.25    4152104.00        0.00249
565324.25    4152114.00        0.00247
         565324.25    4152124.00        0.00246
565324.25    4152134.00        0.00247
         565324.25    4152144.00        0.00249
565324.25    4152154.00        0.00252
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565324.25	4152164.00	0.00255	565324.25	4152174.00	0.00260
565324.25	4152184.00	0.00265	565324.25	4152194.00	0.00271
565324.25	4152204.00	0.00276	565324.25	4152214.00	0.00282
565324.25	4152224.00	0.00287	565324.25	4152234.00	0.00291
565324.25	4152244.00	0.00295	565324.25	4152254.00	0.00297
565324.25	4152264.00	0.00296	565324.25	4152274.00	0.00294
565324.25	4152284.00	0.00294	565314.25	4151984.00	0.00251
565314.25	4151994.00	0.00251	565314.25	4152004.00	0.00250
565314.25	4152014.00	0.00249	565314.25	4152024.00	0.00247
565314.25	4152034.00	0.00246	565314.25	4152044.00	0.00244
565314.25	4152054.00	0.00242	565314.25	4152064.00	0.00239
565314.25	4152074.00	0.00236	565314.25	4152084.00	0.00234
565314.25	4152094.00	0.00231	565314.25	4152104.00	0.00229
565314.25	4152114.00	0.00227	565314.25	4152124.00	0.00227

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         565314.25    4152134.00        0.00227
565314.25    4152144.00        0.00228
         565314.25    4152154.00        0.00230
565314.25    4152164.00        0.00233
         565314.25    4152174.00        0.00237
565314.25    4152184.00        0.00242
         565314.25    4152194.00        0.00247
565314.25    4152204.00        0.00252
         565314.25    4152214.00        0.00257
565314.25    4152224.00        0.00262
         565314.25    4152234.00        0.00267
565314.25    4152244.00        0.00271
         565314.25    4152254.00        0.00273
565314.25    4152264.00        0.00273
         565314.25    4152274.00        0.00271
565314.25    4152284.00        0.00273
         565304.25    4151984.00        0.00230
565304.25    4151994.00        0.00230
         565304.25    4152004.00        0.00229
565304.25    4152014.00        0.00228
         565304.25    4152024.00        0.00227
565304.25    4152034.00        0.00226
         565304.25    4152044.00        0.00225
565304.25    4152054.00        0.00223
         565304.25    4152064.00        0.00220
565304.25    4152074.00        0.00218
         565304.25    4152084.00        0.00215
565304.25    4152094.00        0.00213
         565304.25    4152104.00        0.00211
565304.25    4152114.00        0.00210
         565304.25    4152124.00        0.00209
565304.25    4152134.00        0.00209
         565304.25    4152144.00        0.00210
565304.25    4152154.00        0.00212
         565304.25    4152164.00        0.00214
565304.25    4152174.00        0.00217
         565304.25    4152184.00        0.00221
565304.25    4152194.00        0.00226
         565304.25    4152204.00        0.00231
565304.25    4152214.00        0.00236
         565304.25    4152224.00        0.00240
565304.25    4152234.00        0.00245
         565304.25    4152244.00        0.00249
565304.25    4152254.00        0.00252
         565304.25    4152264.00        0.00253
565304.25    4152274.00        0.00253
         565304.25    4152284.00        0.00255
565294.25    4151984.00        0.00212
         565294.25    4151994.00        0.00212
565294.25    4152004.00        0.00211
         565294.25    4152014.00        0.00211
565294.25    4152024.00        0.00210
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565294.25	4152034.00	0.00209	565294.25	4152044.00	0.00207
565294.25	4152054.00	0.00206	565294.25	4152064.00	0.00204
565294.25	4152074.00	0.00201	565294.25	4152084.00	0.00199
565294.25	4152094.00	0.00197	565294.25	4152104.00	0.00195
565294.25	4152114.00	0.00194	565294.25	4152124.00	0.00194
565294.25	4152134.00	0.00193	565294.25	4152144.00	0.00194
565294.25	4152154.00	0.00195	565294.25	4152164.00	0.00197
565294.25	4152174.00	0.00200	565294.25	4152184.00	0.00203
565294.25	4152194.00	0.00207	565294.25	4152204.00	0.00212
565294.25	4152214.00	0.00216	565294.25	4152224.00	0.00221
565294.25	4152234.00	0.00225	565294.25	4152244.00	0.00230
565294.25	4152254.00	0.00233	565294.25	4152264.00	0.00236
565294.25	4152274.00	0.00238	565294.25	4152284.00	0.00240
565284.25	4151984.00	0.00196	565284.25	4151994.00	0.00195

565284.25 4152004.00 0.00195
565284.25 4152014.00 0.00195
565284.25 4152024.00 0.00194
565284.25 4152034.00 0.00193
565284.25 4152044.00 0.00192
565284.25 4152054.00 0.00190
565284.25 4152064.00 0.00189
565284.25 4152074.00 0.00187
565284.25 4152084.00 0.00185
565284.25 4152094.00 0.00183
565284.25 4152104.00 0.00181
565284.25 4152114.00 0.00180
565284.25 4152124.00 0.00180
565284.25 4152134.00 0.00179
565284.25 4152144.00 0.00180
565284.25 4152154.00 0.00181
565284.25 4152164.00 0.00182
565284.25 4152174.00 0.00185
565284.25 4152184.00 0.00187
565284.25 4152194.00 0.00191
565284.25 4152204.00 0.00195
565284.25 4152214.00 0.00199
565284.25 4152224.00 0.00203
565284.25 4152234.00 0.00208
565284.25 4152244.00 0.00212
565284.25 4152254.00 0.00216
565284.25 4152264.00 0.00219
565284.25 4152274.00 0.00222
565284.25 4152284.00 0.00225
565274.25 4151984.00 0.00181
565274.25 4151994.00 0.00181
565274.25 4152004.00 0.00181
565274.25 4152014.00 0.00181
565274.25 4152024.00 0.00180
565274.25 4152034.00 0.00180
565274.25 4152044.00 0.00178
565274.25 4152054.00 0.00177
565274.25 4152064.00 0.00175
565274.25 4152074.00 0.00174
565274.25 4152084.00 0.00172
565274.25 4152094.00 0.00170
565274.25 4152104.00 0.00169
565274.25 4152114.00 0.00168
565274.25 4152124.00 0.00167
565274.25 4152134.00 0.00167
565274.25 4152144.00 0.00167
565274.25 4152154.00 0.00168
565274.25 4152164.00 0.00169
565274.25 4152174.00 0.00171
565274.25 4152184.00 0.00173
565274.25 4152194.00 0.00176
565274.25 4152204.00 0.00180

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565274.25	4152214.00	0.00184	565274.25	4152224.00	0.00188
565274.25	4152234.00	0.00192	565274.25	4152244.00	0.00196
565274.25	4152254.00	0.00199	565274.25	4152264.00	0.00203
565274.25	4152274.00	0.00206	565274.25	4152284.00	0.00209
565264.25	4151984.00	0.00169	565264.25	4151994.00	0.00169
565264.25	4152004.00	0.00169	565264.25	4152014.00	0.00169
565264.25	4152024.00	0.00168	565264.25	4152034.00	0.00167
565264.25	4152044.00	0.00166	565264.25	4152054.00	0.00165
565264.25	4152064.00	0.00163	565264.25	4152074.00	0.00162
565264.25	4152084.00	0.00160	565264.25	4152094.00	0.00159
565264.25	4152104.00	0.00158	565264.25	4152114.00	0.00157
565264.25	4152124.00	0.00156	565264.25	4152134.00	0.00155
565264.25	4152144.00	0.00155	565264.25	4152154.00	0.00156
565264.25	4152164.00	0.00157	565264.25	4152174.00	0.00159

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         565264.25    4152184.00        0.00161
565264.25    4152194.00        0.00163
         565264.25    4152204.00        0.00166
565264.25    4152214.00        0.00169
         565264.25    4152224.00        0.00173
565264.25    4152234.00        0.00177
         565264.25    4152244.00        0.00181
565264.25    4152254.00        0.00185
         565264.25    4152264.00        0.00188
565264.25    4152274.00        0.00191
         565264.25    4152284.00        0.00194
565264.25    4152367.25        0.00200
         565264.25    4152450.75        0.00175
565264.25    4152534.00        0.00139
         565358.00    4152367.25        0.00288
565358.00    4152450.75        0.00206
         565358.00    4152534.00        0.00151
565451.75    4152367.25        0.00341
         565451.75    4152450.75        0.00226
565451.75    4152534.00        0.00161
         565545.50    4152367.25        0.00342
565545.50    4152450.75        0.00218
         565545.50    4152534.00        0.00153
565639.25    4152367.25        0.00299
         565639.25    4152450.75        0.00200
565639.25    4152534.00        0.00142
         565733.00    4152367.25        0.00227
565733.00    4152450.75        0.00170
         565733.00    4152534.00        0.00130
565826.75    4152367.25        0.00159
         565826.75    4152450.75        0.00122
565826.75    4152534.00        0.00103
         565920.50    4152367.25        0.00138
565920.50    4152450.75        0.00094
         565920.50    4152534.00        0.00076
566014.25    4152367.25        0.00134
         566014.25    4152450.75        0.00087
566014.25    4152534.00        0.00063
         565847.56    4152284.00        0.00258
565847.56    4152190.25        0.00617
         565847.56    4152096.50        0.01365
565847.56    4152002.75        0.01893
         565847.56    4151909.00        0.01639
565847.56    4151815.25        0.01175
         565847.56    4151721.50        0.00773
565847.56    4151627.75        0.00509
         565847.56    4151534.00        0.00352
565930.94    4152284.00        0.00242
         565930.94    4152190.25        0.00498
565930.94    4152096.50        0.00903
         565930.94    4152002.75        0.01165
565930.94    4151909.00        0.01095
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565930.94	4151815.25	0.00899	565930.94	4151721.50	0.00679
565930.94	4151627.75	0.00487	565930.94	4151534.00	0.00348
566014.25	4152284.00	0.00223	566014.25	4152190.25	0.00398
566014.25	4152096.50	0.00634	566014.25	4152002.75	0.00787
566014.25	4151909.00	0.00772	566014.25	4151815.25	0.00682
566014.25	4151721.50	0.00567	566014.25	4151627.75	0.00444
566014.25	4151534.00	0.00338	565764.25	4151700.75	0.00748
565764.25	4151617.25	0.00507	565764.25	4151534.00	0.00365
565670.50	4151700.75	0.00815	565670.50	4151617.25	0.00536
565670.50	4151534.00	0.00378	565576.75	4151700.75	0.00845
565576.75	4151617.25	0.00546	565576.75	4151534.00	0.00379
565483.00	4151700.75	0.00692	565483.00	4151617.25	0.00477
565483.00	4151534.00	0.00347	565389.25	4151700.75	0.00393
565389.25	4151617.25	0.00321	565389.25	4151534.00	0.00260

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         565295.50    4151700.75        0.00201
565295.50    4151617.25        0.00185
         565295.50    4151534.00        0.00161
565201.75    4151700.75        0.00111
         565201.75    4151617.25        0.00107
565201.75    4151534.00        0.00100
         565108.00    4151700.75        0.00069
565108.00    4151617.25        0.00069
         565108.00    4151534.00        0.00066
565014.25    4151700.75        0.00044
         565014.25    4151617.25        0.00044
565014.25    4151534.00        0.00046
         565180.94    4151784.00        0.00100
565180.94    4151877.75        0.00098
         565180.94    4151971.50        0.00100
565180.94    4152065.25        0.00098
         565180.94    4152159.00        0.00094
565180.94    4152252.75        0.00104
         565180.94    4152346.50        0.00124
565180.94    4152440.25        0.00131
         565180.94    4152534.00        0.00120
565097.56    4151784.00        0.00063
         565097.56    4151877.75        0.00064
565097.56    4151971.50        0.00066
         565097.56    4152065.25        0.00066
565097.56    4152159.00        0.00063
         565097.56    4152252.75        0.00067
565097.56    4152346.50        0.00078
         565097.56    4152440.25        0.00090
565097.56    4152534.00        0.00093
         565014.25    4151784.00        0.00044
565014.25    4151877.75        0.00042
         565014.25    4151971.50        0.00048
565014.25    4152065.25        0.00047
         565014.25    4152159.00        0.00046
565014.25    4152252.75        0.00047
         565014.25    4152346.50        0.00052
565014.25    4152440.25        0.00061
         565014.25    4152534.00        0.00068
565502.65    4152072.47        0.03944
         565589.07    4151982.88        0.16861
565619.89    4152017.45        0.18383
         565621.62    4152031.56        0.17541
565618.45    4152045.97        0.16964
         565600.88    4152086.01        0.12120
565578.70    4152137.28        0.03333
         565504.04    4152071.95        0.04080
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE SUMMARY OF MAXIMUM PERIOD (43872 HRS) RESULTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

NETWORK GROUP ID	AVERAGE CONC OF TYPE	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) GRID-ID
YR1_ALL 1ST HIGHEST VALUE IS	0.51253 AT	(565619.89, 4152017.45, 3.03, 3.03, 1.50) DC
2ND HIGHEST VALUE IS	0.48904 AT	(565621.62, 4152031.56, 2.82, 2.82, 1.50) DC
3RD HIGHEST VALUE IS	0.48190 AT	(565614.25, 4152004.00, 3.03, 3.03, 0.00) DC
4TH HIGHEST VALUE IS	0.47344 AT	(565604.25, 4151994.00, 2.94, 2.94, 0.00) DC
5TH HIGHEST VALUE IS	0.47294 AT	(565618.45, 4152045.97, 2.97, 2.97, 1.50) DC
6TH HIGHEST VALUE IS	0.47129 AT	(565624.25, 4152014.00, 3.16, 3.16, 0.00) DC
7TH HIGHEST VALUE IS	0.47016 AT	(565589.07, 4151982.88, 3.27, 3.27, 1.50) DC
8TH HIGHEST VALUE IS	0.46886 AT	(565624.25, 4152004.00, 3.37, 3.37, 0.00) DC
9TH HIGHEST VALUE IS	0.46698 AT	(565614.25, 4151994.00, 3.15, 3.15, 0.00) DC
10TH HIGHEST VALUE IS	0.46540 AT	(565624.25, 4152024.00, 2.96, 2.96, 0.00) DC
YR1_ON 1ST HIGHEST VALUE IS	0.51242 AT	(565619.89, 4152017.45, 3.03, 3.03, 1.50) DC
2ND HIGHEST VALUE IS	0.48895 AT	(565621.62, 4152031.56, 2.82, 2.82, 1.50) DC
3RD HIGHEST VALUE IS	0.48177 AT	(565614.25, 4152004.00, 3.03, 3.03, 0.00) DC
4TH HIGHEST VALUE IS	0.47329 AT	(565604.25, 4151994.00, 2.94, 2.94, 0.00) DC

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          5TH HIGHEST VALUE IS       0.47286 AT (  565618.45,
4152045.97,     2.97,     2.97,    1.50)  DC
          6TH HIGHEST VALUE IS       0.47118 AT (  565624.25,
4152014.00,     3.16,     3.16,    0.00)  DC
          7TH HIGHEST VALUE IS       0.46998 AT (  565589.07,
4151982.88,     3.27,     3.27,    1.50)  DC
          8TH HIGHEST VALUE IS       0.46873 AT (  565624.25,
4152004.00,     3.37,     3.37,    0.00)  DC
          9TH HIGHEST VALUE IS       0.46684 AT (  565614.25,
4151994.00,     3.15,     3.15,    0.00)  DC
         10TH HIGHEST VALUE IS       0.46530 AT (  565624.25,
4152024.00,     2.96,     2.96,    0.00)  DC

YR1_OFF   1ST HIGHEST VALUE IS       0.00033 AT (  565614.25,
4151924.00,     3.31,     3.31,    0.00)  DC
          2ND HIGHEST VALUE IS       0.00033 AT (  565624.25,
4151934.00,     3.21,     3.21,    0.00)  DC
          3RD HIGHEST VALUE IS       0.00033 AT (  565614.25,
4151934.00,     3.38,     3.38,    0.00)  DC
          4TH HIGHEST VALUE IS       0.00032 AT (  565604.25,
4151924.00,     3.37,     3.37,    0.00)  DC
          5TH HIGHEST VALUE IS       0.00032 AT (  565624.25,
4151924.00,     3.15,     3.15,    0.00)  DC
          6TH HIGHEST VALUE IS       0.00032 AT (  565634.25,
4151944.00,     3.16,     3.16,    0.00)  DC
          7TH HIGHEST VALUE IS       0.00031 AT (  565624.25,
4151944.00,     3.30,     3.30,    0.00)  DC
          8TH HIGHEST VALUE IS       0.00031 AT (  565634.25,
4151934.00,     3.06,     3.06,    0.00)  DC
          9TH HIGHEST VALUE IS       0.00031 AT (  565604.25,
4151914.00,     3.32,     3.32,    0.00)  DC
         10TH HIGHEST VALUE IS       0.00031 AT (  565614.25,
4151914.00,     3.25,     3.25,    0.00)  DC

YR2_ON(1  1ST HIGHEST VALUE IS       0.18383 AT (  565619.89,
4152017.45,     3.03,     3.03,    1.50)  DC
          2ND HIGHEST VALUE IS       0.17541 AT (  565621.62,
4152031.56,     2.82,     2.82,    1.50)  DC
          3RD HIGHEST VALUE IS       0.17284 AT (  565614.25,
4152004.00,     3.03,     3.03,    0.00)  DC
          4TH HIGHEST VALUE IS       0.16980 AT (  565604.25,
4151994.00,     2.94,     2.94,    0.00)  DC
          5TH HIGHEST VALUE IS       0.16964 AT (  565618.45,
4152045.97,     2.97,     2.97,    1.50)  DC
          6TH HIGHEST VALUE IS       0.16904 AT (  565624.25,
4152014.00,     3.16,     3.16,    0.00)  DC
          7TH HIGHEST VALUE IS       0.16861 AT (  565589.07,
4151982.88,     3.27,     3.27,    1.50)  DC
          8TH HIGHEST VALUE IS       0.16816 AT (  565624.25,
4152004.00,     3.37,     3.37,    0.00)  DC
          9TH HIGHEST VALUE IS       0.16748 AT (  565614.25,
4151994.00,     3.15,     3.15,    0.00)  DC
```

```
         10TH HIGHEST VALUE IS       0.16693 AT (  565624.25,
4152024.00,     2.96,     2.96,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** Message Summary : AERMOD Model Execution ***

--------- Summary of Total Messages --------

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 20266 Informational Message(s)

A Total of 43872 Hours Were Processed

A Total of 7316 Calm Hours Identified

A Total of 12950 Missing Hours Identified (29.52 Percent)

CAUTION!: Number of Missing Hours Exceeds 10 Percent of Total!
Data May Not Be Acceptable for Regulatory Applications.
See Section 5.3.2 of "Meteorological Monitoring Guidance
for Regulatory Modeling Applications" (EPA-454/R-99-005).

******** FATAL ERROR MESSAGES ********
*** NONE ***

******** WARNING MESSAGES ********
*** NONE ***

****
*** AERMOD Finishes Successfully ***
****

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 10.2.1
** Lakes Environmental Software Inc.
** Date: 2/9/2022
** File:
C:\Lakes\405IndustrialRd_Mit_20220209\405IndustrialRd_Mit_20220209.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE
C:\Lakes\405IndustrialRd_Mit_20220209\405IndustrialRd_Mit_20220209.i
   MODELOPT DFAULT CONC
   AVERTIME PERIOD
   URBANOPT 767423 San_Mateo_County_Population_2019
   POLLUTID PM_2.5
   FLAGPOLE 1.50
   RUNORNOT RUN
   ERRORFIL 405IndustrialRd_Mit_20220209.err
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION PAREA1       AREAPOLY   565503.975  4152069.987
2.810
** DESCRSRC ProjectSiteYr1
   LOCATION PAREA2       AREAPOLY   565503.975  4152069.987
2.810
** DESCRSRC ProjectSiteYr2
**
------------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN1
** DESCRSRC DrivewayYr1
** PREFIX
** Length of Side = 15.00
** Ratio = 10
```

```
** Vertical Dimension = 0.00
** Emission Rate = 9.5159E-10
** Nodes = 2
** 565510.244, 4152063.621, 2.74, 4.12
** 565476.180, 4152033.717, 2.80, 4.12
**
------------------------------------------------------------------------
   LOCATION A0000001     AREA     565505.296 4152069.257 2.80
** End of LINE AREA Source ID = ARLN1
**
------------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN2
** DESCRSRC IndustrialRdYr1
** PREFIX
** Length of Side = 18.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 8.5313E-10
** Nodes = 2
** 565461.578, 4152036.244, 2.77, 4.12
** 565589.670, 4151922.042, 3.23, 4.12
**
------------------------------------------------------------------------
   LOCATION A0000002     AREA     565455.589 4152029.526 2.77
** End of LINE AREA Source ID = ARLN2
**
------------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN3
** DESCRSRC HollyStYr1
** PREFIX
** Length of Side = 30.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 5.1209E-10
** Nodes = 2
** 565591.507, 4151930.115, 3.15, 4.12
** 565668.006, 4152040.076, 5.23, 4.12
**
------------------------------------------------------------------------
   LOCATION A0000004     AREA     565603.821 4151921.549 3.35
** End of LINE AREA Source ID = ARLN3
** Source Parameters **
   SRCPARAM PAREA1        2.33E-07     5.000         7     0.000
   AREAVERT PAREA1       565503.975 4152069.987 565589.631 4151981.050
   AREAVERT PAREA1       565617.780 4152012.998 565621.752 4152031.476
   AREAVERT PAREA1       565609.182 4152066.427 565578.145 4152136.855
   AREAVERT PAREA1       565503.783 4152070.823
   SRCPARAM PAREA2        1.33E-07     5.000         7     0.000
   AREAVERT PAREA2       565503.975 4152069.987 565589.631 4151981.050
   AREAVERT PAREA2       565617.780 4152012.998 565621.752 4152031.476
```

```
   AREAVERT PAREA2       565609.182 4152066.427 565578.145 4152136.855
   AREAVERT PAREA2       565503.783 4152070.823
** LINE AREA Source ID = ARLN1
   SRCPARAM A0000001     9.5159E-10     4.120    45.328    15.000
138.720
**
--------------------------------------------------------------------
** LINE AREA Source ID = ARLN2
   SRCPARAM A0000002     8.5313E-10     4.120   171.609    18.000
41.719
**
--------------------------------------------------------------------
** LINE AREA Source ID = ARLN3
   SRCPARAM A0000004     5.1209E-10     4.120   133.953    30.000
-55.174
**
--------------------------------------------------------------------
   URBANSRC ALL

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "Scenario 1"
** WeekDays:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PAREA1       HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PAREA1       HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PAREA2       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA2       HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PAREA2       HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PAREA2       HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PAREA2       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA2       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA2       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA2       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PAREA2       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA2       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA2       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA2       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
```

```
   EMISFACT A0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000001     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000001     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000001     HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT A0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT A0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT A0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000002     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000002     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000002     HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT A0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT A0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT A0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000004     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000004     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000004     HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT A0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT A0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP YR1_ALL  A0000001 A0000002 A0000004 PAREA1
   SRCGROUP YR1_ON   PAREA1
   SRCGROUP YR1_OFF  A0000001 A0000002 A0000004
   SRCGROUP YR2_ON(1 PAREA2
SO FINISHED
**
**********************************
** AERMOD Receptor Pathway
```

```
**************************************
**
**
RE STARTING
   INCLUDED 405IndustrialRd_Mit_20220209.rou
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE "Met data-San Carlos Airport\724938.SFC"
   PROFFILE "Met data-San Carlos Airport\724938.PFL"
   SURFDATA 93231 2009
   UAIRDATA 23230 2009 OAKLAND/WSO_AP
   PROFBASE 1.5 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
** Auto-Generated Plotfiles
   PLOTFILE PERIOD YR1_ALL 405INDUSTRIALRD_MIT_20220209.AD\PE00G001.PLT
31
   PLOTFILE PERIOD YR1_ON 405INDUSTRIALRD_MIT_20220209.AD\PE00G002.PLT
32
   PLOTFILE PERIOD YR1_OFF 405INDUSTRIALRD_MIT_20220209.AD\PE00G003.PLT
33
   PLOTFILE PERIOD YR2_ON(1 405INDUSTRIALRD_MIT_20220209.AD\PE00G004.PLT
34
   SUMMFILE 405IndustrialRd_Mit_20220209.sum
OU FINISHED

 *********************************
 *** SETUP Finishes Successfully ***
 *********************************
```

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

                                                ***   MODEL SETUP OPTIONS
SUMMARY   ***
 -
- -

 **Model Is Setup For Calculation of Average CONCentration Values.

   -- DEPOSITION LOGIC --
 **NO GAS DEPOSITION Data Provided.
 **NO PARTICLE DEPOSITION Data Provided.
 **Model Uses NO DRY DEPLETION. DRYDPLT = F
 **Model Uses NO WET DEPLETION. WETDPLT = F

 **Model Uses URBAN Dispersion Algorithm for the SBL for   5 Source(s),
   for Total of   1 Urban Area(s):
   Urban Population =   767423.0 ; Urban Roughness Length = 1.000 m

 **Model Uses Regulatory DEFAULT Options:
        1. Stack-tip Downwash.
        2. Model Accounts for ELEVated Terrain Effects.
        3. Use Calms Processing Routine.
        4. Use Missing Data Processing Routine.
        5. No Exponential Decay.
        6. Urban Roughness Length of 1.0 Meter Assumed.

 **Other Options Specified:
        CCVR_Sub - Meteorological data includes CCVR substitutions
        TEMP_Sub - Meteorological data includes TEMP substitutions

 **Model Accepts FLAGPOLE Receptor Heights.

 **The User Specified a Pollutant Type of: PM_2.5

 **Model Calculates PERIOD Averages Only

 **This Run Includes: 5 Source(s);   4 Source Group(s); and
2555 Receptor(s)

               with: 0 POINT(s), including
                          0 POINTCAP(s) and   0 POINTHOR(s)
                and: 0 VOLUME source(s)
                and: 5 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)


 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  14134

 **Output Options Selected:
          Model Outputs Tables of PERIOD Averages by Receptor
          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) =     1.50 ;
Decay Coef. =    0.000     ;  Rot. Angle =     0.0
                  Emission Units = GRAMS/SEC
;  Emission Rate Unit Factor =   0.10000E+07
                  Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =      4.0 MB of RAM.

 **Input Runstream File:          aermod.inp
 **Output Print File:             aermod.out

 **Detailed Error/Message File:   405IndustrialRd_Mit_20220209.err
 **File for Summary of Results:   405IndustrialRd_Mit_20220209.sum
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** AREA SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	COORD (SW CORNER) X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	X-DIM (METERS)	Y-DIM (METERS)	ORIENT. (DEG.)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
A0000001	0	0.95159E-09	565505.3	4152069.3	2.8	4.12	45.33	15.00	138.72	0.00	YES	HRDOW
A0000002	0	0.85313E-09	565455.6	4152029.5	2.8	4.12	171.61	18.00	41.72	0.00	YES	HRDOW
A0000004	0	0.51209E-09	565603.8	4151921.5	3.3	4.12	133.95	30.00	-55.17	0.00	YES	HRDOW

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** AREAPOLY SOURCE DATA ***

NUMBER SOURCE ID	EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	LOCATION OF AREA X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	NUMBER OF VERTS.	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
PAREA1	0	0.23300E-06	565504.0	4152070.0	2.8	5.00	7	0.00	YES	HRDOW
PAREA2	0	0.13300E-06	565504.0	4152070.0	2.8	5.00	7	0.00	YES	HRDOW

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
YR1_ALL	PAREA1 , A0000001 , A0000002 , A0000004 ,
YR1_ON	PAREA1 ,
YR1_OFF	A0000001 , A0000002 , A0000004 ,
YR2_ON(1	PAREA2 ,

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
	767423.	PAREA1 , PAREA2 , A0000001 , A0000002 , A0000004 ,

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = PAREA1 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.1000E+01	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = PAREA2 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.1000E+01	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000001 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.1000E+01
19	.1000E+01	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000002 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.1000E+01	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000004 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.1000E+01
19	.1000E+01	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565464.2, 4151984.0, 3.0, 144.6, 0.0); (565464.2, 4152009.0, 2.7, 144.6, 0.0);
(565464.2, 4152034.0, 2.8, 144.6, 0.0); (565464.2, 4152059.0, 2.8, 144.6, 0.0);
(565464.2, 4152084.0, 2.9, 144.6, 0.0); (565489.2, 4151984.0, 2.9, 144.6, 0.0);
(565489.2, 4152009.0, 2.9, 144.6, 0.0); (565489.2, 4152034.0, 2.8, 144.6, 0.0);
(565489.2, 4152059.0, 2.9, 144.6, 0.0); (565489.2, 4152084.0, 2.9, 144.6, 0.0);
(565514.2, 4151984.0, 2.9, 144.6, 0.0); (565514.2, 4152009.0, 3.1, 144.6, 0.0);
(565514.2, 4152034.0, 3.1, 144.6, 0.0); (565514.2, 4152059.0, 2.8, 2.8, 0.0);
(565514.2, 4152084.0, 2.9, 2.9, 0.0); (565539.2, 4151984.0, 3.1, 3.1, 0.0);
(565539.2, 4152009.0, 3.2, 3.2, 0.0); (565539.2, 4152034.0, 3.2, 3.2, 0.0);
(565564.2, 4151984.0, 3.1, 3.1, 0.0); (565564.2, 4152009.0, 3.2, 3.2, 0.0);
(565464.2, 4152094.0, 3.0, 144.6, 0.0); (565464.2, 4152104.0, 3.0, 144.6, 0.0);
(565464.2, 4152114.0, 3.1, 144.6, 0.0); (565464.2, 4152124.0, 3.1, 144.6, 0.0);
(565464.2, 4152134.0, 3.1, 144.6, 0.0); (565464.2, 4152144.0, 3.1, 144.6, 0.0);
(565464.2, 4152154.0, 3.1, 144.6, 0.0); (565464.2, 4152164.0, 3.1, 144.6, 0.0);
(565464.2, 4152174.0, 3.2, 3.2, 0.0); (565464.2, 4152184.0, 3.2, 3.2, 0.0);
(565464.2, 4152194.0, 3.3, 3.3, 0.0); (565464.2, 4152204.0, 3.5, 3.5, 0.0);
(565464.2, 4152214.0, 3.6, 3.6, 0.0); (565464.2, 4152224.0, 3.7, 3.7, 0.0);
(565464.2, 4152234.0, 3.7, 3.7, 0.0); (565464.2, 4152244.0, 3.7, 3.7, 0.0);
(565464.2, 4152254.0, 3.6, 3.6, 0.0); (

565464.2, 4152264.0, 3.6, 3.6, 0.0);
(565464.2, 4152274.0, 3.5, 3.5, 0.0); (
565464.2, 4152284.0, 3.5, 3.5, 0.0);
(565474.2, 4152094.0, 2.9, 144.6, 0.0); (
565474.2, 4152104.0, 3.0, 144.6, 0.0);
(565474.2, 4152114.0, 3.0, 144.6, 0.0); (
565474.2, 4152124.0, 3.1, 144.6, 0.0);
(565474.2, 4152134.0, 3.1, 144.6, 0.0); (
565474.2, 4152144.0, 3.2, 144.6, 0.0);
(565474.2, 4152154.0, 3.2, 3.2, 0.0); (
565474.2, 4152164.0, 3.2, 3.2, 0.0);
(565474.2, 4152174.0, 3.2, 3.2, 0.0); (
565474.2, 4152184.0, 3.3, 3.3, 0.0);
(565474.2, 4152194.0, 3.4, 3.4, 0.0); (
565474.2, 4152204.0, 3.5, 3.5, 0.0);
(565474.2, 4152214.0, 3.6, 3.6, 0.0); (
565474.2, 4152224.0, 3.6, 3.6, 0.0);
(565474.2, 4152234.0, 3.6, 3.6, 0.0); (
565474.2, 4152244.0, 3.6, 3.6, 0.0);
(565474.2, 4152254.0, 3.6, 3.6, 0.0); (
565474.2, 4152264.0, 3.6, 3.6, 0.0);
(565474.2, 4152274.0, 3.5, 3.5, 0.0); (
565474.2, 4152284.0, 3.5, 3.5, 0.0);
(565484.2, 4152094.0, 2.9, 144.6, 0.0); (
565484.2, 4152104.0, 3.0, 144.6, 0.0);
(565484.2, 4152114.0, 3.1, 144.6, 0.0); (
565484.2, 4152124.0, 3.2, 3.2, 0.0);
(565484.2, 4152134.0, 3.2, 3.2, 0.0); (
565484.2, 4152144.0, 3.2, 3.2, 0.0);
(565484.2, 4152154.0, 3.2, 3.2, 0.0); (
565484.2, 4152164.0, 3.3, 3.3, 0.0);
(565484.2, 4152174.0, 3.3, 3.3, 0.0); (
565484.2, 4152184.0, 3.4, 3.4, 0.0);
(565484.2, 4152194.0, 3.4, 3.4, 0.0); (
565484.2, 4152204.0, 3.5, 3.5, 0.0);
(565484.2, 4152214.0, 3.6, 3.6, 0.0); (
565484.2, 4152224.0, 3.6, 3.6, 0.0);
(565484.2, 4152234.0, 3.6, 3.6, 0.0); (
565484.2, 4152244.0, 3.5, 3.5, 0.0);
(565484.2, 4152254.0, 3.5, 3.5, 0.0); (
565484.2, 4152264.0, 3.5, 3.5, 0.0);
(565484.2, 4152274.0, 3.5, 3.5, 0.0); (
565484.2, 4152284.0, 3.4, 3.4, 0.0);
(565494.2, 4152094.0, 2.9, 144.6, 0.0); (
565494.2, 4152104.0, 3.3, 3.3, 0.0);
(565494.2, 4152114.0, 3.7, 5.5, 0.0); (
565494.2, 4152124.0, 4.1, 5.5, 0.0);
(565494.2, 4152134.0, 3.9, 3.9, 0.0); (
565494.2, 4152144.0, 3.6, 3.6, 0.0);
(565494.2, 4152154.0, 3.3, 3.3, 0.0); (
565494.2, 4152164.0, 3.3, 3.3, 0.0);
(565494.2, 4152174.0, 3.3, 3.3, 0.0); (

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565494.2, 4152184.0,       3.3,       3.3,       0.0);
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565494.2, 4152194.0, 3.4, 3.4, 0.0); (565494.2, 4152204.0, 3.5, 3.5, 0.0);
(565494.2, 4152214.0, 3.5, 3.5, 0.0); (565494.2, 4152224.0, 3.5, 3.5, 0.0);
(565494.2, 4152234.0, 3.4, 3.4, 0.0); (565494.2, 4152244.0, 3.3, 3.3, 0.0);
(565494.2, 4152254.0, 3.2, 3.2, 0.0); (565494.2, 4152264.0, 3.2, 3.2, 0.0);
(565494.2, 4152274.0, 3.2, 3.2, 0.0); (565494.2, 4152284.0, 3.2, 3.2, 0.0);
(565504.2, 4152094.0, 3.0, 3.0, 0.0); (565504.2, 4152104.0, 3.7, 3.7, 0.0);
(565504.2, 4152114.0, 4.4, 4.4, 0.0); (565504.2, 4152124.0, 5.1, 5.5, 0.0);
(565504.2, 4152134.0, 4.6, 4.6, 0.0); (565504.2, 4152144.0, 3.9, 3.9, 0.0);
(565504.2, 4152154.0, 3.3, 3.3, 0.0); (565504.2, 4152164.0, 3.2, 3.2, 0.0);
(565504.2, 4152174.0, 3.3, 8.8, 0.0); (565504.2, 4152184.0, 3.3, 8.8, 0.0);
(565504.2, 4152194.0, 3.4, 8.8, 0.0); (565504.2, 4152204.0, 3.4, 3.4, 0.0);
(565504.2, 4152214.0, 3.5, 3.5, 0.0); (565504.2, 4152224.0, 3.4, 3.4, 0.0);
(565504.2, 4152234.0, 3.2, 3.2, 0.0); (565504.2, 4152244.0, 3.0, 3.0, 0.0);
(565504.2, 4152254.0, 3.0, 3.0, 0.0); (565504.2, 4152264.0, 3.0, 3.0, 0.0);
(565504.2, 4152274.0, 3.0, 3.0, 0.0); (565504.2, 4152284.0, 3.0, 3.0, 0.0);
(565514.2, 4152094.0, 2.9, 2.9, 0.0); (565514.2, 4152104.0, 3.6, 3.6, 0.0);
(565514.2, 4152114.0, 4.3, 4.3, 0.0); (565514.2, 4152124.0, 5.0, 5.0, 0.0);
(565514.2, 4152134.0, 4.7, 4.7, 0.0); (565514.2, 4152144.0, 4.3, 4.3, 0.0);
(565514.2, 4152154.0, 4.0, 5.8, 0.0); (

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565514.2, 4152164.0,       3.7,       8.8,       0.0);
     ( 565514.2, 4152174.0,       3.5,       8.8,       0.0);         (
565514.2, 4152184.0,       3.3,       8.8,       0.0);
     ( 565514.2, 4152194.0,       3.3,       8.8,       0.0);         (
565514.2, 4152204.0,       3.3,       8.8,       0.0);
     ( 565514.2, 4152214.0,       3.4,       8.8,       0.0);         (
565514.2, 4152224.0,       3.3,       3.3,       0.0);
     ( 565514.2, 4152234.0,       3.1,       3.1,       0.0);         (
565514.2, 4152244.0,       2.9,       2.9,       0.0);
     ( 565514.2, 4152254.0,       2.9,       2.9,       0.0);         (
565514.2, 4152264.0,       2.9,       2.9,       0.0);
     ( 565514.2, 4152274.0,       2.9,       2.9,       0.0);         (
565514.2, 4152284.0,       3.0,       3.0,       0.0);
     ( 565524.2, 4152094.0,       2.9,       2.9,       0.0);         (
565524.2, 4152104.0,       3.4,       3.4,       0.0);
     ( 565524.2, 4152114.0,       3.9,       3.9,       0.0);         (
565524.2, 4152124.0,       4.4,       4.4,       0.0);
     ( 565524.2, 4152134.0,       4.6,       4.6,       0.0);         (
565524.2, 4152144.0,       4.8,       4.8,       0.0);
     ( 565524.2, 4152154.0,       4.9,       5.8,       0.0);         (
565524.2, 4152164.0,       4.5,       8.8,       0.0);
     ( 565524.2, 4152174.0,       3.9,       8.8,       0.0);         (
565524.2, 4152184.0,       3.3,       8.8,       0.0);
     ( 565524.2, 4152194.0,       3.2,       8.8,       0.0);         (
565524.2, 4152204.0,       3.2,       8.8,       0.0);
     ( 565524.2, 4152214.0,       3.3,       8.8,       0.0);         (
565524.2, 4152224.0,       3.2,       8.8,       0.0);
     ( 565524.2, 4152234.0,       3.1,       3.1,       0.0);         (
565524.2, 4152244.0,       2.9,       2.9,       0.0);
     ( 565524.2, 4152254.0,       2.9,       2.9,       0.0);         (
565524.2, 4152264.0,       2.9,       2.9,       0.0);
     ( 565524.2, 4152274.0,       3.0,       3.0,       0.0);         (
565524.2, 4152284.0,       2.9,       2.9,       0.0);
     ( 565534.2, 4152104.0,       3.2,       3.2,       0.0);         (
565534.2, 4152114.0,       3.5,       3.5,       0.0);
     ( 565534.2, 4152124.0,       3.8,       3.8,       0.0);         (
565534.2, 4152134.0,       4.4,       4.4,       0.0);
     ( 565534.2, 4152144.0,       5.1,       5.1,       0.0);         (
565534.2, 4152154.0,       5.8,       5.8,       0.0);
     ( 565534.2, 4152164.0,       5.3,       8.8,       0.0);         (
565534.2, 4152174.0,       4.6,       8.8,       0.0);
     ( 565534.2, 4152184.0,       3.8,       8.8,       0.0);         (
565534.2, 4152194.0,       3.5,       8.8,       0.0);
     ( 565534.2, 4152204.0,       3.4,       8.8,       0.0);         (
565534.2, 4152214.0,       3.2,       8.8,       0.0);
     ( 565534.2, 4152224.0,       3.1,       8.8,       0.0);         (
565534.2, 4152234.0,       3.0,       8.8,       0.0);
     ( 565534.2, 4152244.0,       2.9,       2.9,       0.0);         (
565534.2, 4152254.0,       2.8,       2.8,       0.0);
     ( 565534.2, 4152264.0,       2.8,       2.8,       0.0);         (
565534.2, 4152274.0,       2.7,       2.7,       0.0);
     ( 565534.2, 4152284.0,       2.7,       2.7,       0.0);         (
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565544.2, 4152114.0,       3.3,       3.3,       0.0);
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565544.2, 4152124.0, 3.4, 3.4, 0.0); (565544.2, 4152134.0, 4.2, 6.8, 0.0);
(565544.2, 4152144.0, 5.2, 5.2, 0.0); (565544.2, 4152154.0, 6.1, 6.1, 0.0);
(565544.2, 4152164.0, 6.2, 6.2, 0.0); (565544.2, 4152174.0, 6.1, 8.8, 0.0);
(565544.2, 4152184.0, 6.0, 8.8, 0.0); (565544.2, 4152194.0, 5.3, 8.8, 0.0);
(565544.2, 4152204.0, 4.4, 8.8, 0.0); (565544.2, 4152214.0, 3.4, 8.8, 0.0);
(565544.2, 4152224.0, 3.0, 8.8, 0.0); (565544.2, 4152234.0, 2.9, 8.8, 0.0);
(565544.2, 4152244.0, 2.8, 8.8, 0.0); (565544.2, 4152254.0, 2.6, 2.6, 0.0);
(565544.2, 4152264.0, 2.3, 2.3, 0.0); (565544.2, 4152274.0, 2.0, 2.0, 0.0);
(565544.2, 4152284.0, 2.1, 2.1, 0.0); (565554.2, 4152124.0, 3.0, 6.8, 0.0);
(565554.2, 4152134.0, 4.1, 6.8, 0.0); (565554.2, 4152144.0, 5.3, 6.8, 0.0);
(565554.2, 4152154.0, 6.5, 6.8, 0.0); (565554.2, 4152164.0, 7.1, 7.1, 0.0);
(565554.2, 4152174.0, 7.6, 7.6, 0.0); (565554.2, 4152184.0, 8.1, 8.8, 0.0);
(565554.2, 4152194.0, 7.1, 8.8, 0.0); (565554.2, 4152204.0, 5.4, 8.8, 0.0);
(565554.2, 4152214.0, 3.6, 8.8, 0.0); (565554.2, 4152224.0, 2.9, 8.8, 0.0);
(565554.2, 4152234.0, 2.8, 8.8, 0.0); (565554.2, 4152244.0, 2.7, 8.8, 0.0);
(565554.2, 4152254.0, 2.4, 2.4, 0.0); (565554.2, 4152264.0, 1.8, 1.8, 0.0);
(565554.2, 4152274.0, 1.3, 4.0, 0.0); (565554.2, 4152284.0, 1.4, 4.0, 0.0);
(565564.2, 4152134.0, 3.6, 6.8, 0.0); (565564.2, 4152144.0, 4.5, 6.8, 0.0);
(565564.2, 4152154.0, 5.3, 8.8, 0.0); (

```
565564.2, 4152164.0,       5.8,       8.8,       0.0);
     ( 565564.2, 4152174.0,       6.1,       8.8,       0.0);         (
565564.2, 4152184.0,       6.4,       8.8,       0.0);
     ( 565564.2, 4152194.0,       5.5,       8.8,       0.0);         (
565564.2, 4152204.0,       4.2,       8.8,       0.0);
     ( 565564.2, 4152214.0,       2.8,       8.8,       0.0);         (
565564.2, 4152224.0,       2.4,       8.8,       0.0);
     ( 565564.2, 4152234.0,       2.5,       8.8,       0.0);         (
565564.2, 4152244.0,       2.7,       8.8,       0.0);
     ( 565564.2, 4152254.0,       2.6,       2.6,       0.0);         (
565564.2, 4152264.0,       2.4,       2.4,       0.0);
     ( 565564.2, 4152274.0,       2.1,       4.0,       0.0);         (
565564.2, 4152284.0,       2.2,       4.0,       0.0);
     ( 565574.2, 4152134.0,       3.0,       8.8,       0.0);         (
565574.2, 4152144.0,       3.4,       8.8,       0.0);
     ( 565574.2, 4152154.0,       3.7,       8.8,       0.0);         (
565574.2, 4152164.0,       3.8,       8.8,       0.0);
     ( 565574.2, 4152174.0,       3.8,       8.8,       0.0);         (
565574.2, 4152184.0,       3.7,       8.8,       0.0);
     ( 565574.2, 4152194.0,       3.2,       8.8,       0.0);         (
565574.2, 4152204.0,       2.5,       8.8,       0.0);
     ( 565574.2, 4152214.0,       1.8,       8.8,       0.0);         (
565574.2, 4152224.0,       1.8,       8.8,       0.0);
     ( 565574.2, 4152234.0,       2.2,       8.8,       0.0);         (
565574.2, 4152244.0,       2.7,       8.8,       0.0);
     ( 565574.2, 4152254.0,       2.9,       2.9,       0.0);         (
565574.2, 4152264.0,       3.1,       3.1,       0.0);
     ( 565574.2, 4152274.0,       3.2,       4.0,       0.0);         (
565574.2, 4152284.0,       3.3,       3.3,       0.0);
     ( 565584.2, 4152134.0,       2.6,       8.8,       0.0);         (
565584.2, 4152144.0,       2.7,       8.8,       0.0);
     ( 565584.2, 4152154.0,       2.7,       8.8,       0.0);         (
565584.2, 4152164.0,       2.5,       8.8,       0.0);
     ( 565584.2, 4152174.0,       2.3,       8.8,       0.0);         (
565584.2, 4152184.0,       2.1,       8.8,       0.0);
     ( 565584.2, 4152194.0,       1.9,       8.8,       0.0);         (
565584.2, 4152204.0,       1.6,       8.8,       0.0);
     ( 565584.2, 4152214.0,       1.3,       8.8,       0.0);         (
565584.2, 4152224.0,       1.6,       8.8,       0.0);
     ( 565584.2, 4152234.0,       2.2,       8.8,       0.0);         (
565584.2, 4152244.0,       2.8,       2.8,       0.0);
     ( 565584.2, 4152254.0,       3.2,       3.2,       0.0);         (
565584.2, 4152264.0,       3.5,       3.5,       0.0);
     ( 565584.2, 4152274.0,       3.8,       3.8,       0.0);         (
565584.2, 4152284.0,       3.9,       3.9,       0.0);
     ( 565594.2, 4152104.0,       2.7,       2.7,       0.0);         (
565594.2, 4152114.0,       2.8,       2.8,       0.0);
     ( 565594.2, 4152124.0,       2.8,       2.8,       0.0);         (
565594.2, 4152134.0,       2.8,       2.8,       0.0);
     ( 565594.2, 4152144.0,       2.8,       8.8,       0.0);         (
565594.2, 4152154.0,       2.8,       8.8,       0.0);
     ( 565594.2, 4152164.0,       2.8,       8.8,       0.0);         (
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565594.2, 4152174.0,       2.7,       8.8,       0.0);
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565594.2, 4152184.0, 2.6, 8.8, 0.0); (565594.2, 4152194.0, 2.4, 8.8, 0.0);
(565594.2, 4152204.0, 2.2, 8.8, 0.0); (565594.2, 4152214.0, 2.0, 8.8, 0.0);
(565594.2, 4152224.0, 2.2, 8.8, 0.0); (565594.2, 4152234.0, 2.7, 2.7, 0.0);
(565594.2, 4152244.0, 3.2, 3.2, 0.0); (565594.2, 4152254.0, 3.5, 3.5, 0.0);
(565594.2, 4152264.0, 3.6, 3.6, 0.0); (565594.2, 4152274.0, 3.7, 3.7, 0.0);
(565594.2, 4152284.0, 3.7, 3.7, 0.0); (565604.2, 4152094.0, 2.5, 2.5, 0.0);
(565604.2, 4152104.0, 2.6, 2.6, 0.0); (565604.2, 4152114.0, 2.8, 2.8, 0.0);
(565604.2, 4152124.0, 2.9, 2.9, 0.0); (565604.2, 4152134.0, 2.9, 2.9, 0.0);
(565604.2, 4152144.0, 3.0, 3.0, 0.0); (565604.2, 4152154.0, 3.0, 3.0, 0.0);
(565604.2, 4152164.0, 3.0, 8.8, 0.0); (565604.2, 4152174.0, 3.0, 8.8, 0.0);
(565604.2, 4152184.0, 3.0, 8.8, 0.0); (565604.2, 4152194.0, 2.9, 8.8, 0.0);
(565604.2, 4152204.0, 2.8, 8.8, 0.0); (565604.2, 4152214.0, 2.7, 8.8, 0.0);
(565604.2, 4152224.0, 2.8, 2.8, 0.0); (565604.2, 4152234.0, 3.2, 3.2, 0.0);
(565604.2, 4152244.0, 3.6, 3.6, 0.0); (565604.2, 4152254.0, 3.8, 3.8, 0.0);
(565604.2, 4152264.0, 3.7, 3.7, 0.0); (565604.2, 4152274.0, 3.6, 3.6, 0.0);
(565604.2, 4152284.0, 3.5, 3.5, 0.0); (565614.2, 4152094.0, 3.0, 3.0, 0.0);
(565614.2, 4152104.0, 2.9, 2.9, 0.0); (565614.2, 4152114.0, 2.8, 2.8, 0.0);
(565614.2, 4152124.0, 2.7, 2.7, 0.0); (565614.2, 4152134.0, 2.8, 2.8, 0.0);
(565614.2, 4152144.0, 2.9, 2.9, 0.0); (

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565614.2, 4152154.0,       3.0,       3.0,       0.0);
     ( 565614.2, 4152164.0,       2.9,       2.9,       0.0);         (
565614.2, 4152174.0,       2.8,       8.8,       0.0);
     ( 565614.2, 4152184.0,       2.6,       8.8,       0.0);         (
565614.2, 4152194.0,       2.7,       8.8,       0.0);
     ( 565614.2, 4152204.0,       2.8,       2.8,       0.0);         (
565614.2, 4152214.0,       2.9,       2.9,       0.0);
     ( 565614.2, 4152224.0,       3.1,       3.1,       0.0);         (
565614.2, 4152234.0,       3.3,       3.3,       0.0);
     ( 565614.2, 4152244.0,       3.6,       3.6,       0.0);         (
565614.2, 4152254.0,       3.7,       3.7,       0.0);
     ( 565614.2, 4152264.0,       3.6,       3.6,       0.0);         (
565614.2, 4152274.0,       3.6,       3.6,       0.0);
     ( 565614.2, 4152284.0,       3.6,       3.6,       0.0);         (
565624.2, 4152094.0,       3.6,       3.6,       0.0);
     ( 565624.2, 4152104.0,       3.2,       3.2,       0.0);         (
565624.2, 4152114.0,       2.8,       2.8,       0.0);
     ( 565624.2, 4152124.0,       2.4,       2.4,       0.0);         (
565624.2, 4152134.0,       2.5,       2.5,       0.0);
     ( 565624.2, 4152144.0,       2.8,       2.8,       0.0);         (
565624.2, 4152154.0,       3.0,       3.0,       0.0);
     ( 565624.2, 4152164.0,       2.9,       2.9,       0.0);         (
565624.2, 4152174.0,       2.5,       2.5,       0.0);
     ( 565624.2, 4152184.0,       2.2,       2.2,       0.0);         (
565624.2, 4152194.0,       2.3,       2.3,       0.0);
     ( 565624.2, 4152204.0,       2.7,       2.7,       0.0);         (
565624.2, 4152214.0,       3.0,       3.0,       0.0);
     ( 565624.2, 4152224.0,       3.2,       3.2,       0.0);         (
565624.2, 4152234.0,       3.4,       3.4,       0.0);
     ( 565624.2, 4152244.0,       3.5,       3.5,       0.0);         (
565624.2, 4152254.0,       3.6,       3.6,       0.0);
     ( 565624.2, 4152264.0,       3.6,       3.6,       0.0);         (
565624.2, 4152274.0,       3.6,       3.6,       0.0);
     ( 565624.2, 4152284.0,       3.6,       3.6,       0.0);         (
565634.2, 4152094.0,       4.1,       4.1,       0.0);
     ( 565634.2, 4152104.0,       3.5,       3.5,       0.0);         (
565634.2, 4152114.0,       2.8,       2.8,       0.0);
     ( 565634.2, 4152124.0,       2.2,       2.2,       0.0);         (
565634.2, 4152134.0,       2.3,       2.3,       0.0);
     ( 565634.2, 4152144.0,       2.6,       2.6,       0.0);         (
565634.2, 4152154.0,       2.9,       2.9,       0.0);
     ( 565634.2, 4152164.0,       2.8,       2.8,       0.0);         (
565634.2, 4152174.0,       2.4,       2.4,       0.0);
     ( 565634.2, 4152184.0,       2.1,       2.1,       0.0);         (
565634.2, 4152194.0,       2.3,       2.3,       0.0);
     ( 565634.2, 4152204.0,       2.7,       2.7,       0.0);         (
565634.2, 4152214.0,       3.2,       3.2,       0.0);
     ( 565634.2, 4152224.0,       3.4,       3.4,       0.0);         (
565634.2, 4152234.0,       3.4,       3.4,       0.0);
     ( 565634.2, 4152244.0,       3.5,       3.5,       0.0);         (
565634.2, 4152254.0,       3.5,       3.5,       0.0);
     ( 565634.2, 4152264.0,       3.6,       3.6,       0.0);         (
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565634.2, 4152274.0,       3.6,       3.6,       0.0);
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565634.2, 4152284.0, 3.7, 3.7, 0.0); (565644.2, 4152094.0, 4.2, 4.2, 0.0);
(565644.2, 4152104.0, 3.6, 7.3, 0.0); (565644.2, 4152114.0, 2.9, 7.3, 0.0);
(565644.2, 4152124.0, 2.3, 7.3, 0.0); (565644.2, 4152134.0, 2.3, 2.3, 0.0);
(565644.2, 4152144.0, 2.5, 2.5, 0.0); (565644.2, 4152154.0, 2.6, 2.6, 0.0);
(565644.2, 4152164.0, 2.6, 2.6, 0.0); (565644.2, 4152174.0, 2.5, 2.5, 0.0);
(565644.2, 4152184.0, 2.4, 2.4, 0.0); (565644.2, 4152194.0, 2.6, 2.6, 0.0);
(565644.2, 4152204.0, 3.0, 3.0, 0.0); (565644.2, 4152214.0, 3.3, 3.3, 0.0);
(565644.2, 4152224.0, 3.4, 3.4, 0.0); (565644.2, 4152234.0, 3.5, 3.5, 0.0);
(565644.2, 4152244.0, 3.5, 3.5, 0.0); (565644.2, 4152254.0, 3.6, 3.6, 0.0);
(565644.2, 4152264.0, 3.6, 3.6, 0.0); (565644.2, 4152274.0, 3.7, 3.7, 0.0);
(565644.2, 4152284.0, 3.7, 3.7, 0.0); (565654.2, 4152094.0, 4.4, 7.3, 0.0);
(565654.2, 4152104.0, 3.7, 7.3, 0.0); (565654.2, 4152114.0, 3.0, 8.7, 0.0);
(565654.2, 4152124.0, 2.3, 8.7, 0.0); (565654.2, 4152134.0, 2.2, 8.7, 0.0);
(565654.2, 4152144.0, 2.3, 2.3, 0.0); (565654.2, 4152154.0, 2.4, 2.4, 0.0);
(565654.2, 4152164.0, 2.5, 2.5, 0.0); (565654.2, 4152174.0, 2.6, 2.6, 0.0);
(565654.2, 4152184.0, 2.8, 2.8, 0.0); (565654.2, 4152194.0, 3.0, 3.0, 0.0);
(565654.2, 4152204.0, 3.2, 3.2, 0.0); (565654.2, 4152214.0, 3.4, 3.4, 0.0);
(565654.2, 4152224.0, 3.5, 3.5, 0.0); (565654.2, 4152234.0, 3.5, 3.5, 0.0);
(565654.2, 4152244.0, 3.6, 3.6, 0.0); (

565654.2, 4152254.0, 3.6, 3.6, 0.0);
     (565654.2, 4152264.0, 3.7, 3.7, 0.0); (
565654.2, 4152274.0, 3.7, 3.7, 0.0);
     (565654.2, 4152284.0, 3.7, 3.7, 0.0); (
565664.2, 4152094.0, 5.5, 7.3, 0.0);
     (565664.2, 4152104.0, 4.6, 7.3, 0.0); (
565664.2, 4152114.0, 3.7, 8.7, 0.0);
     (565664.2, 4152124.0, 2.7, 8.7, 0.0); (
565664.2, 4152134.0, 2.5, 8.7, 0.0);
     (565664.2, 4152144.0, 2.6, 2.6, 0.0); (
565664.2, 4152154.0, 2.6, 2.6, 0.0);
     (565664.2, 4152164.0, 2.7, 2.7, 0.0); (
565664.2, 4152174.0, 2.9, 2.9, 0.0);
     (565664.2, 4152184.0, 3.1, 3.1, 0.0); (
565664.2, 4152194.0, 3.2, 3.2, 0.0);
     (565664.2, 4152204.0, 3.3, 3.3, 0.0); (
565664.2, 4152214.0, 3.5, 3.5, 0.0);
     (565664.2, 4152224.0, 3.6, 3.6, 0.0); (
565664.2, 4152234.0, 3.6, 3.6, 0.0);
     (565664.2, 4152244.0, 3.6, 3.6, 0.0); (
565664.2, 4152254.0, 3.4, 3.4, 0.0);
     (565664.2, 4152264.0, 3.2, 3.2, 0.0); (
565664.2, 4152274.0, 2.9, 2.9, 0.0);
     (565664.2, 4152284.0, 2.8, 2.8, 0.0); (
565674.2, 4152094.0, 6.6, 7.3, 0.0);
     (565674.2, 4152104.0, 5.6, 7.3, 0.0); (
565674.2, 4152114.0, 4.4, 8.7, 0.0);
     (565674.2, 4152124.0, 3.2, 8.7, 0.0); (
565674.2, 4152134.0, 2.9, 8.7, 0.0);
     (565674.2, 4152144.0, 2.9, 8.7, 0.0); (
565674.2, 4152154.0, 2.9, 2.9, 0.0);
     (565674.2, 4152164.0, 3.0, 3.0, 0.0); (
565674.2, 4152174.0, 3.1, 3.1, 0.0);
     (565674.2, 4152184.0, 3.3, 3.3, 0.0); (
565674.2, 4152194.0, 3.4, 3.4, 0.0);
     (565674.2, 4152204.0, 3.5, 3.5, 0.0); (
565674.2, 4152214.0, 3.6, 3.6, 0.0);
     (565674.2, 4152224.0, 3.6, 3.6, 0.0); (
565674.2, 4152234.0, 3.6, 3.6, 0.0);
     (565674.2, 4152244.0, 3.6, 3.6, 0.0); (
565674.2, 4152254.0, 3.3, 3.3, 0.0);
     (565674.2, 4152264.0, 2.7, 2.7, 0.0); (
565674.2, 4152274.0, 2.1, 2.1, 0.0);
     (565674.2, 4152284.0, 1.8, 1.8, 0.0); (
565684.2, 4152094.0, 7.5, 7.5, 0.0);
     (565684.2, 4152104.0, 6.5, 8.7, 0.0); (
565684.2, 4152114.0, 5.2, 8.7, 0.0);
     (565684.2, 4152124.0, 3.9, 8.7, 0.0); (
565684.2, 4152134.0, 3.5, 8.7, 0.0);
     (565684.2, 4152144.0, 3.3, 8.7, 0.0); (
565684.2, 4152154.0, 3.2, 3.2, 0.0);
     (565684.2, 4152164.0, 3.2, 3.2, 0.0); (

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565684.2, 4152174.0,       3.3,       3.3,       0.0);
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565684.2, 4152184.0, 3.5, 3.5, 0.0); (565684.2, 4152194.0, 3.5, 3.5, 0.0);
(565684.2, 4152204.0, 3.6, 3.6, 0.0); (565684.2, 4152214.0, 3.6, 3.6, 0.0);
(565684.2, 4152224.0, 3.6, 3.6, 0.0); (565684.2, 4152234.0, 3.5, 3.5, 0.0);
(565684.2, 4152244.0, 3.4, 3.4, 0.0); (565684.2, 4152254.0, 3.1, 3.1, 0.0);
(565684.2, 4152264.0, 2.6, 2.6, 0.0); (565684.2, 4152274.0, 2.1, 2.1, 0.0);
(565684.2, 4152284.0, 1.9, 1.9, 0.0); (565694.2, 4152094.0, 8.1, 8.1, 0.0);
(565694.2, 4152104.0, 7.2, 8.7, 0.0); (565694.2, 4152114.0, 6.1, 8.7, 0.0);
(565694.2, 4152124.0, 5.1, 8.7, 0.0); (565694.2, 4152134.0, 4.4, 8.7, 0.0);
(565694.2, 4152144.0, 3.9, 3.9, 0.0); (565694.2, 4152154.0, 3.4, 3.4, 0.0);
(565694.2, 4152164.0, 3.3, 3.3, 0.0); (565694.2, 4152174.0, 3.5, 3.5, 0.0);
(565694.2, 4152184.0, 3.6, 3.6, 0.0); (565694.2, 4152194.0, 3.6, 3.6, 0.0);
(565694.2, 4152204.0, 3.6, 3.6, 0.0); (565694.2, 4152214.0, 3.5, 3.5, 0.0);
(565694.2, 4152224.0, 3.5, 3.5, 0.0); (565694.2, 4152234.0, 3.3, 3.3, 0.0);
(565694.2, 4152244.0, 3.2, 3.2, 0.0); (565694.2, 4152254.0, 3.0, 3.0, 0.0);
(565694.2, 4152264.0, 2.8, 2.8, 0.0); (565694.2, 4152274.0, 2.6, 2.6, 0.0);
(565694.2, 4152284.0, 2.5, 2.5, 0.0); (565704.2, 4152094.0, 8.6, 8.6, 0.0);
(565704.2, 4152104.0, 7.9, 7.9, 0.0); (565704.2, 4152114.0, 7.0, 7.0, 0.0);
(565704.2, 4152124.0, 6.1, 6.1, 0.0); (565704.2, 4152134.0, 5.3, 5.3, 0.0);
(565704.2, 4152144.0, 4.5, 4.5, 0.0); (

```
565704.2, 4152154.0,       3.7,       3.7,       0.0);
     ( 565704.2, 4152164.0,       3.5,       3.5,       0.0);         (
565704.2, 4152174.0,       3.6,       3.6,       0.0);
     ( 565704.2, 4152184.0,       3.7,       3.7,       0.0);         (
565704.2, 4152194.0,       3.6,       3.6,       0.0);
     ( 565704.2, 4152204.0,       3.6,       3.6,       0.0);         (
565704.2, 4152214.0,       3.5,       3.5,       0.0);
     ( 565704.2, 4152224.0,       3.3,       3.3,       0.0);         (
565704.2, 4152234.0,       3.1,       3.1,       0.0);
     ( 565704.2, 4152244.0,       2.9,       2.9,       0.0);         (
565704.2, 4152254.0,       2.8,       2.8,       0.0);
     ( 565704.2, 4152264.0,       2.9,       2.9,       0.0);         (
565704.2, 4152274.0,       3.0,       3.0,       0.0);
     ( 565704.2, 4152284.0,       3.0,       3.0,       0.0);         (
565714.2, 4152094.0,       7.7,       8.7,       0.0);
     ( 565714.2, 4152104.0,       7.0,       8.7,       0.0);         (
565714.2, 4152114.0,       6.1,       8.7,       0.0);
     ( 565714.2, 4152124.0,       5.2,       8.7,       0.0);         (
565714.2, 4152134.0,       4.7,       8.7,       0.0);
     ( 565714.2, 4152144.0,       4.2,       4.2,       0.0);         (
565714.2, 4152154.0,       3.7,       3.7,       0.0);
     ( 565714.2, 4152164.0,       3.6,       3.6,       0.0);         (
565714.2, 4152174.0,       3.6,       3.6,       0.0);
     ( 565714.2, 4152184.0,       3.6,       3.6,       0.0);         (
565714.2, 4152194.0,       3.5,       3.5,       0.0);
     ( 565714.2, 4152204.0,       3.4,       3.4,       0.0);         (
565714.2, 4152214.0,       3.2,       3.2,       0.0);
     ( 565714.2, 4152224.0,       3.0,       3.0,       0.0);         (
565714.2, 4152234.0,       2.8,       2.8,       0.0);
     ( 565714.2, 4152244.0,       2.5,       2.5,       0.0);         (
565714.2, 4152254.0,       2.4,       2.4,       0.0);
     ( 565714.2, 4152264.0,       2.6,       2.6,       0.0);         (
565714.2, 4152274.0,       2.7,       2.7,       0.0);
     ( 565714.2, 4152284.0,       2.8,       2.8,       0.0);         (
565724.2, 4152094.0,       6.7,       6.7,       0.0);
     ( 565724.2, 4152104.0,       6.1,       8.7,       0.0);         (
565724.2, 4152114.0,       5.3,       8.7,       0.0);
     ( 565724.2, 4152124.0,       4.4,       8.7,       0.0);         (
565724.2, 4152134.0,       4.0,       8.7,       0.0);
     ( 565724.2, 4152144.0,       3.9,       3.9,       0.0);         (
565724.2, 4152154.0,       3.8,       3.8,       0.0);
     ( 565724.2, 4152164.0,       3.7,       3.7,       0.0);         (
565724.2, 4152174.0,       3.6,       3.6,       0.0);
     ( 565724.2, 4152184.0,       3.5,       3.5,       0.0);         (
565724.2, 4152194.0,       3.4,       3.4,       0.0);
     ( 565724.2, 4152204.0,       3.1,       3.1,       0.0);         (
565724.2, 4152214.0,       2.9,       2.9,       0.0);
     ( 565724.2, 4152224.0,       2.7,       2.7,       0.0);         (
565724.2, 4152234.0,       2.4,       2.4,       0.0);
     ( 565724.2, 4152244.0,       2.1,       2.1,       0.0);         (
565724.2, 4152254.0,       2.0,       2.0,       0.0);
     ( 565724.2, 4152264.0,       2.2,       2.2,       0.0);         (
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565724.2, 4152274.0,       2.4,       2.4,       0.0);
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565724.2, 4152284.0, 2.6, 2.6, 0.0); (565734.2, 4152094.0, 5.6, 8.7, 0.0);
(565734.2, 4152104.0, 5.2, 8.7, 0.0); (565734.2, 4152114.0, 4.6, 8.7, 0.0);
(565734.2, 4152124.0, 3.9, 8.7, 0.0); (565734.2, 4152134.0, 3.7, 8.7, 0.0);
(565734.2, 4152144.0, 3.7, 3.7, 0.0); (565734.2, 4152154.0, 3.7, 3.7, 0.0);
(565734.2, 4152164.0, 3.8, 3.8, 0.0); (565734.2, 4152174.0, 3.8, 8.6, 0.0);
(565734.2, 4152184.0, 3.9, 8.6, 0.0); (565734.2, 4152194.0, 3.7, 8.6, 0.0);
(565734.2, 4152204.0, 3.5, 8.6, 0.0); (565734.2, 4152214.0, 3.2, 8.6, 0.0);
(565734.2, 4152224.0, 2.9, 8.6, 0.0); (565734.2, 4152234.0, 2.5, 7.3, 0.0);
(565734.2, 4152244.0, 2.2, 7.3, 0.0); (565734.2, 4152254.0, 2.0, 2.0, 0.0);
(565734.2, 4152264.0, 2.2, 2.2, 0.0); (565734.2, 4152274.0, 2.4, 2.4, 0.0);
(565734.2, 4152284.0, 2.6, 2.6, 0.0); (565744.2, 4152094.0, 4.5, 8.7, 0.0);
(565744.2, 4152104.0, 4.3, 8.7, 0.0); (565744.2, 4152114.0, 4.1, 8.7, 0.0);
(565744.2, 4152124.0, 3.8, 8.7, 0.0); (565744.2, 4152134.0, 3.7, 3.7, 0.0);
(565744.2, 4152144.0, 3.7, 3.7, 0.0); (565744.2, 4152154.0, 3.6, 8.6, 0.0);
(565744.2, 4152164.0, 3.8, 8.6, 0.0); (565744.2, 4152174.0, 4.1, 8.6, 0.0);
(565744.2, 4152184.0, 4.5, 8.6, 0.0); (565744.2, 4152194.0, 4.4, 8.6, 0.0);
(565744.2, 4152204.0, 4.1, 8.6, 0.0); (565744.2, 4152214.0, 3.7, 8.6, 0.0);
(565744.2, 4152224.0, 3.3, 8.6, 0.0); (565744.2, 4152234.0, 2.9, 8.6, 0.0);
(565744.2, 4152244.0, 2.5, 7.3, 0.0); (

```
565744.2, 4152254.0,       2.3,       7.3,       0.0);
     ( 565744.2, 4152264.0,       2.5,       2.5,       0.0);         (
565744.2, 4152274.0,       2.6,       2.6,       0.0);
     ( 565744.2, 4152284.0,       2.7,       2.7,       0.0);         (
565754.2, 4152094.0,       3.4,       8.7,       0.0);
     ( 565754.2, 4152104.0,       3.5,       8.7,       0.0);         (
565754.2, 4152114.0,       3.6,       3.6,       0.0);
     ( 565754.2, 4152124.0,       3.7,       3.7,       0.0);         (
565754.2, 4152134.0,       3.6,       3.6,       0.0);
     ( 565754.2, 4152144.0,       3.6,       3.6,       0.0);         (
565754.2, 4152154.0,       3.6,       8.6,       0.0);
     ( 565754.2, 4152164.0,       3.9,       8.6,       0.0);         (
565754.2, 4152174.0,       4.6,       8.6,       0.0);
     ( 565754.2, 4152184.0,       5.2,       8.6,       0.0);         (
565754.2, 4152194.0,       5.2,       8.6,       0.0);
     ( 565754.2, 4152204.0,       4.8,       8.6,       0.0);         (
565754.2, 4152214.0,       4.4,       8.6,       0.0);
     ( 565754.2, 4152224.0,       4.0,       8.6,       0.0);         (
565754.2, 4152234.0,       3.5,       7.3,       0.0);
     ( 565754.2, 4152244.0,       3.0,       7.3,       0.0);         (
565754.2, 4152254.0,       2.7,       7.3,       0.0);
     ( 565754.2, 4152264.0,       2.8,       2.8,       0.0);         (
565754.2, 4152274.0,       2.9,       2.9,       0.0);
     ( 565754.2, 4152284.0,       3.0,       3.0,       0.0);         (
565764.2, 4152094.0,       3.5,       3.5,       0.0);
     ( 565764.2, 4152104.0,       3.6,       3.6,       0.0);         (
565764.2, 4152114.0,       3.6,       3.6,       0.0);
     ( 565764.2, 4152124.0,       3.6,       3.6,       0.0);         (
565764.2, 4152134.0,       3.7,       3.7,       0.0);
     ( 565764.2, 4152144.0,       3.7,       8.6,       0.0);         (
565764.2, 4152154.0,       3.8,       8.6,       0.0);
     ( 565764.2, 4152164.0,       4.4,       8.6,       0.0);         (
565764.2, 4152174.0,       5.4,       8.6,       0.0);
     ( 565764.2, 4152184.0,       6.4,       8.6,       0.0);         (
565764.2, 4152194.0,       6.6,       8.6,       0.0);
     ( 565764.2, 4152204.0,       6.2,       8.6,       0.0);         (
565764.2, 4152214.0,       5.8,       7.3,       0.0);
     ( 565764.2, 4152224.0,       5.3,       7.3,       0.0);         (
565764.2, 4152234.0,       4.7,       7.3,       0.0);
     ( 565764.2, 4152244.0,       4.1,       7.3,       0.0);         (
565764.2, 4152254.0,       3.7,       3.7,       0.0);
     ( 565764.2, 4152264.0,       3.7,       3.7,       0.0);         (
565764.2, 4152274.0,       3.7,       3.7,       0.0);
     ( 565764.2, 4152284.0,       3.6,       3.6,       0.0);         (
565574.2, 4151994.0,       3.2,       3.2,       0.0);
     ( 565574.2, 4151984.0,       3.2,       3.2,       0.0);         (
565574.2, 4151974.0,       3.3,       3.3,       0.0);
     ( 565574.2, 4151964.0,       3.2,       3.2,       0.0);         (
565574.2, 4151954.0,       3.0,       3.0,       0.0);
     ( 565574.2, 4151944.0,       2.9,       2.9,       0.0);         (
565574.2, 4151934.0,       2.9,       2.9,       0.0);
     ( 565574.2, 4151924.0,       2.9,       2.9,       0.0);         (
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565574.2, 4151914.0,       3.0,       3.0,       0.0);
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565574.2, 4151904.0, 3.1, 3.1, 0.0); (565574.2, 4151894.0, 3.2, 3.2, 0.0);
(565574.2, 4151884.0, 3.3, 3.3, 0.0); (565574.2, 4151874.0, 3.4, 3.4, 0.0);
(565574.2, 4151864.0, 3.4, 3.4, 0.0); (565574.2, 4151854.0, 3.4, 3.4, 0.0);
(565574.2, 4151844.0, 3.5, 3.5, 0.0); (565574.2, 4151834.0, 3.5, 3.5, 0.0);
(565574.2, 4151824.0, 3.6, 3.6, 0.0); (565574.2, 4151814.0, 3.6, 3.6, 0.0);
(565574.2, 4151804.0, 3.6, 3.6, 0.0); (565574.2, 4151794.0, 3.6, 3.6, 0.0);
(565574.2, 4151784.0, 3.6, 3.6, 0.0); (565584.2, 4151984.0, 3.3, 3.3, 0.0);
(565584.2, 4151974.0, 3.5, 3.5, 0.0); (565584.2, 4151964.0, 3.4, 3.4, 0.0);
(565584.2, 4151954.0, 3.2, 3.2, 0.0); (565584.2, 4151944.0, 3.0, 3.0, 0.0);
(565584.2, 4151934.0, 3.0, 3.0, 0.0); (565584.2, 4151924.0, 3.0, 3.0, 0.0);
(565584.2, 4151914.0, 3.1, 3.1, 0.0); (565584.2, 4151904.0, 3.2, 3.2, 0.0);
(565584.2, 4151894.0, 3.3, 3.3, 0.0); (565584.2, 4151884.0, 3.4, 3.4, 0.0);
(565584.2, 4151874.0, 3.5, 3.5, 0.0); (565584.2, 4151864.0, 3.5, 3.5, 0.0);
(565584.2, 4151854.0, 3.6, 3.6, 0.0); (565584.2, 4151844.0, 3.6, 3.6, 0.0);
(565584.2, 4151834.0, 3.5, 3.5, 0.0); (565584.2, 4151824.0, 3.5, 3.5, 0.0);
(565584.2, 4151814.0, 3.5, 3.5, 0.0); (565584.2, 4151804.0, 3.6, 3.6, 0.0);
(565584.2, 4151794.0, 3.6, 3.6, 0.0); (565584.2, 4151784.0, 3.7, 3.7, 0.0);
(565594.2, 4151984.0, 3.2, 3.2, 0.0); (565594.2, 4151974.0, 3.4, 3.4, 0.0);
(565594.2, 4151964.0, 3.4, 3.4, 0.0); (

```
565594.2, 4151954.0,       3.3,       3.3,       0.0);
     ( 565594.2, 4151944.0,       3.2,       3.2,       0.0);         (
565594.2, 4151934.0,       3.2,       3.2,       0.0);
     ( 565594.2, 4151924.0,       3.2,       3.2,       0.0);         (
565594.2, 4151914.0,       3.2,       3.2,       0.0);
     ( 565594.2, 4151904.0,       3.2,       3.2,       0.0);         (
565594.2, 4151894.0,       3.3,       3.3,       0.0);
     ( 565594.2, 4151884.0,       3.3,       3.3,       0.0);         (
565594.2, 4151874.0,       3.4,       3.4,       0.0);
     ( 565594.2, 4151864.0,       3.4,       3.4,       0.0);         (
565594.2, 4151854.0,       3.5,       3.5,       0.0);
     ( 565594.2, 4151844.0,       3.5,       3.5,       0.0);         (
565594.2, 4151834.0,       3.5,       3.5,       0.0);
     ( 565594.2, 4151824.0,       3.4,       3.4,       0.0);         (
565594.2, 4151814.0,       3.4,       3.4,       0.0);
     ( 565594.2, 4151804.0,       3.6,       3.6,       0.0);         (
565594.2, 4151794.0,       3.7,       3.7,       0.0);
     ( 565594.2, 4151784.0,       3.9,       3.9,       0.0);         (
565604.2, 4152084.0,       2.5,       2.5,       0.0);
     ( 565604.2, 4151994.0,       2.9,       2.9,       0.0);         (
565604.2, 4151984.0,       3.1,       3.1,       0.0);
     ( 565604.2, 4151974.0,       3.3,       3.3,       0.0);         (
565604.2, 4151964.0,       3.3,       3.3,       0.0);
     ( 565604.2, 4151954.0,       3.4,       3.4,       0.0);         (
565604.2, 4151944.0,       3.4,       3.4,       0.0);
     ( 565604.2, 4151934.0,       3.4,       3.4,       0.0);         (
565604.2, 4151924.0,       3.4,       3.4,       0.0);
     ( 565604.2, 4151914.0,       3.3,       3.3,       0.0);         (
565604.2, 4151904.0,       3.3,       3.3,       0.0);
     ( 565604.2, 4151894.0,       3.2,       3.2,       0.0);         (
565604.2, 4151884.0,       3.2,       3.2,       0.0);
     ( 565604.2, 4151874.0,       3.2,       3.2,       0.0);         (
565604.2, 4151864.0,       3.3,       3.3,       0.0);
     ( 565604.2, 4151854.0,       3.4,       3.4,       0.0);         (
565604.2, 4151844.0,       3.5,       3.5,       0.0);
     ( 565604.2, 4151834.0,       3.4,       3.4,       0.0);         (
565604.2, 4151824.0,       3.3,       3.3,       0.0);
     ( 565604.2, 4151814.0,       3.3,       3.3,       0.0);         (
565604.2, 4151804.0,       3.6,       3.6,       0.0);
     ( 565604.2, 4151794.0,       3.8,       3.8,       0.0);         (
565604.2, 4151784.0,       4.0,       4.0,       0.0);
     ( 565614.2, 4152084.0,       3.0,       3.0,       0.0);         (
565614.2, 4152074.0,       3.0,       3.0,       0.0);
     ( 565614.2, 4152064.0,       2.9,       2.9,       0.0);         (
565614.2, 4152004.0,       3.0,       3.0,       0.0);
     ( 565614.2, 4151994.0,       3.1,       3.1,       0.0);         (
565614.2, 4151984.0,       3.3,       3.3,       0.0);
     ( 565614.2, 4151974.0,       3.4,       3.4,       0.0);         (
565614.2, 4151964.0,       3.4,       3.4,       0.0);
     ( 565614.2, 4151954.0,       3.4,       3.4,       0.0);         (
565614.2, 4151944.0,       3.4,       3.4,       0.0);
     ( 565614.2, 4151934.0,       3.4,       3.4,       0.0);         (
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565614.2, 4151924.0,       3.3,       3.3,       0.0);
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565614.2, 4151914.0, 3.2, 3.2, 0.0); (565614.2, 4151904.0, 3.2, 3.2, 0.0);
(565614.2, 4151894.0, 3.1, 3.1, 0.0); (565614.2, 4151884.0, 3.0, 3.0, 0.0);
(565614.2, 4151874.0, 3.0, 3.0, 0.0); (565614.2, 4151864.0, 3.1, 3.1, 0.0);
(565614.2, 4151854.0, 3.3, 3.3, 0.0); (565614.2, 4151844.0, 3.3, 3.3, 0.0);
(565614.2, 4151834.0, 3.3, 3.3, 0.0); (565614.2, 4151824.0, 3.3, 3.3, 0.0);
(565614.2, 4151814.0, 3.4, 3.4, 0.0); (565614.2, 4151804.0, 3.6, 3.6, 0.0);
(565614.2, 4151794.0, 3.8, 3.8, 0.0); (565614.2, 4151784.0, 4.0, 4.0, 0.0);
(565624.2, 4152084.0, 3.6, 3.6, 0.0); (565624.2, 4152074.0, 3.6, 3.6, 0.0);
(565624.2, 4152064.0, 3.5, 3.5, 0.0); (565624.2, 4152054.0, 3.3, 3.3, 0.0);
(565624.2, 4152044.0, 3.0, 3.0, 0.0); (565624.2, 4152034.0, 2.8, 2.8, 0.0);
(565624.2, 4152024.0, 3.0, 3.0, 0.0); (565624.2, 4152014.0, 3.2, 3.2, 0.0);
(565624.2, 4152004.0, 3.4, 3.4, 0.0); (565624.2, 4151994.0, 3.5, 3.5, 0.0);
(565624.2, 4151984.0, 3.6, 3.6, 0.0); (565624.2, 4151974.0, 3.7, 3.7, 0.0);
(565624.2, 4151964.0, 3.6, 3.6, 0.0); (565624.2, 4151954.0, 3.4, 3.4, 0.0);
(565624.2, 4151944.0, 3.3, 3.3, 0.0); (565624.2, 4151934.0, 3.2, 3.2, 0.0);
(565624.2, 4151924.0, 3.1, 3.1, 0.0); (565624.2, 4151914.0, 3.1, 3.1, 0.0);
(565624.2, 4151904.0, 3.0, 3.0, 0.0); (565624.2, 4151894.0, 2.9, 2.9, 0.0);
(565624.2, 4151884.0, 2.8, 2.8, 0.0); (565624.2, 4151874.0, 2.9, 2.9, 0.0);
(565624.2, 4151864.0, 2.9, 2.9, 0.0); (

565624.2, 4151854.0, 3.0, 3.0, 0.0);
     (565624.2, 4151844.0, 3.1, 3.1, 0.0); (
565624.2, 4151834.0, 3.3, 3.3, 0.0);
     (565624.2, 4151824.0, 3.4, 3.4, 0.0); (
565624.2, 4151814.0, 3.6, 3.6, 0.0);
     (565624.2, 4151804.0, 3.7, 3.7, 0.0); (
565624.2, 4151794.0, 3.8, 3.8, 0.0);
     (565624.2, 4151784.0, 3.9, 3.9, 0.0); (
565634.2, 4152084.0, 4.1, 4.1, 0.0);
     (565634.2, 4152074.0, 4.1, 4.1, 0.0); (
565634.2, 4152064.0, 4.0, 4.0, 0.0);
     (565634.2, 4152054.0, 3.7, 3.7, 0.0); (
565634.2, 4152044.0, 3.3, 3.3, 0.0);
     (565634.2, 4152034.0, 3.0, 3.0, 0.0); (
565634.2, 4152024.0, 3.2, 3.2, 0.0);
     (565634.2, 4152014.0, 3.4, 3.4, 0.0); (
565634.2, 4152004.0, 3.7, 3.7, 0.0);
     (565634.2, 4151994.0, 3.7, 3.7, 0.0); (
565634.2, 4151984.0, 3.8, 3.8, 0.0);
     (565634.2, 4151974.0, 3.8, 3.8, 0.0); (
565634.2, 4151964.0, 3.6, 3.6, 0.0);
     (565634.2, 4151954.0, 3.4, 3.4, 0.0); (
565634.2, 4151944.0, 3.2, 3.2, 0.0);
     (565634.2, 4151934.0, 3.1, 3.1, 0.0); (
565634.2, 4151924.0, 3.0, 3.0, 0.0);
     (565634.2, 4151914.0, 3.0, 3.0, 0.0); (
565634.2, 4151904.0, 2.9, 2.9, 0.0);
     (565634.2, 4151894.0, 2.8, 2.8, 0.0); (
565634.2, 4151884.0, 2.7, 2.7, 0.0);
     (565634.2, 4151874.0, 2.7, 2.7, 0.0); (
565634.2, 4151864.0, 2.8, 2.8, 0.0);
     (565634.2, 4151854.0, 2.8, 2.8, 0.0); (
565634.2, 4151844.0, 3.0, 3.0, 0.0);
     (565634.2, 4151834.0, 3.3, 3.3, 0.0); (
565634.2, 4151824.0, 3.5, 3.5, 0.0);
     (565634.2, 4151814.0, 3.7, 3.7, 0.0); (
565634.2, 4151804.0, 3.8, 3.8, 0.0);
     (565634.2, 4151794.0, 3.8, 3.8, 0.0); (
565634.2, 4151784.0, 3.8, 3.8, 0.0);
     (565644.2, 4152084.0, 4.3, 4.3, 0.0); (
565644.2, 4152074.0, 4.4, 4.4, 0.0);
     (565644.2, 4152064.0, 4.5, 4.5, 0.0); (
565644.2, 4152054.0, 4.3, 4.3, 0.0);
     (565644.2, 4152044.0, 4.1, 4.1, 0.0); (
565644.2, 4152034.0, 3.9, 3.9, 0.0);
     (565644.2, 4152024.0, 3.9, 3.9, 0.0); (
565644.2, 4152014.0, 3.9, 3.9, 0.0);
     (565644.2, 4152004.0, 3.9, 3.9, 0.0); (
565644.2, 4151994.0, 3.8, 3.8, 0.0);
     (565644.2, 4151984.0, 3.7, 3.7, 0.0); (
565644.2, 4151974.0, 3.6, 3.6, 0.0);
     (565644.2, 4151964.0, 3.4, 3.4, 0.0); (

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565644.2, 4151954.0,       3.2,       3.2,       0.0);
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565644.2, 4151944.0, 3.0, 3.0, 0.0); (565644.2, 4151934.0, 2.9, 2.9, 0.0);
(565644.2, 4151924.0, 3.0, 3.0, 0.0); (565644.2, 4151914.0, 3.0, 3.0, 0.0);
(565644.2, 4151904.0, 2.9, 2.9, 0.0); (565644.2, 4151894.0, 2.8, 2.8, 0.0);
(565644.2, 4151884.0, 2.8, 2.8, 0.0); (565644.2, 4151874.0, 2.8, 2.8, 0.0);
(565644.2, 4151864.0, 2.9, 2.9, 0.0); (565644.2, 4151854.0, 3.0, 3.0, 0.0);
(565644.2, 4151844.0, 3.1, 3.1, 0.0); (565644.2, 4151834.0, 3.3, 3.3, 0.0);
(565644.2, 4151824.0, 3.6, 3.6, 0.0); (565644.2, 4151814.0, 3.7, 3.7, 0.0);
(565644.2, 4151804.0, 3.6, 3.6, 0.0); (565644.2, 4151794.0, 3.5, 3.5, 0.0);
(565644.2, 4151784.0, 3.5, 3.5, 0.0); (565654.2, 4152084.0, 4.6, 4.6, 0.0);
(565654.2, 4152074.0, 4.7, 4.7, 0.0); (565654.2, 4152064.0, 4.9, 4.9, 0.0);
(565654.2, 4152054.0, 4.8, 4.8, 0.0); (565654.2, 4152044.0, 4.8, 4.8, 0.0);
(565654.2, 4152034.0, 4.7, 4.7, 0.0); (565654.2, 4152024.0, 4.5, 4.5, 0.0);
(565654.2, 4152014.0, 4.3, 4.3, 0.0); (565654.2, 4152004.0, 4.1, 4.1, 0.0);
(565654.2, 4151994.0, 3.9, 3.9, 0.0); (565654.2, 4151984.0, 3.7, 3.7, 0.0);
(565654.2, 4151974.0, 3.5, 3.5, 0.0); (565654.2, 4151964.0, 3.2, 3.2, 0.0);
(565654.2, 4151954.0, 3.0, 3.0, 0.0); (565654.2, 4151944.0, 2.8, 2.8, 0.0);
(565654.2, 4151934.0, 2.8, 2.8, 0.0); (565654.2, 4151924.0, 2.9, 2.9, 0.0);
(565654.2, 4151914.0, 3.0, 3.0, 0.0); (565654.2, 4151904.0, 3.0, 3.0, 0.0);
(565654.2, 4151894.0, 2.9, 2.9, 0.0); (

```
565654.2, 4151884.0,       2.8,       2.8,       0.0);
     ( 565654.2, 4151874.0,       2.9,       2.9,       0.0);         (
565654.2, 4151864.0,       3.0,       3.0,       0.0);
     ( 565654.2, 4151854.0,       3.1,       3.1,       0.0);         (
565654.2, 4151844.0,       3.2,       3.2,       0.0);
     ( 565654.2, 4151834.0,       3.4,       3.4,       0.0);         (
565654.2, 4151824.0,       3.6,       3.6,       0.0);
     ( 565654.2, 4151814.0,       3.6,       3.6,       0.0);         (
565654.2, 4151804.0,       3.5,       3.5,       0.0);
     ( 565654.2, 4151794.0,       3.3,       3.3,       0.0);         (
565654.2, 4151784.0,       3.2,       3.2,       0.0);
     ( 565664.2, 4152084.0,       5.5,       5.5,       0.0);         (
565664.2, 4152074.0,       5.5,       5.5,       0.0);
     ( 565664.2, 4152064.0,       5.6,       5.6,       0.0);         (
565664.2, 4152054.0,       5.4,       5.4,       0.0);
     ( 565664.2, 4152044.0,       5.2,       5.2,       0.0);         (
565664.2, 4152034.0,       5.0,       5.0,       0.0);
     ( 565664.2, 4152024.0,       4.7,       4.7,       0.0);         (
565664.2, 4152014.0,       4.4,       4.4,       0.0);
     ( 565664.2, 4152004.0,       4.1,       4.1,       0.0);         (
565664.2, 4151994.0,       3.8,       3.8,       0.0);
     ( 565664.2, 4151984.0,       3.4,       3.4,       0.0);         (
565664.2, 4151974.0,       3.1,       3.1,       0.0);
     ( 565664.2, 4151964.0,       3.0,       3.0,       0.0);         (
565664.2, 4151954.0,       2.9,       2.9,       0.0);
     ( 565664.2, 4151944.0,       2.9,       2.9,       0.0);         (
565664.2, 4151934.0,       2.9,       2.9,       0.0);
     ( 565664.2, 4151924.0,       2.9,       2.9,       0.0);         (
565664.2, 4151914.0,       3.0,       3.0,       0.0);
     ( 565664.2, 4151904.0,       3.0,       3.0,       0.0);         (
565664.2, 4151894.0,       2.9,       2.9,       0.0);
     ( 565664.2, 4151884.0,       2.9,       2.9,       0.0);         (
565664.2, 4151874.0,       2.9,       2.9,       0.0);
     ( 565664.2, 4151864.0,       3.0,       3.0,       0.0);         (
565664.2, 4151854.0,       3.1,       3.1,       0.0);
     ( 565664.2, 4151844.0,       3.2,       3.2,       0.0);         (
565664.2, 4151834.0,       3.3,       3.3,       0.0);
     ( 565664.2, 4151824.0,       3.4,       3.4,       0.0);         (
565664.2, 4151814.0,       3.4,       3.4,       0.0);
     ( 565664.2, 4151804.0,       3.2,       3.2,       0.0);         (
565664.2, 4151794.0,       3.1,       3.1,       0.0);
     ( 565664.2, 4151784.0,       3.0,       3.0,       0.0);         (
565674.2, 4152084.0,       6.5,       6.5,       0.0);
     ( 565674.2, 4152074.0,       6.4,       6.4,       0.0);         (
565674.2, 4152064.0,       6.3,       6.3,       0.0);
     ( 565674.2, 4152054.0,       5.9,       5.9,       0.0);         (
565674.2, 4152044.0,       5.6,       5.6,       0.0);
     ( 565674.2, 4152034.0,       5.2,       5.2,       0.0);         (
565674.2, 4152024.0,       4.8,       4.8,       0.0);
     ( 565674.2, 4152014.0,       4.5,       4.5,       0.0);         (
565674.2, 4152004.0,       4.1,       4.1,       0.0);
     ( 565674.2, 4151994.0,       3.6,       3.6,       0.0);         (
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565674.2, 4151984.0,       3.1,       3.1,       0.0);
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565674.2, 4151974.0, 2.6, 2.6, 0.0); (565674.2, 4151964.0, 2.7, 2.7, 0.0);
(565674.2, 4151954.0, 2.9, 2.9, 0.0); (565674.2, 4151944.0, 3.1, 3.1, 0.0);
(565674.2, 4151934.0, 3.1, 3.1, 0.0); (565674.2, 4151924.0, 3.0, 3.0, 0.0);
(565674.2, 4151914.0, 3.0, 3.0, 0.0); (565674.2, 4151904.0, 3.0, 3.0, 0.0);
(565674.2, 4151894.0, 3.0, 3.0, 0.0); (565674.2, 4151884.0, 3.0, 3.0, 0.0);
(565674.2, 4151874.0, 3.0, 3.0, 0.0); (565674.2, 4151864.0, 3.1, 3.1, 0.0);
(565674.2, 4151854.0, 3.1, 3.1, 0.0); (565674.2, 4151844.0, 3.1, 3.1, 0.0);
(565674.2, 4151834.0, 3.1, 3.1, 0.0); (565674.2, 4151824.0, 3.0, 3.0, 0.0);
(565674.2, 4151814.0, 3.0, 3.0, 0.0); (565674.2, 4151804.0, 3.0, 3.0, 0.0);
(565674.2, 4151794.0, 3.0, 3.0, 0.0); (565674.2, 4151784.0, 3.0, 3.0, 0.0);
(565684.2, 4152084.0, 7.3, 7.3, 0.0); (565684.2, 4152074.0, 7.1, 7.1, 0.0);
(565684.2, 4152064.0, 6.8, 6.8, 0.0); (565684.2, 4152054.0, 6.3, 6.3, 0.0);
(565684.2, 4152044.0, 5.7, 5.7, 0.0); (565684.2, 4152034.0, 5.2, 5.2, 0.0);
(565684.2, 4152024.0, 4.8, 4.8, 0.0); (565684.2, 4152014.0, 4.4, 4.4, 0.0);
(565684.2, 4152004.0, 4.0, 4.0, 0.0); (565684.2, 4151994.0, 3.5, 3.5, 0.0);
(565684.2, 4151984.0, 2.9, 2.9, 0.0); (565684.2, 4151974.0, 2.3, 2.3, 0.0);
(565684.2, 4151964.0, 2.5, 2.5, 0.0); (565684.2, 4151954.0, 2.8, 2.8, 0.0);
(565684.2, 4151944.0, 3.2, 3.2, 0.0); (565684.2, 4151934.0, 3.2, 3.2, 0.0);
(565684.2, 4151924.0, 3.1, 3.1, 0.0); (

```
565684.2, 4151914.0,       3.0,       3.0,       0.0);
     ( 565684.2, 4151904.0,       2.9,       2.9,       0.0);         (
565684.2, 4151894.0,       3.0,       3.0,       0.0);
     ( 565684.2, 4151884.0,       3.0,       3.0,       0.0);         (
565684.2, 4151874.0,       3.1,       3.1,       0.0);
     ( 565684.2, 4151864.0,       3.1,       3.1,       0.0);         (
565684.2, 4151854.0,       3.1,       3.1,       0.0);
     ( 565684.2, 4151844.0,       3.0,       3.0,       0.0);         (
565684.2, 4151834.0,       2.9,       2.9,       0.0);
     ( 565684.2, 4151824.0,       2.8,       2.8,       0.0);         (
565684.2, 4151814.0,       2.7,       2.7,       0.0);
     ( 565684.2, 4151804.0,       2.8,       2.8,       0.0);         (
565684.2, 4151794.0,       2.9,       2.9,       0.0);
     ( 565684.2, 4151784.0,       3.0,       3.0,       0.0);         (
565694.2, 4152084.0,       7.7,       7.7,       0.0);
     ( 565694.2, 4152074.0,       7.4,       7.4,       0.0);         (
565694.2, 4152064.0,       7.0,       7.0,       0.0);
     ( 565694.2, 4152054.0,       6.2,       6.2,       0.0);         (
565694.2, 4152044.0,       5.5,       5.5,       0.0);
     ( 565694.2, 4152034.0,       4.8,       4.8,       0.0);         (
565694.2, 4152024.0,       4.5,       4.5,       0.0);
     ( 565694.2, 4152014.0,       4.3,       4.3,       0.0);         (
565694.2, 4152004.0,       4.1,       4.1,       0.0);
     ( 565694.2, 4151994.0,       3.5,       3.5,       0.0);         (
565694.2, 4151984.0,       2.9,       2.9,       0.0);
     ( 565694.2, 4151974.0,       2.3,       2.3,       0.0);         (
565694.2, 4151964.0,       2.4,       2.4,       0.0);
     ( 565694.2, 4151954.0,       2.7,       2.7,       0.0);         (
565694.2, 4151944.0,       3.0,       3.0,       0.0);
     ( 565694.2, 4151934.0,       3.0,       3.0,       0.0);         (
565694.2, 4151924.0,       3.0,       3.0,       0.0);
     ( 565694.2, 4151914.0,       3.0,       3.0,       0.0);         (
565694.2, 4151904.0,       3.0,       3.0,       0.0);
     ( 565694.2, 4151894.0,       3.0,       3.0,       0.0);         (
565694.2, 4151884.0,       3.0,       3.0,       0.0);
     ( 565694.2, 4151874.0,       3.0,       3.0,       0.0);         (
565694.2, 4151864.0,       3.0,       3.0,       0.0);
     ( 565694.2, 4151854.0,       3.0,       3.0,       0.0);         (
565694.2, 4151844.0,       3.0,       3.0,       0.0);
     ( 565694.2, 4151834.0,       2.9,       2.9,       0.0);         (
565694.2, 4151824.0,       2.8,       2.8,       0.0);
     ( 565694.2, 4151814.0,       2.8,       2.8,       0.0);         (
565694.2, 4151804.0,       2.8,       2.8,       0.0);
     ( 565694.2, 4151794.0,       2.9,       2.9,       0.0);         (
565694.2, 4151784.0,       2.9,       2.9,       0.0);
     ( 565704.2, 4152084.0,       8.2,       8.2,       0.0);         (
565704.2, 4152074.0,       7.7,       7.7,       0.0);
     ( 565704.2, 4152064.0,       7.2,       7.2,       0.0);         (
565704.2, 4152054.0,       6.2,       6.2,       0.0);
     ( 565704.2, 4152044.0,       5.3,       5.3,       0.0);         (
565704.2, 4152034.0,       4.3,       4.3,       0.0);
     ( 565704.2, 4152024.0,       4.2,       4.2,       0.0);         (
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565704.2, 4152014.0,       4.2,       4.2,       0.0);
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565704.2, 4152004.0, 4.1, 4.1, 0.0); (565704.2, 4151994.0, 3.5, 3.5, 0.0);
(565704.2, 4151984.0, 2.9, 2.9, 0.0); (565704.2, 4151974.0, 2.3, 2.3, 0.0);
(565704.2, 4151964.0, 2.4, 2.4, 0.0); (565704.2, 4151954.0, 2.6, 2.6, 0.0);
(565704.2, 4151944.0, 2.8, 2.8, 0.0); (565704.2, 4151934.0, 2.9, 2.9, 0.0);
(565704.2, 4151924.0, 2.9, 2.9, 0.0); (565704.2, 4151914.0, 3.0, 3.0, 0.0);
(565704.2, 4151904.0, 3.0, 3.0, 0.0); (565704.2, 4151894.0, 3.0, 3.0, 0.0);
(565704.2, 4151884.0, 3.0, 3.0, 0.0); (565704.2, 4151874.0, 3.0, 3.0, 0.0);
(565704.2, 4151864.0, 3.0, 3.0, 0.0); (565704.2, 4151854.0, 3.0, 3.0, 0.0);
(565704.2, 4151844.0, 2.9, 2.9, 0.0); (565704.2, 4151834.0, 2.9, 2.9, 0.0);
(565704.2, 4151824.0, 2.9, 2.9, 0.0); (565704.2, 4151814.0, 2.9, 2.9, 0.0);
(565704.2, 4151804.0, 2.8, 2.8, 0.0); (565704.2, 4151794.0, 2.8, 2.8, 0.0);
(565704.2, 4151784.0, 2.8, 2.8, 0.0); (565714.2, 4152084.0, 6.9, 8.7, 0.0);
(565714.2, 4152074.0, 6.1, 8.7, 0.0); (565714.2, 4152064.0, 5.4, 7.3, 0.0);
(565714.2, 4152054.0, 4.8, 7.3, 0.0); (565714.2, 4152044.0, 4.1, 7.3, 0.0);
(565714.2, 4152034.0, 3.5, 7.3, 0.0); (565714.2, 4152024.0, 3.5, 3.5, 0.0);
(565714.2, 4152014.0, 3.6, 3.6, 0.0); (565714.2, 4152004.0, 3.6, 3.6, 0.0);
(565714.2, 4151994.0, 3.2, 3.2, 0.0); (565714.2, 4151984.0, 2.8, 2.8, 0.0);
(565714.2, 4151974.0, 2.3, 2.3, 0.0); (565714.2, 4151964.0, 2.4, 2.4, 0.0);
(565714.2, 4151954.0, 2.6, 2.6, 0.0); (

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565714.2, 4151944.0,       2.8,       2.8,       0.0);
     ( 565714.2, 4151934.0,       2.9,       2.9,       0.0);         (
565714.2, 4151924.0,       2.9,       2.9,       0.0);
     ( 565714.2, 4151914.0,       2.9,       2.9,       0.0);         (
565714.2, 4151904.0,       2.9,       2.9,       0.0);
     ( 565714.2, 4151894.0,       2.9,       2.9,       0.0);         (
565714.2, 4151884.0,       2.9,       2.9,       0.0);
     ( 565714.2, 4151874.0,       2.9,       2.9,       0.0);         (
565714.2, 4151864.0,       2.9,       2.9,       0.0);
     ( 565714.2, 4151854.0,       2.9,       2.9,       0.0);         (
565714.2, 4151844.0,       2.9,       2.9,       0.0);
     ( 565714.2, 4151834.0,       2.9,       2.9,       0.0);         (
565714.2, 4151824.0,       2.9,       2.9,       0.0);
     ( 565714.2, 4151814.0,       2.8,       2.8,       0.0);         (
565714.2, 4151804.0,       2.8,       2.8,       0.0);
     ( 565714.2, 4151794.0,       2.7,       2.7,       0.0);         (
565714.2, 4151784.0,       2.7,       2.7,       0.0);
     ( 565724.2, 4152084.0,       5.6,       8.7,       0.0);         (
565724.2, 4152074.0,       4.5,       8.7,       0.0);
     ( 565724.2, 4152064.0,       3.5,       8.7,       0.0);         (
565724.2, 4152054.0,       3.2,       8.7,       0.0);
     ( 565724.2, 4152044.0,       2.9,       8.7,       0.0);         (
565724.2, 4152034.0,       2.6,       7.3,       0.0);
     ( 565724.2, 4152024.0,       2.8,       2.8,       0.0);         (
565724.2, 4152014.0,       3.0,       3.0,       0.0);
     ( 565724.2, 4152004.0,       3.1,       3.1,       0.0);         (
565724.2, 4151994.0,       2.9,       2.9,       0.0);
     ( 565724.2, 4151984.0,       2.6,       2.6,       0.0);         (
565724.2, 4151974.0,       2.3,       2.3,       0.0);
     ( 565724.2, 4151964.0,       2.4,       2.4,       0.0);         (
565724.2, 4151954.0,       2.6,       2.6,       0.0);
     ( 565724.2, 4151944.0,       2.9,       2.9,       0.0);         (
565724.2, 4151934.0,       2.9,       2.9,       0.0);
     ( 565724.2, 4151924.0,       2.9,       2.9,       0.0);         (
565724.2, 4151914.0,       2.9,       2.9,       0.0);
     ( 565724.2, 4151904.0,       2.9,       2.9,       0.0);         (
565724.2, 4151894.0,       2.9,       2.9,       0.0);
     ( 565724.2, 4151884.0,       2.9,       2.9,       0.0);         (
565724.2, 4151874.0,       2.9,       2.9,       0.0);
     ( 565724.2, 4151864.0,       2.9,       2.9,       0.0);         (
565724.2, 4151854.0,       3.0,       3.0,       0.0);
     ( 565724.2, 4151844.0,       2.9,       2.9,       0.0);         (
565724.2, 4151834.0,       2.9,       2.9,       0.0);
     ( 565724.2, 4151824.0,       2.8,       2.8,       0.0);         (
565724.2, 4151814.0,       2.7,       2.7,       0.0);
     ( 565724.2, 4151804.0,       2.7,       2.7,       0.0);         (
565724.2, 4151794.0,       2.6,       2.6,       0.0);
     ( 565724.2, 4151784.0,       2.5,       2.5,       0.0);         (
565734.2, 4152084.0,       4.6,       8.7,       0.0);
     ( 565734.2, 4152074.0,       3.6,       8.7,       0.0);         (
565734.2, 4152064.0,       2.6,       8.7,       0.0);
     ( 565734.2, 4152054.0,       2.5,       8.7,       0.0);         (
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565734.2, 4152044.0,       2.4,       8.7,       0.0);
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565734.2, 4152034.0, 2.2, 7.3, 0.0); (565734.2, 4152024.0, 2.4, 2.4, 0.0);
(565734.2, 4152014.0, 2.6, 2.6, 0.0); (565734.2, 4152004.0, 2.8, 2.8, 0.0);
(565734.2, 4151994.0, 2.7, 2.7, 0.0); (565734.2, 4151984.0, 2.4, 2.4, 0.0);
(565734.2, 4151974.0, 2.2, 2.2, 0.0); (565734.2, 4151964.0, 2.4, 2.4, 0.0);
(565734.2, 4151954.0, 2.6, 2.6, 0.0); (565734.2, 4151944.0, 2.9, 2.9, 0.0);
(565734.2, 4151934.0, 2.9, 2.9, 0.0); (565734.2, 4151924.0, 2.9, 2.9, 0.0);
(565734.2, 4151914.0, 2.8, 2.8, 0.0); (565734.2, 4151904.0, 2.8, 2.8, 0.0);
(565734.2, 4151894.0, 2.8, 2.8, 0.0); (565734.2, 4151884.0, 2.8, 2.8, 0.0);
(565734.2, 4151874.0, 2.9, 2.9, 0.0); (565734.2, 4151864.0, 2.9, 2.9, 0.0);
(565734.2, 4151854.0, 2.9, 2.9, 0.0); (565734.2, 4151844.0, 2.9, 2.9, 0.0);
(565734.2, 4151834.0, 2.9, 2.9, 0.0); (565734.2, 4151824.0, 2.8, 2.8, 0.0);
(565734.2, 4151814.0, 2.7, 2.7, 0.0); (565734.2, 4151804.0, 2.6, 2.6, 0.0);
(565734.2, 4151794.0, 2.5, 2.5, 0.0); (565734.2, 4151784.0, 2.5, 2.5, 0.0);
(565744.2, 4152084.0, 3.8, 8.7, 0.0); (565744.2, 4152074.0, 3.2, 8.7, 0.0);
(565744.2, 4152064.0, 2.7, 8.7, 0.0); (565744.2, 4152054.0, 2.5, 8.7, 0.0);
(565744.2, 4152044.0, 2.4, 7.3, 0.0); (565744.2, 4152034.0, 2.2, 7.3, 0.0);
(565744.2, 4152024.0, 2.4, 2.4, 0.0); (565744.2, 4152014.0, 2.6, 2.6, 0.0);
(565744.2, 4152004.0, 2.8, 2.8, 0.0); (565744.2, 4151994.0, 2.6, 2.6, 0.0);
(565744.2, 4151984.0, 2.4, 2.4, 0.0); (

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565744.2, 4151974.0,       2.2,       2.2,       0.0);
     ( 565744.2, 4151964.0,       2.4,       2.4,       0.0);         (
565744.2, 4151954.0,       2.6,       2.6,       0.0);
     ( 565744.2, 4151944.0,       2.9,       2.9,       0.0);         (
565744.2, 4151934.0,       2.8,       2.8,       0.0);
     ( 565744.2, 4151924.0,       2.8,       2.8,       0.0);         (
565744.2, 4151914.0,       2.7,       2.7,       0.0);
     ( 565744.2, 4151904.0,       2.7,       2.7,       0.0);         (
565744.2, 4151894.0,       2.8,       2.8,       0.0);
     ( 565744.2, 4151884.0,       2.8,       2.8,       0.0);         (
565744.2, 4151874.0,       2.9,       2.9,       0.0);
     ( 565744.2, 4151864.0,       2.9,       2.9,       0.0);         (
565744.2, 4151854.0,       2.9,       2.9,       0.0);
     ( 565744.2, 4151844.0,       2.9,       2.9,       0.0);         (
565744.2, 4151834.0,       2.9,       2.9,       0.0);
     ( 565744.2, 4151824.0,       2.8,       2.8,       0.0);         (
565744.2, 4151814.0,       2.8,       2.8,       0.0);
     ( 565744.2, 4151804.0,       2.7,       2.7,       0.0);         (
565744.2, 4151794.0,       2.6,       2.6,       0.0);
     ( 565744.2, 4151784.0,       2.6,       2.6,       0.0);         (
565754.2, 4152084.0,       3.2,       8.7,       0.0);
     ( 565754.2, 4152074.0,       2.9,       8.7,       0.0);         (
565754.2, 4152064.0,       2.7,       8.7,       0.0);
     ( 565754.2, 4152054.0,       2.6,       2.6,       0.0);         (
565754.2, 4152044.0,       2.4,       2.4,       0.0);
     ( 565754.2, 4152034.0,       2.2,       2.2,       0.0);         (
565754.2, 4152024.0,       2.4,       2.4,       0.0);
     ( 565754.2, 4152014.0,       2.6,       2.6,       0.0);         (
565754.2, 4152004.0,       2.8,       2.8,       0.0);
     ( 565754.2, 4151994.0,       2.6,       2.6,       0.0);         (
565754.2, 4151984.0,       2.4,       2.4,       0.0);
     ( 565754.2, 4151974.0,       2.2,       2.2,       0.0);         (
565754.2, 4151964.0,       2.4,       2.4,       0.0);
     ( 565754.2, 4151954.0,       2.6,       2.6,       0.0);         (
565754.2, 4151944.0,       2.8,       2.8,       0.0);
     ( 565754.2, 4151934.0,       2.8,       2.8,       0.0);         (
565754.2, 4151924.0,       2.6,       2.6,       0.0);
     ( 565754.2, 4151914.0,       2.5,       2.5,       0.0);         (
565754.2, 4151904.0,       2.6,       2.6,       0.0);
     ( 565754.2, 4151894.0,       2.7,       2.7,       0.0);         (
565754.2, 4151884.0,       2.8,       2.8,       0.0);
     ( 565754.2, 4151874.0,       2.9,       2.9,       0.0);         (
565754.2, 4151864.0,       2.9,       2.9,       0.0);
     ( 565754.2, 4151854.0,       2.8,       2.8,       0.0);         (
565754.2, 4151844.0,       2.8,       2.8,       0.0);
     ( 565754.2, 4151834.0,       2.9,       2.9,       0.0);         (
565754.2, 4151824.0,       2.9,       2.9,       0.0);
     ( 565754.2, 4151814.0,       2.9,       2.9,       0.0);         (
565754.2, 4151804.0,       2.8,       2.8,       0.0);
     ( 565754.2, 4151794.0,       2.7,       2.7,       0.0);         (
565754.2, 4151784.0,       2.6,       2.6,       0.0);
     ( 565764.2, 4152084.0,       3.3,       3.3,       0.0);         (
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565764.2, 4152074.0,       3.2,       3.2,       0.0);
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565764.2, 4152064.0, 3.0, 3.0, 0.0); (565764.2, 4152054.0, 2.8, 2.8, 0.0);
(565764.2, 4152044.0, 2.6, 2.6, 0.0); (565764.2, 4152034.0, 2.5, 2.5, 0.0);
(565764.2, 4152024.0, 2.5, 2.5, 0.0); (565764.2, 4152014.0, 2.5, 2.5, 0.0);
(565764.2, 4152004.0, 2.5, 2.5, 0.0); (565764.2, 4151994.0, 2.4, 2.4, 0.0);
(565764.2, 4151984.0, 2.2, 2.2, 0.0); (565764.2, 4151974.0, 2.1, 2.1, 0.0);
(565764.2, 4151964.0, 2.3, 2.3, 0.0); (565764.2, 4151954.0, 2.4, 2.4, 0.0);
(565764.2, 4151944.0, 2.6, 2.6, 0.0); (565764.2, 4151934.0, 2.6, 2.6, 0.0);
(565764.2, 4151924.0, 2.6, 2.6, 0.0); (565764.2, 4151914.0, 2.6, 2.6, 0.0);
(565764.2, 4151904.0, 2.6, 2.6, 0.0); (565764.2, 4151894.0, 2.7, 2.7, 0.0);
(565764.2, 4151884.0, 2.8, 2.8, 0.0); (565764.2, 4151874.0, 2.8, 2.8, 0.0);
(565764.2, 4151864.0, 2.8, 2.8, 0.0); (565764.2, 4151854.0, 2.7, 2.7, 0.0);
(565764.2, 4151844.0, 2.8, 2.8, 0.0); (565764.2, 4151834.0, 2.8, 2.8, 0.0);
(565764.2, 4151824.0, 2.8, 2.8, 0.0); (565764.2, 4151814.0, 2.8, 2.8, 0.0);
(565764.2, 4151804.0, 2.7, 2.7, 0.0); (565764.2, 4151794.0, 2.6, 2.6, 0.0);
(565764.2, 4151784.0, 2.6, 2.6, 0.0); (565564.2, 4151974.0, 3.1, 3.1, 0.0);
(565564.2, 4151964.0, 3.0, 3.0, 0.0); (565564.2, 4151954.0, 2.9, 2.9, 0.0);
(565564.2, 4151944.0, 2.8, 2.8, 0.0); (565564.2, 4151934.0, 2.8, 2.8, 0.0);
(565564.2, 4151924.0, 2.8, 2.8, 0.0); (565564.2, 4151914.0, 2.8, 2.8, 0.0);
(565564.2, 4151904.0, 2.9, 2.9, 0.0); (

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565564.2, 4151894.0,       3.0,       3.0,       0.0);
     ( 565564.2, 4151884.0,       3.1,       3.1,       0.0);         (
565564.2, 4151874.0,       3.2,       3.2,       0.0);
     ( 565564.2, 4151864.0,       3.2,       3.2,       0.0);         (
565564.2, 4151854.0,       3.2,       3.2,       0.0);
     ( 565564.2, 4151844.0,       3.3,       3.3,       0.0);         (
565564.2, 4151834.0,       3.5,       3.5,       0.0);
     ( 565564.2, 4151824.0,       3.7,       3.7,       0.0);         (
565564.2, 4151814.0,       3.8,       3.8,       0.0);
     ( 565564.2, 4151804.0,       3.7,       3.7,       0.0);         (
565564.2, 4151794.0,       3.6,       3.6,       0.0);
     ( 565564.2, 4151784.0,       3.5,       3.5,       0.0);         (
565554.2, 4151974.0,       3.0,       3.0,       0.0);
     ( 565554.2, 4151964.0,       2.9,       2.9,       0.0);         (
565554.2, 4151954.0,       2.8,       2.8,       0.0);
     ( 565554.2, 4151944.0,       2.8,       2.8,       0.0);         (
565554.2, 4151934.0,       2.7,       2.7,       0.0);
     ( 565554.2, 4151924.0,       2.8,       2.8,       0.0);         (
565554.2, 4151914.0,       2.8,       2.8,       0.0);
     ( 565554.2, 4151904.0,       2.8,       2.8,       0.0);         (
565554.2, 4151894.0,       2.9,       2.9,       0.0);
     ( 565554.2, 4151884.0,       3.1,       3.1,       0.0);         (
565554.2, 4151874.0,       3.1,       3.1,       0.0);
     ( 565554.2, 4151864.0,       3.2,       3.2,       0.0);         (
565554.2, 4151854.0,       3.2,     144.6,       0.0);
     ( 565554.2, 4151844.0,       3.3,     144.6,       0.0);         (
565554.2, 4151834.0,       3.5,     144.6,       0.0);
     ( 565554.2, 4151824.0,       3.7,     144.6,       0.0);         (
565554.2, 4151814.0,       3.8,     144.6,       0.0);
     ( 565554.2, 4151804.0,       3.7,     144.6,       0.0);         (
565554.2, 4151794.0,       3.6,     144.6,       0.0);
     ( 565554.2, 4151784.0,       3.6,     144.6,       0.0);         (
565544.2, 4151974.0,       3.0,       3.0,       0.0);
     ( 565544.2, 4151964.0,       2.9,       2.9,       0.0);         (
565544.2, 4151954.0,       2.9,       2.9,       0.0);
     ( 565544.2, 4151944.0,       2.8,       2.8,       0.0);         (
565544.2, 4151934.0,       2.8,       2.8,       0.0);
     ( 565544.2, 4151924.0,       2.8,     144.6,       0.0);         (
565544.2, 4151914.0,       2.8,     144.6,       0.0);
     ( 565544.2, 4151904.0,       2.9,     144.6,       0.0);         (
565544.2, 4151894.0,       2.9,     144.6,       0.0);
     ( 565544.2, 4151884.0,       3.0,     144.6,       0.0);         (
565544.2, 4151874.0,       3.1,     144.6,       0.0);
     ( 565544.2, 4151864.0,       3.2,     144.6,       0.0);         (
565544.2, 4151854.0,       3.3,     144.6,       0.0);
     ( 565544.2, 4151844.0,       3.4,     144.6,       0.0);         (
565544.2, 4151834.0,       3.6,     144.6,       0.0);
     ( 565544.2, 4151824.0,       3.7,     144.6,       0.0);         (
565544.2, 4151814.0,       3.8,     144.6,       0.0);
     ( 565544.2, 4151804.0,       3.8,     144.6,       0.0);         (
565544.2, 4151794.0,       3.8,     144.6,       0.0);
     ( 565544.2, 4151784.0,       3.9,     144.6,       0.0);         (
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565534.2, 4151974.0,       3.0,       3.0,       0.0);
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565534.2, 4151964.0, 3.0, 144.6, 0.0); (565534.2, 4151954.0, 2.9, 144.6, 0.0);
(565534.2, 4151944.0, 2.9, 144.6, 0.0); (565534.2, 4151934.0, 2.9, 144.6, 0.0);
(565534.2, 4151924.0, 2.9, 144.6, 0.0); (565534.2, 4151914.0, 2.9, 144.6, 0.0);
(565534.2, 4151904.0, 2.9, 144.6, 0.0); (565534.2, 4151894.0, 3.0, 144.6, 0.0);
(565534.2, 4151884.0, 3.0, 144.6, 0.0); (565534.2, 4151874.0, 3.1, 144.6, 0.0);
(565534.2, 4151864.0, 3.3, 144.6, 0.0); (565534.2, 4151854.0, 3.5, 144.6, 0.0);
(565534.2, 4151844.0, 3.6, 144.6, 0.0); (565534.2, 4151834.0, 3.6, 144.6, 0.0);
(565534.2, 4151824.0, 3.6, 144.6, 0.0); (565534.2, 4151814.0, 3.7, 144.6, 0.0);
(565534.2, 4151804.0, 3.8, 144.6, 0.0); (565534.2, 4151794.0, 4.0, 144.6, 0.0);
(565534.2, 4151784.0, 4.1, 144.6, 0.0); (565524.2, 4151974.0, 3.0, 144.6, 0.0);
(565524.2, 4151964.0, 3.0, 144.6, 0.0); (565524.2, 4151954.0, 3.0, 144.6, 0.0);
(565524.2, 4151944.0, 3.0, 144.6, 0.0); (565524.2, 4151934.0, 3.0, 144.6, 0.0);
(565524.2, 4151924.0, 3.0, 144.6, 0.0); (565524.2, 4151914.0, 3.0, 144.6, 0.0);
(565524.2, 4151904.0, 3.0, 144.6, 0.0); (565524.2, 4151894.0, 3.0, 144.6, 0.0);
(565524.2, 4151884.0, 3.1, 144.6, 0.0); (565524.2, 4151874.0, 3.2, 144.6, 0.0);
(565524.2, 4151864.0, 3.3, 144.6, 0.0); (565524.2, 4151854.0, 3.4, 144.6, 0.0);
(565524.2, 4151844.0, 3.6, 144.6, 0.0); (565524.2, 4151834.0, 3.6, 144.6, 0.0);
(565524.2, 4151824.0, 3.7, 144.6, 0.0); (565524.2, 4151814.0, 3.8, 144.6, 0.0);
(565524.2, 4151804.0, 3.9, 144.6, 0.0); (

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565524.2, 4151794.0,       4.0,     144.6,       0.0);
     ( 565524.2, 4151784.0,       4.1,     144.6,       0.0);         (
565514.2, 4151974.0,       2.9,     144.6,       0.0);
     ( 565514.2, 4151964.0,       2.9,     144.6,       0.0);         (
565514.2, 4151954.0,       3.1,     144.6,       0.0);
     ( 565514.2, 4151944.0,       3.2,     144.6,       0.0);         (
565514.2, 4151934.0,       3.2,     144.6,       0.0);
     ( 565514.2, 4151924.0,       3.2,     144.6,       0.0);         (
565514.2, 4151914.0,       3.1,     144.6,       0.0);
     ( 565514.2, 4151904.0,       3.1,     144.6,       0.0);         (
565514.2, 4151894.0,       3.2,     144.6,       0.0);
     ( 565514.2, 4151884.0,       3.2,     144.6,       0.0);         (
565514.2, 4151874.0,       3.3,     144.6,       0.0);
     ( 565514.2, 4151864.0,       3.3,     144.6,       0.0);         (
565514.2, 4151854.0,       3.4,     144.6,       0.0);
     ( 565514.2, 4151844.0,       3.5,     144.6,       0.0);         (
565514.2, 4151834.0,       3.6,     144.6,       0.0);
     ( 565514.2, 4151824.0,       3.8,     144.6,       0.0);         (
565514.2, 4151814.0,       3.9,     144.6,       0.0);
     ( 565514.2, 4151804.0,       4.0,     144.6,       0.0);         (
565514.2, 4151794.0,       4.1,     144.6,       0.0);
     ( 565514.2, 4151784.0,       4.2,     144.6,       0.0);         (
565504.2, 4151974.0,       2.8,     144.6,       0.0);
     ( 565504.2, 4151964.0,       2.9,     144.6,       0.0);         (
565504.2, 4151954.0,       3.1,     144.6,       0.0);
     ( 565504.2, 4151944.0,       3.2,     144.6,       0.0);         (
565504.2, 4151934.0,       3.3,     144.6,       0.0);
     ( 565504.2, 4151924.0,       3.3,     144.6,       0.0);         (
565504.2, 4151914.0,       3.2,     144.6,       0.0);
     ( 565504.2, 4151904.0,       3.2,     144.6,       0.0);         (
565504.2, 4151894.0,       3.3,     144.6,       0.0);
     ( 565504.2, 4151884.0,       3.3,     144.6,       0.0);         (
565504.2, 4151874.0,       3.3,     144.6,       0.0);
     ( 565504.2, 4151864.0,       3.4,     144.6,       0.0);         (
565504.2, 4151854.0,       3.5,     144.6,       0.0);
     ( 565504.2, 4151844.0,       3.6,     144.6,       0.0);         (
565504.2, 4151834.0,       3.7,     144.6,       0.0);
     ( 565504.2, 4151824.0,       3.8,     144.6,       0.0);         (
565504.2, 4151814.0,       3.9,     144.6,       0.0);
     ( 565504.2, 4151804.0,       4.0,     144.6,       0.0);         (
565504.2, 4151794.0,       4.1,     144.6,       0.0);
     ( 565504.2, 4151784.0,       4.2,     144.6,       0.0);         (
565494.2, 4151974.0,       2.9,     144.6,       0.0);
     ( 565494.2, 4151964.0,       3.0,     144.6,       0.0);         (
565494.2, 4151954.0,       3.1,     144.6,       0.0);
     ( 565494.2, 4151944.0,       3.2,     144.6,       0.0);         (
565494.2, 4151934.0,       3.3,     144.6,       0.0);
     ( 565494.2, 4151924.0,       3.3,     144.6,       0.0);         (
565494.2, 4151914.0,       3.3,     144.6,       0.0);
     ( 565494.2, 4151904.0,       3.4,     144.6,       0.0);         (
565494.2, 4151894.0,       3.4,     144.6,       0.0);
     ( 565494.2, 4151884.0,       3.4,     144.6,       0.0);         (
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565494.2, 4151874.0,       3.5,     144.6,       0.0);
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565494.2, 4151864.0, 3.5, 144.6, 0.0); (565494.2, 4151854.0, 3.6, 144.6, 0.0);
(565494.2, 4151844.0, 3.7, 144.6, 0.0); (565494.2, 4151834.0, 3.7, 144.6, 0.0);
(565494.2, 4151824.0, 3.8, 144.6, 0.0); (565494.2, 4151814.0, 3.9, 144.6, 0.0);
(565494.2, 4151804.0, 4.0, 144.6, 0.0); (565494.2, 4151794.0, 4.2, 144.6, 0.0);
(565494.2, 4151784.0, 4.3, 144.6, 0.0); (565484.2, 4151974.0, 2.9, 144.6, 0.0);
(565484.2, 4151964.0, 3.0, 144.6, 0.0); (565484.2, 4151954.0, 3.1, 144.6, 0.0);
(565484.2, 4151944.0, 3.2, 144.6, 0.0); (565484.2, 4151934.0, 3.3, 144.6, 0.0);
(565484.2, 4151924.0, 3.4, 144.6, 0.0); (565484.2, 4151914.0, 3.5, 144.6, 0.0);
(565484.2, 4151904.0, 3.5, 144.6, 0.0); (565484.2, 4151894.0, 3.5, 144.6, 0.0);
(565484.2, 4151884.0, 3.5, 144.6, 0.0); (565484.2, 4151874.0, 3.6, 144.6, 0.0);
(565484.2, 4151864.0, 3.6, 144.6, 0.0); (565484.2, 4151854.0, 3.7, 144.6, 0.0);
(565484.2, 4151844.0, 3.8, 144.6, 0.0); (565484.2, 4151834.0, 3.8, 144.6, 0.0);
(565484.2, 4151824.0, 3.8, 144.6, 0.0); (565484.2, 4151814.0, 3.9, 144.6, 0.0);
(565484.2, 4151804.0, 4.1, 144.6, 0.0); (565484.2, 4151794.0, 4.2, 144.6, 0.0);
(565484.2, 4151784.0, 4.4, 144.6, 0.0); (565474.2, 4151974.0, 3.1, 144.6, 0.0);
(565474.2, 4151964.0, 3.1, 144.6, 0.0); (565474.2, 4151954.0, 3.2, 144.6, 0.0);
(565474.2, 4151944.0, 3.2, 144.6, 0.0); (565474.2, 4151934.0, 3.3, 144.6, 0.0);
(565474.2, 4151924.0, 3.4, 144.6, 0.0); (565474.2, 4151914.0, 3.4, 144.6, 0.0);
(565474.2, 4151904.0, 3.5, 144.6, 0.0); (

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565474.2, 4151894.0,       3.5,     144.6,       0.0);
     ( 565474.2, 4151884.0,       3.6,     144.6,       0.0);         (
565474.2, 4151874.0,       3.6,     144.6,       0.0);
     ( 565474.2, 4151864.0,       3.7,     144.6,       0.0);         (
565474.2, 4151854.0,       3.8,     144.6,       0.0);
     ( 565474.2, 4151844.0,       3.8,     144.6,       0.0);         (
565474.2, 4151834.0,       3.9,     144.6,       0.0);
     ( 565474.2, 4151824.0,       4.0,     144.6,       0.0);         (
565474.2, 4151814.0,       4.1,     144.6,       0.0);
     ( 565474.2, 4151804.0,       4.2,     144.6,       0.0);         (
565474.2, 4151794.0,       4.4,     144.6,       0.0);
     ( 565474.2, 4151784.0,       4.5,     144.6,       0.0);         (
565464.2, 4151974.0,       3.2,     144.6,       0.0);
     ( 565464.2, 4151964.0,       3.3,     144.6,       0.0);         (
565464.2, 4151954.0,       3.3,     144.6,       0.0);
     ( 565464.2, 4151944.0,       3.3,     144.6,       0.0);         (
565464.2, 4151934.0,       3.3,     144.6,       0.0);
     ( 565464.2, 4151924.0,       3.4,     144.6,       0.0);         (
565464.2, 4151914.0,       3.4,     144.6,       0.0);
     ( 565464.2, 4151904.0,       3.4,     144.6,       0.0);         (
565464.2, 4151894.0,       3.5,     144.6,       0.0);
     ( 565464.2, 4151884.0,       3.6,     144.6,       0.0);         (
565464.2, 4151874.0,       3.7,     144.6,       0.0);
     ( 565464.2, 4151864.0,       3.7,     144.6,       0.0);         (
565464.2, 4151854.0,       3.8,     144.6,       0.0);
     ( 565464.2, 4151844.0,       3.9,     144.6,       0.0);         (
565464.2, 4151834.0,       4.0,     144.6,       0.0);
     ( 565464.2, 4151824.0,       4.2,     144.6,       0.0);         (
565464.2, 4151814.0,       4.3,     144.6,       0.0);
     ( 565464.2, 4151804.0,       4.4,     144.6,       0.0);         (
565464.2, 4151794.0,       4.5,     144.6,       0.0);
     ( 565464.2, 4151784.0,       4.7,     144.6,       0.0);         (
565454.2, 4151974.0,       3.2,     144.6,       0.0);
     ( 565454.2, 4151964.0,       3.3,     144.6,       0.0);         (
565454.2, 4151954.0,       3.3,     144.6,       0.0);
     ( 565454.2, 4151944.0,       3.4,     144.6,       0.0);         (
565454.2, 4151934.0,       3.4,     144.6,       0.0);
     ( 565454.2, 4151924.0,       3.4,     144.6,       0.0);         (
565454.2, 4151914.0,       3.4,     144.6,       0.0);
     ( 565454.2, 4151904.0,       3.5,     144.6,       0.0);         (
565454.2, 4151894.0,       3.6,     144.6,       0.0);
     ( 565454.2, 4151884.0,       3.6,     144.6,       0.0);         (
565454.2, 4151874.0,       3.7,     144.6,       0.0);
     ( 565454.2, 4151864.0,       3.8,     144.6,       0.0);         (
565454.2, 4151854.0,       3.9,     144.6,       0.0);
     ( 565454.2, 4151844.0,       4.0,     144.6,       0.0);         (
565454.2, 4151834.0,       4.2,     144.6,       0.0);
     ( 565454.2, 4151824.0,       4.4,     144.6,       0.0);         (
565454.2, 4151814.0,       4.5,     144.6,       0.0);
     ( 565454.2, 4151804.0,       4.6,     144.6,       0.0);         (
565454.2, 4151794.0,       4.6,     144.6,       0.0);
     ( 565454.2, 4151784.0,       4.7,     144.6,       0.0);         (
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565444.2, 4151974.0,       3.2,     144.6,       0.0);
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565444.2, 4151964.0, 3.3, 144.6, 0.0); (565444.2, 4151954.0, 3.3, 144.6, 0.0);
(565444.2, 4151944.0, 3.4, 144.6, 0.0); (565444.2, 4151934.0, 3.4, 144.6, 0.0);
(565444.2, 4151924.0, 3.5, 144.6, 0.0); (565444.2, 4151914.0, 3.5, 144.6, 0.0);
(565444.2, 4151904.0, 3.6, 144.6, 0.0); (565444.2, 4151894.0, 3.6, 144.6, 0.0);
(565444.2, 4151884.0, 3.7, 144.6, 0.0); (565444.2, 4151874.0, 3.8, 144.6, 0.0);
(565444.2, 4151864.0, 3.9, 144.6, 0.0); (565444.2, 4151854.0, 4.0, 144.6, 0.0);
(565444.2, 4151844.0, 4.1, 144.6, 0.0); (565444.2, 4151834.0, 4.3, 144.6, 0.0);
(565444.2, 4151824.0, 4.5, 144.6, 0.0); (565444.2, 4151814.0, 4.7, 144.6, 0.0);
(565444.2, 4151804.0, 4.7, 144.6, 0.0); (565444.2, 4151794.0, 4.7, 144.6, 0.0);
(565444.2, 4151784.0, 4.7, 144.6, 0.0); (565434.2, 4151974.0, 3.1, 144.6, 0.0);
(565434.2, 4151964.0, 3.2, 144.6, 0.0); (565434.2, 4151954.0, 3.3, 144.6, 0.0);
(565434.2, 4151944.0, 3.4, 144.6, 0.0); (565434.2, 4151934.0, 3.5, 144.6, 0.0);
(565434.2, 4151924.0, 3.5, 144.6, 0.0); (565434.2, 4151914.0, 3.6, 144.6, 0.0);
(565434.2, 4151904.0, 3.6, 144.6, 0.0); (565434.2, 4151894.0, 3.7, 144.6, 0.0);
(565434.2, 4151884.0, 3.8, 144.6, 0.0); (565434.2, 4151874.0, 3.8, 144.6, 0.0);
(565434.2, 4151864.0, 3.9, 144.6, 0.0); (565434.2, 4151854.0, 4.0, 144.6, 0.0);
(565434.2, 4151844.0, 4.2, 144.6, 0.0); (565434.2, 4151834.0, 4.4, 144.6, 0.0);
(565434.2, 4151824.0, 4.7, 144.6, 0.0); (565434.2, 4151814.0, 4.9, 144.6, 0.0);
(565434.2, 4151804.0, 4.8, 144.6, 0.0); (

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565434.2, 4151794.0,       4.8,     144.6,       0.0);
     ( 565434.2, 4151784.0,       4.8,     144.6,       0.0);         (
565424.2, 4151974.0,       3.2,     144.6,       0.0);
     ( 565424.2, 4151964.0,       3.3,     144.6,       0.0);         (
565424.2, 4151954.0,       3.3,     144.6,       0.0);
     ( 565424.2, 4151944.0,       3.4,     144.6,       0.0);         (
565424.2, 4151934.0,       3.5,     144.6,       0.0);
     ( 565424.2, 4151924.0,       3.6,     144.6,       0.0);         (
565424.2, 4151914.0,       3.6,     144.6,       0.0);
     ( 565424.2, 4151904.0,       3.7,     144.6,       0.0);         (
565424.2, 4151894.0,       3.7,     144.6,       0.0);
     ( 565424.2, 4151884.0,       3.8,     144.6,       0.0);         (
565424.2, 4151874.0,       3.8,     144.6,       0.0);
     ( 565424.2, 4151864.0,       4.0,     144.6,       0.0);         (
565424.2, 4151854.0,       4.1,     144.6,       0.0);
     ( 565424.2, 4151844.0,       4.3,     144.6,       0.0);         (
565424.2, 4151834.0,       4.5,     144.6,       0.0);
     ( 565424.2, 4151824.0,       4.8,     144.6,       0.0);         (
565424.2, 4151814.0,       5.0,     144.6,       0.0);
     ( 565424.2, 4151804.0,       5.0,     144.6,       0.0);         (
565424.2, 4151794.0,       5.0,     144.6,       0.0);
     ( 565424.2, 4151784.0,       5.0,     144.6,       0.0);         (
565414.2, 4151974.0,       3.2,     144.6,       0.0);
     ( 565414.2, 4151964.0,       3.3,     144.6,       0.0);         (
565414.2, 4151954.0,       3.4,     144.6,       0.0);
     ( 565414.2, 4151944.0,       3.4,     144.6,       0.0);         (
565414.2, 4151934.0,       3.5,     144.6,       0.0);
     ( 565414.2, 4151924.0,       3.6,     144.6,       0.0);         (
565414.2, 4151914.0,       3.6,     144.6,       0.0);
     ( 565414.2, 4151904.0,       3.7,     144.6,       0.0);         (
565414.2, 4151894.0,       3.7,     144.6,       0.0);
     ( 565414.2, 4151884.0,       3.8,     144.6,       0.0);         (
565414.2, 4151874.0,       3.8,     144.6,       0.0);
     ( 565414.2, 4151864.0,       4.0,     144.6,       0.0);         (
565414.2, 4151854.0,       4.2,     144.6,       0.0);
     ( 565414.2, 4151844.0,       4.3,     144.6,       0.0);         (
565414.2, 4151834.0,       4.6,     144.6,       0.0);
     ( 565414.2, 4151824.0,       4.8,     144.6,       0.0);         (
565414.2, 4151814.0,       5.1,     144.6,       0.0);
     ( 565414.2, 4151804.0,       5.1,     144.6,       0.0);         (
565414.2, 4151794.0,       5.2,     144.6,       0.0);
     ( 565414.2, 4151784.0,       5.3,     144.6,       0.0);         (
565404.2, 4151974.0,       3.3,     144.6,       0.0);
     ( 565404.2, 4151964.0,       3.4,     144.6,       0.0);         (
565404.2, 4151954.0,       3.4,     144.6,       0.0);
     ( 565404.2, 4151944.0,       3.5,     144.6,       0.0);         (
565404.2, 4151934.0,       3.5,     144.6,       0.0);
     ( 565404.2, 4151924.0,       3.6,     144.6,       0.0);         (
565404.2, 4151914.0,       3.7,     144.6,       0.0);
     ( 565404.2, 4151904.0,       3.7,     144.6,       0.0);         (
565404.2, 4151894.0,       3.8,     144.6,       0.0);
     ( 565404.2, 4151884.0,       3.8,     144.6,       0.0);         (
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565404.2, 4151874.0,       3.9,     144.6,       0.0);
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565404.2, 4151864.0, 4.0, 144.6, 0.0); (565404.2, 4151854.0, 4.1, 144.6, 0.0);
(565404.2, 4151844.0, 4.2, 144.6, 0.0); (565404.2, 4151834.0, 4.5, 144.6, 0.0);
(565404.2, 4151824.0, 4.7, 144.6, 0.0); (565404.2, 4151814.0, 4.9, 144.6, 0.0);
(565404.2, 4151804.0, 5.1, 144.6, 0.0); (565404.2, 4151794.0, 5.3, 144.6, 0.0);
(565404.2, 4151784.0, 5.4, 144.6, 0.0); (565394.2, 4151974.0, 3.5, 144.6, 0.0);
(565394.2, 4151964.0, 3.5, 144.6, 0.0); (565394.2, 4151954.0, 3.5, 144.6, 0.0);
(565394.2, 4151944.0, 3.5, 144.6, 0.0); (565394.2, 4151934.0, 3.6, 144.6, 0.0);
(565394.2, 4151924.0, 3.6, 144.6, 0.0); (565394.2, 4151914.0, 3.6, 144.6, 0.0);
(565394.2, 4151904.0, 3.7, 144.6, 0.0); (565394.2, 4151894.0, 3.8, 144.6, 0.0);
(565394.2, 4151884.0, 3.9, 144.6, 0.0); (565394.2, 4151874.0, 3.9, 144.6, 0.0);
(565394.2, 4151864.0, 4.0, 144.6, 0.0); (565394.2, 4151854.0, 4.0, 144.6, 0.0);
(565394.2, 4151844.0, 4.1, 144.6, 0.0); (565394.2, 4151834.0, 4.3, 144.6, 0.0);
(565394.2, 4151824.0, 4.5, 144.6, 0.0); (565394.2, 4151814.0, 4.7, 144.6, 0.0);
(565394.2, 4151804.0, 5.0, 144.6, 0.0); (565394.2, 4151794.0, 5.3, 144.6, 0.0);
(565394.2, 4151784.0, 5.6, 144.6, 0.0); (565384.2, 4151974.0, 3.6, 144.6, 0.0);
(565384.2, 4151964.0, 3.6, 144.6, 0.0); (565384.2, 4151954.0, 3.6, 144.6, 0.0);
(565384.2, 4151944.0, 3.6, 144.6, 0.0); (565384.2, 4151934.0, 3.6, 144.6, 0.0);
(565384.2, 4151924.0, 3.6, 144.6, 0.0); (565384.2, 4151914.0, 3.6, 144.6, 0.0);
(565384.2, 4151904.0, 3.7, 144.6, 0.0); (

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565384.2, 4151894.0,       3.8,     144.6,       0.0);
     ( 565384.2, 4151884.0,       3.9,     144.6,       0.0);         (
565384.2, 4151874.0,       4.0,     144.6,       0.0);
     ( 565384.2, 4151864.0,       4.0,     144.6,       0.0);         (
565384.2, 4151854.0,       4.0,     144.6,       0.0);
     ( 565384.2, 4151844.0,       4.0,     144.6,       0.0);         (
565384.2, 4151834.0,       4.2,     144.6,       0.0);
     ( 565384.2, 4151824.0,       4.3,     144.6,       0.0);         (
565384.2, 4151814.0,       4.5,     144.6,       0.0);
     ( 565384.2, 4151804.0,       4.9,     144.6,       0.0);         (
565384.2, 4151794.0,       5.2,     144.6,       0.0);
     ( 565384.2, 4151784.0,       5.6,     144.6,       0.0);         (
565374.2, 4151974.0,       3.6,     144.6,       0.0);
     ( 565374.2, 4151964.0,       3.7,     144.6,       0.0);         (
565374.2, 4151954.0,       3.6,     144.6,       0.0);
     ( 565374.2, 4151944.0,       3.6,     144.6,       0.0);         (
565374.2, 4151934.0,       3.6,     144.6,       0.0);
     ( 565374.2, 4151924.0,       3.6,     144.6,       0.0);         (
565374.2, 4151914.0,       3.7,     144.6,       0.0);
     ( 565374.2, 4151904.0,       3.7,     144.6,       0.0);         (
565374.2, 4151894.0,       3.8,     144.6,       0.0);
     ( 565374.2, 4151884.0,       3.8,     144.6,       0.0);         (
565374.2, 4151874.0,       3.9,     144.6,       0.0);
     ( 565374.2, 4151864.0,       4.0,     144.6,       0.0);         (
565374.2, 4151854.0,       4.1,     144.6,       0.0);
     ( 565374.2, 4151844.0,       4.2,     144.6,       0.0);         (
565374.2, 4151834.0,       4.2,     144.6,       0.0);
     ( 565374.2, 4151824.0,       4.3,     144.6,       0.0);         (
565374.2, 4151814.0,       4.4,     144.6,       0.0);
     ( 565374.2, 4151804.0,       4.8,     144.6,       0.0);         (
565374.2, 4151794.0,       5.1,     144.6,       0.0);
     ( 565374.2, 4151784.0,       5.4,     144.6,       0.0);         (
565364.2, 4151974.0,       3.7,     144.6,       0.0);
     ( 565364.2, 4151964.0,       3.7,     144.6,       0.0);         (
565364.2, 4151954.0,       3.7,     144.6,       0.0);
     ( 565364.2, 4151944.0,       3.6,     144.6,       0.0);         (
565364.2, 4151934.0,       3.6,     144.6,       0.0);
     ( 565364.2, 4151924.0,       3.7,     144.6,       0.0);         (
565364.2, 4151914.0,       3.7,     144.6,       0.0);
     ( 565364.2, 4151904.0,       3.7,     144.6,       0.0);         (
565364.2, 4151894.0,       3.7,     144.6,       0.0);
     ( 565364.2, 4151884.0,       3.7,     144.6,       0.0);         (
565364.2, 4151874.0,       3.8,     144.6,       0.0);
     ( 565364.2, 4151864.0,       4.0,     144.6,       0.0);         (
565364.2, 4151854.0,       4.1,     144.6,       0.0);
     ( 565364.2, 4151844.0,       4.3,     144.6,       0.0);         (
565364.2, 4151834.0,       4.3,     144.6,       0.0);
     ( 565364.2, 4151824.0,       4.3,     144.6,       0.0);         (
565364.2, 4151814.0,       4.4,     144.6,       0.0);
     ( 565364.2, 4151804.0,       4.6,     144.6,       0.0);         (
565364.2, 4151794.0,       4.9,     144.6,       0.0);
     ( 565364.2, 4151784.0,       5.2,     144.6,       0.0);         (
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565354.2, 4151974.0,       3.6,     144.6,       0.0);
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565354.2, 4151964.0, 3.6, 144.6, 0.0); (565354.2, 4151954.0, 3.7, 144.6, 0.0);
(565354.2, 4151944.0, 3.7, 144.6, 0.0); (565354.2, 4151934.0, 3.7, 144.6, 0.0);
(565354.2, 4151924.0, 3.7, 144.6, 0.0); (565354.2, 4151914.0, 3.7, 144.6, 0.0);
(565354.2, 4151904.0, 3.7, 144.6, 0.0); (565354.2, 4151894.0, 3.7, 144.6, 0.0);
(565354.2, 4151884.0, 3.8, 144.6, 0.0); (565354.2, 4151874.0, 3.8, 144.6, 0.0);
(565354.2, 4151864.0, 4.0, 144.6, 0.0); (565354.2, 4151854.0, 4.1, 144.6, 0.0);
(565354.2, 4151844.0, 4.2, 144.6, 0.0); (565354.2, 4151834.0, 4.4, 144.6, 0.0);
(565354.2, 4151824.0, 4.5, 144.6, 0.0); (565354.2, 4151814.0, 4.6, 144.6, 0.0);
(565354.2, 4151804.0, 4.8, 144.6, 0.0); (565354.2, 4151794.0, 5.0, 144.6, 0.0);
(565354.2, 4151784.0, 5.2, 144.6, 0.0); (565344.2, 4151974.0, 3.5, 144.6, 0.0);
(565344.2, 4151964.0, 3.6, 144.6, 0.0); (565344.2, 4151954.0, 3.7, 144.6, 0.0);
(565344.2, 4151944.0, 3.7, 144.6, 0.0); (565344.2, 4151934.0, 3.7, 144.6, 0.0);
(565344.2, 4151924.0, 3.7, 144.6, 0.0); (565344.2, 4151914.0, 3.6, 144.6, 0.0);
(565344.2, 4151904.0, 3.6, 144.6, 0.0); (565344.2, 4151894.0, 3.7, 144.6, 0.0);
(565344.2, 4151884.0, 3.8, 144.6, 0.0); (565344.2, 4151874.0, 3.9, 144.6, 0.0);
(565344.2, 4151864.0, 4.0, 144.6, 0.0); (565344.2, 4151854.0, 4.1, 144.6, 0.0);
(565344.2, 4151844.0, 4.2, 144.6, 0.0); (565344.2, 4151834.0, 4.4, 144.6, 0.0);
(565344.2, 4151824.0, 4.6, 144.6, 0.0); (565344.2, 4151814.0, 4.8, 144.6, 0.0);
(565344.2, 4151804.0, 5.0, 144.6, 0.0); (

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565344.2, 4151794.0,       5.1,     144.6,       0.0);
     ( 565344.2, 4151784.0,       5.2,     144.6,       0.0);         (
565334.2, 4151974.0,       3.5,     144.6,       0.0);
     ( 565334.2, 4151964.0,       3.6,     144.6,       0.0);         (
565334.2, 4151954.0,       3.6,     144.6,       0.0);
     ( 565334.2, 4151944.0,       3.7,     144.6,       0.0);         (
565334.2, 4151934.0,       3.8,     144.6,       0.0);
     ( 565334.2, 4151924.0,       3.7,     144.6,       0.0);         (
565334.2, 4151914.0,       3.7,     144.6,       0.0);
     ( 565334.2, 4151904.0,       3.7,     144.6,       0.0);         (
565334.2, 4151894.0,       3.8,     144.6,       0.0);
     ( 565334.2, 4151884.0,       3.8,     144.6,       0.0);         (
565334.2, 4151874.0,       3.9,     144.6,       0.0);
     ( 565334.2, 4151864.0,       4.0,     144.6,       0.0);         (
565334.2, 4151854.0,       4.1,     144.6,       0.0);
     ( 565334.2, 4151844.0,       4.2,     144.6,       0.0);         (
565334.2, 4151834.0,       4.5,     144.6,       0.0);
     ( 565334.2, 4151824.0,       4.7,     144.6,       0.0);         (
565334.2, 4151814.0,       5.0,     144.6,       0.0);
     ( 565334.2, 4151804.0,       5.0,     144.6,       0.0);         (
565334.2, 4151794.0,       5.1,     144.6,       0.0);
     ( 565334.2, 4151784.0,       5.2,     144.6,       0.0);         (
565324.2, 4151974.0,       3.5,     144.6,       0.0);
     ( 565324.2, 4151964.0,       3.6,     144.6,       0.0);         (
565324.2, 4151954.0,       3.6,     144.6,       0.0);
     ( 565324.2, 4151944.0,       3.7,     144.6,       0.0);         (
565324.2, 4151934.0,       3.7,     144.6,       0.0);
     ( 565324.2, 4151924.0,       3.8,     144.6,       0.0);         (
565324.2, 4151914.0,       3.8,     144.6,       0.0);
     ( 565324.2, 4151904.0,       3.8,     144.6,       0.0);         (
565324.2, 4151894.0,       3.9,     144.6,       0.0);
     ( 565324.2, 4151884.0,       3.9,     144.6,       0.0);         (
565324.2, 4151874.0,       3.9,     144.6,       0.0);
     ( 565324.2, 4151864.0,       4.0,     144.6,       0.0);         (
565324.2, 4151854.0,       4.1,     144.6,       0.0);
     ( 565324.2, 4151844.0,       4.3,     144.6,       0.0);         (
565324.2, 4151834.0,       4.5,     144.6,       0.0);
     ( 565324.2, 4151824.0,       4.7,     144.6,       0.0);         (
565324.2, 4151814.0,       4.9,     144.6,       0.0);
     ( 565324.2, 4151804.0,       5.0,     144.6,       0.0);         (
565324.2, 4151794.0,       5.1,     144.6,       0.0);
     ( 565324.2, 4151784.0,       5.2,     144.6,       0.0);         (
565314.2, 4151974.0,       3.6,     144.6,       0.0);
     ( 565314.2, 4151964.0,       3.6,     144.6,       0.0);         (
565314.2, 4151954.0,       3.6,     144.6,       0.0);
     ( 565314.2, 4151944.0,       3.6,     144.6,       0.0);         (
565314.2, 4151934.0,       3.7,     144.6,       0.0);
     ( 565314.2, 4151924.0,       3.8,     144.6,       0.0);         (
565314.2, 4151914.0,       3.9,     144.6,       0.0);
     ( 565314.2, 4151904.0,       4.0,     144.6,       0.0);         (
565314.2, 4151894.0,       4.0,     144.6,       0.0);
     ( 565314.2, 4151884.0,       3.9,     144.6,       0.0);         (
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565314.2, 4151874.0,       3.9,     144.6,       0.0);
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565314.2, 4151864.0, 4.1, 144.6, 0.0); (565314.2, 4151854.0, 4.2, 144.6, 0.0);
(565314.2, 4151844.0, 4.3, 144.6, 0.0); (565314.2, 4151834.0, 4.5, 144.6, 0.0);
(565314.2, 4151824.0, 4.7, 144.6, 0.0); (565314.2, 4151814.0, 4.9, 144.6, 0.0);
(565314.2, 4151804.0, 5.0, 144.6, 0.0); (565314.2, 4151794.0, 5.1, 144.6, 0.0);
(565314.2, 4151784.0, 5.2, 144.6, 0.0); (565304.2, 4151974.0, 3.5, 144.6, 0.0);
(565304.2, 4151964.0, 3.5, 144.6, 0.0); (565304.2, 4151954.0, 3.6, 144.6, 0.0);
(565304.2, 4151944.0, 3.6, 144.6, 0.0); (565304.2, 4151934.0, 3.7, 144.6, 0.0);
(565304.2, 4151924.0, 3.8, 144.6, 0.0); (565304.2, 4151914.0, 3.9, 144.6, 0.0);
(565304.2, 4151904.0, 4.0, 144.6, 0.0); (565304.2, 4151894.0, 4.0, 144.6, 0.0);
(565304.2, 4151884.0, 4.1, 144.6, 0.0); (565304.2, 4151874.0, 4.1, 144.6, 0.0);
(565304.2, 4151864.0, 4.2, 144.6, 0.0); (565304.2, 4151854.0, 4.3, 144.6, 0.0);
(565304.2, 4151844.0, 4.4, 144.6, 0.0); (565304.2, 4151834.0, 4.6, 144.6, 0.0);
(565304.2, 4151824.0, 4.7, 144.6, 0.0); (565304.2, 4151814.0, 4.9, 144.6, 0.0);
(565304.2, 4151804.0, 5.1, 144.6, 0.0); (565304.2, 4151794.0, 5.2, 144.6, 0.0);
(565304.2, 4151784.0, 5.4, 144.6, 0.0); (565294.2, 4151974.0, 3.5, 144.6, 0.0);
(565294.2, 4151964.0, 3.5, 144.6, 0.0); (565294.2, 4151954.0, 3.6, 144.6, 0.0);
(565294.2, 4151944.0, 3.7, 144.6, 0.0); (565294.2, 4151934.0, 3.7, 144.6, 0.0);
(565294.2, 4151924.0, 3.8, 144.6, 0.0); (565294.2, 4151914.0, 3.8, 144.6, 0.0);
(565294.2, 4151904.0, 3.9, 144.6, 0.0); (

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565294.2, 4151894.0,       4.1,     144.6,       0.0);
     ( 565294.2, 4151884.0,       4.2,     144.6,       0.0);         (
565294.2, 4151874.0,       4.3,     144.6,       0.0);
     ( 565294.2, 4151864.0,       4.4,     144.6,       0.0);         (
565294.2, 4151854.0,       4.5,     144.6,       0.0);
     ( 565294.2, 4151844.0,       4.5,     144.6,       0.0);         (
565294.2, 4151834.0,       4.7,     144.6,       0.0);
     ( 565294.2, 4151824.0,       4.8,     144.6,       0.0);         (
565294.2, 4151814.0,       4.9,     144.6,       0.0);
     ( 565294.2, 4151804.0,       5.2,     144.6,       0.0);         (
565294.2, 4151794.0,       5.4,     144.6,       0.0);
     ( 565294.2, 4151784.0,       5.6,     144.6,       0.0);         (
565284.2, 4151974.0,       3.5,     144.6,       0.0);
     ( 565284.2, 4151964.0,       3.5,     144.6,       0.0);         (
565284.2, 4151954.0,       3.6,     144.6,       0.0);
     ( 565284.2, 4151944.0,       3.6,     144.6,       0.0);         (
565284.2, 4151934.0,       3.7,     144.6,       0.0);
     ( 565284.2, 4151924.0,       3.8,     144.6,       0.0);         (
565284.2, 4151914.0,       3.8,     144.6,       0.0);
     ( 565284.2, 4151904.0,       3.9,     144.6,       0.0);         (
565284.2, 4151894.0,       4.1,     144.6,       0.0);
     ( 565284.2, 4151884.0,       4.3,     144.6,       0.0);         (
565284.2, 4151874.0,       4.4,     144.6,       0.0);
     ( 565284.2, 4151864.0,       4.5,     144.6,       0.0);         (
565284.2, 4151854.0,       4.6,     144.6,       0.0);
     ( 565284.2, 4151844.0,       4.6,     144.6,       0.0);         (
565284.2, 4151834.0,       4.8,     144.6,       0.0);
     ( 565284.2, 4151824.0,       4.9,     144.6,       0.0);         (
565284.2, 4151814.0,       5.0,     144.6,       0.0);
     ( 565284.2, 4151804.0,       5.2,     144.6,       0.0);         (
565284.2, 4151794.0,       5.5,     144.6,       0.0);
     ( 565284.2, 4151784.0,       5.7,     144.6,       0.0);         (
565274.2, 4151974.0,       3.6,     144.6,       0.0);
     ( 565274.2, 4151964.0,       3.6,     144.6,       0.0);         (
565274.2, 4151954.0,       3.6,     144.6,       0.0);
     ( 565274.2, 4151944.0,       3.6,     144.6,       0.0);         (
565274.2, 4151934.0,       3.6,     144.6,       0.0);
     ( 565274.2, 4151924.0,       3.7,     144.6,       0.0);         (
565274.2, 4151914.0,       3.8,     144.6,       0.0);
     ( 565274.2, 4151904.0,       3.9,     144.6,       0.0);         (
565274.2, 4151894.0,       4.1,     144.6,       0.0);
     ( 565274.2, 4151884.0,       4.3,     144.6,       0.0);         (
565274.2, 4151874.0,       4.4,     144.6,       0.0);
     ( 565274.2, 4151864.0,       4.5,     144.6,       0.0);         (
565274.2, 4151854.0,       4.6,     144.6,       0.0);
     ( 565274.2, 4151844.0,       4.7,     144.6,       0.0);         (
565274.2, 4151834.0,       4.9,     144.6,       0.0);
     ( 565274.2, 4151824.0,       5.0,     144.6,       0.0);         (
565274.2, 4151814.0,       5.1,     144.6,       0.0);
     ( 565274.2, 4151804.0,       5.3,     144.6,       0.0);         (
565274.2, 4151794.0,       5.4,     144.6,       0.0);
     ( 565274.2, 4151784.0,       5.6,     144.6,       0.0);         (
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565264.2, 4151974.0,       3.7,     144.6,       0.0);
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565264.2, 4151964.0, 3.7, 144.6, 0.0); (565264.2, 4151954.0, 3.6, 144.6, 0.0);
(565264.2, 4151944.0, 3.5, 144.6, 0.0); (565264.2, 4151934.0, 3.5, 144.6, 0.0);
(565264.2, 4151924.0, 3.7, 144.6, 0.0); (565264.2, 4151914.0, 3.8, 144.6, 0.0);
(565264.2, 4151904.0, 3.9, 144.6, 0.0); (565264.2, 4151894.0, 4.1, 144.6, 0.0);
(565264.2, 4151884.0, 4.3, 144.6, 0.0); (565264.2, 4151874.0, 4.4, 144.6, 0.0);
(565264.2, 4151864.0, 4.5, 144.6, 0.0); (565264.2, 4151854.0, 4.7, 144.6, 0.0);
(565264.2, 4151844.0, 4.8, 144.6, 0.0); (565264.2, 4151834.0, 5.0, 144.6, 0.0);
(565264.2, 4151824.0, 5.1, 144.6, 0.0); (565264.2, 4151814.0, 5.2, 144.6, 0.0);
(565264.2, 4151804.0, 5.3, 144.6, 0.0); (565264.2, 4151794.0, 5.4, 144.6, 0.0);
(565264.2, 4151784.0, 5.5, 144.6, 0.0); (565454.2, 4151984.0, 3.0, 144.6, 0.0);
(565454.2, 4151994.0, 2.8, 144.6, 0.0); (565454.2, 4152004.0, 2.6, 144.6, 0.0);
(565454.2, 4152014.0, 2.7, 144.6, 0.0); (565454.2, 4152024.0, 2.8, 144.6, 0.0);
(565454.2, 4152034.0, 2.8, 144.6, 0.0); (565454.2, 4152044.0, 2.8, 144.6, 0.0);
(565454.2, 4152054.0, 2.8, 144.6, 0.0); (565454.2, 4152064.0, 2.8, 144.6, 0.0);
(565454.2, 4152074.0, 2.9, 144.6, 0.0); (565454.2, 4152084.0, 2.9, 144.6, 0.0);
(565454.2, 4152094.0, 3.0, 144.6, 0.0); (565454.2, 4152104.0, 3.0, 144.6, 0.0);
(565454.2, 4152114.0, 3.1, 144.6, 0.0); (565454.2, 4152124.0, 3.1, 144.6, 0.0);
(565454.2, 4152134.0, 3.1, 144.6, 0.0); (565454.2, 4152144.0, 3.1, 144.6, 0.0);
(565454.2, 4152154.0, 3.1, 144.6, 0.0); (

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565454.2, 4152164.0,       3.1,     144.6,       0.0);
     ( 565454.2, 4152174.0,       3.1,     144.6,       0.0);         (
565454.2, 4152184.0,       3.1,     144.6,       0.0);
     ( 565454.2, 4152194.0,       3.2,       3.2,       0.0);         (
565454.2, 4152204.0,       3.4,       3.4,       0.0);
     ( 565454.2, 4152214.0,       3.6,       3.6,       0.0);         (
565454.2, 4152224.0,       3.7,       3.7,       0.0);
     ( 565454.2, 4152234.0,       3.7,       3.7,       0.0);         (
565454.2, 4152244.0,       3.7,       3.7,       0.0);
     ( 565454.2, 4152254.0,       3.7,       3.7,       0.0);         (
565454.2, 4152264.0,       3.6,       3.6,       0.0);
     ( 565454.2, 4152274.0,       3.5,       3.5,       0.0);         (
565454.2, 4152284.0,       3.4,       3.4,       0.0);
     ( 565444.2, 4151984.0,       3.0,     144.6,       0.0);         (
565444.2, 4151994.0,       2.8,     144.6,       0.0);
     ( 565444.2, 4152004.0,       2.7,     144.6,       0.0);         (
565444.2, 4152014.0,       2.8,     144.6,       0.0);
     ( 565444.2, 4152024.0,       2.8,     144.6,       0.0);         (
565444.2, 4152034.0,       2.9,     144.6,       0.0);
     ( 565444.2, 4152044.0,       2.9,     144.6,       0.0);         (
565444.2, 4152054.0,       2.9,     144.6,       0.0);
     ( 565444.2, 4152064.0,       2.9,     144.6,       0.0);         (
565444.2, 4152074.0,       2.9,     144.6,       0.0);
     ( 565444.2, 4152084.0,       2.9,     144.6,       0.0);         (
565444.2, 4152094.0,       2.9,     144.6,       0.0);
     ( 565444.2, 4152104.0,       3.0,     144.6,       0.0);         (
565444.2, 4152114.0,       3.1,     144.6,       0.0);
     ( 565444.2, 4152124.0,       3.1,     144.6,       0.0);         (
565444.2, 4152134.0,       3.2,     144.6,       0.0);
     ( 565444.2, 4152144.0,       3.2,     144.6,       0.0);         (
565444.2, 4152154.0,       3.2,     144.6,       0.0);
     ( 565444.2, 4152164.0,       3.2,     144.6,       0.0);         (
565444.2, 4152174.0,       3.1,     144.6,       0.0);
     ( 565444.2, 4152184.0,       3.1,     144.6,       0.0);         (
565444.2, 4152194.0,       3.2,     144.6,       0.0);
     ( 565444.2, 4152204.0,       3.3,     144.6,       0.0);         (
565444.2, 4152214.0,       3.4,       3.4,       0.0);
     ( 565444.2, 4152224.0,       3.5,       3.5,       0.0);         (
565444.2, 4152234.0,       3.6,       3.6,       0.0);
     ( 565444.2, 4152244.0,       3.7,       3.7,       0.0);         (
565444.2, 4152254.0,       3.6,       3.6,       0.0);
     ( 565444.2, 4152264.0,       3.5,       3.5,       0.0);         (
565444.2, 4152274.0,       3.3,       3.3,       0.0);
     ( 565444.2, 4152284.0,       3.3,       3.3,       0.0);         (
565434.2, 4151984.0,       3.0,     144.6,       0.0);
     ( 565434.2, 4151994.0,       2.9,     144.6,       0.0);         (
565434.2, 4152004.0,       2.8,     144.6,       0.0);
     ( 565434.2, 4152014.0,       2.9,     144.6,       0.0);         (
565434.2, 4152024.0,       2.9,     144.6,       0.0);
     ( 565434.2, 4152034.0,       2.9,     144.6,       0.0);         (
565434.2, 4152044.0,       2.9,     144.6,       0.0);
     ( 565434.2, 4152054.0,       2.9,     144.6,       0.0);         (
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565434.2, 4152064.0,       3.0,     144.6,       0.0);
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565434.2, 4152074.0, 2.9, 144.6, 0.0); (565434.2, 4152084.0, 2.9, 144.6, 0.0);
(565434.2, 4152094.0, 2.8, 144.6, 0.0); (565434.2, 4152104.0, 2.9, 144.6, 0.0);
(565434.2, 4152114.0, 3.0, 144.6, 0.0); (565434.2, 4152124.0, 3.1, 144.6, 0.0);
(565434.2, 4152134.0, 3.2, 144.6, 0.0); (565434.2, 4152144.0, 3.2, 144.6, 0.0);
(565434.2, 4152154.0, 3.3, 144.6, 0.0); (565434.2, 4152164.0, 3.2, 144.6, 0.0);
(565434.2, 4152174.0, 3.2, 144.6, 0.0); (565434.2, 4152184.0, 3.1, 144.6, 0.0);
(565434.2, 4152194.0, 3.2, 144.6, 0.0); (565434.2, 4152204.0, 3.2, 144.6, 0.0);
(565434.2, 4152214.0, 3.2, 144.6, 0.0); (565434.2, 4152224.0, 3.4, 144.6, 0.0);
(565434.2, 4152234.0, 3.5, 3.5, 0.0); (565434.2, 4152244.0, 3.6, 3.6, 0.0);
(565434.2, 4152254.0, 3.5, 3.5, 0.0); (565434.2, 4152264.0, 3.4, 3.4, 0.0);
(565434.2, 4152274.0, 3.2, 3.2, 0.0); (565434.2, 4152284.0, 3.1, 3.1, 0.0);
(565424.2, 4151984.0, 3.1, 144.6, 0.0); (565424.2, 4151994.0, 3.1, 144.6, 0.0);
(565424.2, 4152004.0, 3.1, 144.6, 0.0); (565424.2, 4152014.0, 3.0, 144.6, 0.0);
(565424.2, 4152024.0, 2.9, 144.6, 0.0); (565424.2, 4152034.0, 2.9, 144.6, 0.0);
(565424.2, 4152044.0, 2.9, 144.6, 0.0); (565424.2, 4152054.0, 2.9, 144.6, 0.0);
(565424.2, 4152064.0, 3.0, 144.6, 0.0); (565424.2, 4152074.0, 3.0, 144.6, 0.0);
(565424.2, 4152084.0, 2.9, 144.6, 0.0); (565424.2, 4152094.0, 2.9, 144.6, 0.0);
(565424.2, 4152104.0, 3.0, 144.6, 0.0); (565424.2, 4152114.0, 3.0, 144.6, 0.0);
(565424.2, 4152124.0, 3.0, 144.6, 0.0); (

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565424.2, 4152134.0,       3.1,     144.6,       0.0);
     ( 565424.2, 4152144.0,       3.1,     144.6,       0.0);         (
565424.2, 4152154.0,       3.2,     144.6,       0.0);
     ( 565424.2, 4152164.0,       3.2,     144.6,       0.0);         (
565424.2, 4152174.0,       3.2,     144.6,       0.0);
     ( 565424.2, 4152184.0,       3.2,     144.6,       0.0);         (
565424.2, 4152194.0,       3.2,     144.6,       0.0);
     ( 565424.2, 4152204.0,       3.2,     144.6,       0.0);         (
565424.2, 4152214.0,       3.2,     144.6,       0.0);
     ( 565424.2, 4152224.0,       3.3,     144.6,       0.0);         (
565424.2, 4152234.0,       3.4,     144.6,       0.0);
     ( 565424.2, 4152244.0,       3.5,     144.6,       0.0);         (
565424.2, 4152254.0,       3.5,       3.5,       0.0);
     ( 565424.2, 4152264.0,       3.3,       3.3,       0.0);         (
565424.2, 4152274.0,       3.2,       3.2,       0.0);
     ( 565424.2, 4152284.0,       3.1,       3.1,       0.0);         (
565414.2, 4151984.0,       3.3,     144.6,       0.0);
     ( 565414.2, 4151994.0,       3.3,     144.6,       0.0);         (
565414.2, 4152004.0,       3.3,     144.6,       0.0);
     ( 565414.2, 4152014.0,       3.1,     144.6,       0.0);         (
565414.2, 4152024.0,       3.0,     144.6,       0.0);
     ( 565414.2, 4152034.0,       2.9,     144.6,       0.0);         (
565414.2, 4152044.0,       2.9,     144.6,       0.0);
     ( 565414.2, 4152054.0,       2.9,     144.6,       0.0);         (
565414.2, 4152064.0,       3.0,     144.6,       0.0);
     ( 565414.2, 4152074.0,       3.0,     144.6,       0.0);         (
565414.2, 4152084.0,       3.0,     144.6,       0.0);
     ( 565414.2, 4152094.0,       3.1,     144.6,       0.0);         (
565414.2, 4152104.0,       3.0,     144.6,       0.0);
     ( 565414.2, 4152114.0,       2.9,     144.6,       0.0);         (
565414.2, 4152124.0,       2.8,     144.6,       0.0);
     ( 565414.2, 4152134.0,       2.9,     144.6,       0.0);         (
565414.2, 4152144.0,       3.0,     144.6,       0.0);
     ( 565414.2, 4152154.0,       3.1,     144.6,       0.0);         (
565414.2, 4152164.0,       3.2,     144.6,       0.0);
     ( 565414.2, 4152174.0,       3.2,     144.6,       0.0);         (
565414.2, 4152184.0,       3.3,     144.6,       0.0);
     ( 565414.2, 4152194.0,       3.3,     144.6,       0.0);         (
565414.2, 4152204.0,       3.3,     144.6,       0.0);
     ( 565414.2, 4152214.0,       3.2,     144.6,       0.0);         (
565414.2, 4152224.0,       3.3,     144.6,       0.0);
     ( 565414.2, 4152234.0,       3.4,     144.6,       0.0);         (
565414.2, 4152244.0,       3.5,     144.6,       0.0);
     ( 565414.2, 4152254.0,       3.4,     144.6,       0.0);         (
565414.2, 4152264.0,       3.3,     144.6,       0.0);
     ( 565414.2, 4152274.0,       3.2,     144.6,       0.0);         (
565414.2, 4152284.0,       3.2,       3.2,       0.0);
     ( 565404.2, 4151984.0,       3.4,     144.6,       0.0);         (
565404.2, 4151994.0,       3.4,     144.6,       0.0);
     ( 565404.2, 4152004.0,       3.4,     144.6,       0.0);         (
565404.2, 4152014.0,       3.2,     144.6,       0.0);
     ( 565404.2, 4152024.0,       2.9,     144.6,       0.0);         (
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565404.2, 4152034.0,       2.8,     144.6,       0.0);
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565404.2, 4152044.0, 2.9, 144.6, 0.0); (565404.2, 4152054.0, 2.9, 144.6, 0.0);
(565404.2, 4152064.0, 3.0, 144.6, 0.0); (565404.2, 4152074.0, 3.0, 144.6, 0.0);
(565404.2, 4152084.0, 3.1, 144.6, 0.0); (565404.2, 4152094.0, 3.1, 144.6, 0.0);
(565404.2, 4152104.0, 3.0, 144.6, 0.0); (565404.2, 4152114.0, 2.9, 144.6, 0.0);
(565404.2, 4152124.0, 2.9, 144.6, 0.0); (565404.2, 4152134.0, 2.9, 144.6, 0.0);
(565404.2, 4152144.0, 2.9, 144.6, 0.0); (565404.2, 4152154.0, 3.0, 144.6, 0.0);
(565404.2, 4152164.0, 3.1, 144.6, 0.0); (565404.2, 4152174.0, 3.2, 144.6, 0.0);
(565404.2, 4152184.0, 3.3, 144.6, 0.0); (565404.2, 4152194.0, 3.3, 144.6, 0.0);
(565404.2, 4152204.0, 3.3, 144.6, 0.0); (565404.2, 4152214.0, 3.3, 144.6, 0.0);
(565404.2, 4152224.0, 3.3, 144.6, 0.0); (565404.2, 4152234.0, 3.4, 144.6, 0.0);
(565404.2, 4152244.0, 3.4, 144.6, 0.0); (565404.2, 4152254.0, 3.3, 144.6, 0.0);
(565404.2, 4152264.0, 3.2, 144.6, 0.0); (565404.2, 4152274.0, 3.1, 144.6, 0.0);
(565404.2, 4152284.0, 3.1, 144.6, 0.0); (565394.2, 4151984.0, 3.5, 144.6, 0.0);
(565394.2, 4151994.0, 3.5, 144.6, 0.0); (565394.2, 4152004.0, 3.4, 144.6, 0.0);
(565394.2, 4152014.0, 3.1, 144.6, 0.0); (565394.2, 4152024.0, 2.8, 144.6, 0.0);
(565394.2, 4152034.0, 2.6, 144.6, 0.0); (565394.2, 4152044.0, 2.8, 144.6, 0.0);
(565394.2, 4152054.0, 2.9, 144.6, 0.0); (565394.2, 4152064.0, 3.0, 144.6, 0.0);
(565394.2, 4152074.0, 3.0, 144.6, 0.0); (565394.2, 4152084.0, 3.0, 144.6, 0.0);
(565394.2, 4152094.0, 3.0, 144.6, 0.0); (

565394.2, 4152104.0, 3.0, 144.6, 0.0);
(565394.2, 4152114.0, 3.0, 144.6, 0.0); (
565394.2, 4152124.0, 3.0, 144.6, 0.0);
(565394.2, 4152134.0, 3.0, 144.6, 0.0); (
565394.2, 4152144.0, 2.9, 144.6, 0.0);
(565394.2, 4152154.0, 2.8, 144.6, 0.0); (
565394.2, 4152164.0, 3.0, 144.6, 0.0);
(565394.2, 4152174.0, 3.1, 144.6, 0.0); (
565394.2, 4152184.0, 3.2, 144.6, 0.0);
(565394.2, 4152194.0, 3.3, 144.6, 0.0); (
565394.2, 4152204.0, 3.3, 144.6, 0.0);
(565394.2, 4152214.0, 3.3, 144.6, 0.0); (
565394.2, 4152224.0, 3.4, 144.6, 0.0);
(565394.2, 4152234.0, 3.4, 144.6, 0.0); (
565394.2, 4152244.0, 3.4, 144.6, 0.0);
(565394.2, 4152254.0, 3.3, 144.6, 0.0); (
565394.2, 4152264.0, 3.1, 144.6, 0.0);
(565394.2, 4152274.0, 3.0, 144.6, 0.0); (
565394.2, 4152284.0, 3.0, 144.6, 0.0);
(565384.2, 4151984.0, 3.6, 144.6, 0.0); (
565384.2, 4151994.0, 3.5, 144.6, 0.0);
(565384.2, 4152004.0, 3.4, 144.6, 0.0); (
565384.2, 4152014.0, 3.1, 144.6, 0.0);
(565384.2, 4152024.0, 2.7, 144.6, 0.0); (
565384.2, 4152034.0, 2.5, 144.6, 0.0);
(565384.2, 4152044.0, 2.7, 144.6, 0.0); (
565384.2, 4152054.0, 2.9, 144.6, 0.0);
(565384.2, 4152064.0, 3.1, 144.6, 0.0); (
565384.2, 4152074.0, 3.0, 144.6, 0.0);
(565384.2, 4152084.0, 3.0, 144.6, 0.0); (
565384.2, 4152094.0, 3.0, 144.6, 0.0);
(565384.2, 4152104.0, 3.1, 144.6, 0.0); (
565384.2, 4152114.0, 3.1, 144.6, 0.0);
(565384.2, 4152124.0, 3.2, 144.6, 0.0); (
565384.2, 4152134.0, 3.0, 144.6, 0.0);
(565384.2, 4152144.0, 2.9, 144.6, 0.0); (
565384.2, 4152154.0, 2.7, 144.6, 0.0);
(565384.2, 4152164.0, 2.8, 144.6, 0.0); (
565384.2, 4152174.0, 3.0, 144.6, 0.0);
(565384.2, 4152184.0, 3.2, 144.6, 0.0); (
565384.2, 4152194.0, 3.2, 144.6, 0.0);
(565384.2, 4152204.0, 3.3, 144.6, 0.0); (
565384.2, 4152214.0, 3.4, 144.6, 0.0);
(565384.2, 4152224.0, 3.4, 144.6, 0.0); (
565384.2, 4152234.0, 3.4, 144.6, 0.0);
(565384.2, 4152244.0, 3.4, 144.6, 0.0); (
565384.2, 4152254.0, 3.2, 144.6, 0.0);
(565384.2, 4152264.0, 3.0, 144.6, 0.0); (
565384.2, 4152274.0, 2.8, 144.6, 0.0);
(565384.2, 4152284.0, 2.8, 144.6, 0.0); (
565374.2, 4151984.0, 3.6, 144.6, 0.0);
(565374.2, 4151994.0, 3.5, 144.6, 0.0); (

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565374.2, 4152004.0,       3.4,     144.6,       0.0);
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565374.2, 4152014.0, 3.1, 144.6, 0.0); (565374.2, 4152024.0, 2.8, 144.6, 0.0);
(565374.2, 4152034.0, 2.6, 144.6, 0.0); (565374.2, 4152044.0, 2.8, 144.6, 0.0);
(565374.2, 4152054.0, 2.9, 144.6, 0.0); (565374.2, 4152064.0, 3.0, 144.6, 0.0);
(565374.2, 4152074.0, 3.1, 144.6, 0.0); (565374.2, 4152084.0, 3.1, 144.6, 0.0);
(565374.2, 4152094.0, 3.1, 144.6, 0.0); (565374.2, 4152104.0, 3.1, 144.6, 0.0);
(565374.2, 4152114.0, 3.1, 144.6, 0.0); (565374.2, 4152124.0, 3.2, 144.6, 0.0);
(565374.2, 4152134.0, 3.1, 144.6, 0.0); (565374.2, 4152144.0, 3.0, 144.6, 0.0);
(565374.2, 4152154.0, 3.0, 144.6, 0.0); (565374.2, 4152164.0, 3.0, 144.6, 0.0);
(565374.2, 4152174.0, 3.0, 144.6, 0.0); (565374.2, 4152184.0, 3.0, 144.6, 0.0);
(565374.2, 4152194.0, 3.1, 144.6, 0.0); (565374.2, 4152204.0, 3.2, 144.6, 0.0);
(565374.2, 4152214.0, 3.3, 144.6, 0.0); (565374.2, 4152224.0, 3.3, 144.6, 0.0);
(565374.2, 4152234.0, 3.4, 144.6, 0.0); (565374.2, 4152244.0, 3.4, 144.6, 0.0);
(565374.2, 4152254.0, 3.1, 144.6, 0.0); (565374.2, 4152264.0, 2.8, 144.6, 0.0);
(565374.2, 4152274.0, 2.4, 144.6, 0.0); (565374.2, 4152284.0, 2.4, 144.6, 0.0);
(565364.2, 4151984.0, 3.6, 144.6, 0.0); (565364.2, 4151994.0, 3.5, 144.6, 0.0);
(565364.2, 4152004.0, 3.3, 144.6, 0.0); (565364.2, 4152014.0, 3.1, 144.6, 0.0);
(565364.2, 4152024.0, 2.9, 144.6, 0.0); (565364.2, 4152034.0, 2.7, 144.6, 0.0);
(565364.2, 4152044.0, 2.8, 144.6, 0.0); (565364.2, 4152054.0, 2.9, 144.6, 0.0);
(565364.2, 4152064.0, 3.0, 144.6, 0.0); (

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565364.2, 4152074.0,       3.1,     144.6,       0.0);
     ( 565364.2, 4152084.0,       3.1,     144.6,       0.0);         (
565364.2, 4152094.0,       3.2,     144.6,       0.0);
     ( 565364.2, 4152104.0,       3.1,     144.6,       0.0);         (
565364.2, 4152114.0,       3.1,     144.6,       0.0);
     ( 565364.2, 4152124.0,       3.1,     144.6,       0.0);         (
565364.2, 4152134.0,       3.1,     144.6,       0.0);
     ( 565364.2, 4152144.0,       3.2,     144.6,       0.0);         (
565364.2, 4152154.0,       3.2,     144.6,       0.0);
     ( 565364.2, 4152164.0,       3.1,     144.6,       0.0);         (
565364.2, 4152174.0,       3.0,     144.6,       0.0);
     ( 565364.2, 4152184.0,       2.9,     144.6,       0.0);         (
565364.2, 4152194.0,       3.0,     144.6,       0.0);
     ( 565364.2, 4152204.0,       3.1,     144.6,       0.0);         (
565364.2, 4152214.0,       3.1,     144.6,       0.0);
     ( 565364.2, 4152224.0,       3.2,     144.6,       0.0);         (
565364.2, 4152234.0,       3.3,     144.6,       0.0);
     ( 565364.2, 4152244.0,       3.4,     144.6,       0.0);         (
565364.2, 4152254.0,       3.0,     144.6,       0.0);
     ( 565364.2, 4152264.0,       2.5,     144.6,       0.0);         (
565364.2, 4152274.0,       1.9,     144.6,       0.0);
     ( 565364.2, 4152284.0,       2.0,     144.6,       0.0);         (
565354.2, 4151984.0,       3.5,     144.6,       0.0);
     ( 565354.2, 4151994.0,       3.4,     144.6,       0.0);         (
565354.2, 4152004.0,       3.3,     144.6,       0.0);
     ( 565354.2, 4152014.0,       3.1,     144.6,       0.0);         (
565354.2, 4152024.0,       3.0,     144.6,       0.0);
     ( 565354.2, 4152034.0,       2.9,     144.6,       0.0);         (
565354.2, 4152044.0,       3.0,     144.6,       0.0);
     ( 565354.2, 4152054.0,       3.0,     144.6,       0.0);         (
565354.2, 4152064.0,       3.1,     144.6,       0.0);
     ( 565354.2, 4152074.0,       3.1,     144.6,       0.0);         (
565354.2, 4152084.0,       3.1,     144.6,       0.0);
     ( 565354.2, 4152094.0,       3.2,     144.6,       0.0);         (
565354.2, 4152104.0,       3.2,     144.6,       0.0);
     ( 565354.2, 4152114.0,       3.2,     144.6,       0.0);         (
565354.2, 4152124.0,       3.2,     144.6,       0.0);
     ( 565354.2, 4152134.0,       3.2,     144.6,       0.0);         (
565354.2, 4152144.0,       3.3,     144.6,       0.0);
     ( 565354.2, 4152154.0,       3.3,     144.6,       0.0);         (
565354.2, 4152164.0,       3.2,     144.6,       0.0);
     ( 565354.2, 4152174.0,       3.1,     144.6,       0.0);         (
565354.2, 4152184.0,       3.0,     144.6,       0.0);
     ( 565354.2, 4152194.0,       3.0,     144.6,       0.0);         (
565354.2, 4152204.0,       3.0,     144.6,       0.0);
     ( 565354.2, 4152214.0,       3.0,     144.6,       0.0);         (
565354.2, 4152224.0,       3.1,     144.6,       0.0);
     ( 565354.2, 4152234.0,       3.2,     144.6,       0.0);         (
565354.2, 4152244.0,       3.3,     144.6,       0.0);
     ( 565354.2, 4152254.0,       3.1,     144.6,       0.0);         (
565354.2, 4152264.0,       2.8,     144.6,       0.0);
     ( 565354.2, 4152274.0,       2.4,     144.6,       0.0);         (
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565354.2, 4152284.0,       2.4,     144.6,       0.0);
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565344.2, 4151984.0, 3.4, 144.6, 0.0); (565344.2, 4151994.0, 3.3, 144.6, 0.0);
(565344.2, 4152004.0, 3.3, 144.6, 0.0); (565344.2, 4152014.0, 3.2, 144.6, 0.0);
(565344.2, 4152024.0, 3.2, 144.6, 0.0); (565344.2, 4152034.0, 3.1, 144.6, 0.0);
(565344.2, 4152044.0, 3.1, 144.6, 0.0); (565344.2, 4152054.0, 3.1, 144.6, 0.0);
(565344.2, 4152064.0, 3.1, 144.6, 0.0); (565344.2, 4152074.0, 3.1, 144.6, 0.0);
(565344.2, 4152084.0, 3.1, 144.6, 0.0); (565344.2, 4152094.0, 3.1, 144.6, 0.0);
(565344.2, 4152104.0, 3.2, 144.6, 0.0); (565344.2, 4152114.0, 3.3, 144.6, 0.0);
(565344.2, 4152124.0, 3.3, 144.6, 0.0); (565344.2, 4152134.0, 3.3, 144.6, 0.0);
(565344.2, 4152144.0, 3.3, 144.6, 0.0); (565344.2, 4152154.0, 3.3, 144.6, 0.0);
(565344.2, 4152164.0, 3.2, 144.6, 0.0); (565344.2, 4152174.0, 3.2, 144.6, 0.0);
(565344.2, 4152184.0, 3.2, 144.6, 0.0); (565344.2, 4152194.0, 3.1, 144.6, 0.0);
(565344.2, 4152204.0, 3.0, 144.6, 0.0); (565344.2, 4152214.0, 3.0, 144.6, 0.0);
(565344.2, 4152224.0, 3.0, 144.6, 0.0); (565344.2, 4152234.0, 3.1, 144.6, 0.0);
(565344.2, 4152244.0, 3.2, 144.6, 0.0); (565344.2, 4152254.0, 3.4, 144.6, 0.0);
(565344.2, 4152264.0, 3.7, 144.6, 0.0); (565344.2, 4152274.0, 3.9, 144.6, 0.0);
(565344.2, 4152284.0, 3.8, 144.6, 0.0); (565334.2, 4151984.0, 3.4, 144.6, 0.0);
(565334.2, 4151994.0, 3.3, 144.6, 0.0); (565334.2, 4152004.0, 3.3, 144.6, 0.0);
(565334.2, 4152014.0, 3.3, 144.6, 0.0); (565334.2, 4152024.0, 3.3, 144.6, 0.0);
(565334.2, 4152034.0, 3.3, 144.6, 0.0); (

```
565334.2, 4152044.0,       3.2,     144.6,       0.0);
     ( 565334.2, 4152054.0,       3.2,     144.6,       0.0);         (
565334.2, 4152064.0,       3.1,     144.6,       0.0);
     ( 565334.2, 4152074.0,       3.1,     144.6,       0.0);         (
565334.2, 4152084.0,       3.1,     144.6,       0.0);
     ( 565334.2, 4152094.0,       3.1,     144.6,       0.0);         (
565334.2, 4152104.0,       3.2,     144.6,       0.0);
     ( 565334.2, 4152114.0,       3.3,     144.6,       0.0);         (
565334.2, 4152124.0,       3.5,     144.6,       0.0);
     ( 565334.2, 4152134.0,       3.4,     144.6,       0.0);         (
565334.2, 4152144.0,       3.3,     144.6,       0.0);
     ( 565334.2, 4152154.0,       3.3,     144.6,       0.0);         (
565334.2, 4152164.0,       3.3,     144.6,       0.0);
     ( 565334.2, 4152174.0,       3.3,     144.6,       0.0);         (
565334.2, 4152184.0,       3.3,     144.6,       0.0);
     ( 565334.2, 4152194.0,       3.2,     144.6,       0.0);         (
565334.2, 4152204.0,       3.1,     144.6,       0.0);
     ( 565334.2, 4152214.0,       2.9,     144.6,       0.0);         (
565334.2, 4152224.0,       3.0,     144.6,       0.0);
     ( 565334.2, 4152234.0,       3.0,     144.6,       0.0);         (
565334.2, 4152244.0,       3.1,     144.6,       0.0);
     ( 565334.2, 4152254.0,       3.8,     144.6,       0.0);         (
565334.2, 4152264.0,       4.6,     144.6,       0.0);
     ( 565334.2, 4152274.0,       5.4,     144.6,       0.0);         (
565334.2, 4152284.0,       5.1,     144.6,       0.0);
     ( 565324.2, 4151984.0,       3.4,     144.6,       0.0);         (
565324.2, 4151994.0,       3.4,     144.6,       0.0);
     ( 565324.2, 4152004.0,       3.3,     144.6,       0.0);         (
565324.2, 4152014.0,       3.4,     144.6,       0.0);
     ( 565324.2, 4152024.0,       3.4,     144.6,       0.0);         (
565324.2, 4152034.0,       3.4,     144.6,       0.0);
     ( 565324.2, 4152044.0,       3.2,     144.6,       0.0);         (
565324.2, 4152054.0,       3.1,     144.6,       0.0);
     ( 565324.2, 4152064.0,       3.0,     144.6,       0.0);         (
565324.2, 4152074.0,       3.1,     144.6,       0.0);
     ( 565324.2, 4152084.0,       3.2,     144.6,       0.0);         (
565324.2, 4152094.0,       3.2,     144.6,       0.0);
     ( 565324.2, 4152104.0,       3.3,     144.6,       0.0);         (
565324.2, 4152114.0,       3.4,     144.6,       0.0);
     ( 565324.2, 4152124.0,       3.4,     144.6,       0.0);         (
565324.2, 4152134.0,       3.4,     144.6,       0.0);
     ( 565324.2, 4152144.0,       3.3,     144.6,       0.0);         (
565324.2, 4152154.0,       3.3,     144.6,       0.0);
     ( 565324.2, 4152164.0,       3.3,     144.6,       0.0);         (
565324.2, 4152174.0,       3.3,     144.6,       0.0);
     ( 565324.2, 4152184.0,       3.3,     144.6,       0.0);         (
565324.2, 4152194.0,       3.2,     144.6,       0.0);
     ( 565324.2, 4152204.0,       3.1,     144.6,       0.0);         (
565324.2, 4152214.0,       3.0,     144.6,       0.0);
     ( 565324.2, 4152224.0,       3.0,     144.6,       0.0);         (
565324.2, 4152234.0,       3.0,     144.6,       0.0);
     ( 565324.2, 4152244.0,       3.1,     144.6,       0.0);         (
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565324.2, 4152254.0,       3.9,     144.6,       0.0);
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565324.2, 4152264.0, 5.0, 144.6, 0.0); (565324.2, 4152274.0, 6.1, 144.6, 0.0);
(565324.2, 4152284.0, 5.8, 144.6, 0.0); (565314.2, 4151984.0, 3.5, 144.6, 0.0);
(565314.2, 4151994.0, 3.4, 144.6, 0.0); (565314.2, 4152004.0, 3.4, 144.6, 0.0);
(565314.2, 4152014.0, 3.4, 144.6, 0.0); (565314.2, 4152024.0, 3.4, 144.6, 0.0);
(565314.2, 4152034.0, 3.4, 144.6, 0.0); (565314.2, 4152044.0, 3.2, 144.6, 0.0);
(565314.2, 4152054.0, 3.0, 144.6, 0.0); (565314.2, 4152064.0, 2.9, 144.6, 0.0);
(565314.2, 4152074.0, 3.1, 144.6, 0.0); (565314.2, 4152084.0, 3.2, 144.6, 0.0);
(565314.2, 4152094.0, 3.4, 144.6, 0.0); (565314.2, 4152104.0, 3.4, 144.6, 0.0);
(565314.2, 4152114.0, 3.4, 144.6, 0.0); (565314.2, 4152124.0, 3.4, 144.6, 0.0);
(565314.2, 4152134.0, 3.4, 144.6, 0.0); (565314.2, 4152144.0, 3.3, 144.6, 0.0);
(565314.2, 4152154.0, 3.3, 144.6, 0.0); (565314.2, 4152164.0, 3.3, 144.6, 0.0);
(565314.2, 4152174.0, 3.3, 144.6, 0.0); (565314.2, 4152184.0, 3.3, 144.6, 0.0);
(565314.2, 4152194.0, 3.3, 144.6, 0.0); (565314.2, 4152204.0, 3.2, 144.6, 0.0);
(565314.2, 4152214.0, 3.1, 144.6, 0.0); (565314.2, 4152224.0, 3.0, 144.6, 0.0);
(565314.2, 4152234.0, 3.0, 144.6, 0.0); (565314.2, 4152244.0, 3.0, 144.6, 0.0);
(565314.2, 4152254.0, 4.0, 144.6, 0.0); (565314.2, 4152264.0, 5.4, 144.6, 0.0);
(565314.2, 4152274.0, 6.8, 144.6, 0.0); (565314.2, 4152284.0, 6.4, 144.6, 0.0);
(565304.2, 4151984.0, 3.5, 144.6, 0.0); (565304.2, 4151994.0, 3.5, 144.6, 0.0);
(565304.2, 4152004.0, 3.5, 144.6, 0.0); (

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565304.2, 4152014.0,       3.4,     144.6,       0.0);
     ( 565304.2, 4152024.0,       3.4,     144.6,       0.0);         (
565304.2, 4152034.0,       3.3,     144.6,       0.0);
     ( 565304.2, 4152044.0,       3.2,     144.6,       0.0);         (
565304.2, 4152054.0,       3.0,     144.6,       0.0);
     ( 565304.2, 4152064.0,       2.9,     144.6,       0.0);         (
565304.2, 4152074.0,       3.1,     144.6,       0.0);
     ( 565304.2, 4152084.0,       3.3,     144.6,       0.0);         (
565304.2, 4152094.0,       3.4,     144.6,       0.0);
     ( 565304.2, 4152104.0,       3.4,     144.6,       0.0);         (
565304.2, 4152114.0,       3.4,     144.6,       0.0);
     ( 565304.2, 4152124.0,       3.3,     144.6,       0.0);         (
565304.2, 4152134.0,       3.3,     144.6,       0.0);
     ( 565304.2, 4152144.0,       3.3,     144.6,       0.0);         (
565304.2, 4152154.0,       3.3,     144.6,       0.0);
     ( 565304.2, 4152164.0,       3.3,     144.6,       0.0);         (
565304.2, 4152174.0,       3.3,     144.6,       0.0);
     ( 565304.2, 4152184.0,       3.3,     144.6,       0.0);         (
565304.2, 4152194.0,       3.3,     144.6,       0.0);
     ( 565304.2, 4152204.0,       3.2,     144.6,       0.0);         (
565304.2, 4152214.0,       3.1,     144.6,       0.0);
     ( 565304.2, 4152224.0,       3.1,     144.6,       0.0);         (
565304.2, 4152234.0,       3.0,     144.6,       0.0);
     ( 565304.2, 4152244.0,       2.9,     144.6,       0.0);         (
565304.2, 4152254.0,       3.8,     144.6,       0.0);
     ( 565304.2, 4152264.0,       5.0,     144.6,       0.0);         (
565304.2, 4152274.0,       6.1,     144.6,       0.0);
     ( 565304.2, 4152284.0,       5.8,     144.6,       0.0);         (
565294.2, 4151984.0,       3.5,     144.6,       0.0);
     ( 565294.2, 4151994.0,       3.5,     144.6,       0.0);         (
565294.2, 4152004.0,       3.5,     144.6,       0.0);
     ( 565294.2, 4152014.0,       3.4,     144.6,       0.0);         (
565294.2, 4152024.0,       3.3,     144.6,       0.0);
     ( 565294.2, 4152034.0,       3.2,     144.6,       0.0);         (
565294.2, 4152044.0,       3.1,     144.6,       0.0);
     ( 565294.2, 4152054.0,       3.0,     144.6,       0.0);         (
565294.2, 4152064.0,       3.0,     144.6,       0.0);
     ( 565294.2, 4152074.0,       3.1,     144.6,       0.0);         (
565294.2, 4152084.0,       3.3,     144.6,       0.0);
     ( 565294.2, 4152094.0,       3.4,     144.6,       0.0);         (
565294.2, 4152104.0,       3.4,     144.6,       0.0);
     ( 565294.2, 4152114.0,       3.3,     144.6,       0.0);         (
565294.2, 4152124.0,       3.3,     144.6,       0.0);
     ( 565294.2, 4152134.0,       3.3,     144.6,       0.0);         (
565294.2, 4152144.0,       3.3,     144.6,       0.0);
     ( 565294.2, 4152154.0,       3.4,     144.6,       0.0);         (
565294.2, 4152164.0,       3.4,     144.6,       0.0);
     ( 565294.2, 4152174.0,       3.4,     144.6,       0.0);         (
565294.2, 4152184.0,       3.4,     144.6,       0.0);
     ( 565294.2, 4152194.0,       3.3,     144.6,       0.0);         (
565294.2, 4152204.0,       3.2,     144.6,       0.0);
     ( 565294.2, 4152214.0,       3.1,     144.6,       0.0);         (
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565294.2, 4152224.0,       3.0,     144.6,       0.0);
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565294.2, 4152234.0, 3.0, 144.6, 0.0); (565294.2, 4152244.0, 2.9, 144.6, 0.0);
(565294.2, 4152254.0, 3.4, 144.6, 0.0); (565294.2, 4152264.0, 3.9, 144.6, 0.0);
(565294.2, 4152274.0, 4.5, 144.6, 0.0); (565294.2, 4152284.0, 4.4, 144.6, 0.0);
(565284.2, 4151984.0, 3.5, 144.6, 0.0); (565284.2, 4151994.0, 3.6, 144.6, 0.0);
(565284.2, 4152004.0, 3.5, 144.6, 0.0); (565284.2, 4152014.0, 3.4, 144.6, 0.0);
(565284.2, 4152024.0, 3.2, 144.6, 0.0); (565284.2, 4152034.0, 3.1, 144.6, 0.0);
(565284.2, 4152044.0, 3.1, 144.6, 0.0); (565284.2, 4152054.0, 3.0, 144.6, 0.0);
(565284.2, 4152064.0, 3.0, 144.6, 0.0); (565284.2, 4152074.0, 3.1, 144.6, 0.0);
(565284.2, 4152084.0, 3.3, 144.6, 0.0); (565284.2, 4152094.0, 3.4, 144.6, 0.0);
(565284.2, 4152104.0, 3.3, 144.6, 0.0); (565284.2, 4152114.0, 3.3, 144.6, 0.0);
(565284.2, 4152124.0, 3.2, 144.6, 0.0); (565284.2, 4152134.0, 3.3, 144.6, 0.0);
(565284.2, 4152144.0, 3.3, 144.6, 0.0); (565284.2, 4152154.0, 3.4, 144.6, 0.0);
(565284.2, 4152164.0, 3.4, 144.6, 0.0); (565284.2, 4152174.0, 3.4, 144.6, 0.0);
(565284.2, 4152184.0, 3.4, 144.6, 0.0); (565284.2, 4152194.0, 3.3, 144.6, 0.0);
(565284.2, 4152204.0, 3.2, 144.6, 0.0); (565284.2, 4152214.0, 3.1, 144.6, 0.0);
(565284.2, 4152224.0, 3.1, 144.6, 0.0); (565284.2, 4152234.0, 3.0, 144.6, 0.0);
(565284.2, 4152244.0, 2.9, 144.6, 0.0); (565284.2, 4152254.0, 3.0, 144.6, 0.0);
(565284.2, 4152264.0, 3.0, 144.6, 0.0); (565284.2, 4152274.0, 3.1, 144.6, 0.0);
(565284.2, 4152284.0, 3.1, 144.6, 0.0); (

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565274.2, 4151984.0,       3.6,     144.6,       0.0);
     ( 565274.2, 4151994.0,       3.5,     144.6,       0.0);         (
565274.2, 4152004.0,       3.5,     144.6,       0.0);
     ( 565274.2, 4152014.0,       3.3,     144.6,       0.0);         (
565274.2, 4152024.0,       3.2,     144.6,       0.0);
     ( 565274.2, 4152034.0,       3.1,     144.6,       0.0);         (
565274.2, 4152044.0,       3.0,     144.6,       0.0);
     ( 565274.2, 4152054.0,       3.0,     144.6,       0.0);         (
565274.2, 4152064.0,       3.0,     144.6,       0.0);
     ( 565274.2, 4152074.0,       3.1,     144.6,       0.0);         (
565274.2, 4152084.0,       3.2,     144.6,       0.0);
     ( 565274.2, 4152094.0,       3.2,     144.6,       0.0);         (
565274.2, 4152104.0,       3.2,     144.6,       0.0);
     ( 565274.2, 4152114.0,       3.3,     144.6,       0.0);         (
565274.2, 4152124.0,       3.3,     144.6,       0.0);
     ( 565274.2, 4152134.0,       3.3,     144.6,       0.0);         (
565274.2, 4152144.0,       3.4,     144.6,       0.0);
     ( 565274.2, 4152154.0,       3.4,     144.6,       0.0);         (
565274.2, 4152164.0,       3.4,     144.6,       0.0);
     ( 565274.2, 4152174.0,       3.4,     144.6,       0.0);         (
565274.2, 4152184.0,       3.4,     144.6,       0.0);
     ( 565274.2, 4152194.0,       3.4,     144.6,       0.0);         (
565274.2, 4152204.0,       3.3,     144.6,       0.0);
     ( 565274.2, 4152214.0,       3.3,     144.6,       0.0);         (
565274.2, 4152224.0,       3.2,     144.6,       0.0);
     ( 565274.2, 4152234.0,       3.1,     144.6,       0.0);         (
565274.2, 4152244.0,       3.0,     144.6,       0.0);
     ( 565274.2, 4152254.0,       2.9,     144.6,       0.0);         (
565274.2, 4152264.0,       3.0,     144.6,       0.0);
     ( 565274.2, 4152274.0,       3.0,     144.6,       0.0);         (
565274.2, 4152284.0,       3.0,     144.6,       0.0);
     ( 565264.2, 4151984.0,       3.6,     144.6,       0.0);         (
565264.2, 4151994.0,       3.5,     144.6,       0.0);
     ( 565264.2, 4152004.0,       3.4,     144.6,       0.0);         (
565264.2, 4152014.0,       3.3,     144.6,       0.0);
     ( 565264.2, 4152024.0,       3.2,     144.6,       0.0);         (
565264.2, 4152034.0,       3.1,     144.6,       0.0);
     ( 565264.2, 4152044.0,       3.0,     144.6,       0.0);         (
565264.2, 4152054.0,       3.0,     144.6,       0.0);
     ( 565264.2, 4152064.0,       3.0,     144.6,       0.0);         (
565264.2, 4152074.0,       3.0,     144.6,       0.0);
     ( 565264.2, 4152084.0,       3.0,     144.6,       0.0);         (
565264.2, 4152094.0,       3.1,     144.6,       0.0);
     ( 565264.2, 4152104.0,       3.2,     144.6,       0.0);         (
565264.2, 4152114.0,       3.3,     144.6,       0.0);
     ( 565264.2, 4152124.0,       3.3,     144.6,       0.0);         (
565264.2, 4152134.0,       3.3,     144.6,       0.0);
     ( 565264.2, 4152144.0,       3.4,     144.6,       0.0);         (
565264.2, 4152154.0,       3.4,     144.6,       0.0);
     ( 565264.2, 4152164.0,       3.4,     144.6,       0.0);         (
565264.2, 4152174.0,       3.4,     144.6,       0.0);
     ( 565264.2, 4152184.0,       3.4,     144.6,       0.0);         (
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565264.2, 4152194.0,       3.4,     144.6,       0.0);
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565264.2, 4152204.0, 3.5, 144.6, 0.0); (565264.2, 4152214.0, 3.5, 144.6, 0.0);
(565264.2, 4152224.0, 3.4, 144.6, 0.0); (565264.2, 4152234.0, 3.2, 144.6, 0.0);
(565264.2, 4152244.0, 3.0, 144.6, 0.0); (565264.2, 4152254.0, 2.9, 144.6, 0.0);
(565264.2, 4152264.0, 2.9, 144.6, 0.0); (565264.2, 4152274.0, 2.9, 144.6, 0.0);
(565264.2, 4152284.0, 2.9, 144.6, 0.0); (565264.2, 4152367.2, 2.9, 144.6, 0.0);
(565264.2, 4152450.8, 2.9, 144.6, 0.0); (565264.2, 4152534.0, 2.8, 2.8, 0.0);
(565358.0, 4152367.2, 2.5, 144.6, 0.0); (565358.0, 4152450.8, 3.2, 3.2, 0.0);
(565358.0, 4152534.0, 3.2, 3.2, 0.0); (565451.8, 4152367.2, 3.1, 3.1, 0.0);
(565451.8, 4152450.8, 3.5, 3.5, 0.0); (565451.8, 4152534.0, 2.0, 2.0, 0.0);
(565545.5, 4152367.2, 3.6, 3.6, 0.0); (565545.5, 4152450.8, 2.2, 2.2, 0.0);
(565545.5, 4152534.0, 2.6, 2.6, 0.0); (565639.2, 4152367.2, 1.9, 1.9, 0.0);
(565639.2, 4152450.8, 2.6, 2.6, 0.0); (565639.2, 4152534.0, 2.0, 2.0, 0.0);
(565733.0, 4152367.2, 2.1, 2.1, 0.0); (565733.0, 4152450.8, 1.6, 1.6, 0.0);
(565733.0, 4152534.0, 0.7, 0.7, 0.0); (565826.8, 4152367.2, 1.8, 1.8, 0.0);
(565826.8, 4152450.8, 1.4, 1.4, 0.0); (565826.8, 4152534.0, 1.6, 1.6, 0.0);
(565920.5, 4152367.2, 1.4, 1.4, 0.0); (565920.5, 4152450.8, 1.4, 1.4, 0.0);
(565920.5, 4152534.0, 1.4, 1.4, 0.0); (566014.2, 4152367.2, 1.5, 1.5, 0.0);
(566014.2, 4152450.8, 1.0, 1.0, 0.0); (566014.2, 4152534.0, 1.8, 1.8, 0.0);
(565847.6, 4152284.0, 3.3, 3.3, 0.0); (

```
565847.6, 4152190.2,       3.5,       3.5,       0.0);
     ( 565847.6, 4152096.5,       1.7,       1.7,       0.0);         (
565847.6, 4152002.8,       3.4,       3.4,       0.0);
     ( 565847.6, 4151909.0,       2.6,       2.6,       0.0);         (
565847.6, 4151815.2,       2.6,       2.6,       0.0);
     ( 565847.6, 4151721.5,       2.8,       2.8,       0.0);         (
565847.6, 4151627.8,       2.8,       2.8,       0.0);
     ( 565847.6, 4151534.0,       3.4,       3.4,       0.0);         (
565930.9, 4152284.0,       1.6,       1.6,       0.0);
     ( 565930.9, 4152190.2,       2.5,       2.5,       0.0);         (
565930.9, 4152096.5,       2.9,       2.9,       0.0);
     ( 565930.9, 4152002.8,       2.6,       2.6,       0.0);         (
565930.9, 4151909.0,       3.5,       3.5,       0.0);
     ( 565930.9, 4151815.2,       2.4,       2.4,       0.0);         (
565930.9, 4151721.5,       2.9,       2.9,       0.0);
     ( 565930.9, 4151627.8,       2.8,       2.8,       0.0);         (
565930.9, 4151534.0,       2.9,       2.9,       0.0);
     ( 566014.2, 4152284.0,       1.6,       1.6,       0.0);         (
566014.2, 4152190.2,       1.4,       1.4,       0.0);
     ( 566014.2, 4152096.5,       1.9,       1.9,       0.0);         (
566014.2, 4152002.8,       1.8,       1.8,       0.0);
     ( 566014.2, 4151909.0,       2.4,       2.4,       0.0);         (
566014.2, 4151815.2,       3.4,       3.4,       0.0);
     ( 566014.2, 4151721.5,       3.1,       3.1,       0.0);         (
566014.2, 4151627.8,       3.0,       3.0,       0.0);
     ( 566014.2, 4151534.0,       2.9,       2.9,       0.0);         (
565764.2, 4151700.8,       2.9,       2.9,       0.0);
     ( 565764.2, 4151617.2,       3.3,       3.3,       0.0);         (
565764.2, 4151534.0,       4.0,       4.0,       0.0);
     ( 565670.5, 4151700.8,       3.3,       3.3,       0.0);         (
565670.5, 4151617.2,       4.2,       4.2,       0.0);
     ( 565670.5, 4151534.0,       5.0,       5.0,       0.0);         (
565576.8, 4151700.8,       4.0,       4.0,       0.0);
     ( 565576.8, 4151617.2,       4.7,       4.7,       0.0);         (
565576.8, 4151534.0,       6.2,       6.2,       0.0);
     ( 565483.0, 4151700.8,       4.5,     144.6,       0.0);         (
565483.0, 4151617.2,       5.8,     144.6,       0.0);
     ( 565483.0, 4151534.0,       6.9,     144.6,       0.0);         (
565389.2, 4151700.8,       6.5,     144.6,       0.0);
     ( 565389.2, 4151617.2,       7.1,     144.6,       0.0);         (
565389.2, 4151534.0,       7.9,     144.6,       0.0);
     ( 565295.5, 4151700.8,       7.4,     144.6,       0.0);         (
565295.5, 4151617.2,       6.9,     144.6,       0.0);
     ( 565295.5, 4151534.0,       8.4,     144.6,       0.0);         (
565201.8, 4151700.8,       8.6,     144.6,       0.0);
     ( 565201.8, 4151617.2,       8.2,     144.6,       0.0);         (
565201.8, 4151534.0,       9.2,     144.6,       0.0);
     ( 565108.0, 4151700.8,       7.7,     144.6,       0.0);         (
565108.0, 4151617.2,       9.3,     144.6,       0.0);
     ( 565108.0, 4151534.0,      11.6,     144.6,       0.0);         (
565014.2, 4151700.8,      11.7,     144.6,       0.0);
     ( 565014.2, 4151617.2,      15.1,     144.6,       0.0);         (
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565014.2, 4151534.0,      12.5,     144.6,       0.0);
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565180.9, 4151784.0, 6.2, 144.6, 0.0); (565180.9, 4151877.8, 4.7, 144.6, 0.0);
(565180.9, 4151971.5, 3.5, 144.6, 0.0); (565180.9, 4152065.2, 3.2, 144.6, 0.0);
(565180.9, 4152159.0, 3.6, 144.6, 0.0); (565180.9, 4152252.8, 3.1, 144.6, 0.0);
(565180.9, 4152346.5, 3.1, 144.6, 0.0); (565180.9, 4152440.2, 3.9, 144.6, 0.0);
(565180.9, 4152534.0, 3.1, 144.6, 0.0); (565097.6, 4151784.0, 8.0, 144.6, 0.0);
(565097.6, 4151877.8, 5.0, 144.6, 0.0); (565097.6, 4151971.5, 3.9, 144.6, 0.0);
(565097.6, 4152065.2, 3.2, 144.6, 0.0); (565097.6, 4152159.0, 3.4, 144.6, 0.0);
(565097.6, 4152252.8, 3.1, 144.6, 0.0); (565097.6, 4152346.5, 3.1, 144.6, 0.0);
(565097.6, 4152440.2, 3.1, 144.6, 0.0); (565097.6, 4152534.0, 3.1, 144.6, 0.0);
(565014.2, 4151784.0, 8.0, 144.6, 0.0); (565014.2, 4151877.8, 9.3, 144.6, 0.0);
(565014.2, 4151971.5, 4.1, 144.6, 0.0); (565014.2, 4152065.2, 3.3, 144.6, 0.0);
(565014.2, 4152159.0, 3.4, 144.6, 0.0); (565014.2, 4152252.8, 3.8, 144.6, 0.0);
(565014.2, 4152346.5, 3.3, 144.6, 0.0); (565014.2, 4152440.2, 4.2, 144.6, 0.0);
(565014.2, 4152534.0, 4.5, 144.6, 0.0); (565502.7, 4152072.5, 2.8, 144.6, 1.5);
(565589.1, 4151982.9, 3.3, 3.3, 1.5); (565619.9, 4152017.4, 3.0, 3.0, 1.5);
(565621.6, 4152031.6, 2.8, 2.8, 1.5); (565618.5, 4152046.0, 3.0, 3.0, 1.5);
(565600.9, 4152086.0, 2.6, 2.6, 1.5); (565578.7, 4152137.3, 2.8, 8.8, 1.5);
(565504.0, 4152071.9, 2.8, 144.6, 1.5);

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** 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 1 1 1 1 1 1 1 1 1   1 1 1 1 1
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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 FLGPOL URBAN

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: Met data-San Carlos Airport\724938.SFC
Met Version: 14134
Profile file: Met data-San Carlos Airport\724938.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 93231 Upper air station no.: 23230
Name: UNKNOWN Name: OAKLAND/WSO_AP
Year: 2009 Year: 2009

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
09	01	01	1	01	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.04	0.55	1.00	999.00	999.	-9.0	999.0	-9.0
09	01	01	1	02	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.04	0.55	1.00	999.00	999.	-9.0	999.0	-9.0
09	01	01	1	03	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.04	0.55	1.00	999.00	999.	-9.0	999.0	-9.0
09	01	01	1	04	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.04	0.55	1.00	999.00	999.	-9.0	999.0	-9.0
09	01	01	1	05	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.04	0.55	1.00	999.00	999.	-9.0	999.0	-9.0
09	01	01	1	06	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.04	0.55	1.00	999.00	999.	-9.0	999.0	-9.0
09	01	01	1	07	-3.0	0.063	-9.000	-9.000	-999.	38.	7.5	0.04	0.55	1.00	1.76	5.	10.0	281.1	2.0
09	01	01	1	08	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.04	0.55	0.74	0.00	0.	10.0	280.1	2.0
09	01	01	1	09	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.04	0.55	0.38	999.00	999.	-9.0	280.1	2.0
09	01	01	1	10	5.5	0.179	0.236	0.014	87.	181.	-95.0	0.04	0.55	0.26	2.36	61.	10.0	280.1	2.0
09	01	01	1	11	12.1	-9.000	-9.000	-9.000	156.	-999.	-99999.0	0.04	0.55	0.21	0.00	0.	10.0	280.1	2.0
09	01	01	1	12	16.0	0.328	0.455	0.016	215.	451.	-201.4	0.04							

```
0.55   0.20    4.36  336.   10.0  281.1    2.0
 09 01 01   1 13   16.6  0.226  0.493  0.015  262.  263.    -63.2  0.04
0.55   0.19    2.86  293.   10.0  281.1    2.0
 09 01 01   1 14   69.0 -9.000 -9.000 -9.000  402. -999. -99999.0  0.04
0.55   0.20    0.00    0.   10.0  282.1    2.0
 09 01 01   1 15   49.6  0.205  0.847  0.017  445.  223.    -15.9  0.04
0.55   0.23    2.36  999.   10.0  283.1    2.0
 09 01 01   1 16   18.0  0.192  0.607  0.016  451.  202.    -35.7  0.04
0.55   0.31    2.36  999.   10.0  283.1    2.0
 09 01 01   1 17  -17.1  0.203 -9.000 -9.000 -999.  220.     44.6  0.04
0.55   0.55    3.36  999.   10.0  282.1    2.0
 09 01 01   1 18  -11.3  0.104 -9.000 -9.000 -999.   86.      9.1  0.04
0.55   1.00    2.86  337.   10.0  282.1    2.0
 09 01 01   1 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.04
0.55   1.00    0.00    0.   10.0  281.1    2.0
 09 01 01   1 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.04
0.55   1.00    0.00    0.   10.0  281.1    2.0
 09 01 01   1 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.04
0.55   1.00    0.00    0.   10.0  280.1    2.0
 09 01 01   1 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.04
0.55   1.00  999.00  999.   -9.0  999.0   -9.0
 09 01 01   1 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.04
0.55   1.00  999.00  999.   -9.0  999.0   -9.0
 09 01 01   1 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.04
0.55   1.00  999.00  999.   -9.0  999.0   -9.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 09 01 01 01   10.0 1 -999.  -99.00  -999.0   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565464.25	4151984.00	0.01442	565464.25	4152009.00	0.01456
565464.25	4152034.00	0.01381	565464.25	4152059.00	0.01249
565464.25	4152084.00	0.01129	565489.25	4151984.00	0.02541
565489.25	4152009.00	0.02816	565489.25	4152034.00	0.02835
565489.25	4152059.00	0.02330	565489.25	4152084.00	0.01962
565514.25	4151984.00	0.04456	565514.25	4152009.00	0.05551
565514.25	4152034.00	0.05973	565514.25	4152059.00	0.04103
565514.25	4152084.00	0.02984	565539.25	4151984.00	0.07314
565539.25	4152009.00	0.09220	565539.25	4152034.00	0.09098
565564.25	4151984.00	0.10294	565564.25	4152009.00	0.11505
565464.25	4152094.00	0.01102	565464.25	4152104.00	0.01084
565464.25	4152114.00	0.01067	565464.25	4152124.00	0.01046
565464.25	4152134.00	0.01020	565464.25	4152144.00	0.00988
565464.25	4152154.00	0.00951	565464.25	4152164.00	0.00910

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         565464.25    4152174.00        0.00866
565464.25    4152184.00        0.00819
         565464.25    4152194.00        0.00772
565464.25    4152204.00        0.00723
         565464.25    4152214.00        0.00674
565464.25    4152224.00        0.00629
         565464.25    4152234.00        0.00585
565464.25    4152244.00        0.00544
         565464.25    4152254.00        0.00506
565464.25    4152264.00        0.00470
         565464.25    4152274.00        0.00438
565464.25    4152284.00        0.00408
         565474.25    4152094.00        0.01362
565474.25    4152104.00        0.01328
         565474.25    4152114.00        0.01290
565474.25    4152124.00        0.01246
         565474.25    4152134.00        0.01195
565474.25    4152144.00        0.01140
         565474.25    4152154.00        0.01081
565474.25    4152164.00        0.01021
         565474.25    4152174.00        0.00959
565474.25    4152184.00        0.00897
         565474.25    4152194.00        0.00835
565474.25    4152204.00        0.00774
         565474.25    4152214.00        0.00716
565474.25    4152224.00        0.00662
         565474.25    4152234.00        0.00611
565474.25    4152244.00        0.00565
         565474.25    4152254.00        0.00522
565474.25    4152264.00        0.00484
         565474.25    4152274.00        0.00448
565474.25    4152284.00        0.00417
         565484.25    4152094.00        0.01696
565484.25    4152104.00        0.01632
         565484.25    4152114.00        0.01559
565484.25    4152124.00        0.01478
         565484.25    4152134.00        0.01393
565484.25    4152144.00        0.01308
         565484.25    4152154.00        0.01222
565484.25    4152164.00        0.01138
         565484.25    4152174.00        0.01055
565484.25    4152184.00        0.00974
         565484.25    4152194.00        0.00897
565484.25    4152204.00        0.00823
         565484.25    4152214.00        0.00755
565484.25    4152224.00        0.00692
         565484.25    4152234.00        0.00635
565484.25    4152244.00        0.00584
         565484.25    4152254.00        0.00537
565484.25    4152264.00        0.00495
         565484.25    4152274.00        0.00458
565484.25    4152284.00        0.00424
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565494.25	4152094.00	0.02087	565494.25	4152104.00	0.01986
565494.25	4152114.00	0.01851	565494.25	4152124.00	0.01713
565494.25	4152134.00	0.01596	565494.25	4152144.00	0.01483
565494.25	4152154.00	0.01372	565494.25	4152164.00	0.01260
565494.25	4152174.00	0.01152	565494.25	4152184.00	0.01051
565494.25	4152194.00	0.00956	565494.25	4152204.00	0.00869
565494.25	4152214.00	0.00790	565494.25	4152224.00	0.00719
565494.25	4152234.00	0.00657	565494.25	4152244.00	0.00600
565494.25	4152254.00	0.00550	565494.25	4152264.00	0.00505
565494.25	4152274.00	0.00466	565494.25	4152284.00	0.00431
565504.25	4152094.00	0.02484	565504.25	4152104.00	0.02350
565504.25	4152114.00	0.02163	565504.25	4152124.00	0.01966
565504.25	4152134.00	0.01809	565504.25	4152144.00	0.01665
565504.25	4152154.00	0.01526	565504.25	4152164.00	0.01381

565504.25 4152174.00 0.01247
565504.25 4152184.00 0.01123
565504.25 4152194.00 0.01010
565504.25 4152204.00 0.00909
565504.25 4152214.00 0.00820
565504.25 4152224.00 0.00742
565504.25 4152234.00 0.00673
565504.25 4152244.00 0.00613
565504.25 4152254.00 0.00560
565504.25 4152264.00 0.00513
565504.25 4152274.00 0.00471
565504.25 4152284.00 0.00435
565514.25 4152094.00 0.02851
565514.25 4152104.00 0.02719
565514.25 4152114.00 0.02509
565514.25 4152124.00 0.02262
565514.25 4152134.00 0.02044
565514.25 4152144.00 0.01846
565514.25 4152154.00 0.01662
565514.25 4152164.00 0.01489
565514.25 4152174.00 0.01330
565514.25 4152184.00 0.01187
565514.25 4152194.00 0.01057
565514.25 4152204.00 0.00943
565514.25 4152214.00 0.00844
565514.25 4152224.00 0.00759
565514.25 4152234.00 0.00685
565514.25 4152244.00 0.00621
565514.25 4152254.00 0.00566
565514.25 4152264.00 0.00517
565514.25 4152274.00 0.00475
565514.25 4152284.00 0.00438
565524.25 4152094.00 0.03193
565524.25 4152104.00 0.03039
565524.25 4152114.00 0.02830
565524.25 4152124.00 0.02562
565524.25 4152134.00 0.02282
565524.25 4152144.00 0.02019
565524.25 4152154.00 0.01778
565524.25 4152164.00 0.01576
565524.25 4152174.00 0.01397
565524.25 4152184.00 0.01238
565524.25 4152194.00 0.01091
565524.25 4152204.00 0.00966
565524.25 4152214.00 0.00860
565524.25 4152224.00 0.00770
565524.25 4152234.00 0.00692
565524.25 4152244.00 0.00626
565524.25 4152254.00 0.00569
565524.25 4152264.00 0.00519
565524.25 4152274.00 0.00476
565524.25 4152284.00 0.00438

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565534.25	4152104.00	0.03274	565534.25	4152114.00	0.03055
565534.25	4152124.00	0.02798	565534.25	4152134.00	0.02491
565534.25	4152144.00	0.02175	565534.25	4152154.00	0.01877
565534.25	4152164.00	0.01639	565534.25	4152174.00	0.01438
565534.25	4152184.00	0.01263	565534.25	4152194.00	0.01109
565534.25	4152204.00	0.00978	565534.25	4152214.00	0.00868
565534.25	4152224.00	0.00774	565534.25	4152234.00	0.00695
565534.25	4152244.00	0.00627	565534.25	4152254.00	0.00569
565534.25	4152264.00	0.00518	565534.25	4152274.00	0.00474
565534.25	4152284.00	0.00435	565544.25	4152114.00	0.03152
565544.25	4152124.00	0.02904	565544.25	4152134.00	0.02626
565544.25	4152144.00	0.02299	565544.25	4152154.00	0.01957
565544.25	4152164.00	0.01668	565544.25	4152174.00	0.01432
565544.25	4152184.00	0.01239	565544.25	4152194.00	0.01091

565544.25 4152204.00 0.00970
565544.25 4152214.00 0.00866
565544.25 4152224.00 0.00772
565544.25 4152234.00 0.00692
565544.25 4152244.00 0.00623
565544.25 4152254.00 0.00562
565544.25 4152264.00 0.00509
565544.25 4152274.00 0.00463
565544.25 4152284.00 0.00427
565554.25 4152124.00 0.02841
565554.25 4152134.00 0.02627
565554.25 4152144.00 0.02357
565554.25 4152154.00 0.01993
565554.25 4152164.00 0.01657
565554.25 4152174.00 0.01389
565554.25 4152184.00 0.01094
565554.25 4152194.00 0.01050
565554.25 4152204.00 0.00949
565554.25 4152214.00 0.00856
565554.25 4152224.00 0.00764
565554.25 4152234.00 0.00684
565554.25 4152244.00 0.00614
565554.25 4152254.00 0.00553
565554.25 4152264.00 0.00498
565554.25 4152274.00 0.00450
565554.25 4152284.00 0.00415
565564.25 4152134.00 0.02485
565564.25 4152144.00 0.02273
565564.25 4152154.00 0.01977
565564.25 4152164.00 0.01667
565564.25 4152174.00 0.01410
565564.25 4152184.00 0.01204
565564.25 4152194.00 0.01061
565564.25 4152204.00 0.00946
565564.25 4152214.00 0.00843
565564.25 4152224.00 0.00742
565564.25 4152234.00 0.00667
565564.25 4152244.00 0.00603
565564.25 4152254.00 0.00546
565564.25 4152264.00 0.00495
565564.25 4152274.00 0.00451
565564.25 4152284.00 0.00415
565574.25 4152134.00 0.02353
565574.25 4152144.00 0.02143
565574.25 4152154.00 0.01897
565574.25 4152164.00 0.01639
565574.25 4152174.00 0.01407
565574.25 4152184.00 0.01213
565574.25 4152194.00 0.01059
565574.25 4152204.00 0.00919
565574.25 4152214.00 0.00796
565574.25 4152224.00 0.00710

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565574.25	4152234.00	0.00646	565574.25	4152244.00	0.00589
565574.25	4152254.00	0.00536	565574.25	4152264.00	0.00489
565574.25	4152274.00	0.00447	565574.25	4152284.00	0.00411
565584.25	4152134.00	0.02271	565584.25	4152144.00	0.02029
565584.25	4152154.00	0.01797	565584.25	4152164.00	0.01545
565584.25	4152174.00	0.01321	565584.25	4152184.00	0.01137
565584.25	4152194.00	0.00986	565584.25	4152204.00	0.00862
565584.25	4152214.00	0.00760	565584.25	4152224.00	0.00687
565584.25	4152234.00	0.00628	565584.25	4152244.00	0.00576
565584.25	4152254.00	0.00523	565584.25	4152264.00	0.00477
565584.25	4152274.00	0.00436	565584.25	4152284.00	0.00401
565594.25	4152104.00	0.04995	565594.25	4152114.00	0.03832
565594.25	4152124.00	0.02965	565594.25	4152134.00	0.02389
565594.25	4152144.00	0.02006	565594.25	4152154.00	0.01714

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         565594.25    4152164.00        0.01470
565594.25    4152174.00        0.01265
         565594.25    4152184.00        0.01097
565594.25    4152194.00        0.00958
         565594.25    4152204.00        0.00842
565594.25    4152214.00        0.00747
         565594.25    4152224.00        0.00675
565594.25    4152234.00        0.00616
         565594.25    4152244.00        0.00559
565594.25    4152254.00        0.00508
         565594.25    4152264.00        0.00465
565594.25    4152274.00        0.00427
         565594.25    4152284.00        0.00393
565604.25    4152094.00        0.06565
         565604.25    4152104.00        0.05471
565604.25    4152114.00        0.04398
         565604.25    4152124.00        0.03381
565604.25    4152134.00        0.02568
         565604.25    4152144.00        0.02001
565604.25    4152154.00        0.01632
         565604.25    4152164.00        0.01379
565604.25    4152174.00        0.01190
         565604.25    4152184.00        0.01040
565604.25    4152194.00        0.00918
         565604.25    4152204.00        0.00816
565604.25    4152214.00        0.00728
         565604.25    4152224.00        0.00658
565604.25    4152234.00        0.00595
         565604.25    4152244.00        0.00540
565604.25    4152254.00        0.00493
         565604.25    4152264.00        0.00453
565604.25    4152274.00        0.00417
         565604.25    4152284.00        0.00385
565614.25    4152094.00        0.07010
         565614.25    4152104.00        0.05817
565614.25    4152114.00        0.04623
         565614.25    4152124.00        0.03488
565614.25    4152134.00        0.02624
         565614.25    4152144.00        0.01988
565614.25    4152154.00        0.01568
         565614.25    4152164.00        0.01299
565614.25    4152174.00        0.01113
         565614.25    4152184.00        0.00969
565614.25    4152194.00        0.00860
         565614.25    4152204.00        0.00771
565614.25    4152214.00        0.00695
         565614.25    4152224.00        0.00629
565614.25    4152234.00        0.00572
         565614.25    4152244.00        0.00521
565614.25    4152254.00        0.00478
         565614.25    4152264.00        0.00440
565614.25    4152274.00        0.00406
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565614.25	4152284.00	0.00376	565624.25	4152094.00	0.06730
565624.25	4152104.00	0.05580	565624.25	4152114.00	0.04435
565624.25	4152124.00	0.03294	565624.25	4152134.00	0.02511
565624.25	4152144.00	0.01931	565624.25	4152154.00	0.01511
565624.25	4152164.00	0.01233	565624.25	4152174.00	0.01038
565624.25	4152184.00	0.00897	565624.25	4152194.00	0.00800
565624.25	4152204.00	0.00725	565624.25	4152214.00	0.00658
565624.25	4152224.00	0.00599	565624.25	4152234.00	0.00547
565624.25	4152244.00	0.00501	565624.25	4152254.00	0.00461
565624.25	4152264.00	0.00426	565624.25	4152274.00	0.00394
565624.25	4152284.00	0.00366	565634.25	4152094.00	0.06056
565634.25	4152104.00	0.05047	565634.25	4152114.00	0.04055
565634.25	4152124.00	0.03045	565634.25	4152134.00	0.02355
565634.25	4152144.00	0.01836	565634.25	4152154.00	0.01451

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         565634.25    4152164.00        0.01176
565634.25    4152174.00        0.00981
         565634.25    4152184.00        0.00844
565634.25    4152194.00        0.00753
         565634.25    4152204.00        0.00684
565634.25    4152214.00        0.00621
         565634.25    4152224.00        0.00567
565634.25    4152234.00        0.00520
         565634.25    4152244.00        0.00479
565634.25    4152254.00        0.00443
         565634.25    4152264.00        0.00410
565634.25    4152274.00        0.00381
         565634.25    4152284.00        0.00355
565644.25    4152094.00        0.05346
         565644.25    4152104.00        0.04485
565644.25    4152114.00        0.03652
         565644.25    4152124.00        0.02813
565644.25    4152134.00        0.02202
         565644.25    4152144.00        0.01733
565644.25    4152154.00        0.01382
         565644.25    4152164.00        0.01123
565644.25    4152174.00        0.00939
         565644.25    4152184.00        0.00809
565644.25    4152194.00        0.00717
         565644.25    4152204.00        0.00646
565644.25    4152214.00        0.00586
         565644.25    4152224.00        0.00536
565644.25    4152234.00        0.00493
         565644.25    4152244.00        0.00456
565644.25    4152254.00        0.00423
         565644.25    4152264.00        0.00394
565644.25    4152274.00        0.00367
         565644.25    4152284.00        0.00343
565654.25    4152094.00        0.04707
         565654.25    4152104.00        0.03980
565654.25    4152114.00        0.03285
         565654.25    4152124.00        0.02587
565654.25    4152134.00        0.02051
         565654.25    4152144.00        0.01632
565654.25    4152154.00        0.01311
         565654.25    4152164.00        0.01074
565654.25    4152174.00        0.00903
         565654.25    4152184.00        0.00778
565654.25    4152194.00        0.00683
         565654.25    4152204.00        0.00611
565654.25    4152214.00        0.00553
         565654.25    4152224.00        0.00506
565654.25    4152234.00        0.00467
         565654.25    4152244.00        0.00433
565654.25    4152254.00        0.00403
         565654.25    4152264.00        0.00376
565654.25    4152274.00        0.00352
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565654.25	4152284.00	0.00330	565664.25	4152094.00	0.04093
565664.25	4152104.00	0.03504	565664.25	4152114.00	0.02948
565664.25	4152124.00	0.02414	565664.25	4152134.00	0.01937
565664.25	4152144.00	0.01560	565664.25	4152154.00	0.01263
565664.25	4152164.00	0.01040	565664.25	4152174.00	0.00871
565664.25	4152184.00	0.00745	565664.25	4152194.00	0.00652
565664.25	4152204.00	0.00580	565664.25	4152214.00	0.00524
565664.25	4152224.00	0.00479	565664.25	4152234.00	0.00442
565664.25	4152244.00	0.00410	565664.25	4152254.00	0.00383
565664.25	4152264.00	0.00359	565664.25	4152274.00	0.00337
565664.25	4152284.00	0.00317	565674.25	4152094.00	0.03569
565674.25	4152104.00	0.03102	565674.25	4152114.00	0.02652
565674.25	4152124.00	0.02227	565674.25	4152134.00	0.01823
565674.25	4152144.00	0.01485	565674.25	4152154.00	0.01214

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         565674.25    4152164.00        0.01002
565674.25    4152174.00        0.00840
         565674.25    4152184.00        0.00717
565674.25    4152194.00        0.00624
         565674.25    4152204.00        0.00553
565674.25    4152214.00        0.00497
         565674.25    4152224.00        0.00454
565674.25    4152234.00        0.00418
         565674.25    4152244.00        0.00389
565674.25    4152254.00        0.00364
         565674.25    4152264.00        0.00340
565674.25    4152274.00        0.00318
         565674.25    4152284.00        0.00299
565684.25    4152094.00        0.03149
         565684.25    4152104.00        0.02768
565684.25    4152114.00        0.02396
         565684.25    4152124.00        0.02040
565684.25    4152134.00        0.01699
         565684.25    4152144.00        0.01405
565684.25    4152154.00        0.01160
         565684.25    4152164.00        0.00965
565684.25    4152174.00        0.00811
         565684.25    4152184.00        0.00691
565684.25    4152194.00        0.00600
         565684.25    4152204.00        0.00530
565684.25    4152214.00        0.00475
         565684.25    4152224.00        0.00433
565684.25    4152234.00        0.00398
         565684.25    4152244.00        0.00369
565684.25    4152254.00        0.00345
         565684.25    4152264.00        0.00323
565684.25    4152274.00        0.00302
         565684.25    4152284.00        0.00285
565694.25    4152094.00        0.02687
         565694.25    4152104.00        0.02490
565694.25    4152114.00        0.02172
         565694.25    4152124.00        0.01865
565694.25    4152134.00        0.01575
         565694.25    4152144.00        0.01321
565694.25    4152154.00        0.01109
         565694.25    4152164.00        0.00929
565694.25    4152174.00        0.00783
         565694.25    4152184.00        0.00668
565694.25    4152194.00        0.00580
         565694.25    4152204.00        0.00511
565694.25    4152214.00        0.00457
         565694.25    4152224.00        0.00415
565694.25    4152234.00        0.00380
         565694.25    4152244.00        0.00352
565694.25    4152254.00        0.00328
         565694.25    4152264.00        0.00308
565694.25    4152274.00        0.00289
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565694.25	4152284.00	0.00274	565704.25	4152094.00	0.02416
565704.25	4152104.00	0.02148	565704.25	4152114.00	0.01977
565704.25	4152124.00	0.01712	565704.25	4152134.00	0.01466
565704.25	4152144.00	0.01247	565704.25	4152154.00	0.01059
565704.25	4152164.00	0.00895	565704.25	4152174.00	0.00758
565704.25	4152184.00	0.00649	565704.25	4152194.00	0.00563
565704.25	4152204.00	0.00495	565704.25	4152214.00	0.00442
565704.25	4152224.00	0.00399	565704.25	4152234.00	0.00365
565704.25	4152244.00	0.00336	565704.25	4152254.00	0.00313
565704.25	4152264.00	0.00293	565704.25	4152274.00	0.00276
565704.25	4152284.00	0.00261	565714.25	4152094.00	0.02380
565714.25	4152104.00	0.02116	565714.25	4152114.00	0.01865
565714.25	4152124.00	0.01624	565714.25	4152134.00	0.01396
565714.25	4152144.00	0.01192	565714.25	4152154.00	0.01015

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         565714.25    4152164.00        0.00863
565714.25    4152174.00        0.00736
         565714.25    4152184.00        0.00632
565714.25    4152194.00        0.00549
         565714.25    4152204.00        0.00483
565714.25    4152214.00        0.00429
         565714.25    4152224.00        0.00386
565714.25    4152234.00        0.00351
         565714.25    4152244.00        0.00322
565714.25    4152254.00        0.00298
         565714.25    4152264.00        0.00279
565714.25    4152274.00        0.00263
         565714.25    4152284.00        0.00249
565724.25    4152094.00        0.02225
         565724.25    4152104.00        0.01985
565724.25    4152114.00        0.01758
         565724.25    4152124.00        0.01540
565724.25    4152134.00        0.01330
         565724.25    4152144.00        0.01140
565724.25    4152154.00        0.00975
         565724.25    4152164.00        0.00834
565724.25    4152174.00        0.00715
         565724.25    4152184.00        0.00617
565724.25    4152194.00        0.00537
         565724.25    4152204.00        0.00471
565724.25    4152214.00        0.00418
         565724.25    4152224.00        0.00374
565724.25    4152234.00        0.00338
         565724.25    4152244.00        0.00309
565724.25    4152254.00        0.00285
         565724.25    4152264.00        0.00267
565724.25    4152274.00        0.00251
         565724.25    4152284.00        0.00237
565734.25    4152094.00        0.02081
         565734.25    4152104.00        0.01862
565734.25    4152114.00        0.01653
         565734.25    4152124.00        0.01454
565734.25    4152134.00        0.01263
         565734.25    4152144.00        0.01090
565734.25    4152154.00        0.00937
         565734.25    4152164.00        0.00806
565734.25    4152174.00        0.00694
         565734.25    4152184.00        0.00600
565734.25    4152194.00        0.00523
         565734.25    4152204.00        0.00460
565734.25    4152214.00        0.00409
         565734.25    4152224.00        0.00366
565734.25    4152234.00        0.00330
         565734.25    4152244.00        0.00300
565734.25    4152254.00        0.00276
         565734.25    4152264.00        0.00257
565734.25    4152274.00        0.00241
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565734.25	4152284.00	0.00227	565744.25	4152094.00	0.01946
565744.25	4152104.00	0.01746	565744.25	4152114.00	0.01553
565744.25	4152124.00	0.01370	565744.25	4152134.00	0.01198
565744.25	4152144.00	0.01042	565744.25	4152154.00	0.00903
565744.25	4152164.00	0.00779	565744.25	4152174.00	0.00672
565744.25	4152184.00	0.00582	565744.25	4152194.00	0.00508
565744.25	4152204.00	0.00448	565744.25	4152214.00	0.00399
565744.25	4152224.00	0.00358	565744.25	4152234.00	0.00323
565744.25	4152244.00	0.00293	565744.25	4152254.00	0.00268
565744.25	4152264.00	0.00249	565744.25	4152274.00	0.00233
565744.25	4152284.00	0.00219	565754.25	4152094.00	0.01815
565754.25	4152104.00	0.01635	565754.25	4152114.00	0.01460
565754.25	4152124.00	0.01292	565754.25	4152134.00	0.01137
565754.25	4152144.00	0.00996	565754.25	4152154.00	0.00869

565754.25 4152164.00 0.00753
565754.25 4152174.00 0.00652
565754.25 4152184.00 0.00565
565754.25 4152194.00 0.00494
565754.25 4152204.00 0.00437
565754.25 4152214.00 0.00389
565754.25 4152224.00 0.00349
565754.25 4152234.00 0.00316
565754.25 4152244.00 0.00287
565754.25 4152254.00 0.00263
565754.25 4152264.00 0.00243
565754.25 4152274.00 0.00226
565754.25 4152284.00 0.00211
565764.25 4152094.00 0.01682
565764.25 4152104.00 0.01524
565764.25 4152114.00 0.01369
565764.25 4152124.00 0.01221
565764.25 4152134.00 0.01080
565764.25 4152144.00 0.00951
565764.25 4152154.00 0.00834
565764.25 4152164.00 0.00726
565764.25 4152174.00 0.00629
565764.25 4152184.00 0.00545
565764.25 4152194.00 0.00477
565764.25 4152204.00 0.00423
565764.25 4152214.00 0.00377
565764.25 4152224.00 0.00339
565764.25 4152234.00 0.00306
565764.25 4152244.00 0.00279
565764.25 4152254.00 0.00256
565764.25 4152264.00 0.00236
565764.25 4152274.00 0.00219
565764.25 4152284.00 0.00204
565574.25 4151994.00 0.11475
565574.25 4151984.00 0.10940
565574.25 4151974.00 0.10099
565574.25 4151964.00 0.08914
565574.25 4151954.00 0.07608
565574.25 4151944.00 0.06413
565574.25 4151934.00 0.05419
565574.25 4151924.00 0.04620
565574.25 4151914.00 0.03978
565574.25 4151904.00 0.03457
565574.25 4151894.00 0.03027
565574.25 4151884.00 0.02671
565574.25 4151874.00 0.02372
565574.25 4151864.00 0.02121
565574.25 4151854.00 0.01908
565574.25 4151844.00 0.01725
565574.25 4151834.00 0.01566
565574.25 4151824.00 0.01428
565574.25 4151814.00 0.01308

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565574.25	4151804.00	0.01204	565574.25	4151794.00	0.01111
565574.25	4151784.00	0.01028	565584.25	4151984.00	0.11258
565584.25	4151974.00	0.10481	565584.25	4151964.00	0.09355
565584.25	4151954.00	0.07980	565584.25	4151944.00	0.06677
565584.25	4151934.00	0.05598	565584.25	4151924.00	0.04742
565584.25	4151914.00	0.04064	565584.25	4151904.00	0.03519
565584.25	4151894.00	0.03074	565584.25	4151884.00	0.02702
565584.25	4151874.00	0.02395	565584.25	4151864.00	0.02138
565584.25	4151854.00	0.01921	565584.25	4151844.00	0.01736
565584.25	4151834.00	0.01577	565584.25	4151824.00	0.01439
565584.25	4151814.00	0.01318	565584.25	4151804.00	0.01211
565584.25	4151794.00	0.01116	565584.25	4151784.00	0.01032
565594.25	4151984.00	0.11336	565594.25	4151974.00	0.10519
565594.25	4151964.00	0.09362	565594.25	4151954.00	0.07988

565594.25 4151944.00 0.06682
565594.25 4151934.00 0.05601
565594.25 4151924.00 0.04743
565594.25 4151914.00 0.04063
565594.25 4151904.00 0.03517
565594.25 4151894.00 0.03072
565594.25 4151884.00 0.02705
565594.25 4151874.00 0.02398
565594.25 4151864.00 0.02140
565594.25 4151854.00 0.01922
565594.25 4151844.00 0.01737
565594.25 4151834.00 0.01578
565594.25 4151824.00 0.01441
565594.25 4151814.00 0.01319
565594.25 4151804.00 0.01211
565594.25 4151794.00 0.01115
565594.25 4151784.00 0.01031
565604.25 4152084.00 0.07749
565604.25 4151994.00 0.11860
565604.25 4151984.00 0.11219
565604.25 4151974.00 0.10287
565604.25 4151964.00 0.09048
565604.25 4151954.00 0.07687
565604.25 4151944.00 0.06453
565604.25 4151934.00 0.05442
565604.25 4151924.00 0.04636
565604.25 4151914.00 0.03988
565604.25 4151904.00 0.03461
565604.25 4151894.00 0.03029
565604.25 4151884.00 0.02672
565604.25 4151874.00 0.02374
565604.25 4151864.00 0.02123
565604.25 4151854.00 0.01908
565604.25 4151844.00 0.01725
565604.25 4151834.00 0.01569
565604.25 4151824.00 0.01434
565604.25 4151814.00 0.01314
565604.25 4151804.00 0.01205
565604.25 4151794.00 0.01110
565604.25 4151784.00 0.01026
565614.25 4152084.00 0.08131
565614.25 4152074.00 0.09143
565614.25 4152064.00 0.10022
565614.25 4152004.00 0.12070
565614.25 4151994.00 0.11698
565614.25 4151984.00 0.10978
565614.25 4151974.00 0.09854
565614.25 4151964.00 0.08531
565614.25 4151954.00 0.07247
565614.25 4151944.00 0.06129
565614.25 4151934.00 0.05212
565614.25 4151924.00 0.04471

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565614.25	4151914.00	0.03864	565614.25	4151904.00	0.03367
565614.25	4151894.00	0.02957	565614.25	4151884.00	0.02617
565614.25	4151874.00	0.02331	565614.25	4151864.00	0.02089
565614.25	4151854.00	0.01883	565614.25	4151844.00	0.01705
565614.25	4151834.00	0.01552	565614.25	4151824.00	0.01418
565614.25	4151814.00	0.01300	565614.25	4151804.00	0.01194
565614.25	4151794.00	0.01101	565614.25	4151784.00	0.01018
565624.25	4152084.00	0.07866	565624.25	4152074.00	0.08891
565624.25	4152064.00	0.09768	565624.25	4152054.00	0.10479
565624.25	4152044.00	0.10999	565624.25	4152034.00	0.11349
565624.25	4152024.00	0.11655	565624.25	4152014.00	0.11803
565624.25	4152004.00	0.11744	565624.25	4151994.00	0.11304
565624.25	4151984.00	0.10408	565624.25	4151974.00	0.09173
565624.25	4151964.00	0.07907	565624.25	4151954.00	0.06760

565624.25 4151944.00 0.05777
565624.25 4151934.00 0.04947
565624.25 4151924.00 0.04268
565624.25 4151914.00 0.03711
565624.25 4151904.00 0.03251
565624.25 4151894.00 0.02868
565624.25 4151884.00 0.02547
565624.25 4151874.00 0.02276
565624.25 4151864.00 0.02045
565624.25 4151854.00 0.01847
565624.25 4151844.00 0.01677
565624.25 4151834.00 0.01528
565624.25 4151824.00 0.01397
565624.25 4151814.00 0.01281
565624.25 4151804.00 0.01180
565624.25 4151794.00 0.01089
565624.25 4151784.00 0.01009
565634.25 4152084.00 0.07140
565634.25 4152074.00 0.08180
565634.25 4152064.00 0.09123
565634.25 4152054.00 0.09926
565634.25 4152044.00 0.10552
565634.25 4152034.00 0.10967
565634.25 4152024.00 0.11258
565634.25 4152014.00 0.11356
565634.25 4152004.00 0.11141
565634.25 4151994.00 0.10515
565634.25 4151984.00 0.09526
565634.25 4151974.00 0.08367
565634.25 4151964.00 0.07262
565634.25 4151954.00 0.06274
565634.25 4151944.00 0.05407
565634.25 4151934.00 0.04670
565634.25 4151924.00 0.04059
565634.25 4151914.00 0.03550
565634.25 4151904.00 0.03126
565634.25 4151894.00 0.02770
565634.25 4151884.00 0.02467
565634.25 4151874.00 0.02212
565634.25 4151864.00 0.01995
565634.25 4151854.00 0.01807
565634.25 4151844.00 0.01644
565634.25 4151834.00 0.01501
565634.25 4151824.00 0.01373
565634.25 4151814.00 0.01261
565634.25 4151804.00 0.01163
565634.25 4151794.00 0.01076
565634.25 4151784.00 0.00999
565644.25 4152084.00 0.06286
565644.25 4152074.00 0.07221
565644.25 4152064.00 0.08113
565644.25 4152054.00 0.08958

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565644.25	4152044.00	0.09671	565644.25	4152034.00	0.10209
565644.25	4152024.00	0.10504	565644.25	4152014.00	0.10502
565644.25	4152004.00	0.10143	565644.25	4151994.00	0.09468
565644.25	4151984.00	0.08574	565644.25	4151974.00	0.07598
565644.25	4151964.00	0.06668	565644.25	4151954.00	0.05811
565644.25	4151944.00	0.05051	565644.25	4151934.00	0.04402
565644.25	4151924.00	0.03854	565644.25	4151914.00	0.03392
565644.25	4151904.00	0.03002	565644.25	4151894.00	0.02672
565644.25	4151884.00	0.02390	565644.25	4151874.00	0.02150
565644.25	4151864.00	0.01944	565644.25	4151854.00	0.01764
565644.25	4151844.00	0.01608	565644.25	4151834.00	0.01471
565644.25	4151824.00	0.01347	565644.25	4151814.00	0.01240
565644.25	4151804.00	0.01147	565644.25	4151794.00	0.01063
565644.25	4151784.00	0.00989	565654.25	4152084.00	0.05499

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         565654.25    4152074.00        0.06293
565654.25    4152064.00        0.07065
         565654.25    4152054.00        0.07810
565654.25    4152044.00        0.08465
         565654.25    4152034.00        0.08966
565654.25    4152024.00        0.09255
         565654.25    4152014.00        0.09247
565654.25    4152004.00        0.08933
         565654.25    4151994.00        0.08372
565654.25    4151984.00        0.07653
         565654.25    4151974.00        0.06873
565654.25    4151964.00        0.06097
         565654.25    4151954.00        0.05365
565654.25    4151944.00        0.04713
         565654.25    4151934.00        0.04146
565654.25    4151924.00        0.03658
         565654.25    4151914.00        0.03240
565654.25    4151904.00        0.02883
         565654.25    4151894.00        0.02577
565654.25    4151884.00        0.02314
         565654.25    4151874.00        0.02088
565654.25    4151864.00        0.01892
         565654.25    4151854.00        0.01721
565654.25    4151844.00        0.01572
         565654.25    4151834.00        0.01439
565654.25    4151824.00        0.01321
         565654.25    4151814.00        0.01219
565654.25    4151804.00        0.01130
         565654.25    4151794.00        0.01050
565654.25    4151784.00        0.00976
         565664.25    4152084.00        0.04762
565664.25    4152074.00        0.05439
         565664.25    4152064.00        0.06104
565664.25    4152054.00        0.06753
         565664.25    4152044.00        0.07325
565664.25    4152034.00        0.07761
         565664.25    4152024.00        0.08017
565664.25    4152014.00        0.08032
         565664.25    4152004.00        0.07806
565664.25    4151994.00        0.07387
         565664.25    4151984.00        0.06838
565664.25    4151974.00        0.06203
         565664.25    4151964.00        0.05558
565664.25    4151954.00        0.04950
         565664.25    4151944.00        0.04397
565664.25    4151934.00        0.03905
         565664.25    4151924.00        0.03472
565664.25    4151914.00        0.03095
         565664.25    4151904.00        0.02768
565664.25    4151894.00        0.02485
         565664.25    4151884.00        0.02240
565664.25    4151874.00        0.02027
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565664.25	4151864.00	0.01841	565664.25	4151854.00	0.01679
565664.25	4151844.00	0.01536	565664.25	4151834.00	0.01411
565664.25	4151824.00	0.01299	565664.25	4151814.00	0.01200
565664.25	4151804.00	0.01112	565664.25	4151794.00	0.01033
565664.25	4151784.00	0.00962	565674.25	4152084.00	0.04136
565674.25	4152074.00	0.04715	565674.25	4152064.00	0.05283
565674.25	4152054.00	0.05845	565674.25	4152044.00	0.06337
565674.25	4152034.00	0.06717	565674.25	4152024.00	0.06939
565674.25	4152014.00	0.06974	565674.25	4152004.00	0.06821
565674.25	4151994.00	0.06519	565674.25	4151984.00	0.06091
565674.25	4151974.00	0.05547	565674.25	4151964.00	0.05047
565674.25	4151954.00	0.04565	565674.25	4151944.00	0.04099
565674.25	4151934.00	0.03674	565674.25	4151924.00	0.03293
565674.25	4151914.00	0.02956	565674.25	4151904.00	0.02658

565674.25 4151894.00 0.02397
565674.25 4151884.00 0.02169
565674.25 4151874.00 0.01969
565674.25 4151864.00 0.01793
565674.25 4151854.00 0.01638
565674.25 4151844.00 0.01502
565674.25 4151834.00 0.01381
565674.25 4151824.00 0.01274
565674.25 4151814.00 0.01179
565674.25 4151804.00 0.01093
565674.25 4151794.00 0.01017
565674.25 4151784.00 0.00948
565684.25 4152084.00 0.03636
565684.25 4152074.00 0.04132
565684.25 4152064.00 0.04620
565684.25 4152054.00 0.05106
565684.25 4152044.00 0.05531
565684.25 4152034.00 0.05860
565684.25 4152024.00 0.06045
565684.25 4152014.00 0.06084
565684.25 4152004.00 0.05978
565684.25 4151994.00 0.05760
565684.25 4151984.00 0.05428
565684.25 4151974.00 0.04957
565684.25 4151964.00 0.04575
565684.25 4151954.00 0.04208
565684.25 4151944.00 0.03817
565684.25 4151934.00 0.03453
565684.25 4151924.00 0.03121
565684.25 4151914.00 0.02820
565684.25 4151904.00 0.02551
565684.25 4151894.00 0.02312
565684.25 4151884.00 0.02100
565684.25 4151874.00 0.01912
565684.25 4151864.00 0.01746
565684.25 4151854.00 0.01599
565684.25 4151844.00 0.01469
565684.25 4151834.00 0.01353
565684.25 4151824.00 0.01250
565684.25 4151814.00 0.01157
565684.25 4151804.00 0.01075
565684.25 4151794.00 0.01000
565684.25 4151784.00 0.00933
565694.25 4152084.00 0.03242
565694.25 4152074.00 0.03670
565694.25 4152064.00 0.04090
565694.25 4152054.00 0.04514
565694.25 4152044.00 0.04883
565694.25 4152034.00 0.05168
565694.25 4152024.00 0.05313
565694.25 4152014.00 0.05343
565694.25 4152004.00 0.05262

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565694.25	4151994.00	0.05102	565694.25	4151984.00	0.04852
565694.25	4151974.00	0.04483	565694.25	4151964.00	0.04173
565694.25	4151954.00	0.03870	565694.25	4151944.00	0.03552
565694.25	4151934.00	0.03242	565694.25	4151924.00	0.02954
565694.25	4151914.00	0.02688	565694.25	4151904.00	0.02446
565694.25	4151894.00	0.02228	565694.25	4151884.00	0.02032
565694.25	4151874.00	0.01857	565694.25	4151864.00	0.01701
565694.25	4151854.00	0.01562	565694.25	4151844.00	0.01437
565694.25	4151834.00	0.01326	565694.25	4151824.00	0.01227
565694.25	4151814.00	0.01137	565694.25	4151804.00	0.01057
565694.25	4151794.00	0.00985	565694.25	4151784.00	0.00920
565704.25	4152084.00	0.02777	565704.25	4152074.00	0.03278
565704.25	4152064.00	0.03642	565704.25	4152054.00	0.04013
565704.25	4152044.00	0.04333	565704.25	4152034.00	0.04578

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         565704.25    4152024.00        0.04694
565704.25    4152014.00        0.04719
         565704.25    4152004.00        0.04658
565704.25    4151994.00        0.04541
         565704.25    4151984.00        0.04352
565704.25    4151974.00        0.04063
         565704.25    4151964.00        0.03810
565704.25    4151954.00        0.03558
         565704.25    4151944.00        0.03303
565704.25    4151934.00        0.03041
         565704.25    4151924.00        0.02791
565704.25    4151914.00        0.02558
         565704.25    4151904.00        0.02342
565704.25    4151894.00        0.02145
         565704.25    4151884.00        0.01965
565704.25    4151874.00        0.01803
         565704.25    4151864.00        0.01656
565704.25    4151854.00        0.01525
         565704.25    4151844.00        0.01406
565704.25    4151834.00        0.01300
         565704.25    4151824.00        0.01204
565704.25    4151814.00        0.01118
         565704.25    4151804.00        0.01040
565704.25    4151794.00        0.00970
         565704.25    4151784.00        0.00906
565714.25    4152084.00        0.02716
         565714.25    4152074.00        0.03052
565714.25    4152064.00        0.03374
         565714.25    4152054.00        0.03660
565714.25    4152044.00        0.03904
         565714.25    4152034.00        0.04089
565714.25    4152024.00        0.04185
         565714.25    4152014.00        0.04209
565714.25    4152004.00        0.04164
         565714.25    4151994.00        0.04071
565714.25    4151984.00        0.03914
         565714.25    4151974.00        0.03686
565714.25    4151964.00        0.03487
         565714.25    4151954.00        0.03283
565714.25    4151944.00        0.03071
         565714.25    4151934.00        0.02849
565714.25    4151924.00        0.02634
         565714.25    4151914.00        0.02431
565714.25    4151904.00        0.02240
         565714.25    4151894.00        0.02062
565714.25    4151884.00        0.01898
         565714.25    4151874.00        0.01749
565714.25    4151864.00        0.01612
         565714.25    4151854.00        0.01488
565714.25    4151844.00        0.01376
         565714.25    4151834.00        0.01274
565714.25    4151824.00        0.01182
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565714.25	4151814.00	0.01099	565714.25	4151804.00	0.01024
565714.25	4151794.00	0.00955	565714.25	4151784.00	0.00893
565724.25	4152084.00	0.02527	565724.25	4152074.00	0.02823
565724.25	4152064.00	0.03098	565724.25	4152054.00	0.03326
565724.25	4152044.00	0.03512	565724.25	4152034.00	0.03638
565724.25	4152024.00	0.03736	565724.25	4152014.00	0.03764
565724.25	4152004.00	0.03736	565724.25	4151994.00	0.03660
565724.25	4151984.00	0.03522	565724.25	4151974.00	0.03352
565724.25	4151964.00	0.03196	565724.25	4151954.00	0.03031
565724.25	4151944.00	0.02854	565724.25	4151934.00	0.02667
565724.25	4151924.00	0.02483	565724.25	4151914.00	0.02306
565724.25	4151904.00	0.02138	565724.25	4151894.00	0.01979
565724.25	4151884.00	0.01831	565724.25	4151874.00	0.01694
565724.25	4151864.00	0.01567	565724.25	4151854.00	0.01451

565724.25 4151844.00 0.01345
565724.25 4151834.00 0.01249
565724.25 4151824.00 0.01161
565724.25 4151814.00 0.01080
565724.25 4151804.00 0.01007
565724.25 4151794.00 0.00941
565724.25 4151784.00 0.00880
565734.25 4152084.00 0.02338
565734.25 4152074.00 0.02587
565734.25 4152064.00 0.02797
565734.25 4152054.00 0.02978
565734.25 4152044.00 0.03126
565734.25 4152034.00 0.03235
565734.25 4152024.00 0.03323
565734.25 4152014.00 0.03366
565734.25 4152004.00 0.03361
565734.25 4151994.00 0.03294
565734.25 4151984.00 0.03189
565734.25 4151974.00 0.03059
565734.25 4151964.00 0.02935
565734.25 4151954.00 0.02801
565734.25 4151944.00 0.02653
565734.25 4151934.00 0.02495
565734.25 4151924.00 0.02339
565734.25 4151914.00 0.02186
565734.25 4151904.00 0.02038
565734.25 4151894.00 0.01897
565734.25 4151884.00 0.01763
565734.25 4151874.00 0.01638
565734.25 4151864.00 0.01522
565734.25 4151854.00 0.01414
565734.25 4151844.00 0.01315
565734.25 4151834.00 0.01223
565734.25 4151824.00 0.01139
565734.25 4151814.00 0.01062
565734.25 4151804.00 0.00991
565734.25 4151794.00 0.00927
565734.25 4151784.00 0.00868
565744.25 4152084.00 0.02159
565744.25 4152074.00 0.02364
565744.25 4152064.00 0.02543
565744.25 4152054.00 0.02698
565744.25 4152044.00 0.02825
565744.25 4152034.00 0.02919
565744.25 4152024.00 0.02996
565744.25 4152014.00 0.03035
565744.25 4152004.00 0.03037
565744.25 4151994.00 0.02986
565744.25 4151984.00 0.02904
565744.25 4151974.00 0.02800
565744.25 4151964.00 0.02700
565744.25 4151954.00 0.02590

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565744.25	4151944.00	0.02468	565744.25	4151934.00	0.02335
565744.25	4151924.00	0.02199	565744.25	4151914.00	0.02065
565744.25	4151904.00	0.01936	565744.25	4151894.00	0.01814
565744.25	4151884.00	0.01695	565744.25	4151874.00	0.01582
565744.25	4151864.00	0.01475	565744.25	4151854.00	0.01376
565744.25	4151844.00	0.01283	565744.25	4151834.00	0.01197
565744.25	4151824.00	0.01118	565744.25	4151814.00	0.01045
565744.25	4151804.00	0.00977	565744.25	4151794.00	0.00914
565744.25	4151784.00	0.00857	565754.25	4152084.00	0.01994
565754.25	4152074.00	0.02165	565754.25	4152064.00	0.02322
565754.25	4152054.00	0.02455	565754.25	4152044.00	0.02565
565754.25	4152034.00	0.02647	565754.25	4152024.00	0.02714
565754.25	4152014.00	0.02750	565754.25	4152004.00	0.02755
565754.25	4151994.00	0.02717	565754.25	4151984.00	0.02654

565754.25 4151974.00 0.02571
565754.25 4151964.00 0.02489
565754.25 4151954.00 0.02398
565754.25 4151944.00 0.02297
565754.25 4151934.00 0.02184
565754.25 4151924.00 0.02066
565754.25 4151914.00 0.01949
565754.25 4151904.00 0.01838
565754.25 4151894.00 0.01732
565754.25 4151884.00 0.01627
565754.25 4151874.00 0.01525
565754.25 4151864.00 0.01428
565754.25 4151854.00 0.01337
565754.25 4151844.00 0.01251
565754.25 4151834.00 0.01170
565754.25 4151824.00 0.01096
565754.25 4151814.00 0.01026
565754.25 4151804.00 0.00962
565754.25 4151794.00 0.00902
565754.25 4151784.00 0.00847
565764.25 4152084.00 0.01839
565764.25 4152074.00 0.01989
565764.25 4152064.00 0.02128
565764.25 4152054.00 0.02251
565764.25 4152044.00 0.02348
565764.25 4152034.00 0.02420
565764.25 4152024.00 0.02473
565764.25 4152014.00 0.02500
565764.25 4152004.00 0.02501
565764.25 4151994.00 0.02474
565764.25 4151984.00 0.02426
565764.25 4151974.00 0.02361
565764.25 4151964.00 0.02295
565764.25 4151954.00 0.02219
565764.25 4151944.00 0.02136
565764.25 4151934.00 0.02041
565764.25 4151924.00 0.01943
565764.25 4151914.00 0.01843
565764.25 4151904.00 0.01747
565764.25 4151894.00 0.01652
565764.25 4151884.00 0.01560
565764.25 4151874.00 0.01468
565764.25 4151864.00 0.01380
565764.25 4151854.00 0.01296
565764.25 4151844.00 0.01217
565764.25 4151834.00 0.01142
565764.25 4151824.00 0.01072
565764.25 4151814.00 0.01007
565764.25 4151804.00 0.00945
565764.25 4151794.00 0.00888
565764.25 4151784.00 0.00835
565564.25 4151974.00 0.09282

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565564.25	4151964.00	0.08111	565564.25	4151954.00	0.06964
565564.25	4151944.00	0.05943	565564.25	4151934.00	0.05086
565564.25	4151924.00	0.04385	565564.25	4151914.00	0.03808
565564.25	4151904.00	0.03329	565564.25	4151894.00	0.02931
565564.25	4151884.00	0.02597	565564.25	4151874.00	0.02316
565564.25	4151864.00	0.02078	565564.25	4151854.00	0.01874
565564.25	4151844.00	0.01698	565564.25	4151834.00	0.01542
565564.25	4151824.00	0.01407	565564.25	4151814.00	0.01289
565564.25	4151804.00	0.01189	565564.25	4151794.00	0.01099
565564.25	4151784.00	0.01019	565554.25	4151974.00	0.08194
565554.25	4151964.00	0.07151	565554.25	4151954.00	0.06199
565554.25	4151944.00	0.05364	565554.25	4151934.00	0.04658
565554.25	4151924.00	0.04066	565554.25	4151914.00	0.03567
565554.25	4151904.00	0.03146	565554.25	4151894.00	0.02790

565554.25 4151884.00 0.02487
565554.25 4151874.00 0.02230
565554.25 4151864.00 0.02009
565554.25 4151854.00 0.01818
565554.25 4151844.00 0.01652
565554.25 4151834.00 0.01505
565554.25 4151824.00 0.01375
565554.25 4151814.00 0.01263
565554.25 4151804.00 0.01166
565554.25 4151794.00 0.01080
565554.25 4151784.00 0.01002
565544.25 4151974.00 0.07035
565544.25 4151964.00 0.06177
565544.25 4151954.00 0.05418
565544.25 4151944.00 0.04760
565544.25 4151934.00 0.04193
565544.25 4151924.00 0.03704
565544.25 4151914.00 0.03284
565544.25 4151904.00 0.02924
565544.25 4151894.00 0.02614
565544.25 4151884.00 0.02348
565544.25 4151874.00 0.02117
565544.25 4151864.00 0.01918
565544.25 4151854.00 0.01743
565544.25 4151844.00 0.01589
565544.25 4151834.00 0.01453
565544.25 4151824.00 0.01334
565544.25 4151814.00 0.01228
565544.25 4151804.00 0.01135
565544.25 4151794.00 0.01052
565544.25 4151784.00 0.00977
565534.25 4151974.00 0.05931
565534.25 4151964.00 0.05261
565534.25 4151954.00 0.04675
565534.25 4151944.00 0.04163
565534.25 4151934.00 0.03714
565534.25 4151924.00 0.03321
565534.25 4151914.00 0.02977
565534.25 4151904.00 0.02677
565534.25 4151894.00 0.02415
565534.25 4151884.00 0.02187
565534.25 4151874.00 0.01986
565534.25 4151864.00 0.01809
565534.25 4151854.00 0.01651
565534.25 4151844.00 0.01512
565534.25 4151834.00 0.01390
565534.25 4151824.00 0.01282
565534.25 4151814.00 0.01185
565534.25 4151804.00 0.01097
565534.25 4151794.00 0.01018
565534.25 4151784.00 0.00947
565524.25 4151974.00 0.04933

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565524.25	4151964.00	0.04434	565524.25	4151954.00	0.03992
565524.25	4151944.00	0.03600	565524.25	4151934.00	0.03251
565524.25	4151924.00	0.02941	565524.25	4151914.00	0.02665
565524.25	4151904.00	0.02421	565524.25	4151894.00	0.02205
565524.25	4151884.00	0.02012	565524.25	4151874.00	0.01841
565524.25	4151864.00	0.01689	565524.25	4151854.00	0.01550
565524.25	4151844.00	0.01427	565524.25	4151834.00	0.01318
565524.25	4151824.00	0.01220	565524.25	4151814.00	0.01132
565524.25	4151804.00	0.01051	565524.25	4151794.00	0.00979
565524.25	4151784.00	0.00913	565514.25	4151974.00	0.04060
565514.25	4151964.00	0.03702	565514.25	4151954.00	0.03377
565514.25	4151944.00	0.03082	565514.25	4151934.00	0.02817
565514.25	4151924.00	0.02578	565514.25	4151914.00	0.02362
565514.25	4151904.00	0.02167	565514.25	4151894.00	0.01991

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         565514.25    4151884.00        0.01833
565514.25    4151874.00        0.01690
         565514.25    4151864.00        0.01560
565514.25    4151854.00        0.01442
         565514.25    4151844.00        0.01335
565514.25    4151834.00        0.01239
         565514.25    4151824.00        0.01151
565514.25    4151814.00        0.01072
         565514.25    4151804.00        0.01000
565514.25    4151794.00        0.00934
         565514.25    4151784.00        0.00875
565504.25    4151974.00        0.03312
         565504.25    4151964.00        0.03064
565504.25    4151954.00        0.02833
         565504.25    4151944.00        0.02618
565504.25    4151934.00        0.02421
         565504.25    4151924.00        0.02240
565504.25    4151914.00        0.02074
         565504.25    4151904.00        0.01922
565504.25    4151894.00        0.01782
         565504.25    4151884.00        0.01654
565504.25    4151874.00        0.01536
         565504.25    4151864.00        0.01427
565504.25    4151854.00        0.01328
         565504.25    4151844.00        0.01237
565504.25    4151834.00        0.01154
         565504.25    4151824.00        0.01078
565504.25    4151814.00        0.01008
         565504.25    4151804.00        0.00944
565504.25    4151794.00        0.00886
         565504.25    4151784.00        0.00832
565494.25    4151974.00        0.02684
         565494.25    4151964.00        0.02519
565494.25    4151954.00        0.02360
         565494.25    4151944.00        0.02209
565494.25    4151934.00        0.02067
         565494.25    4151924.00        0.01934
565494.25    4151914.00        0.01807
         565494.25    4151904.00        0.01690
565494.25    4151894.00        0.01580
         565494.25    4151884.00        0.01478
565494.25    4151874.00        0.01383
         565494.25    4151864.00        0.01295
565494.25    4151854.00        0.01213
         565494.25    4151844.00        0.01137
565494.25    4151834.00        0.01067
         565494.25    4151824.00        0.01002
565494.25    4151814.00        0.00942
         565494.25    4151804.00        0.00886
565494.25    4151794.00        0.00834
         565494.25    4151784.00        0.00786
565484.25    4151974.00        0.02166
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565484.25	4151964.00	0.02062	565484.25	4151954.00	0.01958
565484.25	4151944.00	0.01856	565484.25	4151934.00	0.01756
565484.25	4151924.00	0.01658	565484.25	4151914.00	0.01563
565484.25	4151904.00	0.01475	565484.25	4151894.00	0.01392
565484.25	4151884.00	0.01313	565484.25	4151874.00	0.01238
565484.25	4151864.00	0.01167	565484.25	4151854.00	0.01100
565484.25	4151844.00	0.01038	565484.25	4151834.00	0.00979
565484.25	4151824.00	0.00925	565484.25	4151814.00	0.00874
565484.25	4151804.00	0.00826	565484.25	4151794.00	0.00781
565484.25	4151784.00	0.00739	565474.25	4151974.00	0.01748
565474.25	4151964.00	0.01686	565474.25	4151954.00	0.01621
565474.25	4151944.00	0.01554	565474.25	4151934.00	0.01487
565474.25	4151924.00	0.01418	565474.25	4151914.00	0.01351
565474.25	4151904.00	0.01285	565474.25	4151894.00	0.01222

565474.25 4151884.00 0.01161
565474.25 4151874.00 0.01102
565474.25 4151864.00 0.01046
565474.25 4151854.00 0.00993
565474.25 4151844.00 0.00942
565474.25 4151834.00 0.00893
565474.25 4151824.00 0.00848
565474.25 4151814.00 0.00805
565474.25 4151804.00 0.00764
565474.25 4151794.00 0.00725
565474.25 4151784.00 0.00689
565464.25 4151974.00 0.01415
565464.25 4151964.00 0.01382
565464.25 4151954.00 0.01343
565464.25 4151944.00 0.01301
565464.25 4151934.00 0.01256
565464.25 4151924.00 0.01210
565464.25 4151914.00 0.01164
565464.25 4151904.00 0.01117
565464.25 4151894.00 0.01069
565464.25 4151884.00 0.01023
565464.25 4151874.00 0.00978
565464.25 4151864.00 0.00934
565464.25 4151854.00 0.00891
565464.25 4151844.00 0.00850
565464.25 4151834.00 0.00811
565464.25 4151824.00 0.00773
565464.25 4151814.00 0.00737
565464.25 4151804.00 0.00703
565464.25 4151794.00 0.00670
565464.25 4151784.00 0.00640
565454.25 4151974.00 0.01155
565454.25 4151964.00 0.01137
565454.25 4151954.00 0.01116
565454.25 4151944.00 0.01090
565454.25 4151934.00 0.01062
565454.25 4151924.00 0.01032
565454.25 4151914.00 0.01000
565454.25 4151904.00 0.00967
565454.25 4151894.00 0.00933
565454.25 4151884.00 0.00898
565454.25 4151874.00 0.00864
565454.25 4151864.00 0.00831
565454.25 4151854.00 0.00798
565454.25 4151844.00 0.00765
565454.25 4151834.00 0.00733
565454.25 4151824.00 0.00701
565454.25 4151814.00 0.00672
565454.25 4151804.00 0.00644
565454.25 4151794.00 0.00617
565454.25 4151784.00 0.00592
565444.25 4151974.00 0.00951

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565444.25	4151964.00	0.00944	565444.25	4151954.00	0.00933
565444.25	4151944.00	0.00918	565444.25	4151934.00	0.00900
565444.25	4151924.00	0.00881	565444.25	4151914.00	0.00860
565444.25	4151904.00	0.00837	565444.25	4151894.00	0.00813
565444.25	4151884.00	0.00788	565444.25	4151874.00	0.00763
565444.25	4151864.00	0.00737	565444.25	4151854.00	0.00712
565444.25	4151844.00	0.00686	565444.25	4151834.00	0.00660
565444.25	4151824.00	0.00635	565444.25	4151814.00	0.00610
565444.25	4151804.00	0.00588	565444.25	4151794.00	0.00567
565444.25	4151784.00	0.00546	565434.25	4151974.00	0.00792
565434.25	4151964.00	0.00791	565434.25	4151954.00	0.00786
565434.25	4151944.00	0.00777	565434.25	4151934.00	0.00767
565434.25	4151924.00	0.00754	565434.25	4151914.00	0.00740
565434.25	4151904.00	0.00725	565434.25	4151894.00	0.00709

565434.25 4151884.00 0.00691
565434.25 4151874.00 0.00673
565434.25 4151864.00 0.00653
565434.25 4151854.00 0.00634
565434.25 4151844.00 0.00614
565434.25 4151834.00 0.00593
565434.25 4151824.00 0.00573
565434.25 4151814.00 0.00553
565434.25 4151804.00 0.00536
565434.25 4151794.00 0.00518
565434.25 4151784.00 0.00501
565424.25 4151974.00 0.00667
565424.25 4151964.00 0.00668
565424.25 4151954.00 0.00667
565424.25 4151944.00 0.00662
565424.25 4151934.00 0.00657
565424.25 4151924.00 0.00649
565424.25 4151914.00 0.00641
565424.25 4151904.00 0.00631
565424.25 4151894.00 0.00619
565424.25 4151884.00 0.00607
565424.25 4151874.00 0.00594
565424.25 4151864.00 0.00579
565424.25 4151854.00 0.00565
565424.25 4151844.00 0.00549
565424.25 4151834.00 0.00533
565424.25 4151824.00 0.00517
565424.25 4151814.00 0.00501
565424.25 4151804.00 0.00487
565424.25 4151794.00 0.00472
565424.25 4151784.00 0.00458
565414.25 4151974.00 0.00568
565414.25 4151964.00 0.00570
565414.25 4151954.00 0.00571
565414.25 4151944.00 0.00569
565414.25 4151934.00 0.00566
565414.25 4151924.00 0.00562
565414.25 4151914.00 0.00556
565414.25 4151904.00 0.00550
565414.25 4151894.00 0.00543
565414.25 4151884.00 0.00535
565414.25 4151874.00 0.00525
565414.25 4151864.00 0.00514
565414.25 4151854.00 0.00503
565414.25 4151844.00 0.00491
565414.25 4151834.00 0.00479
565414.25 4151824.00 0.00466
565414.25 4151814.00 0.00453
565414.25 4151804.00 0.00442
565414.25 4151794.00 0.00430
565414.25 4151784.00 0.00418
565404.25 4151974.00 0.00488

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565404.25	4151964.00	0.00491	565404.25	4151954.00	0.00492
565404.25	4151944.00	0.00492	565404.25	4151934.00	0.00491
565404.25	4151924.00	0.00489	565404.25	4151914.00	0.00486
565404.25	4151904.00	0.00482	565404.25	4151894.00	0.00477
565404.25	4151884.00	0.00471	565404.25	4151874.00	0.00465
565404.25	4151864.00	0.00457	565404.25	4151854.00	0.00449
565404.25	4151844.00	0.00441	565404.25	4151834.00	0.00431
565404.25	4151824.00	0.00421	565404.25	4151814.00	0.00411
565404.25	4151804.00	0.00401	565404.25	4151794.00	0.00392
565404.25	4151784.00	0.00382	565394.25	4151974.00	0.00423
565394.25	4151964.00	0.00425	565394.25	4151954.00	0.00427
565394.25	4151944.00	0.00428	565394.25	4151934.00	0.00429
565394.25	4151924.00	0.00428	565394.25	4151914.00	0.00427
565394.25	4151904.00	0.00424	565394.25	4151894.00	0.00421

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         565394.25    4151884.00        0.00417
565394.25    4151874.00        0.00413
         565394.25    4151864.00        0.00408
565394.25    4151854.00        0.00402
         565394.25    4151844.00        0.00396
565394.25    4151834.00        0.00389
         565394.25    4151824.00        0.00381
565394.25    4151814.00        0.00374
         565394.25    4151804.00        0.00365
565394.25    4151794.00        0.00357
         565394.25    4151784.00        0.00348
565384.25    4151974.00        0.00369
         565384.25    4151964.00        0.00372
565384.25    4151954.00        0.00374
         565384.25    4151944.00        0.00376
565384.25    4151934.00        0.00377
         565384.25    4151924.00        0.00377
565384.25    4151914.00        0.00377
         565384.25    4151904.00        0.00375
565384.25    4151894.00        0.00373
         565384.25    4151884.00        0.00371
565384.25    4151874.00        0.00368
         565384.25    4151864.00        0.00365
565384.25    4151854.00        0.00361
         565384.25    4151844.00        0.00356
565384.25    4151834.00        0.00351
         565384.25    4151824.00        0.00346
565384.25    4151814.00        0.00340
         565384.25    4151804.00        0.00332
565384.25    4151794.00        0.00325
         565384.25    4151784.00        0.00318
565374.25    4151974.00        0.00326
         565374.25    4151964.00        0.00328
565374.25    4151954.00        0.00330
         565374.25    4151944.00        0.00332
565374.25    4151934.00        0.00333
         565374.25    4151924.00        0.00333
565374.25    4151914.00        0.00334
         565374.25    4151904.00        0.00333
565374.25    4151894.00        0.00333
         565374.25    4151884.00        0.00331
565374.25    4151874.00        0.00329
         565374.25    4151864.00        0.00327
565374.25    4151854.00        0.00324
         565374.25    4151844.00        0.00321
565374.25    4151834.00        0.00317
         565374.25    4151824.00        0.00313
565374.25    4151814.00        0.00308
         565374.25    4151804.00        0.00303
565374.25    4151794.00        0.00297
         565374.25    4151784.00        0.00291
565364.25    4151974.00        0.00290
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565364.25	4151964.00	0.00291	565364.25	4151954.00	0.00293
565364.25	4151944.00	0.00295	565364.25	4151934.00	0.00296
565364.25	4151924.00	0.00297	565364.25	4151914.00	0.00297
565364.25	4151904.00	0.00298	565364.25	4151894.00	0.00298
565364.25	4151884.00	0.00297	565364.25	4151874.00	0.00296
565364.25	4151864.00	0.00294	565364.25	4151854.00	0.00292
565364.25	4151844.00	0.00289	565364.25	4151834.00	0.00287
565364.25	4151824.00	0.00284	565364.25	4151814.00	0.00281
565364.25	4151804.00	0.00276	565364.25	4151794.00	0.00272
565364.25	4151784.00	0.00267	565354.25	4151974.00	0.00260
565354.25	4151964.00	0.00261	565354.25	4151954.00	0.00262
565354.25	4151944.00	0.00263	565354.25	4151934.00	0.00264
565354.25	4151924.00	0.00266	565354.25	4151914.00	0.00266
565354.25	4151904.00	0.00267	565354.25	4151894.00	0.00267

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         565354.25    4151884.00        0.00267
565354.25    4151874.00        0.00266
         565354.25    4151864.00        0.00265
565354.25    4151854.00        0.00264
         565354.25    4151844.00        0.00262
565354.25    4151834.00        0.00260
         565354.25    4151824.00        0.00258
565354.25    4151814.00        0.00255
         565354.25    4151804.00        0.00252
565354.25    4151794.00        0.00248
         565354.25    4151784.00        0.00245
565344.25    4151974.00        0.00234
         565344.25    4151964.00        0.00235
565344.25    4151954.00        0.00236
         565344.25    4151944.00        0.00237
565344.25    4151934.00        0.00238
         565344.25    4151924.00        0.00239
565344.25    4151914.00        0.00240
         565344.25    4151904.00        0.00241
565344.25    4151894.00        0.00241
         565344.25    4151884.00        0.00241
565344.25    4151874.00        0.00241
         565344.25    4151864.00        0.00240
565344.25    4151854.00        0.00239
         565344.25    4151844.00        0.00238
565344.25    4151834.00        0.00236
         565344.25    4151824.00        0.00234
565344.25    4151814.00        0.00232
         565344.25    4151804.00        0.00230
565344.25    4151794.00        0.00227
         565344.25    4151784.00        0.00225
565334.25    4151974.00        0.00212
         565334.25    4151964.00        0.00213
565334.25    4151954.00        0.00213
         565334.25    4151944.00        0.00214
565334.25    4151934.00        0.00215
         565334.25    4151924.00        0.00216
565334.25    4151914.00        0.00217
         565334.25    4151904.00        0.00218
565334.25    4151894.00        0.00218
         565334.25    4151884.00        0.00218
565334.25    4151874.00        0.00218
         565334.25    4151864.00        0.00218
565334.25    4151854.00        0.00218
         565334.25    4151844.00        0.00217
565334.25    4151834.00        0.00215
         565334.25    4151824.00        0.00214
565334.25    4151814.00        0.00212
         565334.25    4151804.00        0.00210
565334.25    4151794.00        0.00209
         565334.25    4151784.00        0.00207
565324.25    4151974.00        0.00193
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565324.25	4151964.00	0.00193	565324.25	4151954.00	0.00194
565324.25	4151944.00	0.00194	565324.25	4151934.00	0.00195
565324.25	4151924.00	0.00196	565324.25	4151914.00	0.00196
565324.25	4151904.00	0.00197	565324.25	4151894.00	0.00198
565324.25	4151884.00	0.00198	565324.25	4151874.00	0.00198
565324.25	4151864.00	0.00198	565324.25	4151854.00	0.00198
565324.25	4151844.00	0.00198	565324.25	4151834.00	0.00197
565324.25	4151824.00	0.00196	565324.25	4151814.00	0.00194
565324.25	4151804.00	0.00193	565324.25	4151794.00	0.00192
565324.25	4151784.00	0.00190	565314.25	4151974.00	0.00176
565314.25	4151964.00	0.00176	565314.25	4151954.00	0.00177
565314.25	4151944.00	0.00177	565314.25	4151934.00	0.00178
565314.25	4151924.00	0.00178	565314.25	4151914.00	0.00178
565314.25	4151904.00	0.00179	565314.25	4151894.00	0.00180

565314.25 4151884.00 0.00181
565314.25 4151874.00 0.00181
565314.25 4151864.00 0.00181
565314.25 4151854.00 0.00181
565314.25 4151844.00 0.00181
565314.25 4151834.00 0.00180
565314.25 4151824.00 0.00180
565314.25 4151814.00 0.00179
565314.25 4151804.00 0.00178
565314.25 4151794.00 0.00177
565314.25 4151784.00 0.00176
565304.25 4151974.00 0.00161
565304.25 4151964.00 0.00162
565304.25 4151954.00 0.00162
565304.25 4151944.00 0.00162
565304.25 4151934.00 0.00163
565304.25 4151924.00 0.00163
565304.25 4151914.00 0.00163
565304.25 4151904.00 0.00164
565304.25 4151894.00 0.00164
565304.25 4151884.00 0.00165
565304.25 4151874.00 0.00165
565304.25 4151864.00 0.00166
565304.25 4151854.00 0.00166
565304.25 4151844.00 0.00166
565304.25 4151834.00 0.00165
565304.25 4151824.00 0.00165
565304.25 4151814.00 0.00165
565304.25 4151804.00 0.00164
565304.25 4151794.00 0.00163
565304.25 4151784.00 0.00162
565294.25 4151974.00 0.00149
565294.25 4151964.00 0.00149
565294.25 4151954.00 0.00149
565294.25 4151944.00 0.00149
565294.25 4151934.00 0.00149
565294.25 4151924.00 0.00150
565294.25 4151914.00 0.00150
565294.25 4151904.00 0.00150
565294.25 4151894.00 0.00151
565294.25 4151884.00 0.00151
565294.25 4151874.00 0.00151
565294.25 4151864.00 0.00152
565294.25 4151854.00 0.00152
565294.25 4151844.00 0.00152
565294.25 4151834.00 0.00152
565294.25 4151824.00 0.00152
565294.25 4151814.00 0.00152
565294.25 4151804.00 0.00151
565294.25 4151794.00 0.00150
565294.25 4151784.00 0.00150
565284.25 4151974.00 0.00137

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565284.25	4151964.00	0.00137	565284.25	4151954.00	0.00137
565284.25	4151944.00	0.00137	565284.25	4151934.00	0.00138
565284.25	4151924.00	0.00138	565284.25	4151914.00	0.00138
565284.25	4151904.00	0.00139	565284.25	4151894.00	0.00139
565284.25	4151884.00	0.00139	565284.25	4151874.00	0.00139
565284.25	4151864.00	0.00140	565284.25	4151854.00	0.00140
565284.25	4151844.00	0.00140	565284.25	4151834.00	0.00140
565284.25	4151824.00	0.00140	565284.25	4151814.00	0.00140
565284.25	4151804.00	0.00140	565284.25	4151794.00	0.00139
565284.25	4151784.00	0.00139	565274.25	4151974.00	0.00127
565274.25	4151964.00	0.00127	565274.25	4151954.00	0.00127
565274.25	4151944.00	0.00127	565274.25	4151934.00	0.00127
565274.25	4151924.00	0.00128	565274.25	4151914.00	0.00128
565274.25	4151904.00	0.00128	565274.25	4151894.00	0.00128

565274.25 4151884.00 0.00128
565274.25 4151874.00 0.00129
565274.25 4151864.00 0.00129
565274.25 4151854.00 0.00129
565274.25 4151844.00 0.00130
565274.25 4151834.00 0.00130
565274.25 4151824.00 0.00130
565274.25 4151814.00 0.00130
565274.25 4151804.00 0.00130
565274.25 4151794.00 0.00129
565274.25 4151784.00 0.00129
565264.25 4151974.00 0.00118
565264.25 4151964.00 0.00118
565264.25 4151954.00 0.00118
565264.25 4151944.00 0.00118
565264.25 4151934.00 0.00118
565264.25 4151924.00 0.00118
565264.25 4151914.00 0.00118
565264.25 4151904.00 0.00119
565264.25 4151894.00 0.00119
565264.25 4151884.00 0.00119
565264.25 4151874.00 0.00119
565264.25 4151864.00 0.00119
565264.25 4151854.00 0.00120
565264.25 4151844.00 0.00120
565264.25 4151834.00 0.00120
565264.25 4151824.00 0.00120
565264.25 4151814.00 0.00120
565264.25 4151804.00 0.00120
565264.25 4151794.00 0.00120
565264.25 4151784.00 0.00120
565454.25 4151984.00 0.01166
565454.25 4151994.00 0.01169
565454.25 4152004.00 0.01162
565454.25 4152014.00 0.01146
565454.25 4152024.00 0.01123
565454.25 4152034.00 0.01093
565454.25 4152044.00 0.01059
565454.25 4152054.00 0.01023
565454.25 4152064.00 0.00986
565454.25 4152074.00 0.00951
565454.25 4152084.00 0.00922
565454.25 4152094.00 0.00903
565454.25 4152104.00 0.00893
565454.25 4152114.00 0.00887
565454.25 4152124.00 0.00879
565454.25 4152134.00 0.00869
565454.25 4152144.00 0.00853
565454.25 4152154.00 0.00832
565454.25 4152164.00 0.00807
565454.25 4152174.00 0.00777
565454.25 4152184.00 0.00744

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565454.25	4152194.00	0.00708	565454.25	4152204.00	0.00670
565454.25	4152214.00	0.00632	565454.25	4152224.00	0.00594
565454.25	4152234.00	0.00557	565454.25	4152244.00	0.00521
565454.25	4152254.00	0.00487	565454.25	4152264.00	0.00456
565454.25	4152274.00	0.00426	565454.25	4152284.00	0.00398
565444.25	4151984.00	0.00954	565444.25	4151994.00	0.00951
565444.25	4152004.00	0.00942	565444.25	4152014.00	0.00928
565444.25	4152024.00	0.00909	565444.25	4152034.00	0.00887
565444.25	4152044.00	0.00863	565444.25	4152054.00	0.00838
565444.25	4152064.00	0.00812	565444.25	4152074.00	0.00787
565444.25	4152084.00	0.00766	565444.25	4152094.00	0.00752
565444.25	4152104.00	0.00745	565444.25	4152114.00	0.00743
565444.25	4152124.00	0.00743	565444.25	4152134.00	0.00741
565444.25	4152144.00	0.00736	565444.25	4152154.00	0.00726

565444.25 4152164.00 0.00712
565444.25 4152174.00 0.00694
565444.25 4152184.00 0.00672
565444.25 4152194.00 0.00647
565444.25 4152204.00 0.00619
565444.25 4152214.00 0.00589
565444.25 4152224.00 0.00558
565444.25 4152234.00 0.00527
565444.25 4152244.00 0.00497
565444.25 4152254.00 0.00468
565444.25 4152264.00 0.00440
565444.25 4152274.00 0.00413
565444.25 4152284.00 0.00388
565434.25 4151984.00 0.00790
565434.25 4151994.00 0.00785
565434.25 4152004.00 0.00776
565434.25 4152014.00 0.00765
565434.25 4152024.00 0.00750
565434.25 4152034.00 0.00734
565434.25 4152044.00 0.00717
565434.25 4152054.00 0.00698
565434.25 4152064.00 0.00679
565434.25 4152074.00 0.00661
565434.25 4152084.00 0.00646
565434.25 4152094.00 0.00635
565434.25 4152104.00 0.00629
565434.25 4152114.00 0.00629
565434.25 4152124.00 0.00631
565434.25 4152134.00 0.00634
565434.25 4152144.00 0.00635
565434.25 4152154.00 0.00633
565434.25 4152164.00 0.00627
565434.25 4152174.00 0.00618
565434.25 4152184.00 0.00604
565434.25 4152194.00 0.00588
565434.25 4152204.00 0.00568
565434.25 4152214.00 0.00546
565434.25 4152224.00 0.00522
565434.25 4152234.00 0.00497
565434.25 4152244.00 0.00471
565434.25 4152254.00 0.00447
565434.25 4152264.00 0.00423
565434.25 4152274.00 0.00399
565434.25 4152284.00 0.00376
565424.25 4151984.00 0.00664
565424.25 4151994.00 0.00658
565424.25 4152004.00 0.00651
565424.25 4152014.00 0.00641
565424.25 4152024.00 0.00630
565424.25 4152034.00 0.00618
565424.25 4152044.00 0.00605
565424.25 4152054.00 0.00591

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565424.25	4152064.00	0.00577	565424.25	4152074.00	0.00563
565424.25	4152084.00	0.00551	565424.25	4152094.00	0.00543
565424.25	4152104.00	0.00538	565424.25	4152114.00	0.00538
565424.25	4152124.00	0.00541	565424.25	4152134.00	0.00545
565424.25	4152144.00	0.00550	565424.25	4152154.00	0.00552
565424.25	4152164.00	0.00552	565424.25	4152174.00	0.00548
565424.25	4152184.00	0.00542	565424.25	4152194.00	0.00532
565424.25	4152204.00	0.00519	565424.25	4152214.00	0.00503
565424.25	4152224.00	0.00485	565424.25	4152234.00	0.00466
565424.25	4152244.00	0.00445	565424.25	4152254.00	0.00425
565424.25	4152264.00	0.00404	565424.25	4152274.00	0.00383
565424.25	4152284.00	0.00363	565414.25	4151984.00	0.00564
565414.25	4151994.00	0.00559	565414.25	4152004.00	0.00553
565414.25	4152014.00	0.00545	565414.25	4152024.00	0.00537

565414.25 4152034.00 0.00528
565414.25 4152044.00 0.00518
565414.25 4152054.00 0.00507
565414.25 4152064.00 0.00496
565414.25 4152074.00 0.00486
565414.25 4152084.00 0.00476
565414.25 4152094.00 0.00469
565414.25 4152104.00 0.00465
565414.25 4152114.00 0.00465
565414.25 4152124.00 0.00468
565414.25 4152134.00 0.00472
565414.25 4152144.00 0.00478
565414.25 4152154.00 0.00482
565414.25 4152164.00 0.00485
565414.25 4152174.00 0.00486
565414.25 4152184.00 0.00484
565414.25 4152194.00 0.00479
565414.25 4152204.00 0.00472
565414.25 4152214.00 0.00461
565414.25 4152224.00 0.00449
565414.25 4152234.00 0.00434
565414.25 4152244.00 0.00418
565414.25 4152254.00 0.00402
565414.25 4152264.00 0.00385
565414.25 4152274.00 0.00367
565414.25 4152284.00 0.00350
565404.25 4151984.00 0.00484
565404.25 4151994.00 0.00479
565404.25 4152004.00 0.00475
565404.25 4152014.00 0.00470
565404.25 4152024.00 0.00463
565404.25 4152034.00 0.00456
565404.25 4152044.00 0.00449
565404.25 4152054.00 0.00440
565404.25 4152064.00 0.00432
565404.25 4152074.00 0.00423
565404.25 4152084.00 0.00415
565404.25 4152094.00 0.00410
565404.25 4152104.00 0.00406
565404.25 4152114.00 0.00406
565404.25 4152124.00 0.00408
565404.25 4152134.00 0.00412
565404.25 4152144.00 0.00417
565404.25 4152154.00 0.00423
565404.25 4152164.00 0.00428
565404.25 4152174.00 0.00431
565404.25 4152184.00 0.00432
565404.25 4152194.00 0.00431
565404.25 4152204.00 0.00428
565404.25 4152214.00 0.00422
565404.25 4152224.00 0.00414
565404.25 4152234.00 0.00403

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565404.25	4152244.00	0.00391	565404.25	4152254.00	0.00378
565404.25	4152264.00	0.00365	565404.25	4152274.00	0.00350
565404.25	4152284.00	0.00335	565394.25	4151984.00	0.00420
565394.25	4151994.00	0.00416	565394.25	4152004.00	0.00413
565394.25	4152014.00	0.00409	565394.25	4152024.00	0.00404
565394.25	4152034.00	0.00398	565394.25	4152044.00	0.00392
565394.25	4152054.00	0.00386	565394.25	4152064.00	0.00379
565394.25	4152074.00	0.00372	565394.25	4152084.00	0.00366
565394.25	4152094.00	0.00361	565394.25	4152104.00	0.00357
565394.25	4152114.00	0.00357	565394.25	4152124.00	0.00358
565394.25	4152134.00	0.00362	565394.25	4152144.00	0.00367
565394.25	4152154.00	0.00373	565394.25	4152164.00	0.00378
565394.25	4152174.00	0.00383	565394.25	4152184.00	0.00386
565394.25	4152194.00	0.00388	565394.25	4152204.00	0.00387

565394.25 4152214.00 0.00384
565394.25 4152224.00 0.00380
565394.25 4152234.00 0.00373
565394.25 4152244.00 0.00364
565394.25 4152254.00 0.00355
565394.25 4152264.00 0.00344
565394.25 4152274.00 0.00332
565394.25 4152284.00 0.00320
565384.25 4151984.00 0.00367
565384.25 4151994.00 0.00364
565384.25 4152004.00 0.00362
565384.25 4152014.00 0.00359
565384.25 4152024.00 0.00355
565384.25 4152034.00 0.00351
565384.25 4152044.00 0.00346
565384.25 4152054.00 0.00341
565384.25 4152064.00 0.00335
565384.25 4152074.00 0.00329
565384.25 4152084.00 0.00324
565384.25 4152094.00 0.00320
565384.25 4152104.00 0.00317
565384.25 4152114.00 0.00316
565384.25 4152124.00 0.00317
565384.25 4152134.00 0.00320
565384.25 4152144.00 0.00324
565384.25 4152154.00 0.00329
565384.25 4152164.00 0.00335
565384.25 4152174.00 0.00341
565384.25 4152184.00 0.00345
565384.25 4152194.00 0.00348
565384.25 4152204.00 0.00350
565384.25 4152214.00 0.00349
565384.25 4152224.00 0.00347
565384.25 4152234.00 0.00344
565384.25 4152244.00 0.00338
565384.25 4152254.00 0.00331
565384.25 4152264.00 0.00323
565384.25 4152274.00 0.00314
565384.25 4152284.00 0.00304
565374.25 4151984.00 0.00324
565374.25 4151994.00 0.00322
565374.25 4152004.00 0.00321
565374.25 4152014.00 0.00318
565374.25 4152024.00 0.00315
565374.25 4152034.00 0.00312
565374.25 4152044.00 0.00308
565374.25 4152054.00 0.00303
565374.25 4152064.00 0.00299
565374.25 4152074.00 0.00294
565374.25 4152084.00 0.00289
565374.25 4152094.00 0.00286
565374.25 4152104.00 0.00283

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565374.25	4152114.00	0.00282	565374.25	4152124.00	0.00283
565374.25	4152134.00	0.00285	565374.25	4152144.00	0.00289
565374.25	4152154.00	0.00293	565374.25	4152164.00	0.00299
565374.25	4152174.00	0.00304	565374.25	4152184.00	0.00309
565374.25	4152194.00	0.00313	565374.25	4152204.00	0.00316
565374.25	4152214.00	0.00317	565374.25	4152224.00	0.00317
565374.25	4152234.00	0.00316	565374.25	4152244.00	0.00313
565374.25	4152254.00	0.00308	565374.25	4152264.00	0.00303
565374.25	4152274.00	0.00294	565374.25	4152284.00	0.00287
565364.25	4151984.00	0.00289	565364.25	4151994.00	0.00287
565364.25	4152004.00	0.00286	565364.25	4152014.00	0.00284
565364.25	4152024.00	0.00282	565364.25	4152034.00	0.00279
565364.25	4152044.00	0.00275	565364.25	4152054.00	0.00272
565364.25	4152064.00	0.00268	565364.25	4152074.00	0.00264

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         565364.25    4152084.00        0.00260
565364.25    4152094.00        0.00257
         565364.25    4152104.00        0.00254
565364.25    4152114.00        0.00253
         565364.25    4152124.00        0.00254
565364.25    4152134.00        0.00255
         565364.25    4152144.00        0.00258
565364.25    4152154.00        0.00262
         565364.25    4152164.00        0.00267
565364.25    4152174.00        0.00272
         565364.25    4152184.00        0.00277
565364.25    4152194.00        0.00282
         565364.25    4152204.00        0.00285
565364.25    4152214.00        0.00288
         565364.25    4152224.00        0.00290
565364.25    4152234.00        0.00290
         565364.25    4152244.00        0.00288
565364.25    4152254.00        0.00286
         565364.25    4152264.00        0.00281
565364.25    4152274.00        0.00274
         565364.25    4152284.00        0.00269
565354.25    4151984.00        0.00259
         565354.25    4151994.00        0.00258
565354.25    4152004.00        0.00257
         565354.25    4152014.00        0.00255
565354.25    4152024.00        0.00253
         565354.25    4152034.00        0.00251
565354.25    4152044.00        0.00248
         565354.25    4152054.00        0.00245
565354.25    4152064.00        0.00242
         565354.25    4152074.00        0.00238
565354.25    4152084.00        0.00235
         565354.25    4152094.00        0.00232
565354.25    4152104.00        0.00230
         565354.25    4152114.00        0.00229
565354.25    4152124.00        0.00229
         565354.25    4152134.00        0.00230
565354.25    4152144.00        0.00232
         565354.25    4152154.00        0.00236
565354.25    4152164.00        0.00240
         565354.25    4152174.00        0.00245
565354.25    4152184.00        0.00249
         565354.25    4152194.00        0.00254
565354.25    4152204.00        0.00258
         565354.25    4152214.00        0.00262
565354.25    4152224.00        0.00264
         565354.25    4152234.00        0.00266
565354.25    4152244.00        0.00266
         565354.25    4152254.00        0.00265
565354.25    4152264.00        0.00263
         565354.25    4152274.00        0.00259
565354.25    4152284.00        0.00255
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565344.25	4151984.00	0.00234	565344.25	4151994.00	0.00233
565344.25	4152004.00	0.00232	565344.25	4152014.00	0.00230
565344.25	4152024.00	0.00229	565344.25	4152034.00	0.00227
565344.25	4152044.00	0.00224	565344.25	4152054.00	0.00222
565344.25	4152064.00	0.00219	565344.25	4152074.00	0.00216
565344.25	4152084.00	0.00213	565344.25	4152094.00	0.00211
565344.25	4152104.00	0.00209	565344.25	4152114.00	0.00208
565344.25	4152124.00	0.00207	565344.25	4152134.00	0.00208
565344.25	4152144.00	0.00210	565344.25	4152154.00	0.00213
565344.25	4152164.00	0.00217	565344.25	4152174.00	0.00221
565344.25	4152184.00	0.00225	565344.25	4152194.00	0.00230
565344.25	4152204.00	0.00234	565344.25	4152214.00	0.00238
565344.25	4152224.00	0.00241	565344.25	4152234.00	0.00243
565344.25	4152244.00	0.00244	565344.25	4152254.00	0.00245

565344.25 4152264.00 0.00244
565344.25 4152274.00 0.00242
565344.25 4152284.00 0.00239
565334.25 4151984.00 0.00212
565334.25 4151994.00 0.00211
565334.25 4152004.00 0.00210
565334.25 4152014.00 0.00209
565334.25 4152024.00 0.00208
565334.25 4152034.00 0.00206
565334.25 4152044.00 0.00204
565334.25 4152054.00 0.00202
565334.25 4152064.00 0.00199
565334.25 4152074.00 0.00197
565334.25 4152084.00 0.00194
565334.25 4152094.00 0.00192
565334.25 4152104.00 0.00190
565334.25 4152114.00 0.00189
565334.25 4152124.00 0.00189
565334.25 4152134.00 0.00189
565334.25 4152144.00 0.00191
565334.25 4152154.00 0.00193
565334.25 4152164.00 0.00196
565334.25 4152174.00 0.00200
565334.25 4152184.00 0.00204
565334.25 4152194.00 0.00208
565334.25 4152204.00 0.00212
565334.25 4152214.00 0.00216
565334.25 4152224.00 0.00220
565334.25 4152234.00 0.00223
565334.25 4152244.00 0.00225
565334.25 4152254.00 0.00225
565334.25 4152264.00 0.00224
565334.25 4152274.00 0.00223
565334.25 4152284.00 0.00222
565324.25 4151984.00 0.00192
565324.25 4151994.00 0.00192
565324.25 4152004.00 0.00191
565324.25 4152014.00 0.00190
565324.25 4152024.00 0.00189
565324.25 4152034.00 0.00188
565324.25 4152044.00 0.00186
565324.25 4152054.00 0.00184
565324.25 4152064.00 0.00182
565324.25 4152074.00 0.00180
565324.25 4152084.00 0.00178
565324.25 4152094.00 0.00176
565324.25 4152104.00 0.00174
565324.25 4152114.00 0.00173
565324.25 4152124.00 0.00173
565324.25 4152134.00 0.00173
565324.25 4152144.00 0.00174
565324.25 4152154.00 0.00176

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565324.25	4152164.00	0.00179	565324.25	4152174.00	0.00182
565324.25	4152184.00	0.00185	565324.25	4152194.00	0.00189
565324.25	4152204.00	0.00193	565324.25	4152214.00	0.00197
565324.25	4152224.00	0.00201	565324.25	4152234.00	0.00204
565324.25	4152244.00	0.00206	565324.25	4152254.00	0.00207
565324.25	4152264.00	0.00207	565324.25	4152274.00	0.00206
565324.25	4152284.00	0.00206	565314.25	4151984.00	0.00176
565314.25	4151994.00	0.00175	565314.25	4152004.00	0.00175
565314.25	4152014.00	0.00174	565314.25	4152024.00	0.00173
565314.25	4152034.00	0.00172	565314.25	4152044.00	0.00171
565314.25	4152054.00	0.00169	565314.25	4152064.00	0.00167
565314.25	4152074.00	0.00165	565314.25	4152084.00	0.00163
565314.25	4152094.00	0.00162	565314.25	4152104.00	0.00160
565314.25	4152114.00	0.00159	565314.25	4152124.00	0.00159

565314.25 4152134.00 0.00159
565314.25 4152144.00 0.00160
565314.25 4152154.00 0.00161
565314.25 4152164.00 0.00163
565314.25 4152174.00 0.00166
565314.25 4152184.00 0.00169
565314.25 4152194.00 0.00173
565314.25 4152204.00 0.00176
565314.25 4152214.00 0.00180
565314.25 4152224.00 0.00184
565314.25 4152234.00 0.00187
565314.25 4152244.00 0.00190
565314.25 4152254.00 0.00191
565314.25 4152264.00 0.00191
565314.25 4152274.00 0.00190
565314.25 4152284.00 0.00191
565304.25 4151984.00 0.00161
565304.25 4151994.00 0.00161
565304.25 4152004.00 0.00160
565304.25 4152014.00 0.00160
565304.25 4152024.00 0.00159
565304.25 4152034.00 0.00158
565304.25 4152044.00 0.00157
565304.25 4152054.00 0.00156
565304.25 4152064.00 0.00154
565304.25 4152074.00 0.00152
565304.25 4152084.00 0.00151
565304.25 4152094.00 0.00149
565304.25 4152104.00 0.00148
565304.25 4152114.00 0.00147
565304.25 4152124.00 0.00146
565304.25 4152134.00 0.00146
565304.25 4152144.00 0.00147
565304.25 4152154.00 0.00148
565304.25 4152164.00 0.00150
565304.25 4152174.00 0.00152
565304.25 4152184.00 0.00155
565304.25 4152194.00 0.00158
565304.25 4152204.00 0.00161
565304.25 4152214.00 0.00165
565304.25 4152224.00 0.00168
565304.25 4152234.00 0.00172
565304.25 4152244.00 0.00174
565304.25 4152254.00 0.00176
565304.25 4152264.00 0.00177
565304.25 4152274.00 0.00177
565304.25 4152284.00 0.00179
565294.25 4151984.00 0.00148
565294.25 4151994.00 0.00148
565294.25 4152004.00 0.00148
565294.25 4152014.00 0.00147
565294.25 4152024.00 0.00147

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565294.25	4152034.00	0.00146	565294.25	4152044.00	0.00145
565294.25	4152054.00	0.00144	565294.25	4152064.00	0.00142
565294.25	4152074.00	0.00141	565294.25	4152084.00	0.00139
565294.25	4152094.00	0.00138	565294.25	4152104.00	0.00137
565294.25	4152114.00	0.00136	565294.25	4152124.00	0.00135
565294.25	4152134.00	0.00135	565294.25	4152144.00	0.00136
565294.25	4152154.00	0.00137	565294.25	4152164.00	0.00138
565294.25	4152174.00	0.00140	565294.25	4152184.00	0.00142
565294.25	4152194.00	0.00145	565294.25	4152204.00	0.00148
565294.25	4152214.00	0.00151	565294.25	4152224.00	0.00155
565294.25	4152234.00	0.00158	565294.25	4152244.00	0.00161
565294.25	4152254.00	0.00163	565294.25	4152264.00	0.00165
565294.25	4152274.00	0.00166	565294.25	4152284.00	0.00168
565284.25	4151984.00	0.00137	565284.25	4151994.00	0.00137

565284.25 4152004.00 0.00137
565284.25 4152014.00 0.00136
565284.25 4152024.00 0.00136
565284.25 4152034.00 0.00135
565284.25 4152044.00 0.00134
565284.25 4152054.00 0.00133
565284.25 4152064.00 0.00132
565284.25 4152074.00 0.00131
565284.25 4152084.00 0.00129
565284.25 4152094.00 0.00128
565284.25 4152104.00 0.00127
565284.25 4152114.00 0.00126
565284.25 4152124.00 0.00126
565284.25 4152134.00 0.00126
565284.25 4152144.00 0.00126
565284.25 4152154.00 0.00126
565284.25 4152164.00 0.00128
565284.25 4152174.00 0.00129
565284.25 4152184.00 0.00131
565284.25 4152194.00 0.00134
565284.25 4152204.00 0.00136
565284.25 4152214.00 0.00139
565284.25 4152224.00 0.00142
565284.25 4152234.00 0.00145
565284.25 4152244.00 0.00148
565284.25 4152254.00 0.00151
565284.25 4152264.00 0.00153
565284.25 4152274.00 0.00155
565284.25 4152284.00 0.00157
565274.25 4151984.00 0.00127
565274.25 4151994.00 0.00127
565274.25 4152004.00 0.00127
565274.25 4152014.00 0.00127
565274.25 4152024.00 0.00126
565274.25 4152034.00 0.00126
565274.25 4152044.00 0.00125
565274.25 4152054.00 0.00124
565274.25 4152064.00 0.00123
565274.25 4152074.00 0.00121
565274.25 4152084.00 0.00120
565274.25 4152094.00 0.00119
565274.25 4152104.00 0.00118
565274.25 4152114.00 0.00117
565274.25 4152124.00 0.00117
565274.25 4152134.00 0.00117
565274.25 4152144.00 0.00117
565274.25 4152154.00 0.00117
565274.25 4152164.00 0.00118
565274.25 4152174.00 0.00120
565274.25 4152184.00 0.00121
565274.25 4152194.00 0.00123
565274.25 4152204.00 0.00126

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565274.25	4152214.00	0.00128	565274.25	4152224.00	0.00131
565274.25	4152234.00	0.00134	565274.25	4152244.00	0.00137
565274.25	4152254.00	0.00139	565274.25	4152264.00	0.00142
565274.25	4152274.00	0.00144	565274.25	4152284.00	0.00146
565264.25	4151984.00	0.00118	565264.25	4151994.00	0.00118
565264.25	4152004.00	0.00118	565264.25	4152014.00	0.00118
565264.25	4152024.00	0.00117	565264.25	4152034.00	0.00117
565264.25	4152044.00	0.00116	565264.25	4152054.00	0.00115
565264.25	4152064.00	0.00114	565264.25	4152074.00	0.00113
565264.25	4152084.00	0.00112	565264.25	4152094.00	0.00111
565264.25	4152104.00	0.00110	565264.25	4152114.00	0.00110
565264.25	4152124.00	0.00109	565264.25	4152134.00	0.00109
565264.25	4152144.00	0.00109	565264.25	4152154.00	0.00109
565264.25	4152164.00	0.00110	565264.25	4152174.00	0.00111

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         565264.25    4152184.00        0.00113
565264.25    4152194.00        0.00114
         565264.25    4152204.00        0.00116
565264.25    4152214.00        0.00119
         565264.25    4152224.00        0.00121
565264.25    4152234.00        0.00124
         565264.25    4152244.00        0.00127
565264.25    4152254.00        0.00129
         565264.25    4152264.00        0.00132
565264.25    4152274.00        0.00134
         565264.25    4152284.00        0.00136
565264.25    4152367.25        0.00140
         565264.25    4152450.75        0.00122
565264.25    4152534.00        0.00097
         565358.00    4152367.25        0.00201
565358.00    4152450.75        0.00144
         565358.00    4152534.00        0.00105
565451.75    4152367.25        0.00238
         565451.75    4152450.75        0.00158
565451.75    4152534.00        0.00112
         565545.50    4152367.25        0.00239
565545.50    4152450.75        0.00152
         565545.50    4152534.00        0.00107
565639.25    4152367.25        0.00209
         565639.25    4152450.75        0.00140
565639.25    4152534.00        0.00099
         565733.00    4152367.25        0.00159
565733.00    4152450.75        0.00119
         565733.00    4152534.00        0.00091
565826.75    4152367.25        0.00111
         565826.75    4152450.75        0.00085
565826.75    4152534.00        0.00072
         565920.50    4152367.25        0.00097
565920.50    4152450.75        0.00066
         565920.50    4152534.00        0.00053
566014.25    4152367.25        0.00094
         566014.25    4152450.75        0.00060
566014.25    4152534.00        0.00044
         565847.56    4152284.00        0.00180
565847.56    4152190.25        0.00431
         565847.56    4152096.50        0.00953
565847.56    4152002.75        0.01324
         565847.56    4151909.00        0.01147
565847.56    4151815.25        0.00823
         565847.56    4151721.50        0.00541
565847.56    4151627.75        0.00356
         565847.56    4151534.00        0.00247
565930.94    4152284.00        0.00169
         565930.94    4152190.25        0.00348
565930.94    4152096.50        0.00631
         565930.94    4152002.75        0.00815
565930.94    4151909.00        0.00766
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ALL ***
INCLUDING SOURCE(S): PAREA1 , A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565930.94	4151815.25	0.00629	565930.94	4151721.50	0.00475
565930.94	4151627.75	0.00341	565930.94	4151534.00	0.00243
566014.25	4152284.00	0.00156	566014.25	4152190.25	0.00278
566014.25	4152096.50	0.00443	566014.25	4152002.75	0.00551
566014.25	4151909.00	0.00540	566014.25	4151815.25	0.00477
566014.25	4151721.50	0.00397	566014.25	4151627.75	0.00311
566014.25	4151534.00	0.00236	565764.25	4151700.75	0.00524
565764.25	4151617.25	0.00355	565764.25	4151534.00	0.00256
565670.50	4151700.75	0.00571	565670.50	4151617.25	0.00375
565670.50	4151534.00	0.00265	565576.75	4151700.75	0.00592
565576.75	4151617.25	0.00382	565576.75	4151534.00	0.00265
565483.00	4151700.75	0.00484	565483.00	4151617.25	0.00334
565483.00	4151534.00	0.00243	565389.25	4151700.75	0.00275
565389.25	4151617.25	0.00224	565389.25	4151534.00	0.00182

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         565295.50    4151700.75        0.00140
565295.50    4151617.25        0.00129
         565295.50    4151534.00        0.00113
565201.75    4151700.75        0.00078
         565201.75    4151617.25        0.00075
565201.75    4151534.00        0.00070
         565108.00    4151700.75        0.00048
565108.00    4151617.25        0.00048
         565108.00    4151534.00        0.00046
565014.25    4151700.75        0.00031
         565014.25    4151617.25        0.00031
565014.25    4151534.00        0.00032
         565180.94    4151784.00        0.00070
565180.94    4151877.75        0.00068
         565180.94    4151971.50        0.00070
565180.94    4152065.25        0.00069
         565180.94    4152159.00        0.00066
565180.94    4152252.75        0.00073
         565180.94    4152346.50        0.00087
565180.94    4152440.25        0.00092
         565180.94    4152534.00        0.00084
565097.56    4151784.00        0.00044
         565097.56    4151877.75        0.00045
565097.56    4151971.50        0.00046
         565097.56    4152065.25        0.00046
565097.56    4152159.00        0.00044
         565097.56    4152252.75        0.00047
565097.56    4152346.50        0.00054
         565097.56    4152440.25        0.00063
565097.56    4152534.00        0.00065
         565014.25    4151784.00        0.00031
565014.25    4151877.75        0.00030
         565014.25    4151971.50        0.00033
565014.25    4152065.25        0.00033
         565014.25    4152159.00        0.00032
565014.25    4152252.75        0.00033
         565014.25    4152346.50        0.00037
565014.25    4152440.25        0.00042
         565014.25    4152534.00        0.00048
565502.65    4152072.47        0.02757
         565589.07    4151982.88        0.11780
565619.89    4152017.45        0.12836
         565621.62    4152031.56        0.12246
565618.45    4152045.97        0.11842
         565600.88    4152086.01        0.08459
565578.70    4152137.28        0.02327
         565504.04    4152071.95        0.02851
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565464.25	4151984.00	0.01428	565464.25	4152009.00	0.01442
565464.25	4152034.00	0.01374	565464.25	4152059.00	0.01243
565464.25	4152084.00	0.01124	565489.25	4151984.00	0.02519
565489.25	4152009.00	0.02797	565489.25	4152034.00	0.02823
565489.25	4152059.00	0.02324	565489.25	4152084.00	0.01957
565514.25	4151984.00	0.04437	565514.25	4152009.00	0.05528
565514.25	4152034.00	0.05954	565514.25	4152059.00	0.04096
565514.25	4152084.00	0.02979	565539.25	4151984.00	0.07292
565539.25	4152009.00	0.09200	565539.25	4152034.00	0.09082
565564.25	4151984.00	0.10274	565564.25	4152009.00	0.11489
565464.25	4152094.00	0.01098	565464.25	4152104.00	0.01081
565464.25	4152114.00	0.01064	565464.25	4152124.00	0.01044
565464.25	4152134.00	0.01018	565464.25	4152144.00	0.00986
565464.25	4152154.00	0.00949	565464.25	4152164.00	0.00908

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         565464.25    4152174.00        0.00864
565464.25    4152184.00        0.00818
         565464.25    4152194.00        0.00770
565464.25    4152204.00        0.00721
         565464.25    4152214.00        0.00673
565464.25    4152224.00        0.00628
         565464.25    4152234.00        0.00584
565464.25    4152244.00        0.00543
         565464.25    4152254.00        0.00505
565464.25    4152264.00        0.00470
         565464.25    4152274.00        0.00437
565464.25    4152284.00        0.00407
         565474.25    4152094.00        0.01358
565474.25    4152104.00        0.01325
         565474.25    4152114.00        0.01287
565474.25    4152124.00        0.01243
         565474.25    4152134.00        0.01193
565474.25    4152144.00        0.01138
         565474.25    4152154.00        0.01079
565474.25    4152164.00        0.01019
         565474.25    4152174.00        0.00957
565474.25    4152184.00        0.00895
         565474.25    4152194.00        0.00833
565474.25    4152204.00        0.00773
         565474.25    4152214.00        0.00715
565474.25    4152224.00        0.00661
         565474.25    4152234.00        0.00611
565474.25    4152244.00        0.00564
         565474.25    4152254.00        0.00522
565474.25    4152264.00        0.00483
         565474.25    4152274.00        0.00448
565474.25    4152284.00        0.00416
         565484.25    4152094.00        0.01692
565484.25    4152104.00        0.01628
         565484.25    4152114.00        0.01556
565484.25    4152124.00        0.01475
         565484.25    4152134.00        0.01391
565484.25    4152144.00        0.01306
         565484.25    4152154.00        0.01221
565484.25    4152164.00        0.01136
         565484.25    4152174.00        0.01054
565484.25    4152184.00        0.00973
         565484.25    4152194.00        0.00896
565484.25    4152204.00        0.00822
         565484.25    4152214.00        0.00754
565484.25    4152224.00        0.00691
         565484.25    4152234.00        0.00634
565484.25    4152244.00        0.00583
         565484.25    4152254.00        0.00536
565484.25    4152264.00        0.00495
         565484.25    4152274.00        0.00457
565484.25    4152284.00        0.00424
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565494.25	4152094.00	0.02083	565494.25	4152104.00	0.01982
565494.25	4152114.00	0.01848	565494.25	4152124.00	0.01710
565494.25	4152134.00	0.01594	565494.25	4152144.00	0.01481
565494.25	4152154.00	0.01370	565494.25	4152164.00	0.01258
565494.25	4152174.00	0.01151	565494.25	4152184.00	0.01050
565494.25	4152194.00	0.00955	565494.25	4152204.00	0.00868
565494.25	4152214.00	0.00789	565494.25	4152224.00	0.00718
565494.25	4152234.00	0.00656	565494.25	4152244.00	0.00599
565494.25	4152254.00	0.00549	565494.25	4152264.00	0.00505
565494.25	4152274.00	0.00465	565494.25	4152284.00	0.00430
565504.25	4152094.00	0.02480	565504.25	4152104.00	0.02347
565504.25	4152114.00	0.02160	565504.25	4152124.00	0.01963
565504.25	4152134.00	0.01807	565504.25	4152144.00	0.01663
565504.25	4152154.00	0.01525	565504.25	4152164.00	0.01380

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         565504.25    4152174.00        0.01245
565504.25    4152184.00        0.01122
         565504.25    4152194.00        0.01009
565504.25    4152204.00        0.00908
         565504.25    4152214.00        0.00819
565504.25    4152224.00        0.00741
         565504.25    4152234.00        0.00672
565504.25    4152244.00        0.00612
         565504.25    4152254.00        0.00559
565504.25    4152264.00        0.00512
         565504.25    4152274.00        0.00471
565504.25    4152284.00        0.00434
         565514.25    4152094.00        0.02848
565514.25    4152104.00        0.02716
         565514.25    4152114.00        0.02506
565514.25    4152124.00        0.02260
         565514.25    4152134.00        0.02042
565514.25    4152144.00        0.01844
         565514.25    4152154.00        0.01660
565514.25    4152164.00        0.01487
         565514.25    4152174.00        0.01328
565514.25    4152184.00        0.01185
         565514.25    4152194.00        0.01055
565514.25    4152204.00        0.00941
         565514.25    4152214.00        0.00843
565514.25    4152224.00        0.00758
         565514.25    4152234.00        0.00684
565514.25    4152244.00        0.00621
         565514.25    4152254.00        0.00565
565514.25    4152264.00        0.00517
         565514.25    4152274.00        0.00474
565514.25    4152284.00        0.00437
         565524.25    4152094.00        0.03189
565524.25    4152104.00        0.03036
         565524.25    4152114.00        0.02827
565524.25    4152124.00        0.02559
         565524.25    4152134.00        0.02280
565524.25    4152144.00        0.02017
         565524.25    4152154.00        0.01776
565524.25    4152164.00        0.01574
         565524.25    4152174.00        0.01395
565524.25    4152184.00        0.01236
         565524.25    4152194.00        0.01090
565524.25    4152204.00        0.00965
         565524.25    4152214.00        0.00859
565524.25    4152224.00        0.00769
         565524.25    4152234.00        0.00692
565524.25    4152244.00        0.00625
         565524.25    4152254.00        0.00568
565524.25    4152264.00        0.00519
         565524.25    4152274.00        0.00475
565524.25    4152284.00        0.00437
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565534.25	4152104.00	0.03271	565534.25	4152114.00	0.03052
565534.25	4152124.00	0.02795	565534.25	4152134.00	0.02489
565534.25	4152144.00	0.02173	565534.25	4152154.00	0.01875
565534.25	4152164.00	0.01638	565534.25	4152174.00	0.01436
565534.25	4152184.00	0.01262	565534.25	4152194.00	0.01108
565534.25	4152204.00	0.00977	565534.25	4152214.00	0.00867
565534.25	4152224.00	0.00773	565534.25	4152234.00	0.00694
565534.25	4152244.00	0.00626	565534.25	4152254.00	0.00568
565534.25	4152264.00	0.00518	565534.25	4152274.00	0.00473
565534.25	4152284.00	0.00435	565544.25	4152114.00	0.03149
565544.25	4152124.00	0.02901	565544.25	4152134.00	0.02623
565544.25	4152144.00	0.02297	565544.25	4152154.00	0.01956
565544.25	4152164.00	0.01667	565544.25	4152174.00	0.01431
565544.25	4152184.00	0.01237	565544.25	4152194.00	0.01090

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         565544.25    4152204.00        0.00968
565544.25    4152214.00        0.00865
         565544.25    4152224.00        0.00771
565544.25    4152234.00        0.00691
         565544.25    4152244.00        0.00623
565544.25    4152254.00        0.00562
         565544.25    4152264.00        0.00509
565544.25    4152274.00        0.00463
         565544.25    4152284.00        0.00426
565554.25    4152124.00        0.02838
         565554.25    4152134.00        0.02624
565554.25    4152144.00        0.02355
         565554.25    4152154.00        0.01992
565554.25    4152164.00        0.01656
         565554.25    4152174.00        0.01388
565554.25    4152184.00        0.01093
         565554.25    4152194.00        0.01049
565554.25    4152204.00        0.00948
         565554.25    4152214.00        0.00855
565554.25    4152224.00        0.00763
         565554.25    4152234.00        0.00683
565554.25    4152244.00        0.00614
         565554.25    4152254.00        0.00552
565554.25    4152264.00        0.00497
         565554.25    4152274.00        0.00450
565554.25    4152284.00        0.00415
         565564.25    4152134.00        0.02483
565564.25    4152144.00        0.02272
         565564.25    4152154.00        0.01975
565564.25    4152164.00        0.01665
         565564.25    4152174.00        0.01408
565564.25    4152184.00        0.01202
         565564.25    4152194.00        0.01059
565564.25    4152204.00        0.00945
         565564.25    4152214.00        0.00842
565564.25    4152224.00        0.00741
         565564.25    4152234.00        0.00666
565564.25    4152244.00        0.00602
         565564.25    4152254.00        0.00545
565564.25    4152264.00        0.00494
         565564.25    4152274.00        0.00450
565564.25    4152284.00        0.00415
         565574.25    4152134.00        0.02351
565574.25    4152144.00        0.02141
         565574.25    4152154.00        0.01895
565574.25    4152164.00        0.01638
         565574.25    4152174.00        0.01406
565574.25    4152184.00        0.01212
         565574.25    4152194.00        0.01058
565574.25    4152204.00        0.00918
         565574.25    4152214.00        0.00795
565574.25    4152224.00        0.00710
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565574.25	4152234.00	0.00645	565574.25	4152244.00	0.00588
565574.25	4152254.00	0.00535	565574.25	4152264.00	0.00488
565574.25	4152274.00	0.00447	565574.25	4152284.00	0.00411
565584.25	4152134.00	0.02269	565584.25	4152144.00	0.02027
565584.25	4152154.00	0.01796	565584.25	4152164.00	0.01544
565584.25	4152174.00	0.01319	565584.25	4152184.00	0.01136
565584.25	4152194.00	0.00984	565584.25	4152204.00	0.00861
565584.25	4152214.00	0.00759	565584.25	4152224.00	0.00686
565584.25	4152234.00	0.00627	565584.25	4152244.00	0.00575
565584.25	4152254.00	0.00522	565584.25	4152264.00	0.00476
565584.25	4152274.00	0.00436	565584.25	4152284.00	0.00401
565594.25	4152104.00	0.04992	565594.25	4152114.00	0.03829
565594.25	4152124.00	0.02963	565594.25	4152134.00	0.02387
565594.25	4152144.00	0.02004	565594.25	4152154.00	0.01713

565594.25 4152164.00 0.01469
565594.25 4152174.00 0.01263
565594.25 4152184.00 0.01096
565594.25 4152194.00 0.00957
565594.25 4152204.00 0.00841
565594.25 4152214.00 0.00746
565594.25 4152224.00 0.00674
565594.25 4152234.00 0.00615
565594.25 4152244.00 0.00558
565594.25 4152254.00 0.00508
565594.25 4152264.00 0.00464
565594.25 4152274.00 0.00426
565594.25 4152284.00 0.00393
565604.25 4152094.00 0.06562
565604.25 4152104.00 0.05468
565604.25 4152114.00 0.04395
565604.25 4152124.00 0.03378
565604.25 4152134.00 0.02566
565604.25 4152144.00 0.02000
565604.25 4152154.00 0.01630
565604.25 4152164.00 0.01378
565604.25 4152174.00 0.01189
565604.25 4152184.00 0.01039
565604.25 4152194.00 0.00917
565604.25 4152204.00 0.00815
565604.25 4152214.00 0.00727
565604.25 4152224.00 0.00657
565604.25 4152234.00 0.00594
565604.25 4152244.00 0.00539
565604.25 4152254.00 0.00492
565604.25 4152264.00 0.00452
565604.25 4152274.00 0.00416
565604.25 4152284.00 0.00385
565614.25 4152094.00 0.07006
565614.25 4152104.00 0.05814
565614.25 4152114.00 0.04620
565614.25 4152124.00 0.03486
565614.25 4152134.00 0.02622
565614.25 4152144.00 0.01987
565614.25 4152154.00 0.01567
565614.25 4152164.00 0.01298
565614.25 4152174.00 0.01111
565614.25 4152184.00 0.00968
565614.25 4152194.00 0.00859
565614.25 4152204.00 0.00770
565614.25 4152214.00 0.00694
565614.25 4152224.00 0.00628
565614.25 4152234.00 0.00571
565614.25 4152244.00 0.00521
565614.25 4152254.00 0.00477
565614.25 4152264.00 0.00439
565614.25 4152274.00 0.00406

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565614.25	4152284.00	0.00376	565624.25	4152094.00	0.06726
565624.25	4152104.00	0.05577	565624.25	4152114.00	0.04432
565624.25	4152124.00	0.03292	565624.25	4152134.00	0.02509
565624.25	4152144.00	0.01929	565624.25	4152154.00	0.01509
565624.25	4152164.00	0.01232	565624.25	4152174.00	0.01036
565624.25	4152184.00	0.00896	565624.25	4152194.00	0.00799
565624.25	4152204.00	0.00724	565624.25	4152214.00	0.00657
565624.25	4152224.00	0.00598	565624.25	4152234.00	0.00546
565624.25	4152244.00	0.00500	565624.25	4152254.00	0.00461
565624.25	4152264.00	0.00425	565624.25	4152274.00	0.00394
565624.25	4152284.00	0.00366	565634.25	4152094.00	0.06053
565634.25	4152104.00	0.05045	565634.25	4152114.00	0.04052
565634.25	4152124.00	0.03043	565634.25	4152134.00	0.02353
565634.25	4152144.00	0.01835	565634.25	4152154.00	0.01449

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         565634.25    4152164.00        0.01175
565634.25    4152174.00        0.00980
         565634.25    4152184.00        0.00843
565634.25    4152194.00        0.00752
         565634.25    4152204.00        0.00683
565634.25    4152214.00        0.00621
         565634.25    4152224.00        0.00566
565634.25    4152234.00        0.00519
         565634.25    4152244.00        0.00478
565634.25    4152254.00        0.00442
         565634.25    4152264.00        0.00410
565634.25    4152274.00        0.00381
         565634.25    4152284.00        0.00355
565644.25    4152094.00        0.05342
         565644.25    4152104.00        0.04482
565644.25    4152114.00        0.03650
         565644.25    4152124.00        0.02811
565644.25    4152134.00        0.02200
         565644.25    4152144.00        0.01732
565644.25    4152154.00        0.01380
         565644.25    4152164.00        0.01122
565644.25    4152174.00        0.00938
         565644.25    4152184.00        0.00808
565644.25    4152194.00        0.00716
         565644.25    4152204.00        0.00645
565644.25    4152214.00        0.00585
         565644.25    4152224.00        0.00535
565644.25    4152234.00        0.00492
         565644.25    4152244.00        0.00455
565644.25    4152254.00        0.00422
         565644.25    4152264.00        0.00393
565644.25    4152274.00        0.00366
         565644.25    4152284.00        0.00343
565654.25    4152094.00        0.04704
         565654.25    4152104.00        0.03977
565654.25    4152114.00        0.03283
         565654.25    4152124.00        0.02585
565654.25    4152134.00        0.02049
         565654.25    4152144.00        0.01631
565654.25    4152154.00        0.01309
         565654.25    4152164.00        0.01073
565654.25    4152174.00        0.00902
         565654.25    4152184.00        0.00777
565654.25    4152194.00        0.00682
         565654.25    4152204.00        0.00610
565654.25    4152214.00        0.00552
         565654.25    4152224.00        0.00505
565654.25    4152234.00        0.00466
         565654.25    4152244.00        0.00432
565654.25    4152254.00        0.00402
         565654.25    4152264.00        0.00375
565654.25    4152274.00        0.00351
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565654.25	4152284.00	0.00329	565664.25	4152094.00	0.04090
565664.25	4152104.00	0.03502	565664.25	4152114.00	0.02946
565664.25	4152124.00	0.02412	565664.25	4152134.00	0.01935
565664.25	4152144.00	0.01559	565664.25	4152154.00	0.01262
565664.25	4152164.00	0.01039	565664.25	4152174.00	0.00870
565664.25	4152184.00	0.00744	565664.25	4152194.00	0.00651
565664.25	4152204.00	0.00579	565664.25	4152214.00	0.00523
565664.25	4152224.00	0.00478	565664.25	4152234.00	0.00441
565664.25	4152244.00	0.00409	565664.25	4152254.00	0.00382
565664.25	4152264.00	0.00358	565664.25	4152274.00	0.00336
565664.25	4152284.00	0.00316	565674.25	4152094.00	0.03566
565674.25	4152104.00	0.03100	565674.25	4152114.00	0.02650
565674.25	4152124.00	0.02225	565674.25	4152134.00	0.01821
565674.25	4152144.00	0.01484	565674.25	4152154.00	0.01213

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         565674.25    4152164.00        0.01001
565674.25    4152174.00        0.00839
         565674.25    4152184.00        0.00716
565674.25    4152194.00        0.00623
         565674.25    4152204.00        0.00552
565674.25    4152214.00        0.00497
         565674.25    4152224.00        0.00453
565674.25    4152234.00        0.00418
         565674.25    4152244.00        0.00388
565674.25    4152254.00        0.00363
         565674.25    4152264.00        0.00340
565674.25    4152274.00        0.00317
         565674.25    4152284.00        0.00299
565684.25    4152094.00        0.03147
         565684.25    4152104.00        0.02766
565684.25    4152114.00        0.02394
         565684.25    4152124.00        0.02038
565684.25    4152134.00        0.01697
         565684.25    4152144.00        0.01403
565684.25    4152154.00        0.01159
         565684.25    4152164.00        0.00963
565684.25    4152174.00        0.00810
         565684.25    4152184.00        0.00690
565684.25    4152194.00        0.00599
         565684.25    4152204.00        0.00529
565684.25    4152214.00        0.00475
         565684.25    4152224.00        0.00432
565684.25    4152234.00        0.00397
         565684.25    4152244.00        0.00369
565684.25    4152254.00        0.00345
         565684.25    4152264.00        0.00323
565684.25    4152274.00        0.00302
         565684.25    4152284.00        0.00285
565694.25    4152094.00        0.02685
         565694.25    4152104.00        0.02488
565694.25    4152114.00        0.02170
         565694.25    4152124.00        0.01864
565694.25    4152134.00        0.01574
         565694.25    4152144.00        0.01320
565694.25    4152154.00        0.01108
         565694.25    4152164.00        0.00928
565694.25    4152174.00        0.00782
         565694.25    4152184.00        0.00668
565694.25    4152194.00        0.00579
         565694.25    4152204.00        0.00510
565694.25    4152214.00        0.00456
         565694.25    4152224.00        0.00414
565694.25    4152234.00        0.00380
         565694.25    4152244.00        0.00351
565694.25    4152254.00        0.00328
         565694.25    4152264.00        0.00307
565694.25    4152274.00        0.00289
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565694.25	4152284.00	0.00273	565704.25	4152094.00	0.02414
565704.25	4152104.00	0.02146	565704.25	4152114.00	0.01975
565704.25	4152124.00	0.01711	565704.25	4152134.00	0.01465
565704.25	4152144.00	0.01246	565704.25	4152154.00	0.01058
565704.25	4152164.00	0.00894	565704.25	4152174.00	0.00757
565704.25	4152184.00	0.00648	565704.25	4152194.00	0.00562
565704.25	4152204.00	0.00494	565704.25	4152214.00	0.00441
565704.25	4152224.00	0.00399	565704.25	4152234.00	0.00364
565704.25	4152244.00	0.00336	565704.25	4152254.00	0.00312
565704.25	4152264.00	0.00293	565704.25	4152274.00	0.00276
565704.25	4152284.00	0.00261	565714.25	4152094.00	0.02378
565714.25	4152104.00	0.02114	565714.25	4152114.00	0.01863
565714.25	4152124.00	0.01623	565714.25	4152134.00	0.01395
565714.25	4152144.00	0.01191	565714.25	4152154.00	0.01014

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         565714.25    4152164.00        0.00862
565714.25    4152174.00        0.00735
         565714.25    4152184.00        0.00631
565714.25    4152194.00        0.00548
         565714.25    4152204.00        0.00482
565714.25    4152214.00        0.00429
         565714.25    4152224.00        0.00386
565714.25    4152234.00        0.00351
         565714.25    4152244.00        0.00321
565714.25    4152254.00        0.00298
         565714.25    4152264.00        0.00279
565714.25    4152274.00        0.00263
         565714.25    4152284.00        0.00248
565724.25    4152094.00        0.02223
         565724.25    4152104.00        0.01983
565724.25    4152114.00        0.01757
         565724.25    4152124.00        0.01539
565724.25    4152134.00        0.01329
         565724.25    4152144.00        0.01139
565724.25    4152154.00        0.00974
         565724.25    4152164.00        0.00833
565724.25    4152174.00        0.00714
         565724.25    4152184.00        0.00616
565724.25    4152194.00        0.00536
         565724.25    4152204.00        0.00471
565724.25    4152214.00        0.00418
         565724.25    4152224.00        0.00374
565724.25    4152234.00        0.00338
         565724.25    4152244.00        0.00308
565724.25    4152254.00        0.00285
         565724.25    4152264.00        0.00266
565724.25    4152274.00        0.00250
         565724.25    4152284.00        0.00237
565734.25    4152094.00        0.02080
         565734.25    4152104.00        0.01860
565734.25    4152114.00        0.01652
         565734.25    4152124.00        0.01452
565734.25    4152134.00        0.01262
         565734.25    4152144.00        0.01089
565734.25    4152154.00        0.00936
         565734.25    4152164.00        0.00805
565734.25    4152174.00        0.00693
         565734.25    4152184.00        0.00599
565734.25    4152194.00        0.00522
         565734.25    4152204.00        0.00460
565734.25    4152214.00        0.00408
         565734.25    4152224.00        0.00365
565734.25    4152234.00        0.00329
         565734.25    4152244.00        0.00299
565734.25    4152254.00        0.00275
         565734.25    4152264.00        0.00256
565734.25    4152274.00        0.00241
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565734.25	4152284.00	0.00227	565744.25	4152094.00	0.01944
565744.25	4152104.00	0.01744	565744.25	4152114.00	0.01551
565744.25	4152124.00	0.01369	565744.25	4152134.00	0.01197
565744.25	4152144.00	0.01040	565744.25	4152154.00	0.00902
565744.25	4152164.00	0.00778	565744.25	4152174.00	0.00672
565744.25	4152184.00	0.00581	565744.25	4152194.00	0.00507
565744.25	4152204.00	0.00448	565744.25	4152214.00	0.00398
565744.25	4152224.00	0.00357	565744.25	4152234.00	0.00322
565744.25	4152244.00	0.00292	565744.25	4152254.00	0.00268
565744.25	4152264.00	0.00249	565744.25	4152274.00	0.00232
565744.25	4152284.00	0.00218	565754.25	4152094.00	0.01813
565754.25	4152104.00	0.01634	565754.25	4152114.00	0.01458
565754.25	4152124.00	0.01291	565754.25	4152134.00	0.01136
565754.25	4152144.00	0.00995	565754.25	4152154.00	0.00868

565754.25 4152164.00 0.00753
565754.25 4152174.00 0.00651
565754.25 4152184.00 0.00564
565754.25 4152194.00 0.00493
565754.25 4152204.00 0.00436
565754.25 4152214.00 0.00388
565754.25 4152224.00 0.00348
565754.25 4152234.00 0.00315
565754.25 4152244.00 0.00287
565754.25 4152254.00 0.00262
565754.25 4152264.00 0.00242
565754.25 4152274.00 0.00225
565754.25 4152284.00 0.00211
565764.25 4152094.00 0.01680
565764.25 4152104.00 0.01523
565764.25 4152114.00 0.01368
565764.25 4152124.00 0.01219
565764.25 4152134.00 0.01079
565764.25 4152144.00 0.00950
565764.25 4152154.00 0.00833
565764.25 4152164.00 0.00725
565764.25 4152174.00 0.00628
565764.25 4152184.00 0.00544
565764.25 4152194.00 0.00476
565764.25 4152204.00 0.00422
565764.25 4152214.00 0.00376
565764.25 4152224.00 0.00338
565764.25 4152234.00 0.00306
565764.25 4152244.00 0.00279
565764.25 4152254.00 0.00256
565764.25 4152264.00 0.00235
565764.25 4152274.00 0.00218
565764.25 4152284.00 0.00204
565574.25 4151994.00 0.11458
565574.25 4151984.00 0.10920
565574.25 4151974.00 0.10078
565574.25 4151964.00 0.08891
565574.25 4151954.00 0.07585
565574.25 4151944.00 0.06391
565574.25 4151934.00 0.05397
565574.25 4151924.00 0.04596
565574.25 4151914.00 0.03952
565574.25 4151904.00 0.03431
565574.25 4151894.00 0.03005
565574.25 4151884.00 0.02653
565574.25 4151874.00 0.02357
565574.25 4151864.00 0.02108
565574.25 4151854.00 0.01897
565574.25 4151844.00 0.01715
565574.25 4151834.00 0.01558
565574.25 4151824.00 0.01421
565574.25 4151814.00 0.01302

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565574.25	4151804.00	0.01198	565574.25	4151794.00	0.01106
565574.25	4151784.00	0.01023	565584.25	4151984.00	0.11239
565584.25	4151974.00	0.10460	565584.25	4151964.00	0.09332
565584.25	4151954.00	0.07956	565584.25	4151944.00	0.06652
565584.25	4151934.00	0.05574	565584.25	4151924.00	0.04717
565584.25	4151914.00	0.04037	565584.25	4151904.00	0.03492
565584.25	4151894.00	0.03050	565584.25	4151884.00	0.02683
565584.25	4151874.00	0.02379	565584.25	4151864.00	0.02125
565584.25	4151854.00	0.01910	565584.25	4151844.00	0.01726
565584.25	4151834.00	0.01569	565584.25	4151824.00	0.01432
565584.25	4151814.00	0.01312	565584.25	4151804.00	0.01205
565584.25	4151794.00	0.01111	565584.25	4151784.00	0.01027
565594.25	4151984.00	0.11319	565594.25	4151974.00	0.10499
565594.25	4151964.00	0.09340	565594.25	4151954.00	0.07964

565594.25 4151944.00 0.06656
565594.25 4151934.00 0.05573
565594.25 4151924.00 0.04714
565594.25 4151914.00 0.04034
565594.25 4151904.00 0.03489
565594.25 4151894.00 0.03048
565594.25 4151884.00 0.02685
565594.25 4151874.00 0.02382
565594.25 4151864.00 0.02127
565594.25 4151854.00 0.01911
565594.25 4151844.00 0.01727
565594.25 4151834.00 0.01570
565594.25 4151824.00 0.01433
565594.25 4151814.00 0.01313
565594.25 4151804.00 0.01205
565594.25 4151794.00 0.01110
565594.25 4151784.00 0.01026
565604.25 4152084.00 0.07745
565604.25 4151994.00 0.11845
565604.25 4151984.00 0.11202
565604.25 4151974.00 0.10268
565604.25 4151964.00 0.09026
565604.25 4151954.00 0.07663
565604.25 4151944.00 0.06425
565604.25 4151934.00 0.05412
565604.25 4151924.00 0.04604
565604.25 4151914.00 0.03957
565604.25 4151904.00 0.03433
565604.25 4151894.00 0.03006
565604.25 4151884.00 0.02653
565604.25 4151874.00 0.02358
565604.25 4151864.00 0.02110
565604.25 4151854.00 0.01896
565604.25 4151844.00 0.01715
565604.25 4151834.00 0.01561
565604.25 4151824.00 0.01426
565604.25 4151814.00 0.01307
565604.25 4151804.00 0.01200
565604.25 4151794.00 0.01105
565604.25 4151784.00 0.01021
565614.25 4152084.00 0.08127
565614.25 4152074.00 0.09138
565614.25 4152064.00 0.10016
565614.25 4152004.00 0.12057
565614.25 4151994.00 0.11683
565614.25 4151984.00 0.10961
565614.25 4151974.00 0.09835
565614.25 4151964.00 0.08509
565614.25 4151954.00 0.07221
565614.25 4151944.00 0.06099
565614.25 4151934.00 0.05180
565614.25 4151924.00 0.04437

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565614.25	4151914.00	0.03833	565614.25	4151904.00	0.03340
565614.25	4151894.00	0.02935	565614.25	4151884.00	0.02598
565614.25	4151874.00	0.02316	565614.25	4151864.00	0.02076
565614.25	4151854.00	0.01872	565614.25	4151844.00	0.01696
565614.25	4151834.00	0.01544	565614.25	4151824.00	0.01411
565614.25	4151814.00	0.01294	565614.25	4151804.00	0.01189
565614.25	4151794.00	0.01096	565614.25	4151784.00	0.01014
565624.25	4152084.00	0.07861	565624.25	4152074.00	0.08886
565624.25	4152064.00	0.09762	565624.25	4152054.00	0.10472
565624.25	4152044.00	0.10991	565624.25	4152034.00	0.11340
565624.25	4152024.00	0.11645	565624.25	4152014.00	0.11792
565624.25	4152004.00	0.11731	565624.25	4151994.00	0.11290
565624.25	4151984.00	0.10391	565624.25	4151974.00	0.09153
565624.25	4151964.00	0.07883	565624.25	4151954.00	0.06731

565624.25 4151944.00 0.05745
565624.25 4151934.00 0.04914
565624.25 4151924.00 0.04236
565624.25 4151914.00 0.03682
565624.25 4151904.00 0.03226
565624.25 4151894.00 0.02847
565624.25 4151884.00 0.02529
565624.25 4151874.00 0.02261
565624.25 4151864.00 0.02033
565624.25 4151854.00 0.01837
565624.25 4151844.00 0.01668
565624.25 4151834.00 0.01520
565624.25 4151824.00 0.01390
565624.25 4151814.00 0.01275
565624.25 4151804.00 0.01174
565624.25 4151794.00 0.01084
565624.25 4151784.00 0.01005
565634.25 4152084.00 0.07136
565634.25 4152074.00 0.08175
565634.25 4152064.00 0.09117
565634.25 4152054.00 0.09920
565634.25 4152044.00 0.10544
565634.25 4152034.00 0.10958
565634.25 4152024.00 0.11248
565634.25 4152014.00 0.11345
565634.25 4152004.00 0.11128
565634.25 4151994.00 0.10500
565634.25 4151984.00 0.09507
565634.25 4151974.00 0.08344
565634.25 4151964.00 0.07235
565634.25 4151954.00 0.06244
565634.25 4151944.00 0.05375
565634.25 4151934.00 0.04639
565634.25 4151924.00 0.04029
565634.25 4151914.00 0.03524
565634.25 4151904.00 0.03104
565634.25 4151894.00 0.02751
565634.25 4151884.00 0.02451
565634.25 4151874.00 0.02198
565634.25 4151864.00 0.01983
565634.25 4151854.00 0.01797
565634.25 4151844.00 0.01635
565634.25 4151834.00 0.01493
565634.25 4151824.00 0.01366
565634.25 4151814.00 0.01255
565634.25 4151804.00 0.01157
565634.25 4151794.00 0.01071
565634.25 4151784.00 0.00994
565644.25 4152084.00 0.06282
565644.25 4152074.00 0.07217
565644.25 4152064.00 0.08108
565644.25 4152054.00 0.08951

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565644.25	4152044.00	0.09664	565644.25	4152034.00	0.10201
565644.25	4152024.00	0.10495	565644.25	4152014.00	0.10491
565644.25	4152004.00	0.10129	565644.25	4151994.00	0.09450
565644.25	4151984.00	0.08552	565644.25	4151974.00	0.07573
565644.25	4151964.00	0.06639	565644.25	4151954.00	0.05781
565644.25	4151944.00	0.05021	565644.25	4151934.00	0.04374
565644.25	4151924.00	0.03828	565644.25	4151914.00	0.03369
565644.25	4151904.00	0.02982	565644.25	4151894.00	0.02655
565644.25	4151884.00	0.02375	565644.25	4151874.00	0.02137
565644.25	4151864.00	0.01932	565644.25	4151854.00	0.01755
565644.25	4151844.00	0.01600	565644.25	4151834.00	0.01463
565644.25	4151824.00	0.01341	565644.25	4151814.00	0.01234
565644.25	4151804.00	0.01141	565644.25	4151794.00	0.01059
565644.25	4151784.00	0.00984	565654.25	4152084.00	0.05495

565654.25 4152074.00 0.06289
565654.25 4152064.00 0.07060
565654.25 4152054.00 0.07804
565654.25 4152044.00 0.08458
565654.25 4152034.00 0.08959
565654.25 4152024.00 0.09246
565654.25 4152014.00 0.09234
565654.25 4152004.00 0.08917
565654.25 4151994.00 0.08351
565654.25 4151984.00 0.07629
565654.25 4151974.00 0.06845
565654.25 4151964.00 0.06069
565654.25 4151954.00 0.05338
565654.25 4151944.00 0.04686
565654.25 4151934.00 0.04121
565654.25 4151924.00 0.03636
565654.25 4151914.00 0.03220
565654.25 4151904.00 0.02865
565654.25 4151894.00 0.02561
565654.25 4151884.00 0.02300
565654.25 4151874.00 0.02076
565654.25 4151864.00 0.01881
565654.25 4151854.00 0.01712
565654.25 4151844.00 0.01564
565654.25 4151834.00 0.01432
565654.25 4151824.00 0.01315
565654.25 4151814.00 0.01213
565654.25 4151804.00 0.01124
565654.25 4151794.00 0.01045
565654.25 4151784.00 0.00972
565664.25 4152084.00 0.04759
565664.25 4152074.00 0.05435
565664.25 4152064.00 0.06099
565664.25 4152054.00 0.06747
565664.25 4152044.00 0.07318
565664.25 4152034.00 0.07754
565664.25 4152024.00 0.08007
565664.25 4152014.00 0.08018
565664.25 4152004.00 0.07788
565664.25 4151994.00 0.07365
565664.25 4151984.00 0.06813
565664.25 4151974.00 0.06178
565664.25 4151964.00 0.05533
565664.25 4151954.00 0.04926
565664.25 4151944.00 0.04374
565664.25 4151934.00 0.03883
565664.25 4151924.00 0.03452
565664.25 4151914.00 0.03077
565664.25 4151904.00 0.02752
565664.25 4151894.00 0.02471
565664.25 4151884.00 0.02227
565664.25 4151874.00 0.02016

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565664.25	4151864.00	0.01831	565664.25	4151854.00	0.01670
565664.25	4151844.00	0.01529	565664.25	4151834.00	0.01404
565664.25	4151824.00	0.01292	565664.25	4151814.00	0.01194
565664.25	4151804.00	0.01107	565664.25	4151794.00	0.01029
565664.25	4151784.00	0.00958	565674.25	4152084.00	0.04133
565674.25	4152074.00	0.04711	565674.25	4152064.00	0.05279
565674.25	4152054.00	0.05839	565674.25	4152044.00	0.06330
565674.25	4152034.00	0.06707	565674.25	4152024.00	0.06928
565674.25	4152014.00	0.06959	565674.25	4152004.00	0.06802
565674.25	4151994.00	0.06497	565674.25	4151984.00	0.06068
565674.25	4151974.00	0.05525	565674.25	4151964.00	0.05025
565674.25	4151954.00	0.04544	565674.25	4151944.00	0.04078
565674.25	4151934.00	0.03655	565674.25	4151924.00	0.03276
565674.25	4151914.00	0.02940	565674.25	4151904.00	0.02644

565674.25 4151894.00 0.02384
565674.25 4151884.00 0.02157
565674.25 4151874.00 0.01958
565674.25 4151864.00 0.01784
565674.25 4151854.00 0.01630
565674.25 4151844.00 0.01495
565674.25 4151834.00 0.01375
565674.25 4151824.00 0.01268
565674.25 4151814.00 0.01173
565674.25 4151804.00 0.01088
565674.25 4151794.00 0.01012
565674.25 4151784.00 0.00943
565684.25 4152084.00 0.03634
565684.25 4152074.00 0.04129
565684.25 4152064.00 0.04616
565684.25 4152054.00 0.05100
565684.25 4152044.00 0.05524
565684.25 4152034.00 0.05850
565684.25 4152024.00 0.06032
565684.25 4152014.00 0.06068
565684.25 4152004.00 0.05960
565684.25 4151994.00 0.05740
565684.25 4151984.00 0.05408
565684.25 4151974.00 0.04938
565684.25 4151964.00 0.04557
565684.25 4151954.00 0.04190
565684.25 4151944.00 0.03799
565684.25 4151934.00 0.03437
565684.25 4151924.00 0.03105
565684.25 4151914.00 0.02806
565684.25 4151904.00 0.02538
565684.25 4151894.00 0.02300
565684.25 4151884.00 0.02089
565684.25 4151874.00 0.01903
565684.25 4151864.00 0.01738
565684.25 4151854.00 0.01591
565684.25 4151844.00 0.01462
565684.25 4151834.00 0.01347
565684.25 4151824.00 0.01244
565684.25 4151814.00 0.01152
565684.25 4151804.00 0.01070
565684.25 4151794.00 0.00996
565684.25 4151784.00 0.00929
565694.25 4152084.00 0.03240
565694.25 4152074.00 0.03667
565694.25 4152064.00 0.04086
565694.25 4152054.00 0.04509
565694.25 4152044.00 0.04876
565694.25 4152034.00 0.05158
565694.25 4152024.00 0.05300
565694.25 4152014.00 0.05328
565694.25 4152004.00 0.05246

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565694.25	4151994.00	0.05085	565694.25	4151984.00	0.04835
565694.25	4151974.00	0.04467	565694.25	4151964.00	0.04157
565694.25	4151954.00	0.03854	565694.25	4151944.00	0.03537
565694.25	4151934.00	0.03228	565694.25	4151924.00	0.02940
565694.25	4151914.00	0.02675	565694.25	4151904.00	0.02435
565694.25	4151894.00	0.02217	565694.25	4151884.00	0.02023
565694.25	4151874.00	0.01848	565694.25	4151864.00	0.01693
565694.25	4151854.00	0.01554	565694.25	4151844.00	0.01431
565694.25	4151834.00	0.01320	565694.25	4151824.00	0.01221
565694.25	4151814.00	0.01132	565694.25	4151804.00	0.01053
565694.25	4151794.00	0.00981	565694.25	4151784.00	0.00916
565704.25	4152084.00	0.02775	565704.25	4152074.00	0.03275
565704.25	4152064.00	0.03639	565704.25	4152054.00	0.04008
565704.25	4152044.00	0.04326	565704.25	4152034.00	0.04569

565704.25 4152024.00 0.04682
565704.25 4152014.00 0.04706
565704.25 4152004.00 0.04644
565704.25 4151994.00 0.04527
565704.25 4151984.00 0.04337
565704.25 4151974.00 0.04049
565704.25 4151964.00 0.03796
565704.25 4151954.00 0.03544
565704.25 4151944.00 0.03289
565704.25 4151934.00 0.03028
565704.25 4151924.00 0.02779
565704.25 4151914.00 0.02547
565704.25 4151904.00 0.02332
565704.25 4151894.00 0.02135
565704.25 4151884.00 0.01956
565704.25 4151874.00 0.01795
565704.25 4151864.00 0.01649
565704.25 4151854.00 0.01518
565704.25 4151844.00 0.01400
565704.25 4151834.00 0.01294
565704.25 4151824.00 0.01199
565704.25 4151814.00 0.01113
565704.25 4151804.00 0.01036
565704.25 4151794.00 0.00966
565704.25 4151784.00 0.00903
565714.25 4152084.00 0.02713
565714.25 4152074.00 0.03049
565714.25 4152064.00 0.03370
565714.25 4152054.00 0.03656
565714.25 4152044.00 0.03898
565714.25 4152034.00 0.04081
565714.25 4152024.00 0.04175
565714.25 4152014.00 0.04198
565714.25 4152004.00 0.04152
565714.25 4151994.00 0.04059
565714.25 4151984.00 0.03901
565714.25 4151974.00 0.03673
565714.25 4151964.00 0.03475
565714.25 4151954.00 0.03271
565714.25 4151944.00 0.03059
565714.25 4151934.00 0.02837
565714.25 4151924.00 0.02624
565714.25 4151914.00 0.02421
565714.25 4151904.00 0.02230
565714.25 4151894.00 0.02053
565714.25 4151884.00 0.01890
565714.25 4151874.00 0.01741
565714.25 4151864.00 0.01605
565714.25 4151854.00 0.01482
565714.25 4151844.00 0.01370
565714.25 4151834.00 0.01269
565714.25 4151824.00 0.01177

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565714.25	4151814.00	0.01095	565714.25	4151804.00	0.01019
565714.25	4151794.00	0.00951	565714.25	4151784.00	0.00889
565724.25	4152084.00	0.02525	565724.25	4152074.00	0.02820
565724.25	4152064.00	0.03094	565724.25	4152054.00	0.03321
565724.25	4152044.00	0.03507	565724.25	4152034.00	0.03632
565724.25	4152024.00	0.03728	565724.25	4152014.00	0.03755
565724.25	4152004.00	0.03726	565724.25	4151994.00	0.03649
565724.25	4151984.00	0.03512	565724.25	4151974.00	0.03341
565724.25	4151964.00	0.03185	565724.25	4151954.00	0.03020
565724.25	4151944.00	0.02843	565724.25	4151934.00	0.02657
565724.25	4151924.00	0.02474	565724.25	4151914.00	0.02297
565724.25	4151904.00	0.02129	565724.25	4151894.00	0.01971
565724.25	4151884.00	0.01823	565724.25	4151874.00	0.01687
565724.25	4151864.00	0.01561	565724.25	4151854.00	0.01445

565724.25 4151844.00 0.01340
565724.25 4151834.00 0.01244
565724.25 4151824.00 0.01156
565724.25 4151814.00 0.01076
565724.25 4151804.00 0.01003
565724.25 4151794.00 0.00937
565724.25 4151784.00 0.00877
565734.25 4152084.00 0.02336
565734.25 4152074.00 0.02584
565734.25 4152064.00 0.02794
565734.25 4152054.00 0.02974
565734.25 4152044.00 0.03121
565734.25 4152034.00 0.03229
565734.25 4152024.00 0.03316
565734.25 4152014.00 0.03358
565734.25 4152004.00 0.03352
565734.25 4151994.00 0.03285
565734.25 4151984.00 0.03180
565734.25 4151974.00 0.03049
565734.25 4151964.00 0.02925
565734.25 4151954.00 0.02791
565734.25 4151944.00 0.02644
565734.25 4151934.00 0.02486
565734.25 4151924.00 0.02330
565734.25 4151914.00 0.02177
565734.25 4151904.00 0.02030
565734.25 4151894.00 0.01889
565734.25 4151884.00 0.01756
565734.25 4151874.00 0.01632
565734.25 4151864.00 0.01516
565734.25 4151854.00 0.01408
565734.25 4151844.00 0.01309
565734.25 4151834.00 0.01218
565734.25 4151824.00 0.01135
565734.25 4151814.00 0.01058
565734.25 4151804.00 0.00987
565734.25 4151794.00 0.00923
565734.25 4151784.00 0.00865
565744.25 4152084.00 0.02157
565744.25 4152074.00 0.02362
565744.25 4152064.00 0.02540
565744.25 4152054.00 0.02694
565744.25 4152044.00 0.02820
565744.25 4152034.00 0.02913
565744.25 4152024.00 0.02990
565744.25 4152014.00 0.03028
565744.25 4152004.00 0.03030
565744.25 4151994.00 0.02978
565744.25 4151984.00 0.02896
565744.25 4151974.00 0.02792
565744.25 4151964.00 0.02691
565744.25 4151954.00 0.02581

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565744.25	4151944.00	0.02460	565744.25	4151934.00	0.02327
565744.25	4151924.00	0.02192	565744.25	4151914.00	0.02057
565744.25	4151904.00	0.01929	565744.25	4151894.00	0.01807
565744.25	4151884.00	0.01689	565744.25	4151874.00	0.01576
565744.25	4151864.00	0.01470	565744.25	4151854.00	0.01370
565744.25	4151844.00	0.01278	565744.25	4151834.00	0.01192
565744.25	4151824.00	0.01113	565744.25	4151814.00	0.01040
565744.25	4151804.00	0.00973	565744.25	4151794.00	0.00911
565744.25	4151784.00	0.00854	565754.25	4152084.00	0.01992
565754.25	4152074.00	0.02163	565754.25	4152064.00	0.02319
565754.25	4152054.00	0.02452	565754.25	4152044.00	0.02561
565754.25	4152034.00	0.02642	565754.25	4152024.00	0.02708
565754.25	4152014.00	0.02744	565754.25	4152004.00	0.02749
565754.25	4151994.00	0.02710	565754.25	4151984.00	0.02646

565754.25 4151974.00 0.02563
565754.25 4151964.00 0.02482
565754.25 4151954.00 0.02390
565754.25 4151944.00 0.02290
565754.25 4151934.00 0.02176
565754.25 4151924.00 0.02059
565754.25 4151914.00 0.01942
565754.25 4151904.00 0.01832
565754.25 4151894.00 0.01725
565754.25 4151884.00 0.01621
565754.25 4151874.00 0.01520
565754.25 4151864.00 0.01423
565754.25 4151854.00 0.01332
565754.25 4151844.00 0.01246
565754.25 4151834.00 0.01166
565754.25 4151824.00 0.01091
565754.25 4151814.00 0.01022
565754.25 4151804.00 0.00958
565754.25 4151794.00 0.00898
565754.25 4151784.00 0.00843
565764.25 4152084.00 0.01837
565764.25 4152074.00 0.01987
565764.25 4152064.00 0.02125
565764.25 4152054.00 0.02247
565764.25 4152044.00 0.02344
565764.25 4152034.00 0.02416
565764.25 4152024.00 0.02468
565764.25 4152014.00 0.02495
565764.25 4152004.00 0.02495
565764.25 4151994.00 0.02468
565764.25 4151984.00 0.02419
565764.25 4151974.00 0.02355
565764.25 4151964.00 0.02288
565764.25 4151954.00 0.02212
565764.25 4151944.00 0.02129
565764.25 4151934.00 0.02034
565764.25 4151924.00 0.01936
565764.25 4151914.00 0.01837
565764.25 4151904.00 0.01741
565764.25 4151894.00 0.01646
565764.25 4151884.00 0.01554
565764.25 4151874.00 0.01463
565764.25 4151864.00 0.01375
565764.25 4151854.00 0.01291
565764.25 4151844.00 0.01212
565764.25 4151834.00 0.01138
565764.25 4151824.00 0.01068
565764.25 4151814.00 0.01003
565764.25 4151804.00 0.00941
565764.25 4151794.00 0.00884
565764.25 4151784.00 0.00832
565564.25 4151974.00 0.09260

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565564.25	4151964.00	0.08089	565564.25	4151954.00	0.06942
565564.25	4151944.00	0.05922	565564.25	4151934.00	0.05064
565564.25	4151924.00	0.04361	565564.25	4151914.00	0.03783
565564.25	4151904.00	0.03306	565564.25	4151894.00	0.02911
565564.25	4151884.00	0.02581	565564.25	4151874.00	0.02302
565564.25	4151864.00	0.02066	565564.25	4151854.00	0.01864
565564.25	4151844.00	0.01689	565564.25	4151834.00	0.01535
565564.25	4151824.00	0.01400	565564.25	4151814.00	0.01283
565564.25	4151804.00	0.01183	565564.25	4151794.00	0.01094
565564.25	4151784.00	0.01014	565554.25	4151974.00	0.08172
565554.25	4151964.00	0.07129	565554.25	4151954.00	0.06178
565554.25	4151944.00	0.05343	565554.25	4151934.00	0.04635
565554.25	4151924.00	0.04042	565554.25	4151914.00	0.03544
565554.25	4151904.00	0.03126	565554.25	4151894.00	0.02772

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         565554.25    4151884.00        0.02472
565554.25    4151874.00        0.02217
         565554.25    4151864.00        0.01998
565554.25    4151854.00        0.01808
         565554.25    4151844.00        0.01644
565554.25    4151834.00        0.01497
         565554.25    4151824.00        0.01369
565554.25    4151814.00        0.01257
         565554.25    4151804.00        0.01161
565554.25    4151794.00        0.01075
         565554.25    4151784.00        0.00998
565544.25    4151974.00        0.07014
         565544.25    4151964.00        0.06157
565544.25    4151954.00        0.05398
         565544.25    4151944.00        0.04738
565544.25    4151934.00        0.04169
         565544.25    4151924.00        0.03681
565544.25    4151914.00        0.03264
         565544.25    4151904.00        0.02906
565544.25    4151894.00        0.02599
         565544.25    4151884.00        0.02335
565544.25    4151874.00        0.02106
         565544.25    4151864.00        0.01908
565544.25    4151854.00        0.01734
         565544.25    4151844.00        0.01581
565544.25    4151834.00        0.01446
         565544.25    4151824.00        0.01328
565544.25    4151814.00        0.01223
         565544.25    4151804.00        0.01130
565544.25    4151794.00        0.01048
         565544.25    4151784.00        0.00973
565534.25    4151974.00        0.05911
         565534.25    4151964.00        0.05242
565534.25    4151954.00        0.04653
         565534.25    4151944.00        0.04140
565534.25    4151934.00        0.03692
         565534.25    4151924.00        0.03301
565534.25    4151914.00        0.02960
         565534.25    4151904.00        0.02662
565534.25    4151894.00        0.02402
         565534.25    4151884.00        0.02175
565534.25    4151874.00        0.01976
         565534.25    4151864.00        0.01801
565534.25    4151854.00        0.01643
         565534.25    4151844.00        0.01505
565534.25    4151834.00        0.01384
         565534.25    4151824.00        0.01277
565534.25    4151814.00        0.01180
         565534.25    4151804.00        0.01092
565534.25    4151794.00        0.01014
         565534.25    4151784.00        0.00943
565524.25    4151974.00        0.04914
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565524.25	4151964.00	0.04413	565524.25	4151954.00	0.03969
565524.25	4151944.00	0.03577	565524.25	4151934.00	0.03231
565524.25	4151924.00	0.02923	565524.25	4151914.00	0.02650
565524.25	4151904.00	0.02408	565524.25	4151894.00	0.02193
565524.25	4151884.00	0.02002	565524.25	4151874.00	0.01832
565524.25	4151864.00	0.01681	565524.25	4151854.00	0.01543
565524.25	4151844.00	0.01421	565524.25	4151834.00	0.01312
565524.25	4151824.00	0.01215	565524.25	4151814.00	0.01127
565524.25	4151804.00	0.01047	565524.25	4151794.00	0.00975
565524.25	4151784.00	0.00910	565514.25	4151974.00	0.04040
565514.25	4151964.00	0.03679	565514.25	4151954.00	0.03355
565514.25	4151944.00	0.03062	565514.25	4151934.00	0.02800
565514.25	4151924.00	0.02563	565514.25	4151914.00	0.02349
565514.25	4151904.00	0.02155	565514.25	4151894.00	0.01981

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         565514.25    4151884.00        0.01824
565514.25    4151874.00        0.01682
         565514.25    4151864.00        0.01553
565514.25    4151854.00        0.01436
         565514.25    4151844.00        0.01330
565514.25    4151834.00        0.01233
         565514.25    4151824.00        0.01146
565514.25    4151814.00        0.01068
         565514.25    4151804.00        0.00996
565514.25    4151794.00        0.00931
         565514.25    4151784.00        0.00871
565504.25    4151974.00        0.03290
         565504.25    4151964.00        0.03042
565504.25    4151954.00        0.02813
         565504.25    4151944.00        0.02601
565504.25    4151934.00        0.02406
         565504.25    4151924.00        0.02227
565504.25    4151914.00        0.02063
         565504.25    4151904.00        0.01912
565504.25    4151894.00        0.01773
         565504.25    4151884.00        0.01646
565504.25    4151874.00        0.01529
         565504.25    4151864.00        0.01421
565504.25    4151854.00        0.01322
         565504.25    4151844.00        0.01232
565504.25    4151834.00        0.01149
         565504.25    4151824.00        0.01073
565504.25    4151814.00        0.01004
         565504.25    4151804.00        0.00941
565504.25    4151794.00        0.00882
         565504.25    4151784.00        0.00829
565494.25    4151974.00        0.02662
         565494.25    4151964.00        0.02499
565494.25    4151954.00        0.02343
         565494.25    4151944.00        0.02195
565494.25    4151934.00        0.02054
         565494.25    4151924.00        0.01923
565494.25    4151914.00        0.01798
         565494.25    4151904.00        0.01681
565494.25    4151894.00        0.01573
         565494.25    4151884.00        0.01471
565494.25    4151874.00        0.01377
         565494.25    4151864.00        0.01289
565494.25    4151854.00        0.01208
         565494.25    4151844.00        0.01132
565494.25    4151834.00        0.01062
         565494.25    4151824.00        0.00998
565494.25    4151814.00        0.00938
         565494.25    4151804.00        0.00883
565494.25    4151794.00        0.00831
         565494.25    4151784.00        0.00784
565484.25    4151974.00        0.02146
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565484.25	4151964.00	0.02045	565484.25	4151954.00	0.01943
565484.25	4151944.00	0.01843	565484.25	4151934.00	0.01745
565484.25	4151924.00	0.01649	565484.25	4151914.00	0.01555
565484.25	4151904.00	0.01467	565484.25	4151894.00	0.01385
565484.25	4151884.00	0.01307	565484.25	4151874.00	0.01232
565484.25	4151864.00	0.01162	565484.25	4151854.00	0.01095
565484.25	4151844.00	0.01033	565484.25	4151834.00	0.00976
565484.25	4151824.00	0.00921	565484.25	4151814.00	0.00871
565484.25	4151804.00	0.00822	565484.25	4151794.00	0.00778
565484.25	4151784.00	0.00736	565474.25	4151974.00	0.01731
565474.25	4151964.00	0.01672	565474.25	4151954.00	0.01609
565474.25	4151944.00	0.01544	565474.25	4151934.00	0.01478
565474.25	4151924.00	0.01410	565474.25	4151914.00	0.01343
565474.25	4151904.00	0.01279	565474.25	4151894.00	0.01216

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         565474.25    4151884.00        0.01156
565474.25    4151874.00        0.01098
         565474.25    4151864.00        0.01042
565474.25    4151854.00        0.00988
         565474.25    4151844.00        0.00938
565474.25    4151834.00        0.00890
         565474.25    4151824.00        0.00844
565474.25    4151814.00        0.00801
         565474.25    4151804.00        0.00761
565474.25    4151794.00        0.00723
         565474.25    4151784.00        0.00687
565464.25    4151974.00        0.01403
         565464.25    4151964.00        0.01370
565464.25    4151954.00        0.01333
         565464.25    4151944.00        0.01292
565464.25    4151934.00        0.01249
         565464.25    4151924.00        0.01203
565464.25    4151914.00        0.01158
         565464.25    4151904.00        0.01111
565464.25    4151894.00        0.01064
         565464.25    4151884.00        0.01018
565464.25    4151874.00        0.00973
         565464.25    4151864.00        0.00930
565464.25    4151854.00        0.00888
         565464.25    4151844.00        0.00847
565464.25    4151834.00        0.00807
         565464.25    4151824.00        0.00770
565464.25    4151814.00        0.00734
         565464.25    4151804.00        0.00700
565464.25    4151794.00        0.00668
         565464.25    4151784.00        0.00637
565454.25    4151974.00        0.01145
         565454.25    4151964.00        0.01129
565454.25    4151954.00        0.01108
         565454.25    4151944.00        0.01083
565454.25    4151934.00        0.01056
         565454.25    4151924.00        0.01026
565454.25    4151914.00        0.00995
         565454.25    4151904.00        0.00962
565454.25    4151894.00        0.00928
         565454.25    4151884.00        0.00894
565454.25    4151874.00        0.00860
         565454.25    4151864.00        0.00827
565454.25    4151854.00        0.00794
         565454.25    4151844.00        0.00762
565454.25    4151834.00        0.00730
         565454.25    4151824.00        0.00699
565454.25    4151814.00        0.00669
         565454.25    4151804.00        0.00642
565454.25    4151794.00        0.00615
         565454.25    4151784.00        0.00590
565444.25    4151974.00        0.00944
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565444.25	4151964.00	0.00938	565444.25	4151954.00	0.00927
565444.25	4151944.00	0.00912	565444.25	4151934.00	0.00895
565444.25	4151924.00	0.00876	565444.25	4151914.00	0.00855
565444.25	4151904.00	0.00833	565444.25	4151894.00	0.00809
565444.25	4151884.00	0.00784	565444.25	4151874.00	0.00759
565444.25	4151864.00	0.00734	565444.25	4151854.00	0.00709
565444.25	4151844.00	0.00683	565444.25	4151834.00	0.00657
565444.25	4151824.00	0.00632	565444.25	4151814.00	0.00608
565444.25	4151804.00	0.00586	565444.25	4151794.00	0.00565
565444.25	4151784.00	0.00544	565434.25	4151974.00	0.00787
565434.25	4151964.00	0.00786	565434.25	4151954.00	0.00781
565434.25	4151944.00	0.00773	565434.25	4151934.00	0.00762
565434.25	4151924.00	0.00750	565434.25	4151914.00	0.00737
565434.25	4151904.00	0.00722	565434.25	4151894.00	0.00705

565434.25 4151884.00 0.00688
565434.25 4151874.00 0.00670
565434.25 4151864.00 0.00651
565434.25 4151854.00 0.00631
565434.25 4151844.00 0.00612
565434.25 4151834.00 0.00591
565434.25 4151824.00 0.00571
565434.25 4151814.00 0.00551
565434.25 4151804.00 0.00534
565434.25 4151794.00 0.00517
565434.25 4151784.00 0.00500
565424.25 4151974.00 0.00663
565424.25 4151964.00 0.00665
565424.25 4151954.00 0.00663
565424.25 4151944.00 0.00659
565424.25 4151934.00 0.00653
565424.25 4151924.00 0.00646
565424.25 4151914.00 0.00637
565424.25 4151904.00 0.00628
565424.25 4151894.00 0.00617
565424.25 4151884.00 0.00604
565424.25 4151874.00 0.00591
565424.25 4151864.00 0.00577
565424.25 4151854.00 0.00562
565424.25 4151844.00 0.00547
565424.25 4151834.00 0.00531
565424.25 4151824.00 0.00515
565424.25 4151814.00 0.00499
565424.25 4151804.00 0.00485
565424.25 4151794.00 0.00471
565424.25 4151784.00 0.00457
565414.25 4151974.00 0.00565
565414.25 4151964.00 0.00568
565414.25 4151954.00 0.00568
565414.25 4151944.00 0.00566
565414.25 4151934.00 0.00563
565414.25 4151924.00 0.00559
565414.25 4151914.00 0.00554
565414.25 4151904.00 0.00547
565414.25 4151894.00 0.00540
565414.25 4151884.00 0.00532
565414.25 4151874.00 0.00523
565414.25 4151864.00 0.00512
565414.25 4151854.00 0.00501
565414.25 4151844.00 0.00489
565414.25 4151834.00 0.00477
565414.25 4151824.00 0.00464
565414.25 4151814.00 0.00452
565414.25 4151804.00 0.00440
565414.25 4151794.00 0.00428
565414.25 4151784.00 0.00417
565404.25 4151974.00 0.00486

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565404.25	4151964.00	0.00489	565404.25	4151954.00	0.00490
565404.25	4151944.00	0.00490	565404.25	4151934.00	0.00489
565404.25	4151924.00	0.00487	565404.25	4151914.00	0.00484
565404.25	4151904.00	0.00480	565404.25	4151894.00	0.00475
565404.25	4151884.00	0.00470	565404.25	4151874.00	0.00463
565404.25	4151864.00	0.00456	565404.25	4151854.00	0.00448
565404.25	4151844.00	0.00439	565404.25	4151834.00	0.00429
565404.25	4151824.00	0.00420	565404.25	4151814.00	0.00410
565404.25	4151804.00	0.00400	565404.25	4151794.00	0.00390
565404.25	4151784.00	0.00380	565394.25	4151974.00	0.00421
565394.25	4151964.00	0.00423	565394.25	4151954.00	0.00425
565394.25	4151944.00	0.00426	565394.25	4151934.00	0.00427
565394.25	4151924.00	0.00426	565394.25	4151914.00	0.00425
565394.25	4151904.00	0.00423	565394.25	4151894.00	0.00419

565394.25 4151884.00 0.00416
565394.25 4151874.00 0.00411
565394.25 4151864.00 0.00406
565394.25 4151854.00 0.00401
565394.25 4151844.00 0.00395
565394.25 4151834.00 0.00387
565394.25 4151824.00 0.00380
565394.25 4151814.00 0.00372
565394.25 4151804.00 0.00364
565394.25 4151794.00 0.00355
565394.25 4151784.00 0.00347
565384.25 4151974.00 0.00368
565384.25 4151964.00 0.00370
565384.25 4151954.00 0.00372
565384.25 4151944.00 0.00374
565384.25 4151934.00 0.00375
565384.25 4151924.00 0.00375
565384.25 4151914.00 0.00375
565384.25 4151904.00 0.00374
565384.25 4151894.00 0.00372
565384.25 4151884.00 0.00369
565384.25 4151874.00 0.00366
565384.25 4151864.00 0.00363
565384.25 4151854.00 0.00359
565384.25 4151844.00 0.00355
565384.25 4151834.00 0.00350
565384.25 4151824.00 0.00344
565384.25 4151814.00 0.00338
565384.25 4151804.00 0.00331
565384.25 4151794.00 0.00324
565384.25 4151784.00 0.00317
565374.25 4151974.00 0.00325
565374.25 4151964.00 0.00327
565374.25 4151954.00 0.00329
565374.25 4151944.00 0.00330
565374.25 4151934.00 0.00332
565374.25 4151924.00 0.00332
565374.25 4151914.00 0.00332
565374.25 4151904.00 0.00332
565374.25 4151894.00 0.00331
565374.25 4151884.00 0.00330
565374.25 4151874.00 0.00328
565374.25 4151864.00 0.00326
565374.25 4151854.00 0.00323
565374.25 4151844.00 0.00319
565374.25 4151834.00 0.00316
565374.25 4151824.00 0.00312
565374.25 4151814.00 0.00307
565374.25 4151804.00 0.00302
565374.25 4151794.00 0.00296
565374.25 4151784.00 0.00290
565364.25 4151974.00 0.00289

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565364.25	4151964.00	0.00290	565364.25	4151954.00	0.00292
565364.25	4151944.00	0.00294	565364.25	4151934.00	0.00295
565364.25	4151924.00	0.00296	565364.25	4151914.00	0.00296
565364.25	4151904.00	0.00296	565364.25	4151894.00	0.00296
565364.25	4151884.00	0.00296	565364.25	4151874.00	0.00295
565364.25	4151864.00	0.00293	565364.25	4151854.00	0.00291
565364.25	4151844.00	0.00288	565364.25	4151834.00	0.00286
565364.25	4151824.00	0.00283	565364.25	4151814.00	0.00280
565364.25	4151804.00	0.00275	565364.25	4151794.00	0.00271
565364.25	4151784.00	0.00266	565354.25	4151974.00	0.00259
565354.25	4151964.00	0.00260	565354.25	4151954.00	0.00261
565354.25	4151944.00	0.00262	565354.25	4151934.00	0.00264
565354.25	4151924.00	0.00265	565354.25	4151914.00	0.00265
565354.25	4151904.00	0.00266	565354.25	4151894.00	0.00266

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         565354.25    4151884.00        0.00266
565354.25    4151874.00        0.00266
         565354.25    4151864.00        0.00264
565354.25    4151854.00        0.00263
         565354.25    4151844.00        0.00261
565354.25    4151834.00        0.00259
         565354.25    4151824.00        0.00257
565354.25    4151814.00        0.00254
         565354.25    4151804.00        0.00251
565354.25    4151794.00        0.00248
         565354.25    4151784.00        0.00244
565344.25    4151974.00        0.00233
         565344.25    4151964.00        0.00234
565344.25    4151954.00        0.00235
         565344.25    4151944.00        0.00236
565344.25    4151934.00        0.00237
         565344.25    4151924.00        0.00238
565344.25    4151914.00        0.00239
         565344.25    4151904.00        0.00240
565344.25    4151894.00        0.00240
         565344.25    4151884.00        0.00240
565344.25    4151874.00        0.00240
         565344.25    4151864.00        0.00239
565344.25    4151854.00        0.00238
         565344.25    4151844.00        0.00237
565344.25    4151834.00        0.00235
         565344.25    4151824.00        0.00233
565344.25    4151814.00        0.00231
         565344.25    4151804.00        0.00229
565344.25    4151794.00        0.00227
         565344.25    4151784.00        0.00224
565334.25    4151974.00        0.00211
         565334.25    4151964.00        0.00212
565334.25    4151954.00        0.00213
         565334.25    4151944.00        0.00213
565334.25    4151934.00        0.00214
         565334.25    4151924.00        0.00215
565334.25    4151914.00        0.00216
         565334.25    4151904.00        0.00217
565334.25    4151894.00        0.00217
         565334.25    4151884.00        0.00217
565334.25    4151874.00        0.00217
         565334.25    4151864.00        0.00217
565334.25    4151854.00        0.00217
         565334.25    4151844.00        0.00216
565334.25    4151834.00        0.00215
         565334.25    4151824.00        0.00213
565334.25    4151814.00        0.00211
         565334.25    4151804.00        0.00210
565334.25    4151794.00        0.00208
         565334.25    4151784.00        0.00206
565324.25    4151974.00        0.00192
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565324.25	4151964.00	0.00193	565324.25	4151954.00	0.00193
565324.25	4151944.00	0.00194	565324.25	4151934.00	0.00194
565324.25	4151924.00	0.00195	565324.25	4151914.00	0.00196
565324.25	4151904.00	0.00196	565324.25	4151894.00	0.00197
565324.25	4151884.00	0.00197	565324.25	4151874.00	0.00198
565324.25	4151864.00	0.00198	565324.25	4151854.00	0.00197
565324.25	4151844.00	0.00197	565324.25	4151834.00	0.00196
565324.25	4151824.00	0.00195	565324.25	4151814.00	0.00194
565324.25	4151804.00	0.00193	565324.25	4151794.00	0.00191
565324.25	4151784.00	0.00190	565314.25	4151974.00	0.00175
565314.25	4151964.00	0.00176	565314.25	4151954.00	0.00176
565314.25	4151944.00	0.00177	565314.25	4151934.00	0.00177
565314.25	4151924.00	0.00178	565314.25	4151914.00	0.00178
565314.25	4151904.00	0.00178	565314.25	4151894.00	0.00179

565314.25 4151884.00 0.00180
565314.25 4151874.00 0.00180
565314.25 4151864.00 0.00181
565314.25 4151854.00 0.00180
565314.25 4151844.00 0.00180
565314.25 4151834.00 0.00180
565314.25 4151824.00 0.00179
565314.25 4151814.00 0.00178
565314.25 4151804.00 0.00177
565314.25 4151794.00 0.00176
565314.25 4151784.00 0.00175
565304.25 4151974.00 0.00161
565304.25 4151964.00 0.00161
565304.25 4151954.00 0.00161
565304.25 4151944.00 0.00162
565304.25 4151934.00 0.00162
565304.25 4151924.00 0.00162
565304.25 4151914.00 0.00163
565304.25 4151904.00 0.00163
565304.25 4151894.00 0.00164
565304.25 4151884.00 0.00164
565304.25 4151874.00 0.00165
565304.25 4151864.00 0.00165
565304.25 4151854.00 0.00165
565304.25 4151844.00 0.00165
565304.25 4151834.00 0.00165
565304.25 4151824.00 0.00165
565304.25 4151814.00 0.00164
565304.25 4151804.00 0.00163
565304.25 4151794.00 0.00162
565304.25 4151784.00 0.00161
565294.25 4151974.00 0.00148
565294.25 4151964.00 0.00148
565294.25 4151954.00 0.00149
565294.25 4151944.00 0.00149
565294.25 4151934.00 0.00149
565294.25 4151924.00 0.00149
565294.25 4151914.00 0.00150
565294.25 4151904.00 0.00150
565294.25 4151894.00 0.00150
565294.25 4151884.00 0.00151
565294.25 4151874.00 0.00151
565294.25 4151864.00 0.00151
565294.25 4151854.00 0.00152
565294.25 4151844.00 0.00152
565294.25 4151834.00 0.00152
565294.25 4151824.00 0.00152
565294.25 4151814.00 0.00151
565294.25 4151804.00 0.00151
565294.25 4151794.00 0.00150
565294.25 4151784.00 0.00149
565284.25 4151974.00 0.00137

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565284.25	4151964.00	0.00137	565284.25	4151954.00	0.00137
565284.25	4151944.00	0.00137	565284.25	4151934.00	0.00137
565284.25	4151924.00	0.00137	565284.25	4151914.00	0.00138
565284.25	4151904.00	0.00138	565284.25	4151894.00	0.00138
565284.25	4151884.00	0.00139	565284.25	4151874.00	0.00139
565284.25	4151864.00	0.00139	565284.25	4151854.00	0.00140
565284.25	4151844.00	0.00140	565284.25	4151834.00	0.00140
565284.25	4151824.00	0.00140	565284.25	4151814.00	0.00140
565284.25	4151804.00	0.00139	565284.25	4151794.00	0.00139
565284.25	4151784.00	0.00138	565274.25	4151974.00	0.00127
565274.25	4151964.00	0.00127	565274.25	4151954.00	0.00127
565274.25	4151944.00	0.00127	565274.25	4151934.00	0.00127
565274.25	4151924.00	0.00127	565274.25	4151914.00	0.00127
565274.25	4151904.00	0.00128	565274.25	4151894.00	0.00128

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         565274.25    4151884.00        0.00128
565274.25    4151874.00        0.00128
         565274.25    4151864.00        0.00129
565274.25    4151854.00        0.00129
         565274.25    4151844.00        0.00129
565274.25    4151834.00        0.00129
         565274.25    4151824.00        0.00129
565274.25    4151814.00        0.00129
         565274.25    4151804.00        0.00129
565274.25    4151794.00        0.00129
         565274.25    4151784.00        0.00129
565264.25    4151974.00        0.00117
         565264.25    4151964.00        0.00117
565264.25    4151954.00        0.00118
         565264.25    4151944.00        0.00118
565264.25    4151934.00        0.00118
         565264.25    4151924.00        0.00118
565264.25    4151914.00        0.00118
         565264.25    4151904.00        0.00118
565264.25    4151894.00        0.00118
         565264.25    4151884.00        0.00119
565264.25    4151874.00        0.00119
         565264.25    4151864.00        0.00119
565264.25    4151854.00        0.00119
         565264.25    4151844.00        0.00120
565264.25    4151834.00        0.00120
         565264.25    4151824.00        0.00120
565264.25    4151814.00        0.00120
         565264.25    4151804.00        0.00120
565264.25    4151794.00        0.00120
         565264.25    4151784.00        0.00120
565454.25    4151984.00        0.01155
         565454.25    4151994.00        0.01157
565454.25    4152004.00        0.01151
         565454.25    4152014.00        0.01137
565454.25    4152024.00        0.01115
         565454.25    4152034.00        0.01087
565454.25    4152044.00        0.01053
         565454.25    4152054.00        0.01017
565454.25    4152064.00        0.00981
         565454.25    4152074.00        0.00946
565454.25    4152084.00        0.00918
         565454.25    4152094.00        0.00900
565454.25    4152104.00        0.00890
         565454.25    4152114.00        0.00884
565454.25    4152124.00        0.00877
         565454.25    4152134.00        0.00867
565454.25    4152144.00        0.00851
         565454.25    4152154.00        0.00830
565454.25    4152164.00        0.00805
         565454.25    4152174.00        0.00776
565454.25    4152184.00        0.00743
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565454.25	4152194.00	0.00707	565454.25	4152204.00	0.00669
565454.25	4152214.00	0.00631	565454.25	4152224.00	0.00593
565454.25	4152234.00	0.00556	565454.25	4152244.00	0.00520
565454.25	4152254.00	0.00487	565454.25	4152264.00	0.00455
565454.25	4152274.00	0.00425	565454.25	4152284.00	0.00398
565444.25	4151984.00	0.00946	565444.25	4151994.00	0.00943
565444.25	4152004.00	0.00934	565444.25	4152014.00	0.00921
565444.25	4152024.00	0.00903	565444.25	4152034.00	0.00882
565444.25	4152044.00	0.00858	565444.25	4152054.00	0.00833
565444.25	4152064.00	0.00807	565444.25	4152074.00	0.00783
565444.25	4152084.00	0.00762	565444.25	4152094.00	0.00749
565444.25	4152104.00	0.00742	565444.25	4152114.00	0.00740
565444.25	4152124.00	0.00740	565444.25	4152134.00	0.00739
565444.25	4152144.00	0.00734	565444.25	4152154.00	0.00725

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         565444.25    4152164.00        0.00711
565444.25    4152174.00        0.00693
         565444.25    4152184.00        0.00671
565444.25    4152194.00        0.00646
         565444.25    4152204.00        0.00618
565444.25    4152214.00        0.00588
         565444.25    4152224.00        0.00557
565444.25    4152234.00        0.00527
         565444.25    4152244.00        0.00496
565444.25    4152254.00        0.00467
         565444.25    4152264.00        0.00439
565444.25    4152274.00        0.00412
         565444.25    4152284.00        0.00387
565434.25    4151984.00        0.00785
         565434.25    4151994.00        0.00780
565434.25    4152004.00        0.00771
         565434.25    4152014.00        0.00760
565434.25    4152024.00        0.00746
         565434.25    4152034.00        0.00730
565434.25    4152044.00        0.00713
         565434.25    4152054.00        0.00695
565434.25    4152064.00        0.00676
         565434.25    4152074.00        0.00658
565434.25    4152084.00        0.00643
         565434.25    4152094.00        0.00632
565434.25    4152104.00        0.00627
         565434.25    4152114.00        0.00627
565434.25    4152124.00        0.00629
         565434.25    4152134.00        0.00632
565434.25    4152144.00        0.00633
         565434.25    4152154.00        0.00631
565434.25    4152164.00        0.00626
         565434.25    4152174.00        0.00616
565434.25    4152184.00        0.00603
         565434.25    4152194.00        0.00586
565434.25    4152204.00        0.00567
         565434.25    4152214.00        0.00545
565434.25    4152224.00        0.00521
         565434.25    4152234.00        0.00496
565434.25    4152244.00        0.00471
         565434.25    4152254.00        0.00446
565434.25    4152264.00        0.00422
         565434.25    4152274.00        0.00398
565434.25    4152284.00        0.00375
         565424.25    4151984.00        0.00660
565424.25    4151994.00        0.00654
         565424.25    4152004.00        0.00647
565424.25    4152014.00        0.00638
         565424.25    4152024.00        0.00627
565424.25    4152034.00        0.00615
         565424.25    4152044.00        0.00602
565424.25    4152054.00        0.00589
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565424.25	4152064.00	0.00574	565424.25	4152074.00	0.00561
565424.25	4152084.00	0.00549	565424.25	4152094.00	0.00540
565424.25	4152104.00	0.00536	565424.25	4152114.00	0.00536
565424.25	4152124.00	0.00539	565424.25	4152134.00	0.00544
565424.25	4152144.00	0.00548	565424.25	4152154.00	0.00550
565424.25	4152164.00	0.00550	565424.25	4152174.00	0.00547
565424.25	4152184.00	0.00540	565424.25	4152194.00	0.00531
565424.25	4152204.00	0.00518	565424.25	4152214.00	0.00502
565424.25	4152224.00	0.00484	565424.25	4152234.00	0.00465
565424.25	4152244.00	0.00444	565424.25	4152254.00	0.00424
565424.25	4152264.00	0.00403	565424.25	4152274.00	0.00383
565424.25	4152284.00	0.00363	565414.25	4151984.00	0.00561
565414.25	4151994.00	0.00556	565414.25	4152004.00	0.00550
565414.25	4152014.00	0.00543	565414.25	4152024.00	0.00535

565414.25 4152034.00 0.00526
565414.25 4152044.00 0.00516
565414.25 4152054.00 0.00505
565414.25 4152064.00 0.00494
565414.25 4152074.00 0.00484
565414.25 4152084.00 0.00474
565414.25 4152094.00 0.00467
565414.25 4152104.00 0.00463
565414.25 4152114.00 0.00463
565414.25 4152124.00 0.00466
565414.25 4152134.00 0.00471
565414.25 4152144.00 0.00476
565414.25 4152154.00 0.00481
565414.25 4152164.00 0.00484
565414.25 4152174.00 0.00485
565414.25 4152184.00 0.00483
565414.25 4152194.00 0.00478
565414.25 4152204.00 0.00471
565414.25 4152214.00 0.00461
565414.25 4152224.00 0.00448
565414.25 4152234.00 0.00434
565414.25 4152244.00 0.00418
565414.25 4152254.00 0.00401
565414.25 4152264.00 0.00384
565414.25 4152274.00 0.00366
565414.25 4152284.00 0.00349
565404.25 4151984.00 0.00482
565404.25 4151994.00 0.00477
565404.25 4152004.00 0.00473
565404.25 4152014.00 0.00468
565404.25 4152024.00 0.00461
565404.25 4152034.00 0.00454
565404.25 4152044.00 0.00447
565404.25 4152054.00 0.00439
565404.25 4152064.00 0.00430
565404.25 4152074.00 0.00421
565404.25 4152084.00 0.00414
565404.25 4152094.00 0.00408
565404.25 4152104.00 0.00404
565404.25 4152114.00 0.00404
565404.25 4152124.00 0.00406
565404.25 4152134.00 0.00410
565404.25 4152144.00 0.00416
565404.25 4152154.00 0.00422
565404.25 4152164.00 0.00427
565404.25 4152174.00 0.00430
565404.25 4152184.00 0.00431
565404.25 4152194.00 0.00430
565404.25 4152204.00 0.00427
565404.25 4152214.00 0.00421
565404.25 4152224.00 0.00413
565404.25 4152234.00 0.00402

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565404.25	4152244.00	0.00391	565404.25	4152254.00	0.00378
565404.25	4152264.00	0.00364	565404.25	4152274.00	0.00349
565404.25	4152284.00	0.00334	565394.25	4151984.00	0.00418
565394.25	4151994.00	0.00414	565394.25	4152004.00	0.00411
565394.25	4152014.00	0.00407	565394.25	4152024.00	0.00402
565394.25	4152034.00	0.00397	565394.25	4152044.00	0.00391
565394.25	4152054.00	0.00384	565394.25	4152064.00	0.00377
565394.25	4152074.00	0.00370	565394.25	4152084.00	0.00364
565394.25	4152094.00	0.00359	565394.25	4152104.00	0.00356
565394.25	4152114.00	0.00355	565394.25	4152124.00	0.00357
565394.25	4152134.00	0.00360	565394.25	4152144.00	0.00366
565394.25	4152154.00	0.00371	565394.25	4152164.00	0.00377
565394.25	4152174.00	0.00382	565394.25	4152184.00	0.00385
565394.25	4152194.00	0.00387	565394.25	4152204.00	0.00386

565394.25 4152214.00 0.00383
565394.25 4152224.00 0.00379
565394.25 4152234.00 0.00372
565394.25 4152244.00 0.00364
565394.25 4152254.00 0.00354
565394.25 4152264.00 0.00343
565394.25 4152274.00 0.00332
565394.25 4152284.00 0.00319
565384.25 4151984.00 0.00366
565384.25 4151994.00 0.00363
565384.25 4152004.00 0.00361
565384.25 4152014.00 0.00358
565384.25 4152024.00 0.00354
565384.25 4152034.00 0.00349
565384.25 4152044.00 0.00345
565384.25 4152054.00 0.00340
565384.25 4152064.00 0.00334
565384.25 4152074.00 0.00328
565384.25 4152084.00 0.00323
565384.25 4152094.00 0.00319
565384.25 4152104.00 0.00316
565384.25 4152114.00 0.00315
565384.25 4152124.00 0.00316
565384.25 4152134.00 0.00319
565384.25 4152144.00 0.00323
565384.25 4152154.00 0.00328
565384.25 4152164.00 0.00334
565384.25 4152174.00 0.00340
565384.25 4152184.00 0.00344
565384.25 4152194.00 0.00347
565384.25 4152204.00 0.00349
565384.25 4152214.00 0.00348
565384.25 4152224.00 0.00346
565384.25 4152234.00 0.00343
565384.25 4152244.00 0.00337
565384.25 4152254.00 0.00331
565384.25 4152264.00 0.00323
565384.25 4152274.00 0.00314
565384.25 4152284.00 0.00304
565374.25 4151984.00 0.00323
565374.25 4151994.00 0.00321
565374.25 4152004.00 0.00320
565374.25 4152014.00 0.00317
565374.25 4152024.00 0.00314
565374.25 4152034.00 0.00310
565374.25 4152044.00 0.00307
565374.25 4152054.00 0.00302
565374.25 4152064.00 0.00298
565374.25 4152074.00 0.00293
565374.25 4152084.00 0.00288
565374.25 4152094.00 0.00285
565374.25 4152104.00 0.00282

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565374.25	4152114.00	0.00281	565374.25	4152124.00	0.00282
565374.25	4152134.00	0.00284	565374.25	4152144.00	0.00288
565374.25	4152154.00	0.00292	565374.25	4152164.00	0.00298
565374.25	4152174.00	0.00303	565374.25	4152184.00	0.00308
565374.25	4152194.00	0.00312	565374.25	4152204.00	0.00315
565374.25	4152214.00	0.00317	565374.25	4152224.00	0.00317
565374.25	4152234.00	0.00315	565374.25	4152244.00	0.00312
565374.25	4152254.00	0.00308	565374.25	4152264.00	0.00302
565374.25	4152274.00	0.00294	565374.25	4152284.00	0.00286
565364.25	4151984.00	0.00288	565364.25	4151994.00	0.00286
565364.25	4152004.00	0.00285	565364.25	4152014.00	0.00283
565364.25	4152024.00	0.00281	565364.25	4152034.00	0.00278
565364.25	4152044.00	0.00274	565364.25	4152054.00	0.00271
565364.25	4152064.00	0.00267	565364.25	4152074.00	0.00263

565364.25 4152084.00 0.00259
565364.25 4152094.00 0.00256
565364.25 4152104.00 0.00253
565364.25 4152114.00 0.00252
565364.25 4152124.00 0.00253
565364.25 4152134.00 0.00254
565364.25 4152144.00 0.00257
565364.25 4152154.00 0.00261
565364.25 4152164.00 0.00266
565364.25 4152174.00 0.00271
565364.25 4152184.00 0.00276
565364.25 4152194.00 0.00281
565364.25 4152204.00 0.00285
565364.25 4152214.00 0.00287
565364.25 4152224.00 0.00289
565364.25 4152234.00 0.00289
565364.25 4152244.00 0.00288
565364.25 4152254.00 0.00286
565364.25 4152264.00 0.00281
565364.25 4152274.00 0.00274
565364.25 4152284.00 0.00269
565354.25 4151984.00 0.00258
565354.25 4151994.00 0.00257
565354.25 4152004.00 0.00256
565354.25 4152014.00 0.00254
565354.25 4152024.00 0.00252
565354.25 4152034.00 0.00250
565354.25 4152044.00 0.00247
565354.25 4152054.00 0.00244
565354.25 4152064.00 0.00241
565354.25 4152074.00 0.00237
565354.25 4152084.00 0.00234
565354.25 4152094.00 0.00231
565354.25 4152104.00 0.00229
565354.25 4152114.00 0.00228
565354.25 4152124.00 0.00228
565354.25 4152134.00 0.00229
565354.25 4152144.00 0.00231
565354.25 4152154.00 0.00235
565354.25 4152164.00 0.00239
565354.25 4152174.00 0.00244
565354.25 4152184.00 0.00249
565354.25 4152194.00 0.00253
565354.25 4152204.00 0.00257
565354.25 4152214.00 0.00261
565354.25 4152224.00 0.00263
565354.25 4152234.00 0.00265
565354.25 4152244.00 0.00265
565354.25 4152254.00 0.00264
565354.25 4152264.00 0.00262
565354.25 4152274.00 0.00258
565354.25 4152284.00 0.00254

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565344.25	4151984.00	0.00233	565344.25	4151994.00	0.00232
565344.25	4152004.00	0.00231	565344.25	4152014.00	0.00230
565344.25	4152024.00	0.00228	565344.25	4152034.00	0.00226
565344.25	4152044.00	0.00224	565344.25	4152054.00	0.00221
565344.25	4152064.00	0.00218	565344.25	4152074.00	0.00215
565344.25	4152084.00	0.00212	565344.25	4152094.00	0.00210
565344.25	4152104.00	0.00208	565344.25	4152114.00	0.00207
565344.25	4152124.00	0.00207	565344.25	4152134.00	0.00207
565344.25	4152144.00	0.00209	565344.25	4152154.00	0.00212
565344.25	4152164.00	0.00216	565344.25	4152174.00	0.00220
565344.25	4152184.00	0.00224	565344.25	4152194.00	0.00229
565344.25	4152204.00	0.00233	565344.25	4152214.00	0.00237
565344.25	4152224.00	0.00240	565344.25	4152234.00	0.00242
565344.25	4152244.00	0.00244	565344.25	4152254.00	0.00244

565344.25 4152264.00 0.00243
565344.25 4152274.00 0.00241
565344.25 4152284.00 0.00239
565334.25 4151984.00 0.00211
565334.25 4151994.00 0.00210
565334.25 4152004.00 0.00209
565334.25 4152014.00 0.00208
565334.25 4152024.00 0.00207
565334.25 4152034.00 0.00205
565334.25 4152044.00 0.00203
565334.25 4152054.00 0.00201
565334.25 4152064.00 0.00199
565334.25 4152074.00 0.00196
565334.25 4152084.00 0.00194
565334.25 4152094.00 0.00192
565334.25 4152104.00 0.00190
565334.25 4152114.00 0.00189
565334.25 4152124.00 0.00188
565334.25 4152134.00 0.00189
565334.25 4152144.00 0.00190
565334.25 4152154.00 0.00193
565334.25 4152164.00 0.00196
565334.25 4152174.00 0.00199
565334.25 4152184.00 0.00203
565334.25 4152194.00 0.00208
565334.25 4152204.00 0.00212
565334.25 4152214.00 0.00216
565334.25 4152224.00 0.00219
565334.25 4152234.00 0.00222
565334.25 4152244.00 0.00224
565334.25 4152254.00 0.00225
565334.25 4152264.00 0.00224
565334.25 4152274.00 0.00222
565334.25 4152284.00 0.00221
565324.25 4151984.00 0.00192
565324.25 4151994.00 0.00191
565324.25 4152004.00 0.00191
565324.25 4152014.00 0.00190
565324.25 4152024.00 0.00189
565324.25 4152034.00 0.00187
565324.25 4152044.00 0.00186
565324.25 4152054.00 0.00184
565324.25 4152064.00 0.00182
565324.25 4152074.00 0.00179
565324.25 4152084.00 0.00177
565324.25 4152094.00 0.00175
565324.25 4152104.00 0.00174
565324.25 4152114.00 0.00173
565324.25 4152124.00 0.00172
565324.25 4152134.00 0.00172
565324.25 4152144.00 0.00174
565324.25 4152154.00 0.00176

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565324.25	4152164.00	0.00178	565324.25	4152174.00	0.00181
565324.25	4152184.00	0.00185	565324.25	4152194.00	0.00189
565324.25	4152204.00	0.00193	565324.25	4152214.00	0.00197
565324.25	4152224.00	0.00200	565324.25	4152234.00	0.00203
565324.25	4152244.00	0.00206	565324.25	4152254.00	0.00207
565324.25	4152264.00	0.00206	565324.25	4152274.00	0.00205
565324.25	4152284.00	0.00205	565314.25	4151984.00	0.00175
565314.25	4151994.00	0.00175	565314.25	4152004.00	0.00174
565314.25	4152014.00	0.00173	565314.25	4152024.00	0.00172
565314.25	4152034.00	0.00171	565314.25	4152044.00	0.00170
565314.25	4152054.00	0.00169	565314.25	4152064.00	0.00167
565314.25	4152074.00	0.00165	565314.25	4152084.00	0.00163
565314.25	4152094.00	0.00161	565314.25	4152104.00	0.00160
565314.25	4152114.00	0.00159	565314.25	4152124.00	0.00158

565314.25 4152134.00 0.00158
565314.25 4152144.00 0.00159
565314.25 4152154.00 0.00161
565314.25 4152164.00 0.00163
565314.25 4152174.00 0.00165
565314.25 4152184.00 0.00169
565314.25 4152194.00 0.00172
565314.25 4152204.00 0.00176
565314.25 4152214.00 0.00180
565314.25 4152224.00 0.00183
565314.25 4152234.00 0.00186
565314.25 4152244.00 0.00189
565314.25 4152254.00 0.00191
565314.25 4152264.00 0.00190
565314.25 4152274.00 0.00189
565314.25 4152284.00 0.00190
565304.25 4151984.00 0.00161
565304.25 4151994.00 0.00160
565304.25 4152004.00 0.00160
565304.25 4152014.00 0.00159
565304.25 4152024.00 0.00159
565304.25 4152034.00 0.00158
565304.25 4152044.00 0.00157
565304.25 4152054.00 0.00155
565304.25 4152064.00 0.00154
565304.25 4152074.00 0.00152
565304.25 4152084.00 0.00150
565304.25 4152094.00 0.00148
565304.25 4152104.00 0.00147
565304.25 4152114.00 0.00146
565304.25 4152124.00 0.00146
565304.25 4152134.00 0.00146
565304.25 4152144.00 0.00146
565304.25 4152154.00 0.00148
565304.25 4152164.00 0.00149
565304.25 4152174.00 0.00152
565304.25 4152184.00 0.00154
565304.25 4152194.00 0.00158
565304.25 4152204.00 0.00161
565304.25 4152214.00 0.00164
565304.25 4152224.00 0.00168
565304.25 4152234.00 0.00171
565304.25 4152244.00 0.00174
565304.25 4152254.00 0.00176
565304.25 4152264.00 0.00177
565304.25 4152274.00 0.00176
565304.25 4152284.00 0.00178
565294.25 4151984.00 0.00148
565294.25 4151994.00 0.00148
565294.25 4152004.00 0.00147
565294.25 4152014.00 0.00147
565294.25 4152024.00 0.00147

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565294.25	4152034.00	0.00146	565294.25	4152044.00	0.00145
565294.25	4152054.00	0.00143	565294.25	4152064.00	0.00142
565294.25	4152074.00	0.00140	565294.25	4152084.00	0.00139
565294.25	4152094.00	0.00137	565294.25	4152104.00	0.00136
565294.25	4152114.00	0.00136	565294.25	4152124.00	0.00135
565294.25	4152134.00	0.00135	565294.25	4152144.00	0.00135
565294.25	4152154.00	0.00136	565294.25	4152164.00	0.00138
565294.25	4152174.00	0.00139	565294.25	4152184.00	0.00142
565294.25	4152194.00	0.00145	565294.25	4152204.00	0.00148
565294.25	4152214.00	0.00151	565294.25	4152224.00	0.00154
565294.25	4152234.00	0.00157	565294.25	4152244.00	0.00160
565294.25	4152254.00	0.00163	565294.25	4152264.00	0.00165
565294.25	4152274.00	0.00166	565294.25	4152284.00	0.00168
565284.25	4151984.00	0.00137	565284.25	4151994.00	0.00136

565284.25 4152004.00 0.00136
565284.25 4152014.00 0.00136
565284.25 4152024.00 0.00136
565284.25 4152034.00 0.00135
565284.25 4152044.00 0.00134
565284.25 4152054.00 0.00133
565284.25 4152064.00 0.00132
565284.25 4152074.00 0.00130
565284.25 4152084.00 0.00129
565284.25 4152094.00 0.00128
565284.25 4152104.00 0.00127
565284.25 4152114.00 0.00126
565284.25 4152124.00 0.00125
565284.25 4152134.00 0.00125
565284.25 4152144.00 0.00125
565284.25 4152154.00 0.00126
565284.25 4152164.00 0.00127
565284.25 4152174.00 0.00129
565284.25 4152184.00 0.00131
565284.25 4152194.00 0.00133
565284.25 4152204.00 0.00136
565284.25 4152214.00 0.00139
565284.25 4152224.00 0.00142
565284.25 4152234.00 0.00145
565284.25 4152244.00 0.00148
565284.25 4152254.00 0.00150
565284.25 4152264.00 0.00153
565284.25 4152274.00 0.00155
565284.25 4152284.00 0.00157
565274.25 4151984.00 0.00127
565274.25 4151994.00 0.00126
565274.25 4152004.00 0.00126
565274.25 4152014.00 0.00126
565274.25 4152024.00 0.00126
565274.25 4152034.00 0.00125
565274.25 4152044.00 0.00124
565274.25 4152054.00 0.00123
565274.25 4152064.00 0.00122
565274.25 4152074.00 0.00121
565274.25 4152084.00 0.00120
565274.25 4152094.00 0.00119
565274.25 4152104.00 0.00118
565274.25 4152114.00 0.00117
565274.25 4152124.00 0.00117
565274.25 4152134.00 0.00116
565274.25 4152144.00 0.00116
565274.25 4152154.00 0.00117
565274.25 4152164.00 0.00118
565274.25 4152174.00 0.00119
565274.25 4152184.00 0.00121
565274.25 4152194.00 0.00123
565274.25 4152204.00 0.00125

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565274.25	4152214.00	0.00128	565274.25	4152224.00	0.00131
565274.25	4152234.00	0.00134	565274.25	4152244.00	0.00136
565274.25	4152254.00	0.00139	565274.25	4152264.00	0.00142
565274.25	4152274.00	0.00144	565274.25	4152284.00	0.00146
565264.25	4151984.00	0.00118	565264.25	4151994.00	0.00118
565264.25	4152004.00	0.00118	565264.25	4152014.00	0.00118
565264.25	4152024.00	0.00117	565264.25	4152034.00	0.00117
565264.25	4152044.00	0.00116	565264.25	4152054.00	0.00115
565264.25	4152064.00	0.00114	565264.25	4152074.00	0.00113
565264.25	4152084.00	0.00112	565264.25	4152094.00	0.00111
565264.25	4152104.00	0.00110	565264.25	4152114.00	0.00109
565264.25	4152124.00	0.00109	565264.25	4152134.00	0.00108
565264.25	4152144.00	0.00108	565264.25	4152154.00	0.00109
565264.25	4152164.00	0.00110	565264.25	4152174.00	0.00111

565264.25 4152184.00 0.00112
565264.25 4152194.00 0.00114
565264.25 4152204.00 0.00116
565264.25 4152214.00 0.00118
565264.25 4152224.00 0.00121
565264.25 4152234.00 0.00124
565264.25 4152244.00 0.00126
565264.25 4152254.00 0.00129
565264.25 4152264.00 0.00131
565264.25 4152274.00 0.00134
565264.25 4152284.00 0.00136
565264.25 4152367.25 0.00140
565264.25 4152450.75 0.00122
565264.25 4152534.00 0.00097
565358.00 4152367.25 0.00201
565358.00 4152450.75 0.00144
565358.00 4152534.00 0.00105
565451.75 4152367.25 0.00238
565451.75 4152450.75 0.00158
565451.75 4152534.00 0.00112
565545.50 4152367.25 0.00239
565545.50 4152450.75 0.00152
565545.50 4152534.00 0.00107
565639.25 4152367.25 0.00209
565639.25 4152450.75 0.00139
565639.25 4152534.00 0.00099
565733.00 4152367.25 0.00158
565733.00 4152450.75 0.00119
565733.00 4152534.00 0.00091
565826.75 4152367.25 0.00111
565826.75 4152450.75 0.00085
565826.75 4152534.00 0.00072
565920.50 4152367.25 0.00097
565920.50 4152450.75 0.00066
565920.50 4152534.00 0.00053
566014.25 4152367.25 0.00094
566014.25 4152450.75 0.00060
566014.25 4152534.00 0.00044
565847.56 4152284.00 0.00180
565847.56 4152190.25 0.00430
565847.56 4152096.50 0.00952
565847.56 4152002.75 0.01321
565847.56 4151909.00 0.01143
565847.56 4151815.25 0.00820
565847.56 4151721.50 0.00539
565847.56 4151627.75 0.00355
565847.56 4151534.00 0.00246
565930.94 4152284.00 0.00169
565930.94 4152190.25 0.00348
565930.94 4152096.50 0.00630
565930.94 4152002.75 0.00813
565930.94 4151909.00 0.00764

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_ON ***
INCLUDING SOURCE(S): PAREA1
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565930.94	4151815.25	0.00627	565930.94	4151721.50	0.00473
565930.94	4151627.75	0.00340	565930.94	4151534.00	0.00243
566014.25	4152284.00	0.00156	566014.25	4152190.25	0.00278
566014.25	4152096.50	0.00442	566014.25	4152002.75	0.00549
566014.25	4151909.00	0.00539	566014.25	4151815.25	0.00476
566014.25	4151721.50	0.00396	566014.25	4151627.75	0.00310
566014.25	4151534.00	0.00235	565764.25	4151700.75	0.00522
565764.25	4151617.25	0.00353	565764.25	4151534.00	0.00255
565670.50	4151700.75	0.00569	565670.50	4151617.25	0.00374
565670.50	4151534.00	0.00264	565576.75	4151700.75	0.00590
565576.75	4151617.25	0.00381	565576.75	4151534.00	0.00264
565483.00	4151700.75	0.00483	565483.00	4151617.25	0.00333
565483.00	4151534.00	0.00242	565389.25	4151700.75	0.00274
565389.25	4151617.25	0.00224	565389.25	4151534.00	0.00181

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         565295.50    4151700.75        0.00140
565295.50    4151617.25        0.00129
         565295.50    4151534.00        0.00112
565201.75    4151700.75        0.00077
         565201.75    4151617.25        0.00075
565201.75    4151534.00        0.00069
         565108.00    4151700.75        0.00048
565108.00    4151617.25        0.00048
         565108.00    4151534.00        0.00046
565014.25    4151700.75        0.00031
         565014.25    4151617.25        0.00031
565014.25    4151534.00        0.00032
         565180.94    4151784.00        0.00070
565180.94    4151877.75        0.00068
         565180.94    4151971.50        0.00070
565180.94    4152065.25        0.00069
         565180.94    4152159.00        0.00066
565180.94    4152252.75        0.00073
         565180.94    4152346.50        0.00086
565180.94    4152440.25        0.00092
         565180.94    4152534.00        0.00084
565097.56    4151784.00        0.00044
         565097.56    4151877.75        0.00044
565097.56    4151971.50        0.00046
         565097.56    4152065.25        0.00046
565097.56    4152159.00        0.00044
         565097.56    4152252.75        0.00046
565097.56    4152346.50        0.00054
         565097.56    4152440.25        0.00062
565097.56    4152534.00        0.00065
         565014.25    4151784.00        0.00030
565014.25    4151877.75        0.00030
         565014.25    4151971.50        0.00033
565014.25    4152065.25        0.00033
         565014.25    4152159.00        0.00032
565014.25    4152252.75        0.00033
         565014.25    4152346.50        0.00036
565014.25    4152440.25        0.00042
         565014.25    4152534.00        0.00047
565502.65    4152072.47        0.02752
         565589.07    4151982.88        0.11762
565619.89    4152017.45        0.12824
         565621.62    4152031.56        0.12237
565618.45    4152045.97        0.11834
         565600.88    4152086.01        0.08455
565578.70    4152137.28        0.02325
         565504.04    4152071.95        0.02846
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565464.25	4151984.00	0.00015	565464.25	4152009.00	0.00014
565464.25	4152034.00	0.00007	565464.25	4152059.00	0.00006
565464.25	4152084.00	0.00004	565489.25	4151984.00	0.00022
565489.25	4152009.00	0.00019	565489.25	4152034.00	0.00012
565489.25	4152059.00	0.00006	565489.25	4152084.00	0.00005
565514.25	4151984.00	0.00019	565514.25	4152009.00	0.00022
565514.25	4152034.00	0.00020	565514.25	4152059.00	0.00007
565514.25	4152084.00	0.00004	565539.25	4151984.00	0.00021
565539.25	4152009.00	0.00020	565539.25	4152034.00	0.00016
565564.25	4151984.00	0.00021	565564.25	4152009.00	0.00015
565464.25	4152094.00	0.00004	565464.25	4152104.00	0.00003
565464.25	4152114.00	0.00003	565464.25	4152124.00	0.00002
565464.25	4152134.00	0.00002	565464.25	4152144.00	0.00002
565464.25	4152154.00	0.00002	565464.25	4152164.00	0.00002

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         565464.25    4152174.00        0.00001
565464.25    4152184.00        0.00001
         565464.25    4152194.00        0.00001
565464.25    4152204.00        0.00001
         565464.25    4152214.00        0.00001
565464.25    4152224.00        0.00001
         565464.25    4152234.00        0.00001
565464.25    4152244.00        0.00001
         565464.25    4152254.00        0.00001
565464.25    4152264.00        0.00001
         565464.25    4152274.00        0.00001
565464.25    4152284.00        0.00001
         565474.25    4152094.00        0.00004
565474.25    4152104.00        0.00003
         565474.25    4152114.00        0.00003
565474.25    4152124.00        0.00003
         565474.25    4152134.00        0.00002
565474.25    4152144.00        0.00002
         565474.25    4152154.00        0.00002
565474.25    4152164.00        0.00002
         565474.25    4152174.00        0.00001
565474.25    4152184.00        0.00001
         565474.25    4152194.00        0.00001
565474.25    4152204.00        0.00001
         565474.25    4152214.00        0.00001
565474.25    4152224.00        0.00001
         565474.25    4152234.00        0.00001
565474.25    4152244.00        0.00001
         565474.25    4152254.00        0.00001
565474.25    4152264.00        0.00001
         565474.25    4152274.00        0.00001
565474.25    4152284.00        0.00001
         565484.25    4152094.00        0.00004
565484.25    4152104.00        0.00004
         565484.25    4152114.00        0.00003
565484.25    4152124.00        0.00003
         565484.25    4152134.00        0.00002
565484.25    4152144.00        0.00002
         565484.25    4152154.00        0.00002
565484.25    4152164.00        0.00002
         565484.25    4152174.00        0.00001
565484.25    4152184.00        0.00001
         565484.25    4152194.00        0.00001
565484.25    4152204.00        0.00001
         565484.25    4152214.00        0.00001
565484.25    4152224.00        0.00001
         565484.25    4152234.00        0.00001
565484.25    4152244.00        0.00001
         565484.25    4152254.00        0.00001
565484.25    4152264.00        0.00001
         565484.25    4152274.00        0.00001
565484.25    4152284.00        0.00001
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565494.25	4152094.00	0.00004	565494.25	4152104.00	0.00003
565494.25	4152114.00	0.00003	565494.25	4152124.00	0.00003
565494.25	4152134.00	0.00002	565494.25	4152144.00	0.00002
565494.25	4152154.00	0.00002	565494.25	4152164.00	0.00002
565494.25	4152174.00	0.00001	565494.25	4152184.00	0.00001
565494.25	4152194.00	0.00001	565494.25	4152204.00	0.00001
565494.25	4152214.00	0.00001	565494.25	4152224.00	0.00001
565494.25	4152234.00	0.00001	565494.25	4152244.00	0.00001
565494.25	4152254.00	0.00001	565494.25	4152264.00	0.00001
565494.25	4152274.00	0.00001	565494.25	4152284.00	0.00001
565504.25	4152094.00	0.00004	565504.25	4152104.00	0.00003
565504.25	4152114.00	0.00003	565504.25	4152124.00	0.00002
565504.25	4152134.00	0.00002	565504.25	4152144.00	0.00002
565504.25	4152154.00	0.00002	565504.25	4152164.00	0.00002

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         565504.25    4152174.00        0.00001
565504.25    4152184.00        0.00001
         565504.25    4152194.00        0.00001
565504.25    4152204.00        0.00001
         565504.25    4152214.00        0.00001
565504.25    4152224.00        0.00001
         565504.25    4152234.00        0.00001
565504.25    4152244.00        0.00001
         565504.25    4152254.00        0.00001
565504.25    4152264.00        0.00001
         565504.25    4152274.00        0.00001
565504.25    4152284.00        0.00001
         565514.25    4152094.00        0.00004
565514.25    4152104.00        0.00003
         565514.25    4152114.00        0.00003
565514.25    4152124.00        0.00002
         565514.25    4152134.00        0.00002
565514.25    4152144.00        0.00002
         565514.25    4152154.00        0.00002
565514.25    4152164.00        0.00002
         565514.25    4152174.00        0.00001
565514.25    4152184.00        0.00001
         565514.25    4152194.00        0.00001
565514.25    4152204.00        0.00001
         565514.25    4152214.00        0.00001
565514.25    4152224.00        0.00001
         565514.25    4152234.00        0.00001
565514.25    4152244.00        0.00001
         565514.25    4152254.00        0.00001
565514.25    4152264.00        0.00001
         565514.25    4152274.00        0.00001
565514.25    4152284.00        0.00001
         565524.25    4152094.00        0.00004
565524.25    4152104.00        0.00003
         565524.25    4152114.00        0.00003
565524.25    4152124.00        0.00002
         565524.25    4152134.00        0.00002
565524.25    4152144.00        0.00002
         565524.25    4152154.00        0.00002
565524.25    4152164.00        0.00002
         565524.25    4152174.00        0.00001
565524.25    4152184.00        0.00001
         565524.25    4152194.00        0.00001
565524.25    4152204.00        0.00001
         565524.25    4152214.00        0.00001
565524.25    4152224.00        0.00001
         565524.25    4152234.00        0.00001
565524.25    4152244.00        0.00001
         565524.25    4152254.00        0.00001
565524.25    4152264.00        0.00001
         565524.25    4152274.00        0.00001
565524.25    4152284.00        0.00001
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565534.25	4152104.00	0.00003	565534.25	4152114.00	0.00003
565534.25	4152124.00	0.00002	565534.25	4152134.00	0.00002
565534.25	4152144.00	0.00002	565534.25	4152154.00	0.00002
565534.25	4152164.00	0.00002	565534.25	4152174.00	0.00001
565534.25	4152184.00	0.00001	565534.25	4152194.00	0.00001
565534.25	4152204.00	0.00001	565534.25	4152214.00	0.00001
565534.25	4152224.00	0.00001	565534.25	4152234.00	0.00001
565534.25	4152244.00	0.00001	565534.25	4152254.00	0.00001
565534.25	4152264.00	0.00001	565534.25	4152274.00	0.00001
565534.25	4152284.00	0.00001	565544.25	4152114.00	0.00003
565544.25	4152124.00	0.00002	565544.25	4152134.00	0.00002
565544.25	4152144.00	0.00002	565544.25	4152154.00	0.00002
565544.25	4152164.00	0.00002	565544.25	4152174.00	0.00001
565544.25	4152184.00	0.00001	565544.25	4152194.00	0.00001

565544.25 4152204.00 0.00001
565544.25 4152214.00 0.00001
565544.25 4152224.00 0.00001
565544.25 4152234.00 0.00001
565544.25 4152244.00 0.00001
565544.25 4152254.00 0.00001
565544.25 4152264.00 0.00001
565544.25 4152274.00 0.00001
565544.25 4152284.00 0.00001
565554.25 4152124.00 0.00002
565554.25 4152134.00 0.00002
565554.25 4152144.00 0.00002
565554.25 4152154.00 0.00002
565554.25 4152164.00 0.00001
565554.25 4152174.00 0.00001
565554.25 4152184.00 0.00001
565554.25 4152194.00 0.00001
565554.25 4152204.00 0.00001
565554.25 4152214.00 0.00001
565554.25 4152224.00 0.00001
565554.25 4152234.00 0.00001
565554.25 4152244.00 0.00001
565554.25 4152254.00 0.00001
565554.25 4152264.00 0.00001
565554.25 4152274.00 0.00001
565554.25 4152284.00 0.00001
565564.25 4152134.00 0.00002
565564.25 4152144.00 0.00002
565564.25 4152154.00 0.00002
565564.25 4152164.00 0.00001
565564.25 4152174.00 0.00001
565564.25 4152184.00 0.00001
565564.25 4152194.00 0.00001
565564.25 4152204.00 0.00001
565564.25 4152214.00 0.00001
565564.25 4152224.00 0.00001
565564.25 4152234.00 0.00001
565564.25 4152244.00 0.00001
565564.25 4152254.00 0.00001
565564.25 4152264.00 0.00001
565564.25 4152274.00 0.00001
565564.25 4152284.00 0.00001
565574.25 4152134.00 0.00002
565574.25 4152144.00 0.00002
565574.25 4152154.00 0.00002
565574.25 4152164.00 0.00001
565574.25 4152174.00 0.00001
565574.25 4152184.00 0.00001
565574.25 4152194.00 0.00001
565574.25 4152204.00 0.00001
565574.25 4152214.00 0.00001
565574.25 4152224.00 0.00001

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565574.25	4152234.00	0.00001	565574.25	4152244.00	0.00001
565574.25	4152254.00	0.00001	565574.25	4152264.00	0.00001
565574.25	4152274.00	0.00001	565574.25	4152284.00	0.00001
565584.25	4152134.00	0.00002	565584.25	4152144.00	0.00002
565584.25	4152154.00	0.00002	565584.25	4152164.00	0.00001
565584.25	4152174.00	0.00001	565584.25	4152184.00	0.00001
565584.25	4152194.00	0.00001	565584.25	4152204.00	0.00001
565584.25	4152214.00	0.00001	565584.25	4152224.00	0.00001
565584.25	4152234.00	0.00001	565584.25	4152244.00	0.00001
565584.25	4152254.00	0.00001	565584.25	4152264.00	0.00001
565584.25	4152274.00	0.00001	565584.25	4152284.00	0.00001
565594.25	4152104.00	0.00003	565594.25	4152114.00	0.00003
565594.25	4152124.00	0.00002	565594.25	4152134.00	0.00002
565594.25	4152144.00	0.00002	565594.25	4152154.00	0.00002

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         565594.25    4152164.00        0.00001
565594.25    4152174.00        0.00001
         565594.25    4152184.00        0.00001
565594.25    4152194.00        0.00001
         565594.25    4152204.00        0.00001
565594.25    4152214.00        0.00001
         565594.25    4152224.00        0.00001
565594.25    4152234.00        0.00001
         565594.25    4152244.00        0.00001
565594.25    4152254.00        0.00001
         565594.25    4152264.00        0.00001
565594.25    4152274.00        0.00001
         565594.25    4152284.00        0.00001
565604.25    4152094.00        0.00004
         565604.25    4152104.00        0.00003
565604.25    4152114.00        0.00003
         565604.25    4152124.00        0.00002
565604.25    4152134.00        0.00002
         565604.25    4152144.00        0.00002
565604.25    4152154.00        0.00002
         565604.25    4152164.00        0.00001
565604.25    4152174.00        0.00001
         565604.25    4152184.00        0.00001
565604.25    4152194.00        0.00001
         565604.25    4152204.00        0.00001
565604.25    4152214.00        0.00001
         565604.25    4152224.00        0.00001
565604.25    4152234.00        0.00001
         565604.25    4152244.00        0.00001
565604.25    4152254.00        0.00001
         565604.25    4152264.00        0.00001
565604.25    4152274.00        0.00001
         565604.25    4152284.00        0.00001
565614.25    4152094.00        0.00004
         565614.25    4152104.00        0.00003
565614.25    4152114.00        0.00003
         565614.25    4152124.00        0.00002
565614.25    4152134.00        0.00002
         565614.25    4152144.00        0.00002
565614.25    4152154.00        0.00002
         565614.25    4152164.00        0.00001
565614.25    4152174.00        0.00001
         565614.25    4152184.00        0.00001
565614.25    4152194.00        0.00001
         565614.25    4152204.00        0.00001
565614.25    4152214.00        0.00001
         565614.25    4152224.00        0.00001
565614.25    4152234.00        0.00001
         565614.25    4152244.00        0.00001
565614.25    4152254.00        0.00001
         565614.25    4152264.00        0.00001
565614.25    4152274.00        0.00001
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565614.25	4152284.00	0.00001	565624.25	4152094.00	0.00004
565624.25	4152104.00	0.00003	565624.25	4152114.00	0.00003
565624.25	4152124.00	0.00002	565624.25	4152134.00	0.00002
565624.25	4152144.00	0.00002	565624.25	4152154.00	0.00001
565624.25	4152164.00	0.00001	565624.25	4152174.00	0.00001
565624.25	4152184.00	0.00001	565624.25	4152194.00	0.00001
565624.25	4152204.00	0.00001	565624.25	4152214.00	0.00001
565624.25	4152224.00	0.00001	565624.25	4152234.00	0.00001
565624.25	4152244.00	0.00001	565624.25	4152254.00	0.00001
565624.25	4152264.00	0.00001	565624.25	4152274.00	0.00001
565624.25	4152284.00	0.00001	565634.25	4152094.00	0.00003
565634.25	4152104.00	0.00003	565634.25	4152114.00	0.00002
565634.25	4152124.00	0.00002	565634.25	4152134.00	0.00002
565634.25	4152144.00	0.00002	565634.25	4152154.00	0.00001

565634.25 4152164.00 0.00001
565634.25 4152174.00 0.00001
565634.25 4152184.00 0.00001
565634.25 4152194.00 0.00001
565634.25 4152204.00 0.00001
565634.25 4152214.00 0.00001
565634.25 4152224.00 0.00001
565634.25 4152234.00 0.00001
565634.25 4152244.00 0.00001
565634.25 4152254.00 0.00001
565634.25 4152264.00 0.00001
565634.25 4152274.00 0.00001
565634.25 4152284.00 0.00001
565644.25 4152094.00 0.00003
565644.25 4152104.00 0.00003
565644.25 4152114.00 0.00002
565644.25 4152124.00 0.00002
565644.25 4152134.00 0.00002
565644.25 4152144.00 0.00002
565644.25 4152154.00 0.00001
565644.25 4152164.00 0.00001
565644.25 4152174.00 0.00001
565644.25 4152184.00 0.00001
565644.25 4152194.00 0.00001
565644.25 4152204.00 0.00001
565644.25 4152214.00 0.00001
565644.25 4152224.00 0.00001
565644.25 4152234.00 0.00001
565644.25 4152244.00 0.00001
565644.25 4152254.00 0.00001
565644.25 4152264.00 0.00001
565644.25 4152274.00 0.00001
565644.25 4152284.00 0.00001
565654.25 4152094.00 0.00003
565654.25 4152104.00 0.00003
565654.25 4152114.00 0.00002
565654.25 4152124.00 0.00002
565654.25 4152134.00 0.00002
565654.25 4152144.00 0.00002
565654.25 4152154.00 0.00001
565654.25 4152164.00 0.00001
565654.25 4152174.00 0.00001
565654.25 4152184.00 0.00001
565654.25 4152194.00 0.00001
565654.25 4152204.00 0.00001
565654.25 4152214.00 0.00001
565654.25 4152224.00 0.00001
565654.25 4152234.00 0.00001
565654.25 4152244.00 0.00001
565654.25 4152254.00 0.00001
565654.25 4152264.00 0.00001
565654.25 4152274.00 0.00001

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565654.25	4152284.00	0.00001	565664.25	4152094.00	0.00003
565664.25	4152104.00	0.00003	565664.25	4152114.00	0.00002
565664.25	4152124.00	0.00002	565664.25	4152134.00	0.00002
565664.25	4152144.00	0.00001	565664.25	4152154.00	0.00001
565664.25	4152164.00	0.00001	565664.25	4152174.00	0.00001
565664.25	4152184.00	0.00001	565664.25	4152194.00	0.00001
565664.25	4152204.00	0.00001	565664.25	4152214.00	0.00001
565664.25	4152224.00	0.00001	565664.25	4152234.00	0.00001
565664.25	4152244.00	0.00001	565664.25	4152254.00	0.00001
565664.25	4152264.00	0.00001	565664.25	4152274.00	0.00001
565664.25	4152284.00	0.00000	565674.25	4152094.00	0.00003
565674.25	4152104.00	0.00002	565674.25	4152114.00	0.00002
565674.25	4152124.00	0.00002	565674.25	4152134.00	0.00002
565674.25	4152144.00	0.00001	565674.25	4152154.00	0.00001

```
         565674.25    4152164.00        0.00001
565674.25    4152174.00        0.00001
         565674.25    4152184.00        0.00001
565674.25    4152194.00        0.00001
         565674.25    4152204.00        0.00001
565674.25    4152214.00        0.00001
         565674.25    4152224.00        0.00001
565674.25    4152234.00        0.00001
         565674.25    4152244.00        0.00001
565674.25    4152254.00        0.00001
         565674.25    4152264.00        0.00001
565674.25    4152274.00        0.00001
         565674.25    4152284.00        0.00000
565684.25    4152094.00        0.00002
         565684.25    4152104.00        0.00002
565684.25    4152114.00        0.00002
         565684.25    4152124.00        0.00002
565684.25    4152134.00        0.00002
         565684.25    4152144.00        0.00001
565684.25    4152154.00        0.00001
         565684.25    4152164.00        0.00001
565684.25    4152174.00        0.00001
         565684.25    4152184.00        0.00001
565684.25    4152194.00        0.00001
         565684.25    4152204.00        0.00001
565684.25    4152214.00        0.00001
         565684.25    4152224.00        0.00001
565684.25    4152234.00        0.00001
         565684.25    4152244.00        0.00001
565684.25    4152254.00        0.00001
         565684.25    4152264.00        0.00001
565684.25    4152274.00        0.00000
         565684.25    4152284.00        0.00000
565694.25    4152094.00        0.00002
         565694.25    4152104.00        0.00002
565694.25    4152114.00        0.00002
         565694.25    4152124.00        0.00002
565694.25    4152134.00        0.00001
         565694.25    4152144.00        0.00001
565694.25    4152154.00        0.00001
         565694.25    4152164.00        0.00001
565694.25    4152174.00        0.00001
         565694.25    4152184.00        0.00001
565694.25    4152194.00        0.00001
         565694.25    4152204.00        0.00001
565694.25    4152214.00        0.00001
         565694.25    4152224.00        0.00001
565694.25    4152234.00        0.00001
         565694.25    4152244.00        0.00001
565694.25    4152254.00        0.00001
         565694.25    4152264.00        0.00001
565694.25    4152274.00        0.00000
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565694.25	4152284.00	0.00000	565704.25	4152094.00	0.00002
565704.25	4152104.00	0.00002	565704.25	4152114.00	0.00002
565704.25	4152124.00	0.00002	565704.25	4152134.00	0.00001
565704.25	4152144.00	0.00001	565704.25	4152154.00	0.00001
565704.25	4152164.00	0.00001	565704.25	4152174.00	0.00001
565704.25	4152184.00	0.00001	565704.25	4152194.00	0.00001
565704.25	4152204.00	0.00001	565704.25	4152214.00	0.00001
565704.25	4152224.00	0.00001	565704.25	4152234.00	0.00001
565704.25	4152244.00	0.00001	565704.25	4152254.00	0.00001
565704.25	4152264.00	0.00001	565704.25	4152274.00	0.00000
565704.25	4152284.00	0.00000	565714.25	4152094.00	0.00002
565714.25	4152104.00	0.00002	565714.25	4152114.00	0.00002
565714.25	4152124.00	0.00001	565714.25	4152134.00	0.00001
565714.25	4152144.00	0.00001	565714.25	4152154.00	0.00001

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         565714.25    4152164.00        0.00001
565714.25    4152174.00        0.00001
         565714.25    4152184.00        0.00001
565714.25    4152194.00        0.00001
         565714.25    4152204.00        0.00001
565714.25    4152214.00        0.00001
         565714.25    4152224.00        0.00001
565714.25    4152234.00        0.00001
         565714.25    4152244.00        0.00001
565714.25    4152254.00        0.00001
         565714.25    4152264.00        0.00000
565714.25    4152274.00        0.00000
         565714.25    4152284.00        0.00000
565724.25    4152094.00        0.00002
         565724.25    4152104.00        0.00002
565724.25    4152114.00        0.00002
         565724.25    4152124.00        0.00001
565724.25    4152134.00        0.00001
         565724.25    4152144.00        0.00001
565724.25    4152154.00        0.00001
         565724.25    4152164.00        0.00001
565724.25    4152174.00        0.00001
         565724.25    4152184.00        0.00001
565724.25    4152194.00        0.00001
         565724.25    4152204.00        0.00001
565724.25    4152214.00        0.00001
         565724.25    4152224.00        0.00001
565724.25    4152234.00        0.00001
         565724.25    4152244.00        0.00001
565724.25    4152254.00        0.00001
         565724.25    4152264.00        0.00000
565724.25    4152274.00        0.00000
         565724.25    4152284.00        0.00000
565734.25    4152094.00        0.00002
         565734.25    4152104.00        0.00002
565734.25    4152114.00        0.00001
         565734.25    4152124.00        0.00001
565734.25    4152134.00        0.00001
         565734.25    4152144.00        0.00001
565734.25    4152154.00        0.00001
         565734.25    4152164.00        0.00001
565734.25    4152174.00        0.00001
         565734.25    4152184.00        0.00001
565734.25    4152194.00        0.00001
         565734.25    4152204.00        0.00001
565734.25    4152214.00        0.00001
         565734.25    4152224.00        0.00001
565734.25    4152234.00        0.00001
         565734.25    4152244.00        0.00001
565734.25    4152254.00        0.00000
         565734.25    4152264.00        0.00000
565734.25    4152274.00        0.00000
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565734.25	4152284.00	0.00000	565744.25	4152094.00	0.00002
565744.25	4152104.00	0.00002	565744.25	4152114.00	0.00001
565744.25	4152124.00	0.00001	565744.25	4152134.00	0.00001
565744.25	4152144.00	0.00001	565744.25	4152154.00	0.00001
565744.25	4152164.00	0.00001	565744.25	4152174.00	0.00001
565744.25	4152184.00	0.00001	565744.25	4152194.00	0.00001
565744.25	4152204.00	0.00001	565744.25	4152214.00	0.00001
565744.25	4152224.00	0.00001	565744.25	4152234.00	0.00001
565744.25	4152244.00	0.00001	565744.25	4152254.00	0.00000
565744.25	4152264.00	0.00000	565744.25	4152274.00	0.00000
565744.25	4152284.00	0.00000	565754.25	4152094.00	0.00002
565754.25	4152104.00	0.00002	565754.25	4152114.00	0.00001
565754.25	4152124.00	0.00001	565754.25	4152134.00	0.00001
565754.25	4152144.00	0.00001	565754.25	4152154.00	0.00001

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         565754.25    4152164.00        0.00001
565754.25    4152174.00        0.00001
         565754.25    4152184.00        0.00001
565754.25    4152194.00        0.00001
         565754.25    4152204.00        0.00001
565754.25    4152214.00        0.00001
         565754.25    4152224.00        0.00001
565754.25    4152234.00        0.00001
         565754.25    4152244.00        0.00000
565754.25    4152254.00        0.00000
         565754.25    4152264.00        0.00000
565754.25    4152274.00        0.00000
         565754.25    4152284.00        0.00000
565764.25    4152094.00        0.00002
         565764.25    4152104.00        0.00002
565764.25    4152114.00        0.00001
         565764.25    4152124.00        0.00001
565764.25    4152134.00        0.00001
         565764.25    4152144.00        0.00001
565764.25    4152154.00        0.00001
         565764.25    4152164.00        0.00001
565764.25    4152174.00        0.00001
         565764.25    4152184.00        0.00001
565764.25    4152194.00        0.00001
         565764.25    4152204.00        0.00001
565764.25    4152214.00        0.00001
         565764.25    4152224.00        0.00001
565764.25    4152234.00        0.00000
         565764.25    4152244.00        0.00000
565764.25    4152254.00        0.00000
         565764.25    4152264.00        0.00000
565764.25    4152274.00        0.00000
         565764.25    4152284.00        0.00000
565574.25    4151994.00        0.00017
         565574.25    4151984.00        0.00019
565574.25    4151974.00        0.00022
         565574.25    4151964.00        0.00023
565574.25    4151954.00        0.00023
         565574.25    4151944.00        0.00022
565574.25    4151934.00        0.00022
         565574.25    4151924.00        0.00024
565574.25    4151914.00        0.00026
         565574.25    4151904.00        0.00026
565574.25    4151894.00        0.00022
         565574.25    4151884.00        0.00019
565574.25    4151874.00        0.00015
         565574.25    4151864.00        0.00013
565574.25    4151854.00        0.00011
         565574.25    4151844.00        0.00009
565574.25    4151834.00        0.00008
         565574.25    4151824.00        0.00007
565574.25    4151814.00        0.00006
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565574.25	4151804.00	0.00006	565574.25	4151794.00	0.00005
565574.25	4151784.00	0.00004	565584.25	4151984.00	0.00018
565584.25	4151974.00	0.00021	565584.25	4151964.00	0.00023
565584.25	4151954.00	0.00024	565584.25	4151944.00	0.00024
565584.25	4151934.00	0.00024	565584.25	4151924.00	0.00025
565584.25	4151914.00	0.00027	565584.25	4151904.00	0.00027
565584.25	4151894.00	0.00024	565584.25	4151884.00	0.00020
565584.25	4151874.00	0.00016	565584.25	4151864.00	0.00013
565584.25	4151854.00	0.00011	565584.25	4151844.00	0.00009
565584.25	4151834.00	0.00008	565584.25	4151824.00	0.00007
565584.25	4151814.00	0.00006	565584.25	4151804.00	0.00006
565584.25	4151794.00	0.00005	565584.25	4151784.00	0.00005
565594.25	4151984.00	0.00017	565594.25	4151974.00	0.00020
565594.25	4151964.00	0.00022	565594.25	4151954.00	0.00024

565594.25 4151944.00 0.00026
565594.25 4151934.00 0.00028
565594.25 4151924.00 0.00029
565594.25 4151914.00 0.00029
565594.25 4151904.00 0.00028
565594.25 4151894.00 0.00024
565594.25 4151884.00 0.00020
565594.25 4151874.00 0.00016
565594.25 4151864.00 0.00013
565594.25 4151854.00 0.00011
565594.25 4151844.00 0.00010
565594.25 4151834.00 0.00008
565594.25 4151824.00 0.00007
565594.25 4151814.00 0.00006
565594.25 4151804.00 0.00006
565594.25 4151794.00 0.00005
565594.25 4151784.00 0.00005
565604.25 4152084.00 0.00004
565604.25 4151994.00 0.00015
565604.25 4151984.00 0.00017
565604.25 4151974.00 0.00019
565604.25 4151964.00 0.00021
565604.25 4151954.00 0.00024
565604.25 4151944.00 0.00028
565604.25 4151934.00 0.00031
565604.25 4151924.00 0.00032
565604.25 4151914.00 0.00031
565604.25 4151904.00 0.00028
565604.25 4151894.00 0.00024
565604.25 4151884.00 0.00019
565604.25 4151874.00 0.00016
565604.25 4151864.00 0.00013
565604.25 4151854.00 0.00011
565604.25 4151844.00 0.00010
565604.25 4151834.00 0.00008
565604.25 4151824.00 0.00007
565604.25 4151814.00 0.00006
565604.25 4151804.00 0.00006
565604.25 4151794.00 0.00005
565604.25 4151784.00 0.00005
565614.25 4152084.00 0.00004
565614.25 4152074.00 0.00005
565614.25 4152064.00 0.00006
565614.25 4152004.00 0.00013
565614.25 4151994.00 0.00014
565614.25 4151984.00 0.00016
565614.25 4151974.00 0.00019
565614.25 4151964.00 0.00022
565614.25 4151954.00 0.00026
565614.25 4151944.00 0.00030
565614.25 4151934.00 0.00033
565614.25 4151924.00 0.00033

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565614.25	4151914.00	0.00031	565614.25	4151904.00	0.00027
565614.25	4151894.00	0.00022	565614.25	4151884.00	0.00018
565614.25	4151874.00	0.00015	565614.25	4151864.00	0.00013
565614.25	4151854.00	0.00011	565614.25	4151844.00	0.00009
565614.25	4151834.00	0.00008	565614.25	4151824.00	0.00007
565614.25	4151814.00	0.00006	565614.25	4151804.00	0.00006
565614.25	4151794.00	0.00005	565614.25	4151784.00	0.00005
565624.25	4152084.00	0.00004	565624.25	4152074.00	0.00005
565624.25	4152064.00	0.00006	565624.25	4152054.00	0.00007
565624.25	4152044.00	0.00008	565624.25	4152034.00	0.00009
565624.25	4152024.00	0.00010	565624.25	4152014.00	0.00011
565624.25	4152004.00	0.00013	565624.25	4151994.00	0.00015
565624.25	4151984.00	0.00017	565624.25	4151974.00	0.00020
565624.25	4151964.00	0.00024	565624.25	4151954.00	0.00028

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         565624.25    4151944.00        0.00031
565624.25    4151934.00        0.00033
         565624.25    4151924.00        0.00032
565624.25    4151914.00        0.00029
         565624.25    4151904.00        0.00025
565624.25    4151894.00        0.00021
         565624.25    4151884.00        0.00017
565624.25    4151874.00        0.00015
         565624.25    4151864.00        0.00012
565624.25    4151854.00        0.00011
         565624.25    4151844.00        0.00009
565624.25    4151834.00        0.00008
         565624.25    4151824.00        0.00007
565624.25    4151814.00        0.00006
         565624.25    4151804.00        0.00006
565624.25    4151794.00        0.00005
         565624.25    4151784.00        0.00004
565634.25    4152084.00        0.00004
         565634.25    4152074.00        0.00005
565634.25    4152064.00        0.00006
         565634.25    4152054.00        0.00007
565634.25    4152044.00        0.00008
         565634.25    4152034.00        0.00008
565634.25    4152024.00        0.00010
         565634.25    4152014.00        0.00011
565634.25    4152004.00        0.00013
         565634.25    4151994.00        0.00016
565634.25    4151984.00        0.00019
         565634.25    4151974.00        0.00023
565634.25    4151964.00        0.00027
         565634.25    4151954.00        0.00030
565634.25    4151944.00        0.00032
         565634.25    4151934.00        0.00031
565634.25    4151924.00        0.00029
         565634.25    4151914.00        0.00026
565634.25    4151904.00        0.00022
         565634.25    4151894.00        0.00019
565634.25    4151884.00        0.00016
         565634.25    4151874.00        0.00014
565634.25    4151864.00        0.00012
         565634.25    4151854.00        0.00010
565634.25    4151844.00        0.00009
         565634.25    4151834.00        0.00008
565634.25    4151824.00        0.00007
         565634.25    4151814.00        0.00006
565634.25    4151804.00        0.00005
         565634.25    4151794.00        0.00005
565634.25    4151784.00        0.00004
         565644.25    4152084.00        0.00004
565644.25    4152074.00        0.00005
         565644.25    4152064.00        0.00006
565644.25    4152054.00        0.00006
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565644.25	4152044.00	0.00007	565644.25	4152034.00	0.00008
565644.25	4152024.00	0.00009	565644.25	4152014.00	0.00011
565644.25	4152004.00	0.00014	565644.25	4151994.00	0.00018
565644.25	4151984.00	0.00022	565644.25	4151974.00	0.00026
565644.25	4151964.00	0.00029	565644.25	4151954.00	0.00030
565644.25	4151944.00	0.00030	565644.25	4151934.00	0.00028
565644.25	4151924.00	0.00026	565644.25	4151914.00	0.00023
565644.25	4151904.00	0.00020	565644.25	4151894.00	0.00017
565644.25	4151884.00	0.00015	565644.25	4151874.00	0.00013
565644.25	4151864.00	0.00011	565644.25	4151854.00	0.00010
565644.25	4151844.00	0.00009	565644.25	4151834.00	0.00007
565644.25	4151824.00	0.00007	565644.25	4151814.00	0.00006
565644.25	4151804.00	0.00005	565644.25	4151794.00	0.00005
565644.25	4151784.00	0.00004	565654.25	4152084.00	0.00004

565654.25 4152074.00 0.00004
565654.25 4152064.00 0.00005
565654.25 4152054.00 0.00006
565654.25 4152044.00 0.00006
565654.25 4152034.00 0.00007
565654.25 4152024.00 0.00009
565654.25 4152014.00 0.00012
565654.25 4152004.00 0.00016
565654.25 4151994.00 0.00021
565654.25 4151984.00 0.00024
565654.25 4151974.00 0.00027
565654.25 4151964.00 0.00028
565654.25 4151954.00 0.00028
565654.25 4151944.00 0.00026
565654.25 4151934.00 0.00025
565654.25 4151924.00 0.00023
565654.25 4151914.00 0.00020
565654.25 4151904.00 0.00018
565654.25 4151894.00 0.00016
565654.25 4151884.00 0.00014
565654.25 4151874.00 0.00012
565654.25 4151864.00 0.00011
565654.25 4151854.00 0.00009
565654.25 4151844.00 0.00008
565654.25 4151834.00 0.00007
565654.25 4151824.00 0.00006
565654.25 4151814.00 0.00006
565654.25 4151804.00 0.00005
565654.25 4151794.00 0.00005
565654.25 4151784.00 0.00004
565664.25 4152084.00 0.00003
565664.25 4152074.00 0.00004
565664.25 4152064.00 0.00005
565664.25 4152054.00 0.00006
565664.25 4152044.00 0.00006
565664.25 4152034.00 0.00007
565664.25 4152024.00 0.00010
565664.25 4152014.00 0.00014
565664.25 4152004.00 0.00018
565664.25 4151994.00 0.00022
565664.25 4151984.00 0.00025
565664.25 4151974.00 0.00025
565664.25 4151964.00 0.00025
565664.25 4151954.00 0.00025
565664.25 4151944.00 0.00023
565664.25 4151934.00 0.00022
565664.25 4151924.00 0.00020
565664.25 4151914.00 0.00018
565664.25 4151904.00 0.00016
565664.25 4151894.00 0.00014
565664.25 4151884.00 0.00013
565664.25 4151874.00 0.00011

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565664.25	4151864.00	0.00010	565664.25	4151854.00	0.00009
565664.25	4151844.00	0.00008	565664.25	4151834.00	0.00007
565664.25	4151824.00	0.00006	565664.25	4151814.00	0.00006
565664.25	4151804.00	0.00005	565664.25	4151794.00	0.00005
565664.25	4151784.00	0.00004	565674.25	4152084.00	0.00003
565674.25	4152074.00	0.00004	565674.25	4152064.00	0.00004
565674.25	4152054.00	0.00005	565674.25	4152044.00	0.00007
565674.25	4152034.00	0.00009	565674.25	4152024.00	0.00012
565674.25	4152014.00	0.00015	565674.25	4152004.00	0.00019
565674.25	4151994.00	0.00022	565674.25	4151984.00	0.00023
565674.25	4151974.00	0.00022	565674.25	4151964.00	0.00022
565674.25	4151954.00	0.00021	565674.25	4151944.00	0.00020
565674.25	4151934.00	0.00019	565674.25	4151924.00	0.00017
565674.25	4151914.00	0.00016	565674.25	4151904.00	0.00014

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         565674.25    4151894.00        0.00013
565674.25    4151884.00        0.00012
         565674.25    4151874.00        0.00010
565674.25    4151864.00        0.00009
         565674.25    4151854.00        0.00008
565674.25    4151844.00        0.00007
         565674.25    4151834.00        0.00007
565674.25    4151824.00        0.00006
         565674.25    4151814.00        0.00005
565674.25    4151804.00        0.00005
         565674.25    4151794.00        0.00004
565674.25    4151784.00        0.00004
         565684.25    4152084.00        0.00003
565684.25    4152074.00        0.00003
         565684.25    4152064.00        0.00004
565684.25    4152054.00        0.00005
         565684.25    4152044.00        0.00007
565684.25    4152034.00        0.00010
         565684.25    4152024.00        0.00013
565684.25    4152014.00        0.00016
         565684.25    4152004.00        0.00018
565684.25    4151994.00        0.00020
         565684.25    4151984.00        0.00020
565684.25    4151974.00        0.00019
         565684.25    4151964.00        0.00019
565684.25    4151954.00        0.00018
         565684.25    4151944.00        0.00018
565684.25    4151934.00        0.00017
         565684.25    4151924.00        0.00015
565684.25    4151914.00        0.00014
         565684.25    4151904.00        0.00013
565684.25    4151894.00        0.00012
         565684.25    4151884.00        0.00011
565684.25    4151874.00        0.00010
         565684.25    4151864.00        0.00009
565684.25    4151854.00        0.00008
         565684.25    4151844.00        0.00007
565684.25    4151834.00        0.00006
         565684.25    4151824.00        0.00006
565684.25    4151814.00        0.00005
         565684.25    4151804.00        0.00005
565684.25    4151794.00        0.00004
         565684.25    4151784.00        0.00004
565694.25    4152084.00        0.00003
         565694.25    4152074.00        0.00003
565694.25    4152064.00        0.00004
         565694.25    4152054.00        0.00005
565694.25    4152044.00        0.00007
         565694.25    4152034.00        0.00010
565694.25    4152024.00        0.00012
         565694.25    4152014.00        0.00015
565694.25    4152004.00        0.00016
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565694.25	4151994.00	0.00017	565694.25	4151984.00	0.00017
565694.25	4151974.00	0.00016	565694.25	4151964.00	0.00016
565694.25	4151954.00	0.00016	565694.25	4151944.00	0.00015
565694.25	4151934.00	0.00015	565694.25	4151924.00	0.00014
565694.25	4151914.00	0.00013	565694.25	4151904.00	0.00012
565694.25	4151894.00	0.00011	565694.25	4151884.00	0.00010
565694.25	4151874.00	0.00009	565694.25	4151864.00	0.00008
565694.25	4151854.00	0.00007	565694.25	4151844.00	0.00007
565694.25	4151834.00	0.00006	565694.25	4151824.00	0.00006
565694.25	4151814.00	0.00005	565694.25	4151804.00	0.00005
565694.25	4151794.00	0.00004	565694.25	4151784.00	0.00004
565704.25	4152084.00	0.00002	565704.25	4152074.00	0.00003
565704.25	4152064.00	0.00004	565704.25	4152054.00	0.00005
565704.25	4152044.00	0.00007	565704.25	4152034.00	0.00009

565704.25 4152024.00 0.00011
565704.25 4152014.00 0.00013
565704.25 4152004.00 0.00014
565704.25 4151994.00 0.00015
565704.25 4151984.00 0.00015
565704.25 4151974.00 0.00014
565704.25 4151964.00 0.00014
565704.25 4151954.00 0.00014
565704.25 4151944.00 0.00013
565704.25 4151934.00 0.00013
565704.25 4151924.00 0.00012
565704.25 4151914.00 0.00011
565704.25 4151904.00 0.00011
565704.25 4151894.00 0.00010
565704.25 4151884.00 0.00009
565704.25 4151874.00 0.00008
565704.25 4151864.00 0.00008
565704.25 4151854.00 0.00007
565704.25 4151844.00 0.00006
565704.25 4151834.00 0.00006
565704.25 4151824.00 0.00005
565704.25 4151814.00 0.00005
565704.25 4151804.00 0.00004
565704.25 4151794.00 0.00004
565704.25 4151784.00 0.00004
565714.25 4152084.00 0.00002
565714.25 4152074.00 0.00003
565714.25 4152064.00 0.00004
565714.25 4152054.00 0.00005
565714.25 4152044.00 0.00006
565714.25 4152034.00 0.00008
565714.25 4152024.00 0.00010
565714.25 4152014.00 0.00011
565714.25 4152004.00 0.00012
565714.25 4151994.00 0.00013
565714.25 4151984.00 0.00013
565714.25 4151974.00 0.00012
565714.25 4151964.00 0.00012
565714.25 4151954.00 0.00012
565714.25 4151944.00 0.00012
565714.25 4151934.00 0.00011
565714.25 4151924.00 0.00011
565714.25 4151914.00 0.00010
565714.25 4151904.00 0.00010
565714.25 4151894.00 0.00009
565714.25 4151884.00 0.00008
565714.25 4151874.00 0.00008
565714.25 4151864.00 0.00007
565714.25 4151854.00 0.00007
565714.25 4151844.00 0.00006
565714.25 4151834.00 0.00006
565714.25 4151824.00 0.00005

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565714.25	4151814.00	0.00005	565714.25	4151804.00	0.00004
565714.25	4151794.00	0.00004	565714.25	4151784.00	0.00004
565724.25	4152084.00	0.00002	565724.25	4152074.00	0.00003
565724.25	4152064.00	0.00004	565724.25	4152054.00	0.00004
565724.25	4152044.00	0.00006	565724.25	4152034.00	0.00007
565724.25	4152024.00	0.00008	565724.25	4152014.00	0.00009
565724.25	4152004.00	0.00010	565724.25	4151994.00	0.00011
565724.25	4151984.00	0.00011	565724.25	4151974.00	0.00011
565724.25	4151964.00	0.00011	565724.25	4151954.00	0.00011
565724.25	4151944.00	0.00011	565724.25	4151934.00	0.00010
565724.25	4151924.00	0.00010	565724.25	4151914.00	0.00009
565724.25	4151904.00	0.00009	565724.25	4151894.00	0.00008
565724.25	4151884.00	0.00008	565724.25	4151874.00	0.00007
565724.25	4151864.00	0.00007	565724.25	4151854.00	0.00006

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         565724.25    4151844.00        0.00006
565724.25    4151834.00        0.00005
         565724.25    4151824.00        0.00005
565724.25    4151814.00        0.00005
         565724.25    4151804.00        0.00004
565724.25    4151794.00        0.00004
         565724.25    4151784.00        0.00004
565734.25    4152084.00        0.00002
         565734.25    4152074.00        0.00003
565734.25    4152064.00        0.00003
         565734.25    4152054.00        0.00004
565734.25    4152044.00        0.00005
         565734.25    4152034.00        0.00006
565734.25    4152024.00        0.00007
         565734.25    4152014.00        0.00008
565734.25    4152004.00        0.00009
         565734.25    4151994.00        0.00009
565734.25    4151984.00        0.00009
         565734.25    4151974.00        0.00010
565734.25    4151964.00        0.00010
         565734.25    4151954.00        0.00010
565734.25    4151944.00        0.00009
         565734.25    4151934.00        0.00009
565734.25    4151924.00        0.00009
         565734.25    4151914.00        0.00008
565734.25    4151904.00        0.00008
         565734.25    4151894.00        0.00007
565734.25    4151884.00        0.00007
         565734.25    4151874.00        0.00007
565734.25    4151864.00        0.00006
         565734.25    4151854.00        0.00006
565734.25    4151844.00        0.00005
         565734.25    4151834.00        0.00005
565734.25    4151824.00        0.00005
         565734.25    4151814.00        0.00004
565734.25    4151804.00        0.00004
         565734.25    4151794.00        0.00004
565734.25    4151784.00        0.00003
         565744.25    4152084.00        0.00002
565744.25    4152074.00        0.00003
         565744.25    4152064.00        0.00003
565744.25    4152054.00        0.00004
         565744.25    4152044.00        0.00005
565744.25    4152034.00        0.00005
         565744.25    4152024.00        0.00006
565744.25    4152014.00        0.00007
         565744.25    4152004.00        0.00008
565744.25    4151994.00        0.00008
         565744.25    4151984.00        0.00008
565744.25    4151974.00        0.00008
         565744.25    4151964.00        0.00009
565744.25    4151954.00        0.00009
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565744.25	4151944.00	0.00008	565744.25	4151934.00	0.00008
565744.25	4151924.00	0.00008	565744.25	4151914.00	0.00008
565744.25	4151904.00	0.00007	565744.25	4151894.00	0.00007
565744.25	4151884.00	0.00007	565744.25	4151874.00	0.00006
565744.25	4151864.00	0.00006	565744.25	4151854.00	0.00005
565744.25	4151844.00	0.00005	565744.25	4151834.00	0.00005
565744.25	4151824.00	0.00004	565744.25	4151814.00	0.00004
565744.25	4151804.00	0.00004	565744.25	4151794.00	0.00004
565744.25	4151784.00	0.00003	565754.25	4152084.00	0.00002
565754.25	4152074.00	0.00003	565754.25	4152064.00	0.00003
565754.25	4152054.00	0.00004	565754.25	4152044.00	0.00004
565754.25	4152034.00	0.00005	565754.25	4152024.00	0.00006
565754.25	4152014.00	0.00006	565754.25	4152004.00	0.00007
565754.25	4151994.00	0.00007	565754.25	4151984.00	0.00007

565754.25 4151974.00 0.00008
565754.25 4151964.00 0.00008
565754.25 4151954.00 0.00008
565754.25 4151944.00 0.00008
565754.25 4151934.00 0.00007
565754.25 4151924.00 0.00007
565754.25 4151914.00 0.00007
565754.25 4151904.00 0.00007
565754.25 4151894.00 0.00006
565754.25 4151884.00 0.00006
565754.25 4151874.00 0.00006
565754.25 4151864.00 0.00005
565754.25 4151854.00 0.00005
565754.25 4151844.00 0.00005
565754.25 4151834.00 0.00005
565754.25 4151824.00 0.00004
565754.25 4151814.00 0.00004
565754.25 4151804.00 0.00004
565754.25 4151794.00 0.00003
565754.25 4151784.00 0.00003
565764.25 4152084.00 0.00002
565764.25 4152074.00 0.00002
565764.25 4152064.00 0.00003
565764.25 4152054.00 0.00003
565764.25 4152044.00 0.00004
565764.25 4152034.00 0.00004
565764.25 4152024.00 0.00005
565764.25 4152014.00 0.00006
565764.25 4152004.00 0.00006
565764.25 4151994.00 0.00006
565764.25 4151984.00 0.00007
565764.25 4151974.00 0.00007
565764.25 4151964.00 0.00007
565764.25 4151954.00 0.00007
565764.25 4151944.00 0.00007
565764.25 4151934.00 0.00007
565764.25 4151924.00 0.00007
565764.25 4151914.00 0.00006
565764.25 4151904.00 0.00006
565764.25 4151894.00 0.00006
565764.25 4151884.00 0.00006
565764.25 4151874.00 0.00005
565764.25 4151864.00 0.00005
565764.25 4151854.00 0.00005
565764.25 4151844.00 0.00005
565764.25 4151834.00 0.00004
565764.25 4151824.00 0.00004
565764.25 4151814.00 0.00004
565764.25 4151804.00 0.00004
565764.25 4151794.00 0.00003
565764.25 4151784.00 0.00003
565564.25 4151974.00 0.00022

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565564.25	4151964.00	0.00023	565564.25	4151954.00	0.00022
565564.25	4151944.00	0.00021	565564.25	4151934.00	0.00022
565564.25	4151924.00	0.00024	565564.25	4151914.00	0.00025
565564.25	4151904.00	0.00023	565564.25	4151894.00	0.00020
565564.25	4151884.00	0.00017	565564.25	4151874.00	0.00014
565564.25	4151864.00	0.00012	565564.25	4151854.00	0.00010
565564.25	4151844.00	0.00009	565564.25	4151834.00	0.00008
565564.25	4151824.00	0.00007	565564.25	4151814.00	0.00006
565564.25	4151804.00	0.00005	565564.25	4151794.00	0.00005
565564.25	4151784.00	0.00004	565554.25	4151974.00	0.00022
565554.25	4151964.00	0.00021	565554.25	4151954.00	0.00020
565554.25	4151944.00	0.00021	565554.25	4151934.00	0.00023
565554.25	4151924.00	0.00024	565554.25	4151914.00	0.00023
565554.25	4151904.00	0.00020	565554.25	4151894.00	0.00017

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         565554.25    4151884.00        0.00015
565554.25    4151874.00        0.00013
         565554.25    4151864.00        0.00011
565554.25    4151854.00        0.00009
         565554.25    4151844.00        0.00008
565554.25    4151834.00        0.00007
         565554.25    4151824.00        0.00006
565554.25    4151814.00        0.00006
         565554.25    4151804.00        0.00005
565554.25    4151794.00        0.00005
         565554.25    4151784.00        0.00004
565544.25    4151974.00        0.00021
         565544.25    4151964.00        0.00020
565544.25    4151954.00        0.00020
         565544.25    4151944.00        0.00022
565544.25    4151934.00        0.00024
         565544.25    4151924.00        0.00023
565544.25    4151914.00        0.00020
         565544.25    4151904.00        0.00018
565544.25    4151894.00        0.00015
         565544.25    4151884.00        0.00013
565544.25    4151874.00        0.00011
         565544.25    4151864.00        0.00010
565544.25    4151854.00        0.00009
         565544.25    4151844.00        0.00008
565544.25    4151834.00        0.00007
         565544.25    4151824.00        0.00006
565544.25    4151814.00        0.00005
         565544.25    4151804.00        0.00005
565544.25    4151794.00        0.00004
         565544.25    4151784.00        0.00004
565534.25    4151974.00        0.00020
         565534.25    4151964.00        0.00020
565534.25    4151954.00        0.00022
         565534.25    4151944.00        0.00023
565534.25    4151934.00        0.00022
         565534.25    4151924.00        0.00020
565534.25    4151914.00        0.00017
         565534.25    4151904.00        0.00015
565534.25    4151894.00        0.00013
         565534.25    4151884.00        0.00011
565534.25    4151874.00        0.00010
         565534.25    4151864.00        0.00009
565534.25    4151854.00        0.00008
         565534.25    4151844.00        0.00007
565534.25    4151834.00        0.00006
         565534.25    4151824.00        0.00006
565534.25    4151814.00        0.00005
         565534.25    4151804.00        0.00005
565534.25    4151794.00        0.00004
         565534.25    4151784.00        0.00004
565524.25    4151974.00        0.00020
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565524.25	4151964.00	0.00021	565524.25	4151954.00	0.00023
565524.25	4151944.00	0.00022	565524.25	4151934.00	0.00020
565524.25	4151924.00	0.00017	565524.25	4151914.00	0.00015
565524.25	4151904.00	0.00013	565524.25	4151894.00	0.00011
565524.25	4151884.00	0.00010	565524.25	4151874.00	0.00009
565524.25	4151864.00	0.00008	565524.25	4151854.00	0.00007
565524.25	4151844.00	0.00006	565524.25	4151834.00	0.00006
565524.25	4151824.00	0.00005	565524.25	4151814.00	0.00005
565524.25	4151804.00	0.00004	565524.25	4151794.00	0.00004
565524.25	4151784.00	0.00004	565514.25	4151974.00	0.00021
565514.25	4151964.00	0.00022	565514.25	4151954.00	0.00022
565514.25	4151944.00	0.00020	565514.25	4151934.00	0.00017
565514.25	4151924.00	0.00015	565514.25	4151914.00	0.00013
565514.25	4151904.00	0.00011	565514.25	4151894.00	0.00010

565514.25 4151884.00 0.00009
565514.25 4151874.00 0.00008
565514.25 4151864.00 0.00007
565514.25 4151854.00 0.00006
565514.25 4151844.00 0.00006
565514.25 4151834.00 0.00005
565514.25 4151824.00 0.00005
565514.25 4151814.00 0.00004
565514.25 4151804.00 0.00004
565514.25 4151794.00 0.00004
565514.25 4151784.00 0.00003
565504.25 4151974.00 0.00022
565504.25 4151964.00 0.00022
565504.25 4151954.00 0.00020
565504.25 4151944.00 0.00017
565504.25 4151934.00 0.00015
565504.25 4151924.00 0.00013
565504.25 4151914.00 0.00011
565504.25 4151904.00 0.00010
565504.25 4151894.00 0.00009
565504.25 4151884.00 0.00008
565504.25 4151874.00 0.00007
565504.25 4151864.00 0.00006
565504.25 4151854.00 0.00006
565504.25 4151844.00 0.00005
565504.25 4151834.00 0.00005
565504.25 4151824.00 0.00004
565504.25 4151814.00 0.00004
565504.25 4151804.00 0.00004
565504.25 4151794.00 0.00003
565504.25 4151784.00 0.00003
565494.25 4151974.00 0.00022
565494.25 4151964.00 0.00020
565494.25 4151954.00 0.00017
565494.25 4151944.00 0.00015
565494.25 4151934.00 0.00013
565494.25 4151924.00 0.00011
565494.25 4151914.00 0.00010
565494.25 4151904.00 0.00009
565494.25 4151894.00 0.00008
565494.25 4151884.00 0.00007
565494.25 4151874.00 0.00006
565494.25 4151864.00 0.00006
565494.25 4151854.00 0.00005
565494.25 4151844.00 0.00005
565494.25 4151834.00 0.00004
565494.25 4151824.00 0.00004
565494.25 4151814.00 0.00004
565494.25 4151804.00 0.00003
565494.25 4151794.00 0.00003
565494.25 4151784.00 0.00003
565484.25 4151974.00 0.00019

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565484.25	4151964.00	0.00017	565484.25	4151954.00	0.00015
565484.25	4151944.00	0.00013	565484.25	4151934.00	0.00011
565484.25	4151924.00	0.00009	565484.25	4151914.00	0.00008
565484.25	4151904.00	0.00007	565484.25	4151894.00	0.00007
565484.25	4151884.00	0.00006	565484.25	4151874.00	0.00006
565484.25	4151864.00	0.00005	565484.25	4151854.00	0.00005
565484.25	4151844.00	0.00004	565484.25	4151834.00	0.00004
565484.25	4151824.00	0.00004	565484.25	4151814.00	0.00003
565484.25	4151804.00	0.00003	565484.25	4151794.00	0.00003
565484.25	4151784.00	0.00003	565474.25	4151974.00	0.00016
565474.25	4151964.00	0.00014	565474.25	4151954.00	0.00012
565474.25	4151944.00	0.00010	565474.25	4151934.00	0.00009
565474.25	4151924.00	0.00008	565474.25	4151914.00	0.00007
565474.25	4151904.00	0.00006	565474.25	4151894.00	0.00006

565474.25 4151884.00 0.00005
565474.25 4151874.00 0.00005
565474.25 4151864.00 0.00004
565474.25 4151854.00 0.00004
565474.25 4151844.00 0.00004
565474.25 4151834.00 0.00004
565474.25 4151824.00 0.00003
565474.25 4151814.00 0.00003
565474.25 4151804.00 0.00003
565474.25 4151794.00 0.00003
565474.25 4151784.00 0.00003
565464.25 4151974.00 0.00013
565464.25 4151964.00 0.00011
565464.25 4151954.00 0.00010
565464.25 4151944.00 0.00009
565464.25 4151934.00 0.00008
565464.25 4151924.00 0.00007
565464.25 4151914.00 0.00006
565464.25 4151904.00 0.00006
565464.25 4151894.00 0.00005
565464.25 4151884.00 0.00005
565464.25 4151874.00 0.00004
565464.25 4151864.00 0.00004
565464.25 4151854.00 0.00004
565464.25 4151844.00 0.00003
565464.25 4151834.00 0.00003
565464.25 4151824.00 0.00003
565464.25 4151814.00 0.00003
565464.25 4151804.00 0.00003
565464.25 4151794.00 0.00002
565464.25 4151784.00 0.00002
565454.25 4151974.00 0.00010
565454.25 4151964.00 0.00009
565454.25 4151954.00 0.00008
565454.25 4151944.00 0.00007
565454.25 4151934.00 0.00006
565454.25 4151924.00 0.00006
565454.25 4151914.00 0.00005
565454.25 4151904.00 0.00005
565454.25 4151894.00 0.00004
565454.25 4151884.00 0.00004
565454.25 4151874.00 0.00004
565454.25 4151864.00 0.00004
565454.25 4151854.00 0.00003
565454.25 4151844.00 0.00003
565454.25 4151834.00 0.00003
565454.25 4151824.00 0.00003
565454.25 4151814.00 0.00003
565454.25 4151804.00 0.00002
565454.25 4151794.00 0.00002
565454.25 4151784.00 0.00002
565444.25 4151974.00 0.00007

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565444.25	4151964.00	0.00007	565444.25	4151954.00	0.00006
565444.25	4151944.00	0.00006	565444.25	4151934.00	0.00005
565444.25	4151924.00	0.00005	565444.25	4151914.00	0.00004
565444.25	4151904.00	0.00004	565444.25	4151894.00	0.00004
565444.25	4151884.00	0.00004	565444.25	4151874.00	0.00003
565444.25	4151864.00	0.00003	565444.25	4151854.00	0.00003
565444.25	4151844.00	0.00003	565444.25	4151834.00	0.00003
565444.25	4151824.00	0.00002	565444.25	4151814.00	0.00002
565444.25	4151804.00	0.00002	565444.25	4151794.00	0.00002
565444.25	4151784.00	0.00002	565434.25	4151974.00	0.00005
565434.25	4151964.00	0.00005	565434.25	4151954.00	0.00005
565434.25	4151944.00	0.00004	565434.25	4151934.00	0.00004
565434.25	4151924.00	0.00004	565434.25	4151914.00	0.00004
565434.25	4151904.00	0.00003	565434.25	4151894.00	0.00003

565434.25 4151884.00 0.00003
565434.25 4151874.00 0.00003
565434.25 4151864.00 0.00003
565434.25 4151854.00 0.00003
565434.25 4151844.00 0.00002
565434.25 4151834.00 0.00002
565434.25 4151824.00 0.00002
565434.25 4151814.00 0.00002
565434.25 4151804.00 0.00002
565434.25 4151794.00 0.00002
565434.25 4151784.00 0.00002
565424.25 4151974.00 0.00004
565424.25 4151964.00 0.00004
565424.25 4151954.00 0.00004
565424.25 4151944.00 0.00004
565424.25 4151934.00 0.00003
565424.25 4151924.00 0.00003
565424.25 4151914.00 0.00003
565424.25 4151904.00 0.00003
565424.25 4151894.00 0.00003
565424.25 4151884.00 0.00003
565424.25 4151874.00 0.00003
565424.25 4151864.00 0.00002
565424.25 4151854.00 0.00002
565424.25 4151844.00 0.00002
565424.25 4151834.00 0.00002
565424.25 4151824.00 0.00002
565424.25 4151814.00 0.00002
565424.25 4151804.00 0.00002
565424.25 4151794.00 0.00002
565424.25 4151784.00 0.00002
565414.25 4151974.00 0.00003
565414.25 4151964.00 0.00003
565414.25 4151954.00 0.00003
565414.25 4151944.00 0.00003
565414.25 4151934.00 0.00003
565414.25 4151924.00 0.00003
565414.25 4151914.00 0.00003
565414.25 4151904.00 0.00002
565414.25 4151894.00 0.00002
565414.25 4151884.00 0.00002
565414.25 4151874.00 0.00002
565414.25 4151864.00 0.00002
565414.25 4151854.00 0.00002
565414.25 4151844.00 0.00002
565414.25 4151834.00 0.00002
565414.25 4151824.00 0.00002
565414.25 4151814.00 0.00002
565414.25 4151804.00 0.00002
565414.25 4151794.00 0.00002
565414.25 4151784.00 0.00001
565404.25 4151974.00 0.00002

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565404.25	4151964.00	0.00002	565404.25	4151954.00	0.00002
565404.25	4151944.00	0.00002	565404.25	4151934.00	0.00002
565404.25	4151924.00	0.00002	565404.25	4151914.00	0.00002
565404.25	4151904.00	0.00002	565404.25	4151894.00	0.00002
565404.25	4151884.00	0.00002	565404.25	4151874.00	0.00002
565404.25	4151864.00	0.00002	565404.25	4151854.00	0.00002
565404.25	4151844.00	0.00002	565404.25	4151834.00	0.00002
565404.25	4151824.00	0.00002	565404.25	4151814.00	0.00002
565404.25	4151804.00	0.00001	565404.25	4151794.00	0.00001
565404.25	4151784.00	0.00001	565394.25	4151974.00	0.00002
565394.25	4151964.00	0.00002	565394.25	4151954.00	0.00002
565394.25	4151944.00	0.00002	565394.25	4151934.00	0.00002
565394.25	4151924.00	0.00002	565394.25	4151914.00	0.00002
565394.25	4151904.00	0.00002	565394.25	4151894.00	0.00002

565394.25 4151884.00 0.00002
565394.25 4151874.00 0.00002
565394.25 4151864.00 0.00002
565394.25 4151854.00 0.00002
565394.25 4151844.00 0.00001
565394.25 4151834.00 0.00001
565394.25 4151824.00 0.00001
565394.25 4151814.00 0.00001
565394.25 4151804.00 0.00001
565394.25 4151794.00 0.00001
565394.25 4151784.00 0.00001
565384.25 4151974.00 0.00001
565384.25 4151964.00 0.00001
565384.25 4151954.00 0.00002
565384.25 4151944.00 0.00002
565384.25 4151934.00 0.00002
565384.25 4151924.00 0.00002
565384.25 4151914.00 0.00002
565384.25 4151904.00 0.00001
565384.25 4151894.00 0.00001
565384.25 4151884.00 0.00001
565384.25 4151874.00 0.00001
565384.25 4151864.00 0.00001
565384.25 4151854.00 0.00001
565384.25 4151844.00 0.00001
565384.25 4151834.00 0.00001
565384.25 4151824.00 0.00001
565384.25 4151814.00 0.00001
565384.25 4151804.00 0.00001
565384.25 4151794.00 0.00001
565384.25 4151784.00 0.00001
565374.25 4151974.00 0.00001
565374.25 4151964.00 0.00001
565374.25 4151954.00 0.00001
565374.25 4151944.00 0.00001
565374.25 4151934.00 0.00001
565374.25 4151924.00 0.00001
565374.25 4151914.00 0.00001
565374.25 4151904.00 0.00001
565374.25 4151894.00 0.00001
565374.25 4151884.00 0.00001
565374.25 4151874.00 0.00001
565374.25 4151864.00 0.00001
565374.25 4151854.00 0.00001
565374.25 4151844.00 0.00001
565374.25 4151834.00 0.00001
565374.25 4151824.00 0.00001
565374.25 4151814.00 0.00001
565374.25 4151804.00 0.00001
565374.25 4151794.00 0.00001
565374.25 4151784.00 0.00001
565364.25 4151974.00 0.00001

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565364.25	4151964.00	0.00001	565364.25	4151954.00	0.00001
565364.25	4151944.00	0.00001	565364.25	4151934.00	0.00001
565364.25	4151924.00	0.00001	565364.25	4151914.00	0.00001
565364.25	4151904.00	0.00001	565364.25	4151894.00	0.00001
565364.25	4151884.00	0.00001	565364.25	4151874.00	0.00001
565364.25	4151864.00	0.00001	565364.25	4151854.00	0.00001
565364.25	4151844.00	0.00001	565364.25	4151834.00	0.00001
565364.25	4151824.00	0.00001	565364.25	4151814.00	0.00001
565364.25	4151804.00	0.00001	565364.25	4151794.00	0.00001
565364.25	4151784.00	0.00001	565354.25	4151974.00	0.00001
565354.25	4151964.00	0.00001	565354.25	4151954.00	0.00001
565354.25	4151944.00	0.00001	565354.25	4151934.00	0.00001
565354.25	4151924.00	0.00001	565354.25	4151914.00	0.00001
565354.25	4151904.00	0.00001	565354.25	4151894.00	0.00001

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         565354.25    4151884.00        0.00001
565354.25    4151874.00        0.00001
         565354.25    4151864.00        0.00001
565354.25    4151854.00        0.00001
         565354.25    4151844.00        0.00001
565354.25    4151834.00        0.00001
         565354.25    4151824.00        0.00001
565354.25    4151814.00        0.00001
         565354.25    4151804.00        0.00001
565354.25    4151794.00        0.00001
         565354.25    4151784.00        0.00001
565344.25    4151974.00        0.00001
         565344.25    4151964.00        0.00001
565344.25    4151954.00        0.00001
         565344.25    4151944.00        0.00001
565344.25    4151934.00        0.00001
         565344.25    4151924.00        0.00001
565344.25    4151914.00        0.00001
         565344.25    4151904.00        0.00001
565344.25    4151894.00        0.00001
         565344.25    4151884.00        0.00001
565344.25    4151874.00        0.00001
         565344.25    4151864.00        0.00001
565344.25    4151854.00        0.00001
         565344.25    4151844.00        0.00001
565344.25    4151834.00        0.00001
         565344.25    4151824.00        0.00001
565344.25    4151814.00        0.00001
         565344.25    4151804.00        0.00001
565344.25    4151794.00        0.00001
         565344.25    4151784.00        0.00001
565334.25    4151974.00        0.00001
         565334.25    4151964.00        0.00001
565334.25    4151954.00        0.00001
         565334.25    4151944.00        0.00001
565334.25    4151934.00        0.00001
         565334.25    4151924.00        0.00001
565334.25    4151914.00        0.00001
         565334.25    4151904.00        0.00001
565334.25    4151894.00        0.00001
         565334.25    4151884.00        0.00001
565334.25    4151874.00        0.00001
         565334.25    4151864.00        0.00001
565334.25    4151854.00        0.00001
         565334.25    4151844.00        0.00001
565334.25    4151834.00        0.00001
         565334.25    4151824.00        0.00001
565334.25    4151814.00        0.00001
         565334.25    4151804.00        0.00001
565334.25    4151794.00        0.00001
         565334.25    4151784.00        0.00001
565324.25    4151974.00        0.00001
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565324.25	4151964.00	0.00001	565324.25	4151954.00	0.00001
565324.25	4151944.00	0.00001	565324.25	4151934.00	0.00001
565324.25	4151924.00	0.00001	565324.25	4151914.00	0.00001
565324.25	4151904.00	0.00001	565324.25	4151894.00	0.00001
565324.25	4151884.00	0.00001	565324.25	4151874.00	0.00001
565324.25	4151864.00	0.00001	565324.25	4151854.00	0.00001
565324.25	4151844.00	0.00001	565324.25	4151834.00	0.00001
565324.25	4151824.00	0.00001	565324.25	4151814.00	0.00001
565324.25	4151804.00	0.00001	565324.25	4151794.00	0.00001
565324.25	4151784.00	0.00001	565314.25	4151974.00	0.00001
565314.25	4151964.00	0.00001	565314.25	4151954.00	0.00001
565314.25	4151944.00	0.00001	565314.25	4151934.00	0.00001
565314.25	4151924.00	0.00001	565314.25	4151914.00	0.00001
565314.25	4151904.00	0.00001	565314.25	4151894.00	0.00001

565314.25 4151884.00 0.00001
565314.25 4151874.00 0.00001
565314.25 4151864.00 0.00001
565314.25 4151854.00 0.00001
565314.25 4151844.00 0.00001
565314.25 4151834.00 0.00001
565314.25 4151824.00 0.00001
565314.25 4151814.00 0.00001
565314.25 4151804.00 0.00001
565314.25 4151794.00 0.00001
565314.25 4151784.00 0.00001
565304.25 4151974.00 0.00001
565304.25 4151964.00 0.00001
565304.25 4151954.00 0.00001
565304.25 4151944.00 0.00001
565304.25 4151934.00 0.00001
565304.25 4151924.00 0.00001
565304.25 4151914.00 0.00001
565304.25 4151904.00 0.00001
565304.25 4151894.00 0.00001
565304.25 4151884.00 0.00001
565304.25 4151874.00 0.00001
565304.25 4151864.00 0.00001
565304.25 4151854.00 0.00001
565304.25 4151844.00 0.00001
565304.25 4151834.00 0.00001
565304.25 4151824.00 0.00001
565304.25 4151814.00 0.00001
565304.25 4151804.00 0.00001
565304.25 4151794.00 0.00001
565304.25 4151784.00 0.00000
565294.25 4151974.00 0.00000
565294.25 4151964.00 0.00000
565294.25 4151954.00 0.00000
565294.25 4151944.00 0.00000
565294.25 4151934.00 0.00000
565294.25 4151924.00 0.00000
565294.25 4151914.00 0.00000
565294.25 4151904.00 0.00000
565294.25 4151894.00 0.00000
565294.25 4151884.00 0.00000
565294.25 4151874.00 0.00000
565294.25 4151864.00 0.00000
565294.25 4151854.00 0.00000
565294.25 4151844.00 0.00000
565294.25 4151834.00 0.00000
565294.25 4151824.00 0.00000
565294.25 4151814.00 0.00000
565294.25 4151804.00 0.00000
565294.25 4151794.00 0.00000
565294.25 4151784.00 0.00000
565284.25 4151974.00 0.00000

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565284.25	4151964.00	0.00000	565284.25	4151954.00	0.00000
565284.25	4151944.00	0.00000	565284.25	4151934.00	0.00000
565284.25	4151924.00	0.00000	565284.25	4151914.00	0.00000
565284.25	4151904.00	0.00000	565284.25	4151894.00	0.00000
565284.25	4151884.00	0.00000	565284.25	4151874.00	0.00000
565284.25	4151864.00	0.00000	565284.25	4151854.00	0.00000
565284.25	4151844.00	0.00000	565284.25	4151834.00	0.00000
565284.25	4151824.00	0.00000	565284.25	4151814.00	0.00000
565284.25	4151804.00	0.00000	565284.25	4151794.00	0.00000
565284.25	4151784.00	0.00000	565274.25	4151974.00	0.00000
565274.25	4151964.00	0.00000	565274.25	4151954.00	0.00000
565274.25	4151944.00	0.00000	565274.25	4151934.00	0.00000
565274.25	4151924.00	0.00000	565274.25	4151914.00	0.00000
565274.25	4151904.00	0.00000	565274.25	4151894.00	0.00000

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         565274.25    4151884.00        0.00000
565274.25    4151874.00        0.00000
         565274.25    4151864.00        0.00000
565274.25    4151854.00        0.00000
         565274.25    4151844.00        0.00000
565274.25    4151834.00        0.00000
         565274.25    4151824.00        0.00000
565274.25    4151814.00        0.00000
         565274.25    4151804.00        0.00000
565274.25    4151794.00        0.00000
         565274.25    4151784.00        0.00000
565264.25    4151974.00        0.00000
         565264.25    4151964.00        0.00000
565264.25    4151954.00        0.00000
         565264.25    4151944.00        0.00000
565264.25    4151934.00        0.00000
         565264.25    4151924.00        0.00000
565264.25    4151914.00        0.00000
         565264.25    4151904.00        0.00000
565264.25    4151894.00        0.00000
         565264.25    4151884.00        0.00000
565264.25    4151874.00        0.00000
         565264.25    4151864.00        0.00000
565264.25    4151854.00        0.00000
         565264.25    4151844.00        0.00000
565264.25    4151834.00        0.00000
         565264.25    4151824.00        0.00000
565264.25    4151814.00        0.00000
         565264.25    4151804.00        0.00000
565264.25    4151794.00        0.00000
         565264.25    4151784.00        0.00000
565454.25    4151984.00        0.00011
         565454.25    4151994.00        0.00011
565454.25    4152004.00        0.00011
         565454.25    4152014.00        0.00009
565454.25    4152024.00        0.00007
         565454.25    4152034.00        0.00006
565454.25    4152044.00        0.00006
         565454.25    4152054.00        0.00006
565454.25    4152064.00        0.00005
         565454.25    4152074.00        0.00005
565454.25    4152084.00        0.00004
         565454.25    4152094.00        0.00004
565454.25    4152104.00        0.00003
         565454.25    4152114.00        0.00003
565454.25    4152124.00        0.00002
         565454.25    4152134.00        0.00002
565454.25    4152144.00        0.00002
         565454.25    4152154.00        0.00002
565454.25    4152164.00        0.00002
         565454.25    4152174.00        0.00001
565454.25    4152184.00        0.00001
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565454.25	4152194.00	0.00001	565454.25	4152204.00	0.00001
565454.25	4152214.00	0.00001	565454.25	4152224.00	0.00001
565454.25	4152234.00	0.00001	565454.25	4152244.00	0.00001
565454.25	4152254.00	0.00001	565454.25	4152264.00	0.00001
565454.25	4152274.00	0.00001	565454.25	4152284.00	0.00001
565444.25	4151984.00	0.00008	565444.25	4151994.00	0.00008
565444.25	4152004.00	0.00007	565444.25	4152014.00	0.00007
565444.25	4152024.00	0.00006	565444.25	4152034.00	0.00005
565444.25	4152044.00	0.00005	565444.25	4152054.00	0.00005
565444.25	4152064.00	0.00004	565444.25	4152074.00	0.00004
565444.25	4152084.00	0.00004	565444.25	4152094.00	0.00003
565444.25	4152104.00	0.00003	565444.25	4152114.00	0.00003
565444.25	4152124.00	0.00002	565444.25	4152134.00	0.00002
565444.25	4152144.00	0.00002	565444.25	4152154.00	0.00002

565444.25 4152164.00 0.00002
565444.25 4152174.00 0.00001
565444.25 4152184.00 0.00001
565444.25 4152194.00 0.00001
565444.25 4152204.00 0.00001
565444.25 4152214.00 0.00001
565444.25 4152224.00 0.00001
565444.25 4152234.00 0.00001
565444.25 4152244.00 0.00001
565444.25 4152254.00 0.00001
565444.25 4152264.00 0.00001
565444.25 4152274.00 0.00001
565444.25 4152284.00 0.00001
565434.25 4151984.00 0.00005
565434.25 4151994.00 0.00005
565434.25 4152004.00 0.00005
565434.25 4152014.00 0.00005
565434.25 4152024.00 0.00004
565434.25 4152034.00 0.00004
565434.25 4152044.00 0.00004
565434.25 4152054.00 0.00004
565434.25 4152064.00 0.00004
565434.25 4152074.00 0.00003
565434.25 4152084.00 0.00003
565434.25 4152094.00 0.00003
565434.25 4152104.00 0.00003
565434.25 4152114.00 0.00002
565434.25 4152124.00 0.00002
565434.25 4152134.00 0.00002
565434.25 4152144.00 0.00002
565434.25 4152154.00 0.00002
565434.25 4152164.00 0.00001
565434.25 4152174.00 0.00001
565434.25 4152184.00 0.00001
565434.25 4152194.00 0.00001
565434.25 4152204.00 0.00001
565434.25 4152214.00 0.00001
565434.25 4152224.00 0.00001
565434.25 4152234.00 0.00001
565434.25 4152244.00 0.00001
565434.25 4152254.00 0.00001
565434.25 4152264.00 0.00001
565434.25 4152274.00 0.00001
565434.25 4152284.00 0.00001
565424.25 4151984.00 0.00004
565424.25 4151994.00 0.00004
565424.25 4152004.00 0.00004
565424.25 4152014.00 0.00003
565424.25 4152024.00 0.00003
565424.25 4152034.00 0.00003
565424.25 4152044.00 0.00003
565424.25 4152054.00 0.00003

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565424.25	4152064.00	0.00003	565424.25	4152074.00	0.00003
565424.25	4152084.00	0.00003	565424.25	4152094.00	0.00002
565424.25	4152104.00	0.00002	565424.25	4152114.00	0.00002
565424.25	4152124.00	0.00002	565424.25	4152134.00	0.00002
565424.25	4152144.00	0.00002	565424.25	4152154.00	0.00002
565424.25	4152164.00	0.00001	565424.25	4152174.00	0.00001
565424.25	4152184.00	0.00001	565424.25	4152194.00	0.00001
565424.25	4152204.00	0.00001	565424.25	4152214.00	0.00001
565424.25	4152224.00	0.00001	565424.25	4152234.00	0.00001
565424.25	4152244.00	0.00001	565424.25	4152254.00	0.00001
565424.25	4152264.00	0.00001	565424.25	4152274.00	0.00001
565424.25	4152284.00	0.00001	565414.25	4151984.00	0.00003
565414.25	4151994.00	0.00003	565414.25	4152004.00	0.00003
565414.25	4152014.00	0.00003	565414.25	4152024.00	0.00002

565414.25 4152034.00 0.00002
565414.25 4152044.00 0.00002
565414.25 4152054.00 0.00002
565414.25 4152064.00 0.00002
565414.25 4152074.00 0.00002
565414.25 4152084.00 0.00002
565414.25 4152094.00 0.00002
565414.25 4152104.00 0.00002
565414.25 4152114.00 0.00002
565414.25 4152124.00 0.00002
565414.25 4152134.00 0.00002
565414.25 4152144.00 0.00002
565414.25 4152154.00 0.00001
565414.25 4152164.00 0.00001
565414.25 4152174.00 0.00001
565414.25 4152184.00 0.00001
565414.25 4152194.00 0.00001
565414.25 4152204.00 0.00001
565414.25 4152214.00 0.00001
565414.25 4152224.00 0.00001
565414.25 4152234.00 0.00001
565414.25 4152244.00 0.00001
565414.25 4152254.00 0.00001
565414.25 4152264.00 0.00001
565414.25 4152274.00 0.00001
565414.25 4152284.00 0.00001
565404.25 4151984.00 0.00002
565404.25 4151994.00 0.00002
565404.25 4152004.00 0.00002
565404.25 4152014.00 0.00002
565404.25 4152024.00 0.00002
565404.25 4152034.00 0.00002
565404.25 4152044.00 0.00002
565404.25 4152054.00 0.00002
565404.25 4152064.00 0.00002
565404.25 4152074.00 0.00002
565404.25 4152084.00 0.00002
565404.25 4152094.00 0.00002
565404.25 4152104.00 0.00002
565404.25 4152114.00 0.00002
565404.25 4152124.00 0.00002
565404.25 4152134.00 0.00002
565404.25 4152144.00 0.00001
565404.25 4152154.00 0.00001
565404.25 4152164.00 0.00001
565404.25 4152174.00 0.00001
565404.25 4152184.00 0.00001
565404.25 4152194.00 0.00001
565404.25 4152204.00 0.00001
565404.25 4152214.00 0.00001
565404.25 4152224.00 0.00001
565404.25 4152234.00 0.00001

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565404.25	4152244.00	0.00001	565404.25	4152254.00	0.00001
565404.25	4152264.00	0.00001	565404.25	4152274.00	0.00001
565404.25	4152284.00	0.00001	565394.25	4151984.00	0.00002
565394.25	4151994.00	0.00002	565394.25	4152004.00	0.00002
565394.25	4152014.00	0.00002	565394.25	4152024.00	0.00002
565394.25	4152034.00	0.00002	565394.25	4152044.00	0.00002
565394.25	4152054.00	0.00002	565394.25	4152064.00	0.00002
565394.25	4152074.00	0.00002	565394.25	4152084.00	0.00002
565394.25	4152094.00	0.00002	565394.25	4152104.00	0.00002
565394.25	4152114.00	0.00001	565394.25	4152124.00	0.00001
565394.25	4152134.00	0.00001	565394.25	4152144.00	0.00001
565394.25	4152154.00	0.00001	565394.25	4152164.00	0.00001
565394.25	4152174.00	0.00001	565394.25	4152184.00	0.00001
565394.25	4152194.00	0.00001	565394.25	4152204.00	0.00001

565394.25 4152214.00 0.00001
565394.25 4152224.00 0.00001
565394.25 4152234.00 0.00001
565394.25 4152244.00 0.00001
565394.25 4152254.00 0.00001
565394.25 4152264.00 0.00001
565394.25 4152274.00 0.00001
565394.25 4152284.00 0.00001
565384.25 4151984.00 0.00001
565384.25 4151994.00 0.00001
565384.25 4152004.00 0.00001
565384.25 4152014.00 0.00001
565384.25 4152024.00 0.00001
565384.25 4152034.00 0.00001
565384.25 4152044.00 0.00001
565384.25 4152054.00 0.00001
565384.25 4152064.00 0.00001
565384.25 4152074.00 0.00001
565384.25 4152084.00 0.00001
565384.25 4152094.00 0.00001
565384.25 4152104.00 0.00001
565384.25 4152114.00 0.00001
565384.25 4152124.00 0.00001
565384.25 4152134.00 0.00001
565384.25 4152144.00 0.00001
565384.25 4152154.00 0.00001
565384.25 4152164.00 0.00001
565384.25 4152174.00 0.00001
565384.25 4152184.00 0.00001
565384.25 4152194.00 0.00001
565384.25 4152204.00 0.00001
565384.25 4152214.00 0.00001
565384.25 4152224.00 0.00001
565384.25 4152234.00 0.00001
565384.25 4152244.00 0.00001
565384.25 4152254.00 0.00001
565384.25 4152264.00 0.00001
565384.25 4152274.00 0.00001
565384.25 4152284.00 0.00001
565374.25 4151984.00 0.00001
565374.25 4151994.00 0.00001
565374.25 4152004.00 0.00001
565374.25 4152014.00 0.00001
565374.25 4152024.00 0.00001
565374.25 4152034.00 0.00001
565374.25 4152044.00 0.00001
565374.25 4152054.00 0.00001
565374.25 4152064.00 0.00001
565374.25 4152074.00 0.00001
565374.25 4152084.00 0.00001
565374.25 4152094.00 0.00001
565374.25 4152104.00 0.00001

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565374.25	4152114.00	0.00001	565374.25	4152124.00	0.00001
565374.25	4152134.00	0.00001	565374.25	4152144.00	0.00001
565374.25	4152154.00	0.00001	565374.25	4152164.00	0.00001
565374.25	4152174.00	0.00001	565374.25	4152184.00	0.00001
565374.25	4152194.00	0.00001	565374.25	4152204.00	0.00001
565374.25	4152214.00	0.00001	565374.25	4152224.00	0.00001
565374.25	4152234.00	0.00001	565374.25	4152244.00	0.00001
565374.25	4152254.00	0.00001	565374.25	4152264.00	0.00001
565374.25	4152274.00	0.00001	565374.25	4152284.00	0.00001
565364.25	4151984.00	0.00001	565364.25	4151994.00	0.00001
565364.25	4152004.00	0.00001	565364.25	4152014.00	0.00001
565364.25	4152024.00	0.00001	565364.25	4152034.00	0.00001
565364.25	4152044.00	0.00001	565364.25	4152054.00	0.00001
565364.25	4152064.00	0.00001	565364.25	4152074.00	0.00001

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         565364.25    4152084.00        0.00001
565364.25    4152094.00        0.00001
         565364.25    4152104.00        0.00001
565364.25    4152114.00        0.00001
         565364.25    4152124.00        0.00001
565364.25    4152134.00        0.00001
         565364.25    4152144.00        0.00001
565364.25    4152154.00        0.00001
         565364.25    4152164.00        0.00001
565364.25    4152174.00        0.00001
         565364.25    4152184.00        0.00001
565364.25    4152194.00        0.00001
         565364.25    4152204.00        0.00001
565364.25    4152214.00        0.00001
         565364.25    4152224.00        0.00001
565364.25    4152234.00        0.00001
         565364.25    4152244.00        0.00001
565364.25    4152254.00        0.00001
         565364.25    4152264.00        0.00001
565364.25    4152274.00        0.00001
         565364.25    4152284.00        0.00001
565354.25    4151984.00        0.00001
         565354.25    4151994.00        0.00001
565354.25    4152004.00        0.00001
         565354.25    4152014.00        0.00001
565354.25    4152024.00        0.00001
         565354.25    4152034.00        0.00001
565354.25    4152044.00        0.00001
         565354.25    4152054.00        0.00001
565354.25    4152064.00        0.00001
         565354.25    4152074.00        0.00001
565354.25    4152084.00        0.00001
         565354.25    4152094.00        0.00001
565354.25    4152104.00        0.00001
         565354.25    4152114.00        0.00001
565354.25    4152124.00        0.00001
         565354.25    4152134.00        0.00001
565354.25    4152144.00        0.00001
         565354.25    4152154.00        0.00001
565354.25    4152164.00        0.00001
         565354.25    4152174.00        0.00001
565354.25    4152184.00        0.00001
         565354.25    4152194.00        0.00001
565354.25    4152204.00        0.00001
         565354.25    4152214.00        0.00001
565354.25    4152224.00        0.00001
         565354.25    4152234.00        0.00001
565354.25    4152244.00        0.00001
         565354.25    4152254.00        0.00001
565354.25    4152264.00        0.00001
         565354.25    4152274.00        0.00001
565354.25    4152284.00        0.00001
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565344.25	4151984.00	0.00001	565344.25	4151994.00	0.00001
565344.25	4152004.00	0.00001	565344.25	4152014.00	0.00001
565344.25	4152024.00	0.00001	565344.25	4152034.00	0.00001
565344.25	4152044.00	0.00001	565344.25	4152054.00	0.00001
565344.25	4152064.00	0.00001	565344.25	4152074.00	0.00001
565344.25	4152084.00	0.00001	565344.25	4152094.00	0.00001
565344.25	4152104.00	0.00001	565344.25	4152114.00	0.00001
565344.25	4152124.00	0.00001	565344.25	4152134.00	0.00001
565344.25	4152144.00	0.00001	565344.25	4152154.00	0.00001
565344.25	4152164.00	0.00001	565344.25	4152174.00	0.00001
565344.25	4152184.00	0.00001	565344.25	4152194.00	0.00001
565344.25	4152204.00	0.00001	565344.25	4152214.00	0.00001
565344.25	4152224.00	0.00001	565344.25	4152234.00	0.00001
565344.25	4152244.00	0.00001	565344.25	4152254.00	0.00001

565344.25 4152264.00 0.00001
565344.25 4152274.00 0.00001
565344.25 4152284.00 0.00001
565334.25 4151984.00 0.00001
565334.25 4151994.00 0.00001
565334.25 4152004.00 0.00001
565334.25 4152014.00 0.00001
565334.25 4152024.00 0.00001
565334.25 4152034.00 0.00001
565334.25 4152044.00 0.00001
565334.25 4152054.00 0.00001
565334.25 4152064.00 0.00001
565334.25 4152074.00 0.00001
565334.25 4152084.00 0.00001
565334.25 4152094.00 0.00001
565334.25 4152104.00 0.00001
565334.25 4152114.00 0.00001
565334.25 4152124.00 0.00001
565334.25 4152134.00 0.00001
565334.25 4152144.00 0.00001
565334.25 4152154.00 0.00001
565334.25 4152164.00 0.00001
565334.25 4152174.00 0.00001
565334.25 4152184.00 0.00001
565334.25 4152194.00 0.00001
565334.25 4152204.00 0.00001
565334.25 4152214.00 0.00001
565334.25 4152224.00 0.00001
565334.25 4152234.00 0.00001
565334.25 4152244.00 0.00001
565334.25 4152254.00 0.00001
565334.25 4152264.00 0.00001
565334.25 4152274.00 0.00001
565334.25 4152284.00 0.00001
565324.25 4151984.00 0.00001
565324.25 4151994.00 0.00001
565324.25 4152004.00 0.00001
565324.25 4152014.00 0.00001
565324.25 4152024.00 0.00001
565324.25 4152034.00 0.00001
565324.25 4152044.00 0.00001
565324.25 4152054.00 0.00001
565324.25 4152064.00 0.00001
565324.25 4152074.00 0.00001
565324.25 4152084.00 0.00001
565324.25 4152094.00 0.00001
565324.25 4152104.00 0.00001
565324.25 4152114.00 0.00001
565324.25 4152124.00 0.00001
565324.25 4152134.00 0.00001
565324.25 4152144.00 0.00001
565324.25 4152154.00 0.00001

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565324.25	4152164.00	0.00001	565324.25	4152174.00	0.00001
565324.25	4152184.00	0.00001	565324.25	4152194.00	0.00001
565324.25	4152204.00	0.00001	565324.25	4152214.00	0.00001
565324.25	4152224.00	0.00001	565324.25	4152234.00	0.00001
565324.25	4152244.00	0.00001	565324.25	4152254.00	0.00001
565324.25	4152264.00	0.00001	565324.25	4152274.00	0.00001
565324.25	4152284.00	0.00000	565314.25	4151984.00	0.00001
565314.25	4151994.00	0.00001	565314.25	4152004.00	0.00001
565314.25	4152014.00	0.00001	565314.25	4152024.00	0.00001
565314.25	4152034.00	0.00001	565314.25	4152044.00	0.00001
565314.25	4152054.00	0.00001	565314.25	4152064.00	0.00001
565314.25	4152074.00	0.00001	565314.25	4152084.00	0.00001
565314.25	4152094.00	0.00001	565314.25	4152104.00	0.00001
565314.25	4152114.00	0.00001	565314.25	4152124.00	0.00001

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         565314.25    4152134.00        0.00001
565314.25    4152144.00        0.00001
         565314.25    4152154.00        0.00001
565314.25    4152164.00        0.00001
         565314.25    4152174.00        0.00001
565314.25    4152184.00        0.00001
         565314.25    4152194.00        0.00001
565314.25    4152204.00        0.00001
         565314.25    4152214.00        0.00001
565314.25    4152224.00        0.00001
         565314.25    4152234.00        0.00001
565314.25    4152244.00        0.00001
         565314.25    4152254.00        0.00001
565314.25    4152264.00        0.00001
         565314.25    4152274.00        0.00000
565314.25    4152284.00        0.00000
         565304.25    4151984.00        0.00000
565304.25    4151994.00        0.00000
         565304.25    4152004.00        0.00000
565304.25    4152014.00        0.00000
         565304.25    4152024.00        0.00000
565304.25    4152034.00        0.00000
         565304.25    4152044.00        0.00000
565304.25    4152054.00        0.00000
         565304.25    4152064.00        0.00000
565304.25    4152074.00        0.00000
         565304.25    4152084.00        0.00000
565304.25    4152094.00        0.00000
         565304.25    4152104.00        0.00000
565304.25    4152114.00        0.00000
         565304.25    4152124.00        0.00000
565304.25    4152134.00        0.00001
         565304.25    4152144.00        0.00001
565304.25    4152154.00        0.00001
         565304.25    4152164.00        0.00001
565304.25    4152174.00        0.00001
         565304.25    4152184.00        0.00001
565304.25    4152194.00        0.00001
         565304.25    4152204.00        0.00001
565304.25    4152214.00        0.00001
         565304.25    4152224.00        0.00001
565304.25    4152234.00        0.00001
         565304.25    4152244.00        0.00001
565304.25    4152254.00        0.00001
         565304.25    4152264.00        0.00000
565304.25    4152274.00        0.00000
         565304.25    4152284.00        0.00000
565294.25    4151984.00        0.00000
         565294.25    4151994.00        0.00000
565294.25    4152004.00        0.00000
         565294.25    4152014.00        0.00000
565294.25    4152024.00        0.00000
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565294.25	4152034.00	0.00000	565294.25	4152044.00	0.00000
565294.25	4152054.00	0.00000	565294.25	4152064.00	0.00000
565294.25	4152074.00	0.00000	565294.25	4152084.00	0.00000
565294.25	4152094.00	0.00000	565294.25	4152104.00	0.00000
565294.25	4152114.00	0.00000	565294.25	4152124.00	0.00000
565294.25	4152134.00	0.00000	565294.25	4152144.00	0.00000
565294.25	4152154.00	0.00000	565294.25	4152164.00	0.00000
565294.25	4152174.00	0.00000	565294.25	4152184.00	0.00001
565294.25	4152194.00	0.00001	565294.25	4152204.00	0.00001
565294.25	4152214.00	0.00001	565294.25	4152224.00	0.00001
565294.25	4152234.00	0.00000	565294.25	4152244.00	0.00000
565294.25	4152254.00	0.00000	565294.25	4152264.00	0.00000
565294.25	4152274.00	0.00000	565294.25	4152284.00	0.00000
565284.25	4151984.00	0.00000	565284.25	4151994.00	0.00000

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         565284.25    4152004.00         0.00000
565284.25    4152014.00         0.00000
         565284.25    4152024.00         0.00000
565284.25    4152034.00         0.00000
         565284.25    4152044.00         0.00000
565284.25    4152054.00         0.00000
         565284.25    4152064.00         0.00000
565284.25    4152074.00         0.00000
         565284.25    4152084.00         0.00000
565284.25    4152094.00         0.00000
         565284.25    4152104.00         0.00000
565284.25    4152114.00         0.00000
         565284.25    4152124.00         0.00000
565284.25    4152134.00         0.00000
         565284.25    4152144.00         0.00000
565284.25    4152154.00         0.00000
         565284.25    4152164.00         0.00000
565284.25    4152174.00         0.00000
         565284.25    4152184.00         0.00000
565284.25    4152194.00         0.00000
         565284.25    4152204.00         0.00000
565284.25    4152214.00         0.00000
         565284.25    4152224.00         0.00000
565284.25    4152234.00         0.00000
         565284.25    4152244.00         0.00000
565284.25    4152254.00         0.00000
         565284.25    4152264.00         0.00000
565284.25    4152274.00         0.00000
         565284.25    4152284.00         0.00000
565274.25    4151984.00         0.00000
         565274.25    4151994.00         0.00000
565274.25    4152004.00         0.00000
         565274.25    4152014.00         0.00000
565274.25    4152024.00         0.00000
         565274.25    4152034.00         0.00000
565274.25    4152044.00         0.00000
         565274.25    4152054.00         0.00000
565274.25    4152064.00         0.00000
         565274.25    4152074.00         0.00000
565274.25    4152084.00         0.00000
         565274.25    4152094.00         0.00000
565274.25    4152104.00         0.00000
         565274.25    4152114.00         0.00000
565274.25    4152124.00         0.00000
         565274.25    4152134.00         0.00000
565274.25    4152144.00         0.00000
         565274.25    4152154.00         0.00000
565274.25    4152164.00         0.00000
         565274.25    4152174.00         0.00000
565274.25    4152184.00         0.00000
         565274.25    4152194.00         0.00000
565274.25    4152204.00         0.00000
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565274.25	4152214.00	0.00000	565274.25	4152224.00	0.00000
565274.25	4152234.00	0.00000	565274.25	4152244.00	0.00000
565274.25	4152254.00	0.00000	565274.25	4152264.00	0.00000
565274.25	4152274.00	0.00000	565274.25	4152284.00	0.00000
565264.25	4151984.00	0.00000	565264.25	4151994.00	0.00000
565264.25	4152004.00	0.00000	565264.25	4152014.00	0.00000
565264.25	4152024.00	0.00000	565264.25	4152034.00	0.00000
565264.25	4152044.00	0.00000	565264.25	4152054.00	0.00000
565264.25	4152064.00	0.00000	565264.25	4152074.00	0.00000
565264.25	4152084.00	0.00000	565264.25	4152094.00	0.00000
565264.25	4152104.00	0.00000	565264.25	4152114.00	0.00000
565264.25	4152124.00	0.00000	565264.25	4152134.00	0.00000
565264.25	4152144.00	0.00000	565264.25	4152154.00	0.00000
565264.25	4152164.00	0.00000	565264.25	4152174.00	0.00000

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         565264.25    4152184.00         0.00000
565264.25    4152194.00         0.00000
         565264.25    4152204.00         0.00000
565264.25    4152214.00         0.00000
         565264.25    4152224.00         0.00000
565264.25    4152234.00         0.00000
         565264.25    4152244.00         0.00000
565264.25    4152254.00         0.00000
         565264.25    4152264.00         0.00000
565264.25    4152274.00         0.00000
         565264.25    4152284.00         0.00000
565264.25    4152367.25         0.00000
         565264.25    4152450.75         0.00000
565264.25    4152534.00         0.00000
         565358.00    4152367.25         0.00000
565358.00    4152450.75         0.00000
         565358.00    4152534.00         0.00000
565451.75    4152367.25         0.00000
         565451.75    4152450.75         0.00000
565451.75    4152534.00         0.00000
         565545.50    4152367.25         0.00000
565545.50    4152450.75         0.00000
         565545.50    4152534.00         0.00000
565639.25    4152367.25         0.00000
         565639.25    4152450.75         0.00000
565639.25    4152534.00         0.00000
         565733.00    4152367.25         0.00000
565733.00    4152450.75         0.00000
         565733.00    4152534.00         0.00000
565826.75    4152367.25         0.00000
         565826.75    4152450.75         0.00000
565826.75    4152534.00         0.00000
         565920.50    4152367.25         0.00000
565920.50    4152450.75         0.00000
         565920.50    4152534.00         0.00000
566014.25    4152367.25         0.00000
         566014.25    4152450.75         0.00000
566014.25    4152534.00         0.00000
         565847.56    4152284.00         0.00000
565847.56    4152190.25         0.00001
         565847.56    4152096.50         0.00001
565847.56    4152002.75         0.00003
         565847.56    4151909.00         0.00003
565847.56    4151815.25         0.00003
         565847.56    4151721.50         0.00002
565847.56    4151627.75         0.00001
         565847.56    4151534.00         0.00001
565930.94    4152284.00         0.00000
         565930.94    4152190.25         0.00000
565930.94    4152096.50         0.00001
         565930.94    4152002.75         0.00002
565930.94    4151909.00         0.00002
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR1_OFF ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565930.94	4151815.25	0.00002	565930.94	4151721.50	0.00001
565930.94	4151627.75	0.00001	565930.94	4151534.00	0.00001
566014.25	4152284.00	0.00000	566014.25	4152190.25	0.00000
566014.25	4152096.50	0.00001	566014.25	4152002.75	0.00001
566014.25	4151909.00	0.00001	566014.25	4151815.25	0.00001
566014.25	4151721.50	0.00001	566014.25	4151627.75	0.00001
566014.25	4151534.00	0.00001	565764.25	4151700.75	0.00002
565764.25	4151617.25	0.00001	565764.25	4151534.00	0.00001
565670.50	4151700.75	0.00002	565670.50	4151617.25	0.00001
565670.50	4151534.00	0.00001	565576.75	4151700.75	0.00002
565576.75	4151617.25	0.00001	565576.75	4151534.00	0.00001
565483.00	4151700.75	0.00002	565483.00	4151617.25	0.00001
565483.00	4151534.00	0.00001	565389.25	4151700.75	0.00001
565389.25	4151617.25	0.00001	565389.25	4151534.00	0.00001

565295.50 4151700.75 0.00000
565295.50 4151617.25 0.00000
565295.50 4151534.00 0.00000
565201.75 4151700.75 0.00000
565201.75 4151617.25 0.00000
565201.75 4151534.00 0.00000
565108.00 4151700.75 0.00000
565108.00 4151617.25 0.00000
565108.00 4151534.00 0.00000
565014.25 4151700.75 0.00000
565014.25 4151617.25 0.00000
565014.25 4151534.00 0.00000
565180.94 4151784.00 0.00000
565180.94 4151877.75 0.00000
565180.94 4151971.50 0.00000
565180.94 4152065.25 0.00000
565180.94 4152159.00 0.00000
565180.94 4152252.75 0.00000
565180.94 4152346.50 0.00000
565180.94 4152440.25 0.00000
565180.94 4152534.00 0.00000
565097.56 4151784.00 0.00000
565097.56 4151877.75 0.00000
565097.56 4151971.50 0.00000
565097.56 4152065.25 0.00000
565097.56 4152159.00 0.00000
565097.56 4152252.75 0.00000
565097.56 4152346.50 0.00000
565097.56 4152440.25 0.00000
565097.56 4152534.00 0.00000
565014.25 4151784.00 0.00000
565014.25 4151877.75 0.00000
565014.25 4151971.50 0.00000
565014.25 4152065.25 0.00000
565014.25 4152159.00 0.00000
565014.25 4152252.75 0.00000
565014.25 4152346.50 0.00000
565014.25 4152440.25 0.00000
565014.25 4152534.00 0.00000
565502.65 4152072.47 0.00006
565589.07 4151982.88 0.00018
565619.89 4152017.45 0.00011
565621.62 4152031.56 0.00009
565618.45 4152045.97 0.00008
565600.88 4152086.01 0.00004
565578.70 4152137.28 0.00002
565504.04 4152071.95 0.00006

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565464.25	4151984.00	0.00815	565464.25	4152009.00	0.00823
565464.25	4152034.00	0.00784	565464.25	4152059.00	0.00709
565464.25	4152084.00	0.00642	565489.25	4151984.00	0.01438
565489.25	4152009.00	0.01597	565489.25	4152034.00	0.01611
565489.25	4152059.00	0.01326	565489.25	4152084.00	0.01117
565514.25	4151984.00	0.02533	565514.25	4152009.00	0.03156
565514.25	4152034.00	0.03398	565514.25	4152059.00	0.02338
565514.25	4152084.00	0.01701	565539.25	4151984.00	0.04163
565539.25	4152009.00	0.05252	565539.25	4152034.00	0.05184
565564.25	4151984.00	0.05864	565564.25	4152009.00	0.06558
565464.25	4152094.00	0.00627	565464.25	4152104.00	0.00617
565464.25	4152114.00	0.00607	565464.25	4152124.00	0.00596
565464.25	4152134.00	0.00581	565464.25	4152144.00	0.00563
565464.25	4152154.00	0.00542	565464.25	4152164.00	0.00518

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         565464.25    4152174.00        0.00493
565464.25    4152184.00        0.00467
         565464.25    4152194.00        0.00440
565464.25    4152204.00        0.00412
         565464.25    4152214.00        0.00384
565464.25    4152224.00        0.00358
         565464.25    4152234.00        0.00333
565464.25    4152244.00        0.00310
         565464.25    4152254.00        0.00288
565464.25    4152264.00        0.00268
         565464.25    4152274.00        0.00250
565464.25    4152284.00        0.00233
         565474.25    4152094.00        0.00775
565474.25    4152104.00        0.00756
         565474.25    4152114.00        0.00735
565474.25    4152124.00        0.00710
         565474.25    4152134.00        0.00681
565474.25    4152144.00        0.00649
         565474.25    4152154.00        0.00616
565474.25    4152164.00        0.00582
         565474.25    4152174.00        0.00546
565474.25    4152184.00        0.00511
         565474.25    4152194.00        0.00476
565474.25    4152204.00        0.00441
         565474.25    4152214.00        0.00408
565474.25    4152224.00        0.00377
         565474.25    4152234.00        0.00349
565474.25    4152244.00        0.00322
         565474.25    4152254.00        0.00298
565474.25    4152264.00        0.00276
         565474.25    4152274.00        0.00256
565474.25    4152284.00        0.00237
         565484.25    4152094.00        0.00966
565484.25    4152104.00        0.00930
         565484.25    4152114.00        0.00888
565484.25    4152124.00        0.00842
         565484.25    4152134.00        0.00794
565484.25    4152144.00        0.00745
         565484.25    4152154.00        0.00697
565484.25    4152164.00        0.00649
         565484.25    4152174.00        0.00601
565484.25    4152184.00        0.00555
         565484.25    4152194.00        0.00511
565484.25    4152204.00        0.00469
         565484.25    4152214.00        0.00430
565484.25    4152224.00        0.00395
         565484.25    4152234.00        0.00362
565484.25    4152244.00        0.00333
         565484.25    4152254.00        0.00306
565484.25    4152264.00        0.00282
         565484.25    4152274.00        0.00261
565484.25    4152284.00        0.00242
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565494.25	4152094.00	0.01189	565494.25	4152104.00	0.01131
565494.25	4152114.00	0.01055	565494.25	4152124.00	0.00976
565494.25	4152134.00	0.00910	565494.25	4152144.00	0.00845
565494.25	4152154.00	0.00782	565494.25	4152164.00	0.00718
565494.25	4152174.00	0.00657	565494.25	4152184.00	0.00599
565494.25	4152194.00	0.00545	565494.25	4152204.00	0.00496
565494.25	4152214.00	0.00450	565494.25	4152224.00	0.00410
565494.25	4152234.00	0.00374	565494.25	4152244.00	0.00342
565494.25	4152254.00	0.00314	565494.25	4152264.00	0.00288
565494.25	4152274.00	0.00265	565494.25	4152284.00	0.00245
565504.25	4152094.00	0.01416	565504.25	4152104.00	0.01340
565504.25	4152114.00	0.01233	565504.25	4152124.00	0.01121
565504.25	4152134.00	0.01032	565504.25	4152144.00	0.00949
565504.25	4152154.00	0.00870	565504.25	4152164.00	0.00788

565504.25 4152174.00 0.00711
565504.25 4152184.00 0.00640
565504.25 4152194.00 0.00576
565504.25 4152204.00 0.00518
565504.25 4152214.00 0.00467
565504.25 4152224.00 0.00423
565504.25 4152234.00 0.00384
565504.25 4152244.00 0.00349
565504.25 4152254.00 0.00319
565504.25 4152264.00 0.00292
565504.25 4152274.00 0.00269
565504.25 4152284.00 0.00248
565514.25 4152094.00 0.01625
565514.25 4152104.00 0.01550
565514.25 4152114.00 0.01431
565514.25 4152124.00 0.01290
565514.25 4152134.00 0.01166
565514.25 4152144.00 0.01053
565514.25 4152154.00 0.00948
565514.25 4152164.00 0.00849
565514.25 4152174.00 0.00758
565514.25 4152184.00 0.00677
565514.25 4152194.00 0.00602
565514.25 4152204.00 0.00537
565514.25 4152214.00 0.00481
565514.25 4152224.00 0.00433
565514.25 4152234.00 0.00391
565514.25 4152244.00 0.00354
565514.25 4152254.00 0.00323
565514.25 4152264.00 0.00295
565514.25 4152274.00 0.00271
565514.25 4152284.00 0.00249
565524.25 4152094.00 0.01821
565524.25 4152104.00 0.01733
565524.25 4152114.00 0.01614
565524.25 4152124.00 0.01461
565524.25 4152134.00 0.01302
565524.25 4152144.00 0.01151
565524.25 4152154.00 0.01014
565524.25 4152164.00 0.00898
565524.25 4152174.00 0.00796
565524.25 4152184.00 0.00706
565524.25 4152194.00 0.00622
565524.25 4152204.00 0.00551
565524.25 4152214.00 0.00490
565524.25 4152224.00 0.00439
565524.25 4152234.00 0.00395
565524.25 4152244.00 0.00357
565524.25 4152254.00 0.00324
565524.25 4152264.00 0.00296
565524.25 4152274.00 0.00271
565524.25 4152284.00 0.00250

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565534.25	4152104.00	0.01867	565534.25	4152114.00	0.01742
565534.25	4152124.00	0.01596	565534.25	4152134.00	0.01421
565534.25	4152144.00	0.01240	565534.25	4152154.00	0.01071
565534.25	4152164.00	0.00935	565534.25	4152174.00	0.00820
565534.25	4152184.00	0.00720	565534.25	4152194.00	0.00632
565534.25	4152204.00	0.00558	565534.25	4152214.00	0.00495
565534.25	4152224.00	0.00441	565534.25	4152234.00	0.00396
565534.25	4152244.00	0.00357	565534.25	4152254.00	0.00324
565534.25	4152264.00	0.00295	565534.25	4152274.00	0.00270
565534.25	4152284.00	0.00248	565544.25	4152114.00	0.01798
565544.25	4152124.00	0.01656	565544.25	4152134.00	0.01498
565544.25	4152144.00	0.01311	565544.25	4152154.00	0.01116
565544.25	4152164.00	0.00952	565544.25	4152174.00	0.00817
565544.25	4152184.00	0.00706	565544.25	4152194.00	0.00622

565544.25 4152204.00 0.00553
565544.25 4152214.00 0.00494
565544.25 4152224.00 0.00440
565544.25 4152234.00 0.00394
565544.25 4152244.00 0.00355
565544.25 4152254.00 0.00321
565544.25 4152264.00 0.00290
565544.25 4152274.00 0.00264
565544.25 4152284.00 0.00243
565554.25 4152124.00 0.01620
565554.25 4152134.00 0.01498
565554.25 4152144.00 0.01344
565554.25 4152154.00 0.01137
565554.25 4152164.00 0.00945
565554.25 4152174.00 0.00792
565554.25 4152184.00 0.00624
565554.25 4152194.00 0.00599
565554.25 4152204.00 0.00541
565554.25 4152214.00 0.00488
565554.25 4152224.00 0.00436
565554.25 4152234.00 0.00390
565554.25 4152244.00 0.00350
565554.25 4152254.00 0.00315
565554.25 4152264.00 0.00284
565554.25 4152274.00 0.00257
565554.25 4152284.00 0.00237
565564.25 4152134.00 0.01418
565564.25 4152144.00 0.01297
565564.25 4152154.00 0.01128
565564.25 4152164.00 0.00951
565564.25 4152174.00 0.00804
565564.25 4152184.00 0.00686
565564.25 4152194.00 0.00605
565564.25 4152204.00 0.00539
565564.25 4152214.00 0.00481
565564.25 4152224.00 0.00423
565564.25 4152234.00 0.00380
565564.25 4152244.00 0.00344
565564.25 4152254.00 0.00311
565564.25 4152264.00 0.00282
565564.25 4152274.00 0.00257
565564.25 4152284.00 0.00237
565574.25 4152134.00 0.01342
565574.25 4152144.00 0.01222
565574.25 4152154.00 0.01082
565574.25 4152164.00 0.00935
565574.25 4152174.00 0.00802
565574.25 4152184.00 0.00692
565574.25 4152194.00 0.00604
565574.25 4152204.00 0.00524
565574.25 4152214.00 0.00454
565574.25 4152224.00 0.00405

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565574.25	4152234.00	0.00368	565574.25	4152244.00	0.00336
565574.25	4152254.00	0.00306	565574.25	4152264.00	0.00279
565574.25	4152274.00	0.00255	565574.25	4152284.00	0.00234
565584.25	4152134.00	0.01295	565584.25	4152144.00	0.01157
565584.25	4152154.00	0.01025	565584.25	4152164.00	0.00881
565584.25	4152174.00	0.00753	565584.25	4152184.00	0.00648
565584.25	4152194.00	0.00562	565584.25	4152204.00	0.00491
565584.25	4152214.00	0.00434	565584.25	4152224.00	0.00391
565584.25	4152234.00	0.00358	565584.25	4152244.00	0.00328
565584.25	4152254.00	0.00298	565584.25	4152264.00	0.00272
565584.25	4152274.00	0.00249	565584.25	4152284.00	0.00229
565594.25	4152104.00	0.02850	565594.25	4152114.00	0.02186
565594.25	4152124.00	0.01691	565594.25	4152134.00	0.01363
565594.25	4152144.00	0.01144	565594.25	4152154.00	0.00978

565594.25 4152164.00 0.00838
565594.25 4152174.00 0.00721
565594.25 4152184.00 0.00625
565594.25 4152194.00 0.00546
565594.25 4152204.00 0.00480
565594.25 4152214.00 0.00426
565594.25 4152224.00 0.00385
565594.25 4152234.00 0.00351
565594.25 4152244.00 0.00319
565594.25 4152254.00 0.00290
565594.25 4152264.00 0.00265
565594.25 4152274.00 0.00243
565594.25 4152284.00 0.00224
565604.25 4152094.00 0.03745
565604.25 4152104.00 0.03121
565604.25 4152114.00 0.02509
565604.25 4152124.00 0.01928
565604.25 4152134.00 0.01464
565604.25 4152144.00 0.01141
565604.25 4152154.00 0.00931
565604.25 4152164.00 0.00786
565604.25 4152174.00 0.00679
565604.25 4152184.00 0.00593
565604.25 4152194.00 0.00523
565604.25 4152204.00 0.00465
565604.25 4152214.00 0.00415
565604.25 4152224.00 0.00375
565604.25 4152234.00 0.00339
565604.25 4152244.00 0.00308
565604.25 4152254.00 0.00281
565604.25 4152264.00 0.00258
565604.25 4152274.00 0.00238
565604.25 4152284.00 0.00220
565614.25 4152094.00 0.03999
565614.25 4152104.00 0.03319
565614.25 4152114.00 0.02637
565614.25 4152124.00 0.01990
565614.25 4152134.00 0.01497
565614.25 4152144.00 0.01134
565614.25 4152154.00 0.00894
565614.25 4152164.00 0.00741
565614.25 4152174.00 0.00634
565614.25 4152184.00 0.00553
565614.25 4152194.00 0.00490
565614.25 4152204.00 0.00440
565614.25 4152214.00 0.00396
565614.25 4152224.00 0.00359
565614.25 4152234.00 0.00326
565614.25 4152244.00 0.00297
565614.25 4152254.00 0.00272
565614.25 4152264.00 0.00251
565614.25 4152274.00 0.00231

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN
RECEPTOR POINTS ***

** CONC OF PM_2.5 IN
MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565614.25	4152284.00	0.00214	565624.25	4152094.00	0.03840
565624.25	4152104.00	0.03183	565624.25	4152114.00	0.02530
565624.25	4152124.00	0.01879	565624.25	4152134.00	0.01432
565624.25	4152144.00	0.01101	565624.25	4152154.00	0.00861
565624.25	4152164.00	0.00703	565624.25	4152174.00	0.00592
565624.25	4152184.00	0.00512	565624.25	4152194.00	0.00456
565624.25	4152204.00	0.00414	565624.25	4152214.00	0.00375
565624.25	4152224.00	0.00341	565624.25	4152234.00	0.00312
565624.25	4152244.00	0.00286	565624.25	4152254.00	0.00263
565624.25	4152264.00	0.00243	565624.25	4152274.00	0.00225
565624.25	4152284.00	0.00209	565634.25	4152094.00	0.03455
565634.25	4152104.00	0.02879	565634.25	4152114.00	0.02313
565634.25	4152124.00	0.01737	565634.25	4152134.00	0.01343
565634.25	4152144.00	0.01047	565634.25	4152154.00	0.00827

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         565634.25    4152164.00        0.00671
565634.25    4152174.00        0.00559
         565634.25    4152184.00        0.00481
565634.25    4152194.00        0.00429
         565634.25    4152204.00        0.00390
565634.25    4152214.00        0.00354
         565634.25    4152224.00        0.00323
565634.25    4152234.00        0.00297
         565634.25    4152244.00        0.00273
565634.25    4152254.00        0.00252
         565634.25    4152264.00        0.00234
565634.25    4152274.00        0.00217
         565634.25    4152284.00        0.00202
565644.25    4152094.00        0.03049
         565644.25    4152104.00        0.02558
565644.25    4152114.00        0.02083
         565644.25    4152124.00        0.01604
565644.25    4152134.00        0.01256
         565644.25    4152144.00        0.00988
565644.25    4152154.00        0.00788
         565644.25    4152164.00        0.00640
565644.25    4152174.00        0.00535
         565644.25    4152184.00        0.00461
565644.25    4152194.00        0.00409
         565644.25    4152204.00        0.00368
565644.25    4152214.00        0.00334
         565644.25    4152224.00        0.00305
565644.25    4152234.00        0.00281
         565644.25    4152244.00        0.00260
565644.25    4152254.00        0.00241
         565644.25    4152264.00        0.00224
565644.25    4152274.00        0.00209
         565644.25    4152284.00        0.00196
565654.25    4152094.00        0.02685
         565654.25    4152104.00        0.02270
565654.25    4152114.00        0.01874
         565654.25    4152124.00        0.01476
565654.25    4152134.00        0.01170
         565654.25    4152144.00        0.00931
565654.25    4152154.00        0.00747
         565654.25    4152164.00        0.00613
565654.25    4152174.00        0.00515
         565654.25    4152184.00        0.00444
565654.25    4152194.00        0.00389
         565654.25    4152204.00        0.00348
565654.25    4152214.00        0.00315
         565654.25    4152224.00        0.00288
565654.25    4152234.00        0.00266
         565654.25    4152244.00        0.00247
565654.25    4152254.00        0.00229
         565654.25    4152264.00        0.00214
565654.25    4152274.00        0.00200
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565654.25	4152284.00	0.00188	565664.25	4152094.00	0.02334
565664.25	4152104.00	0.01999	565664.25	4152114.00	0.01682
565664.25	4152124.00	0.01377	565664.25	4152134.00	0.01105
565664.25	4152144.00	0.00890	565664.25	4152154.00	0.00720
565664.25	4152164.00	0.00593	565664.25	4152174.00	0.00497
565664.25	4152184.00	0.00425	565664.25	4152194.00	0.00371
565664.25	4152204.00	0.00331	565664.25	4152214.00	0.00298
565664.25	4152224.00	0.00273	565664.25	4152234.00	0.00252
565664.25	4152244.00	0.00234	565664.25	4152254.00	0.00218
565664.25	4152264.00	0.00204	565664.25	4152274.00	0.00192
565664.25	4152284.00	0.00180	565674.25	4152094.00	0.02036
565674.25	4152104.00	0.01770	565674.25	4152114.00	0.01513
565674.25	4152124.00	0.01270	565674.25	4152134.00	0.01039
565674.25	4152144.00	0.00847	565674.25	4152154.00	0.00692

565674.25 4152164.00 0.00571
565674.25 4152174.00 0.00479
565674.25 4152184.00 0.00409
565674.25 4152194.00 0.00356
565674.25 4152204.00 0.00315
565674.25 4152214.00 0.00284
565674.25 4152224.00 0.00259
565674.25 4152234.00 0.00238
565674.25 4152244.00 0.00221
565674.25 4152254.00 0.00207
565674.25 4152264.00 0.00194
565674.25 4152274.00 0.00181
565674.25 4152284.00 0.00170
565684.25 4152094.00 0.01796
565684.25 4152104.00 0.01579
565684.25 4152114.00 0.01367
565684.25 4152124.00 0.01163
565684.25 4152134.00 0.00969
565684.25 4152144.00 0.00801
565684.25 4152154.00 0.00662
565684.25 4152164.00 0.00550
565684.25 4152174.00 0.00462
565684.25 4152184.00 0.00394
565684.25 4152194.00 0.00342
565684.25 4152204.00 0.00302
565684.25 4152214.00 0.00271
565684.25 4152224.00 0.00247
565684.25 4152234.00 0.00227
565684.25 4152244.00 0.00211
565684.25 4152254.00 0.00197
565684.25 4152264.00 0.00184
565684.25 4152274.00 0.00172
565684.25 4152284.00 0.00163
565694.25 4152094.00 0.01533
565694.25 4152104.00 0.01420
565694.25 4152114.00 0.01239
565694.25 4152124.00 0.01064
565694.25 4152134.00 0.00898
565694.25 4152144.00 0.00754
565694.25 4152154.00 0.00632
565694.25 4152164.00 0.00530
565694.25 4152174.00 0.00446
565694.25 4152184.00 0.00381
565694.25 4152194.00 0.00330
565694.25 4152204.00 0.00291
565694.25 4152214.00 0.00260
565694.25 4152224.00 0.00236
565694.25 4152234.00 0.00217
565694.25 4152244.00 0.00201
565694.25 4152254.00 0.00187
565694.25 4152264.00 0.00175
565694.25 4152274.00 0.00165

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565694.25	4152284.00	0.00156	565704.25	4152094.00	0.01378
565704.25	4152104.00	0.01225	565704.25	4152114.00	0.01127
565704.25	4152124.00	0.00976	565704.25	4152134.00	0.00836
565704.25	4152144.00	0.00711	565704.25	4152154.00	0.00604
565704.25	4152164.00	0.00510	565704.25	4152174.00	0.00432
565704.25	4152184.00	0.00370	565704.25	4152194.00	0.00321
565704.25	4152204.00	0.00282	565704.25	4152214.00	0.00252
565704.25	4152224.00	0.00228	565704.25	4152234.00	0.00208
565704.25	4152244.00	0.00192	565704.25	4152254.00	0.00178
565704.25	4152264.00	0.00167	565704.25	4152274.00	0.00157
565704.25	4152284.00	0.00149	565714.25	4152094.00	0.01357
565714.25	4152104.00	0.01207	565714.25	4152114.00	0.01064
565714.25	4152124.00	0.00926	565714.25	4152134.00	0.00796
565714.25	4152144.00	0.00680	565714.25	4152154.00	0.00579

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         565714.25    4152164.00        0.00492
565714.25    4152174.00        0.00419
         565714.25    4152184.00        0.00360
565714.25    4152194.00        0.00313
         565714.25    4152204.00        0.00275
565714.25    4152214.00        0.00245
         565714.25    4152224.00        0.00220
565714.25    4152234.00        0.00200
         565714.25    4152244.00        0.00183
565714.25    4152254.00        0.00170
         565714.25    4152264.00        0.00159
565714.25    4152274.00        0.00150
         565714.25    4152284.00        0.00142
565724.25    4152094.00        0.01269
         565724.25    4152104.00        0.01132
565724.25    4152114.00        0.01003
         565724.25    4152124.00        0.00878
565724.25    4152134.00        0.00758
         565724.25    4152144.00        0.00650
565724.25    4152154.00        0.00556
         565724.25    4152164.00        0.00475
565724.25    4152174.00        0.00408
         565724.25    4152184.00        0.00352
565724.25    4152194.00        0.00306
         565724.25    4152204.00        0.00269
565724.25    4152214.00        0.00238
         565724.25    4152224.00        0.00213
565724.25    4152234.00        0.00193
         565724.25    4152244.00        0.00176
565724.25    4152254.00        0.00163
         565724.25    4152264.00        0.00152
565724.25    4152274.00        0.00143
         565724.25    4152284.00        0.00135
565734.25    4152094.00        0.01187
         565734.25    4152104.00        0.01062
565734.25    4152114.00        0.00943
         565734.25    4152124.00        0.00829
565734.25    4152134.00        0.00720
         565734.25    4152144.00        0.00621
565734.25    4152154.00        0.00535
         565734.25    4152164.00        0.00459
565734.25    4152174.00        0.00395
         565734.25    4152184.00        0.00342
565734.25    4152194.00        0.00298
         565734.25    4152204.00        0.00262
565734.25    4152214.00        0.00233
         565734.25    4152224.00        0.00208
565734.25    4152234.00        0.00188
         565734.25    4152244.00        0.00171
565734.25    4152254.00        0.00157
         565734.25    4152264.00        0.00146
565734.25    4152274.00        0.00137
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565734.25	4152284.00	0.00130	565744.25	4152094.00	0.01110
565744.25	4152104.00	0.00995	565744.25	4152114.00	0.00886
565744.25	4152124.00	0.00781	565744.25	4152134.00	0.00683
565744.25	4152144.00	0.00594	565744.25	4152154.00	0.00515
565744.25	4152164.00	0.00444	565744.25	4152174.00	0.00383
565744.25	4152184.00	0.00332	565744.25	4152194.00	0.00290
565744.25	4152204.00	0.00256	565744.25	4152214.00	0.00227
565744.25	4152224.00	0.00204	565744.25	4152234.00	0.00184
565744.25	4152244.00	0.00167	565744.25	4152254.00	0.00153
565744.25	4152264.00	0.00142	565744.25	4152274.00	0.00133
565744.25	4152284.00	0.00125	565754.25	4152094.00	0.01035
565754.25	4152104.00	0.00932	565754.25	4152114.00	0.00833
565754.25	4152124.00	0.00737	565754.25	4152134.00	0.00649
565754.25	4152144.00	0.00568	565754.25	4152154.00	0.00495

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         565754.25    4152164.00        0.00430
565754.25    4152174.00        0.00372
         565754.25    4152184.00        0.00322
565754.25    4152194.00        0.00282
         565754.25    4152204.00        0.00249
565754.25    4152214.00        0.00222
         565754.25    4152224.00        0.00199
565754.25    4152234.00        0.00180
         565754.25    4152244.00        0.00164
565754.25    4152254.00        0.00150
         565754.25    4152264.00        0.00138
565754.25    4152274.00        0.00129
         565754.25    4152284.00        0.00120
565764.25    4152094.00        0.00959
         565764.25    4152104.00        0.00869
565764.25    4152114.00        0.00781
         565764.25    4152124.00        0.00696
565764.25    4152134.00        0.00616
         565764.25    4152144.00        0.00542
565764.25    4152154.00        0.00476
         565764.25    4152164.00        0.00414
565764.25    4152174.00        0.00359
         565764.25    4152184.00        0.00310
565764.25    4152194.00        0.00272
         565764.25    4152204.00        0.00241
565764.25    4152214.00        0.00215
         565764.25    4152224.00        0.00193
565764.25    4152234.00        0.00175
         565764.25    4152244.00        0.00159
565764.25    4152254.00        0.00146
         565764.25    4152264.00        0.00134
565764.25    4152274.00        0.00125
         565764.25    4152284.00        0.00116
565574.25    4151994.00        0.06540
         565574.25    4151984.00        0.06234
565574.25    4151974.00        0.05752
         565574.25    4151964.00        0.05075
565574.25    4151954.00        0.04330
         565574.25    4151944.00        0.03648
565574.25    4151934.00        0.03081
         565574.25    4151924.00        0.02623
565574.25    4151914.00        0.02256
         565574.25    4151904.00        0.01959
565574.25    4151894.00        0.01715
         565574.25    4151884.00        0.01514
565574.25    4151874.00        0.01345
         565574.25    4151864.00        0.01203
565574.25    4151854.00        0.01083
         565574.25    4151844.00        0.00979
565574.25    4151834.00        0.00889
         565574.25    4151824.00        0.00811
565574.25    4151814.00        0.00743
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565574.25	4151804.00	0.00684	565574.25	4151794.00	0.00631
565574.25	4151784.00	0.00584	565584.25	4151984.00	0.06416
565584.25	4151974.00	0.05971	565584.25	4151964.00	0.05327
565584.25	4151954.00	0.04541	565584.25	4151944.00	0.03797
565584.25	4151934.00	0.03182	565584.25	4151924.00	0.02692
565584.25	4151914.00	0.02304	565584.25	4151904.00	0.01993
565584.25	4151894.00	0.01741	565584.25	4151884.00	0.01531
565584.25	4151874.00	0.01358	565584.25	4151864.00	0.01213
565584.25	4151854.00	0.01090	565584.25	4151844.00	0.00985
565584.25	4151834.00	0.00896	565584.25	4151824.00	0.00817
565584.25	4151814.00	0.00749	565584.25	4151804.00	0.00688
565584.25	4151794.00	0.00634	565584.25	4151784.00	0.00586
565594.25	4151984.00	0.06461	565594.25	4151974.00	0.05993
565594.25	4151964.00	0.05331	565594.25	4151954.00	0.04546

565594.25 4151944.00 0.03799
565594.25 4151934.00 0.03181
565594.25 4151924.00 0.02691
565594.25 4151914.00 0.02303
565594.25 4151904.00 0.01992
565594.25 4151894.00 0.01740
565594.25 4151884.00 0.01533
565594.25 4151874.00 0.01360
565594.25 4151864.00 0.01214
565594.25 4151854.00 0.01091
565594.25 4151844.00 0.00986
565594.25 4151834.00 0.00896
565594.25 4151824.00 0.00818
565594.25 4151814.00 0.00749
565594.25 4151804.00 0.00688
565594.25 4151794.00 0.00634
565594.25 4151784.00 0.00586
565604.25 4152084.00 0.04421
565604.25 4151994.00 0.06761
565604.25 4151984.00 0.06394
565604.25 4151974.00 0.05861
565604.25 4151964.00 0.05152
565604.25 4151954.00 0.04374
565604.25 4151944.00 0.03668
565604.25 4151934.00 0.03089
565604.25 4151924.00 0.02628
565604.25 4151914.00 0.02259
565604.25 4151904.00 0.01960
565604.25 4151894.00 0.01716
565604.25 4151884.00 0.01514
565604.25 4151874.00 0.01346
565604.25 4151864.00 0.01204
565604.25 4151854.00 0.01083
565604.25 4151844.00 0.00979
565604.25 4151834.00 0.00891
565604.25 4151824.00 0.00814
565604.25 4151814.00 0.00746
565604.25 4151804.00 0.00685
565604.25 4151794.00 0.00631
565604.25 4151784.00 0.00583
565614.25 4152084.00 0.04639
565614.25 4152074.00 0.05216
565614.25 4152064.00 0.05717
565614.25 4152004.00 0.06882
565614.25 4151994.00 0.06669
565614.25 4151984.00 0.06257
565614.25 4151974.00 0.05614
565614.25 4151964.00 0.04857
565614.25 4151954.00 0.04122
565614.25 4151944.00 0.03482
565614.25 4151934.00 0.02957
565614.25 4151924.00 0.02533

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565614.25	4151914.00	0.02188	565614.25	4151904.00	0.01907
565614.25	4151894.00	0.01675	565614.25	4151884.00	0.01483
565614.25	4151874.00	0.01322	565614.25	4151864.00	0.01185
565614.25	4151854.00	0.01069	565614.25	4151844.00	0.00968
565614.25	4151834.00	0.00881	565614.25	4151824.00	0.00806
565614.25	4151814.00	0.00739	565614.25	4151804.00	0.00679
565614.25	4151794.00	0.00625	565614.25	4151784.00	0.00579
565624.25	4152084.00	0.04487	565624.25	4152074.00	0.05073
565624.25	4152064.00	0.05572	565624.25	4152054.00	0.05978
565624.25	4152044.00	0.06274	565624.25	4152034.00	0.06473
565624.25	4152024.00	0.06647	565624.25	4152014.00	0.06731
565624.25	4152004.00	0.06696	565624.25	4151994.00	0.06444
565624.25	4151984.00	0.05931	565624.25	4151974.00	0.05225
565624.25	4151964.00	0.04500	565624.25	4151954.00	0.03842

565624.25 4151944.00 0.03279
565624.25 4151934.00 0.02805
565624.25 4151924.00 0.02418
565624.25 4151914.00 0.02102
565624.25 4151904.00 0.01841
565624.25 4151894.00 0.01625
565624.25 4151884.00 0.01444
565624.25 4151874.00 0.01291
565624.25 4151864.00 0.01160
565624.25 4151854.00 0.01049
565624.25 4151844.00 0.00952
565624.25 4151834.00 0.00868
565624.25 4151824.00 0.00793
565624.25 4151814.00 0.00728
565624.25 4151804.00 0.00670
565624.25 4151794.00 0.00619
565624.25 4151784.00 0.00574
565634.25 4152084.00 0.04073
565634.25 4152074.00 0.04666
565634.25 4152064.00 0.05204
565634.25 4152054.00 0.05662
565634.25 4152044.00 0.06019
565634.25 4152034.00 0.06255
565634.25 4152024.00 0.06421
565634.25 4152014.00 0.06476
565634.25 4152004.00 0.06352
565634.25 4151994.00 0.05993
565634.25 4151984.00 0.05427
565634.25 4151974.00 0.04763
565634.25 4151964.00 0.04130
565634.25 4151954.00 0.03564
565634.25 4151944.00 0.03068
565634.25 4151934.00 0.02648
565634.25 4151924.00 0.02300
565634.25 4151914.00 0.02012
565634.25 4151904.00 0.01772
565634.25 4151894.00 0.01570
565634.25 4151884.00 0.01399
565634.25 4151874.00 0.01255
565634.25 4151864.00 0.01132
565634.25 4151854.00 0.01026
565634.25 4151844.00 0.00933
565634.25 4151834.00 0.00852
565634.25 4151824.00 0.00780
565634.25 4151814.00 0.00716
565634.25 4151804.00 0.00661
565634.25 4151794.00 0.00611
565634.25 4151784.00 0.00568
565644.25 4152084.00 0.03586
565644.25 4152074.00 0.04119
565644.25 4152064.00 0.04628
565644.25 4152054.00 0.05110

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565644.25	4152044.00	0.05517	565644.25	4152034.00	0.05823
565644.25	4152024.00	0.05990	565644.25	4152014.00	0.05988
565644.25	4152004.00	0.05782	565644.25	4151994.00	0.05394
565644.25	4151984.00	0.04882	565644.25	4151974.00	0.04323
565644.25	4151964.00	0.03790	565644.25	4151954.00	0.03300
565644.25	4151944.00	0.02866	565644.25	4151934.00	0.02496
565644.25	4151924.00	0.02185	565644.25	4151914.00	0.01923
565644.25	4151904.00	0.01702	565644.25	4151894.00	0.01515
565644.25	4151884.00	0.01356	565644.25	4151874.00	0.01220
565644.25	4151864.00	0.01103	565644.25	4151854.00	0.01002
565644.25	4151844.00	0.00913	565644.25	4151834.00	0.00835
565644.25	4151824.00	0.00765	565644.25	4151814.00	0.00704
565644.25	4151804.00	0.00652	565644.25	4151794.00	0.00604
565644.25	4151784.00	0.00562	565654.25	4152084.00	0.03137

565654.25 4152074.00 0.03590
565654.25 4152064.00 0.04030
565654.25 4152054.00 0.04455
565654.25 4152044.00 0.04828
565654.25 4152034.00 0.05114
565654.25 4152024.00 0.05278
565654.25 4152014.00 0.05271
565654.25 4152004.00 0.05090
565654.25 4151994.00 0.04767
565654.25 4151984.00 0.04355
565654.25 4151974.00 0.03908
565654.25 4151964.00 0.03464
565654.25 4151954.00 0.03047
565654.25 4151944.00 0.02675
565654.25 4151934.00 0.02352
565654.25 4151924.00 0.02075
565654.25 4151914.00 0.01838
565654.25 4151904.00 0.01635
565654.25 4151894.00 0.01462
565654.25 4151884.00 0.01313
565654.25 4151874.00 0.01185
565654.25 4151864.00 0.01074
565654.25 4151854.00 0.00977
565654.25 4151844.00 0.00893
565654.25 4151834.00 0.00817
565654.25 4151824.00 0.00751
565654.25 4151814.00 0.00692
565654.25 4151804.00 0.00642
565654.25 4151794.00 0.00596
565654.25 4151784.00 0.00555
565664.25 4152084.00 0.02716
565664.25 4152074.00 0.03103
565664.25 4152064.00 0.03482
565664.25 4152054.00 0.03851
565664.25 4152044.00 0.04177
565664.25 4152034.00 0.04426
565664.25 4152024.00 0.04570
565664.25 4152014.00 0.04577
565664.25 4152004.00 0.04446
565664.25 4151994.00 0.04204
565664.25 4151984.00 0.03889
565664.25 4151974.00 0.03526
565664.25 4151964.00 0.03158
565664.25 4151954.00 0.02812
565664.25 4151944.00 0.02497
565664.25 4151934.00 0.02217
565664.25 4151924.00 0.01971
565664.25 4151914.00 0.01756
565664.25 4151904.00 0.01571
565664.25 4151894.00 0.01410
565664.25 4151884.00 0.01271
565664.25 4151874.00 0.01151

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565664.25	4151864.00	0.01045	565664.25	4151854.00	0.00953
565664.25	4151844.00	0.00873	565664.25	4151834.00	0.00801
565664.25	4151824.00	0.00738	565664.25	4151814.00	0.00682
565664.25	4151804.00	0.00632	565664.25	4151794.00	0.00587
565664.25	4151784.00	0.00547	565674.25	4152084.00	0.02359
565674.25	4152074.00	0.02689	565674.25	4152064.00	0.03013
565674.25	4152054.00	0.03333	565674.25	4152044.00	0.03613
565674.25	4152034.00	0.03829	565674.25	4152024.00	0.03954
565674.25	4152014.00	0.03972	565674.25	4152004.00	0.03883
565674.25	4151994.00	0.03709	565674.25	4151984.00	0.03464
565674.25	4151974.00	0.03154	565674.25	4151964.00	0.02868
565674.25	4151954.00	0.02594	565674.25	4151944.00	0.02328
565674.25	4151934.00	0.02086	565674.25	4151924.00	0.01870
565674.25	4151914.00	0.01678	565674.25	4151904.00	0.01509

565674.25 4151894.00 0.01361
565674.25 4151884.00 0.01231
565674.25 4151874.00 0.01118
565674.25 4151864.00 0.01018
565674.25 4151854.00 0.00930
565674.25 4151844.00 0.00853
565674.25 4151834.00 0.00785
565674.25 4151824.00 0.00724
565674.25 4151814.00 0.00670
565674.25 4151804.00 0.00621
565674.25 4151794.00 0.00578
565674.25 4151784.00 0.00539
565684.25 4152084.00 0.02074
565684.25 4152074.00 0.02357
565684.25 4152064.00 0.02635
565684.25 4152054.00 0.02911
565684.25 4152044.00 0.03153
565684.25 4152034.00 0.03339
565684.25 4152024.00 0.03443
565684.25 4152014.00 0.03464
565684.25 4152004.00 0.03402
565684.25 4151994.00 0.03277
565684.25 4151984.00 0.03087
565684.25 4151974.00 0.02819
565684.25 4151964.00 0.02601
565684.25 4151954.00 0.02392
565684.25 4151944.00 0.02169
565684.25 4151934.00 0.01962
565684.25 4151924.00 0.01773
565684.25 4151914.00 0.01602
565684.25 4151904.00 0.01449
565684.25 4151894.00 0.01313
565684.25 4151884.00 0.01193
565684.25 4151874.00 0.01086
565684.25 4151864.00 0.00992
565684.25 4151854.00 0.00908
565684.25 4151844.00 0.00835
565684.25 4151834.00 0.00769
565684.25 4151824.00 0.00710
565684.25 4151814.00 0.00657
565684.25 4151804.00 0.00611
565684.25 4151794.00 0.00569
565684.25 4151784.00 0.00530
565694.25 4152084.00 0.01849
565694.25 4152074.00 0.02093
565694.25 4152064.00 0.02333
565694.25 4152054.00 0.02574
565694.25 4152044.00 0.02783
565694.25 4152034.00 0.02944
565694.25 4152024.00 0.03025
565694.25 4152014.00 0.03041
565694.25 4152004.00 0.02994

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565694.25	4151994.00	0.02903	565694.25	4151984.00	0.02760
565694.25	4151974.00	0.02550	565694.25	4151964.00	0.02373
565694.25	4151954.00	0.02200	565694.25	4151944.00	0.02019
565694.25	4151934.00	0.01843	565694.25	4151924.00	0.01678
565694.25	4151914.00	0.01527	565694.25	4151904.00	0.01390
565694.25	4151894.00	0.01266	565694.25	4151884.00	0.01154
565694.25	4151874.00	0.01055	565694.25	4151864.00	0.00966
565694.25	4151854.00	0.00887	565694.25	4151844.00	0.00817
565694.25	4151834.00	0.00753	565694.25	4151824.00	0.00697
565694.25	4151814.00	0.00646	565694.25	4151804.00	0.00601
565694.25	4151794.00	0.00560	565694.25	4151784.00	0.00523
565704.25	4152084.00	0.01584	565704.25	4152074.00	0.01870
565704.25	4152064.00	0.02077	565704.25	4152054.00	0.02288
565704.25	4152044.00	0.02470	565704.25	4152034.00	0.02608

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         565704.25    4152024.00        0.02673
565704.25    4152014.00        0.02686
         565704.25    4152004.00        0.02651
565704.25    4151994.00        0.02584
         565704.25    4151984.00        0.02476
565704.25    4151974.00        0.02311
         565704.25    4151964.00        0.02167
565704.25    4151954.00        0.02023
         565704.25    4151944.00        0.01878
565704.25    4151934.00        0.01728
         565704.25    4151924.00        0.01586
565704.25    4151914.00        0.01454
         565704.25    4151904.00        0.01331
565704.25    4151894.00        0.01219
         565704.25    4151884.00        0.01117
565704.25    4151874.00        0.01024
         565704.25    4151864.00        0.00941
565704.25    4151854.00        0.00866
         565704.25    4151844.00        0.00799
565704.25    4151834.00        0.00739
         565704.25    4151824.00        0.00684
565704.25    4151814.00        0.00635
         565704.25    4151804.00        0.00591
565704.25    4151794.00        0.00551
         565704.25    4151784.00        0.00515
565714.25    4152084.00        0.01549
         565714.25    4152074.00        0.01740
565714.25    4152064.00        0.01924
         565714.25    4152054.00        0.02087
565714.25    4152044.00        0.02225
         565714.25    4152034.00        0.02330
565714.25    4152024.00        0.02383
         565714.25    4152014.00        0.02396
565714.25    4152004.00        0.02370
         565714.25    4151994.00        0.02317
565714.25    4151984.00        0.02227
         565714.25    4151974.00        0.02097
565714.25    4151964.00        0.01983
         565714.25    4151954.00        0.01867
565714.25    4151944.00        0.01746
         565714.25    4151934.00        0.01620
565714.25    4151924.00        0.01498
         565714.25    4151914.00        0.01382
565714.25    4151904.00        0.01273
         565714.25    4151894.00        0.01172
565714.25    4151884.00        0.01079
         565714.25    4151874.00        0.00994
565714.25    4151864.00        0.00916
         565714.25    4151854.00        0.00846
565714.25    4151844.00        0.00782
         565714.25    4151834.00        0.00724
565714.25    4151824.00        0.00672
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565714.25	4151814.00	0.00625	565714.25	4151804.00	0.00582
565714.25	4151794.00	0.00543	565714.25	4151784.00	0.00508
565724.25	4152084.00	0.01441	565724.25	4152074.00	0.01610
565724.25	4152064.00	0.01766	565724.25	4152054.00	0.01896
565724.25	4152044.00	0.02002	565724.25	4152034.00	0.02073
565724.25	4152024.00	0.02128	565724.25	4152014.00	0.02143
565724.25	4152004.00	0.02127	565724.25	4151994.00	0.02083
565724.25	4151984.00	0.02004	565724.25	4151974.00	0.01907
565724.25	4151964.00	0.01818	565724.25	4151954.00	0.01724
565724.25	4151944.00	0.01623	565724.25	4151934.00	0.01516
565724.25	4151924.00	0.01412	565724.25	4151914.00	0.01311
565724.25	4151904.00	0.01215	565724.25	4151894.00	0.01125
565724.25	4151884.00	0.01041	565724.25	4151874.00	0.00963
565724.25	4151864.00	0.00891	565724.25	4151854.00	0.00825

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         565724.25    4151844.00        0.00765
565724.25    4151834.00        0.00710
         565724.25    4151824.00        0.00660
565724.25    4151814.00        0.00614
         565724.25    4151804.00        0.00573
565724.25    4151794.00        0.00535
         565724.25    4151784.00        0.00500
565734.25    4152084.00        0.01333
         565734.25    4152074.00        0.01475
565734.25    4152064.00        0.01595
         565734.25    4152054.00        0.01697
565734.25    4152044.00        0.01782
         565734.25    4152034.00        0.01843
565734.25    4152024.00        0.01893
         565734.25    4152014.00        0.01917
565734.25    4152004.00        0.01914
         565734.25    4151994.00        0.01875
565734.25    4151984.00        0.01815
         565734.25    4151974.00        0.01740
565734.25    4151964.00        0.01670
         565734.25    4151954.00        0.01593
565734.25    4151944.00        0.01509
         565734.25    4151934.00        0.01419
565734.25    4151924.00        0.01330
         565734.25    4151914.00        0.01243
565734.25    4151904.00        0.01159
         565734.25    4151894.00        0.01078
565734.25    4151884.00        0.01002
         565734.25    4151874.00        0.00931
565734.25    4151864.00        0.00865
         565734.25    4151854.00        0.00804
565734.25    4151844.00        0.00747
         565734.25    4151834.00        0.00695
565734.25    4151824.00        0.00648
         565734.25    4151814.00        0.00604
565734.25    4151804.00        0.00564
         565734.25    4151794.00        0.00527
565734.25    4151784.00        0.00494
         565744.25    4152084.00        0.01231
565744.25    4152074.00        0.01348
         565744.25    4152064.00        0.01450
565744.25    4152054.00        0.01538
         565744.25    4152044.00        0.01610
565744.25    4152034.00        0.01663
         565744.25    4152024.00        0.01707
565744.25    4152014.00        0.01729
         565744.25    4152004.00        0.01729
565744.25    4151994.00        0.01700
         565744.25    4151984.00        0.01653
565744.25    4151974.00        0.01594
         565744.25    4151964.00        0.01536
565744.25    4151954.00        0.01473
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565744.25	4151944.00	0.01404	565744.25	4151934.00	0.01328
565744.25	4151924.00	0.01251	565744.25	4151914.00	0.01174
565744.25	4151904.00	0.01101	565744.25	4151894.00	0.01031
565744.25	4151884.00	0.00964	565744.25	4151874.00	0.00900
565744.25	4151864.00	0.00839	565744.25	4151854.00	0.00782
565744.25	4151844.00	0.00730	565744.25	4151834.00	0.00681
565744.25	4151824.00	0.00636	565744.25	4151814.00	0.00594
565744.25	4151804.00	0.00555	565744.25	4151794.00	0.00520
565744.25	4151784.00	0.00487	565754.25	4152084.00	0.01137
565754.25	4152074.00	0.01235	565754.25	4152064.00	0.01324
565754.25	4152054.00	0.01400	565754.25	4152044.00	0.01462
565754.25	4152034.00	0.01508	565754.25	4152024.00	0.01546
565754.25	4152014.00	0.01566	565754.25	4152004.00	0.01569
565754.25	4151994.00	0.01547	565754.25	4151984.00	0.01511

565754.25 4151974.00 0.01463
565754.25 4151964.00 0.01417
565754.25 4151954.00 0.01364
565754.25 4151944.00 0.01307
565754.25 4151934.00 0.01242
565754.25 4151924.00 0.01175
565754.25 4151914.00 0.01109
565754.25 4151904.00 0.01046
565754.25 4151894.00 0.00985
565754.25 4151884.00 0.00925
565754.25 4151874.00 0.00867
565754.25 4151864.00 0.00812
565754.25 4151854.00 0.00760
565754.25 4151844.00 0.00711
565754.25 4151834.00 0.00665
565754.25 4151824.00 0.00623
565754.25 4151814.00 0.00583
565754.25 4151804.00 0.00547
565754.25 4151794.00 0.00513
565754.25 4151784.00 0.00481
565764.25 4152084.00 0.01049
565764.25 4152074.00 0.01134
565764.25 4152064.00 0.01213
565764.25 4152054.00 0.01283
565764.25 4152044.00 0.01338
565764.25 4152034.00 0.01379
565764.25 4152024.00 0.01409
565764.25 4152014.00 0.01424
565764.25 4152004.00 0.01424
565764.25 4151994.00 0.01409
565764.25 4151984.00 0.01381
565764.25 4151974.00 0.01344
565764.25 4151964.00 0.01306
565764.25 4151954.00 0.01263
565764.25 4151944.00 0.01215
565764.25 4151934.00 0.01161
565764.25 4151924.00 0.01105
565764.25 4151914.00 0.01049
565764.25 4151904.00 0.00994
565764.25 4151894.00 0.00940
565764.25 4151884.00 0.00887
565764.25 4151874.00 0.00835
565764.25 4151864.00 0.00785
565764.25 4151854.00 0.00737
565764.25 4151844.00 0.00692
565764.25 4151834.00 0.00650
565764.25 4151824.00 0.00610
565764.25 4151814.00 0.00573
565764.25 4151804.00 0.00537
565764.25 4151794.00 0.00505
565764.25 4151784.00 0.00475
565564.25 4151974.00 0.05286

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565564.25	4151964.00	0.04617	565564.25	4151954.00	0.03963
565564.25	4151944.00	0.03380	565564.25	4151934.00	0.02891
565564.25	4151924.00	0.02489	565564.25	4151914.00	0.02159
565564.25	4151904.00	0.01887	565564.25	4151894.00	0.01662
565564.25	4151884.00	0.01473	565564.25	4151874.00	0.01314
565564.25	4151864.00	0.01179	565564.25	4151854.00	0.01064
565564.25	4151844.00	0.00964	565564.25	4151834.00	0.00876
565564.25	4151824.00	0.00799	565564.25	4151814.00	0.00733
565564.25	4151804.00	0.00676	565564.25	4151794.00	0.00625
565564.25	4151784.00	0.00579	565554.25	4151974.00	0.04665
565554.25	4151964.00	0.04070	565554.25	4151954.00	0.03527
565554.25	4151944.00	0.03050	565554.25	4151934.00	0.02646
565554.25	4151924.00	0.02307	565554.25	4151914.00	0.02023
565554.25	4151904.00	0.01784	565554.25	4151894.00	0.01582

565554.25 4151884.00 0.01411
565554.25 4151874.00 0.01265
565554.25 4151864.00 0.01140
565554.25 4151854.00 0.01032
565554.25 4151844.00 0.00939
565554.25 4151834.00 0.00855
565554.25 4151824.00 0.00781
565554.25 4151814.00 0.00718
565554.25 4151804.00 0.00663
565554.25 4151794.00 0.00614
565554.25 4151784.00 0.00569
565544.25 4151974.00 0.04004
565544.25 4151964.00 0.03514
565544.25 4151954.00 0.03081
565544.25 4151944.00 0.02704
565544.25 4151934.00 0.02380
565544.25 4151924.00 0.02101
565544.25 4151914.00 0.01863
565544.25 4151904.00 0.01659
565544.25 4151894.00 0.01484
565544.25 4151884.00 0.01333
565544.25 4151874.00 0.01202
565544.25 4151864.00 0.01089
565544.25 4151854.00 0.00990
565544.25 4151844.00 0.00903
565544.25 4151834.00 0.00826
565544.25 4151824.00 0.00758
565544.25 4151814.00 0.00698
565544.25 4151804.00 0.00645
565544.25 4151794.00 0.00598
565544.25 4151784.00 0.00556
565534.25 4151974.00 0.03374
565534.25 4151964.00 0.02992
565534.25 4151954.00 0.02656
565534.25 4151944.00 0.02363
565534.25 4151934.00 0.02107
565534.25 4151924.00 0.01884
565534.25 4151914.00 0.01689
565534.25 4151904.00 0.01520
565534.25 4151894.00 0.01371
565534.25 4151884.00 0.01242
565534.25 4151874.00 0.01128
565534.25 4151864.00 0.01028
565534.25 4151854.00 0.00938
565534.25 4151844.00 0.00859
565534.25 4151834.00 0.00790
565534.25 4151824.00 0.00729
565534.25 4151814.00 0.00674
565534.25 4151804.00 0.00624
565534.25 4151794.00 0.00579
565534.25 4151784.00 0.00538
565524.25 4151974.00 0.02805

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565524.25	4151964.00	0.02519	565524.25	4151954.00	0.02266
565524.25	4151944.00	0.02042	565524.25	4151934.00	0.01844
565524.25	4151924.00	0.01669	565524.25	4151914.00	0.01513
565524.25	4151904.00	0.01375	565524.25	4151894.00	0.01252
565524.25	4151884.00	0.01143	565524.25	4151874.00	0.01046
565524.25	4151864.00	0.00959	565524.25	4151854.00	0.00881
565524.25	4151844.00	0.00811	565524.25	4151834.00	0.00749
565524.25	4151824.00	0.00694	565524.25	4151814.00	0.00643
565524.25	4151804.00	0.00598	565524.25	4151794.00	0.00556
565524.25	4151784.00	0.00519	565514.25	4151974.00	0.02306
565514.25	4151964.00	0.02100	565514.25	4151954.00	0.01915
565514.25	4151944.00	0.01748	565514.25	4151934.00	0.01598
565514.25	4151924.00	0.01463	565514.25	4151914.00	0.01341
565514.25	4151904.00	0.01230	565514.25	4151894.00	0.01131

565514.25 4151884.00 0.01041
565514.25 4151874.00 0.00960
565514.25 4151864.00 0.00886
565514.25 4151854.00 0.00819
565514.25 4151844.00 0.00759
565514.25 4151834.00 0.00704
565514.25 4151824.00 0.00654
565514.25 4151814.00 0.00609
565514.25 4151804.00 0.00568
565514.25 4151794.00 0.00531
565514.25 4151784.00 0.00497
565504.25 4151974.00 0.01878
565504.25 4151964.00 0.01737
565504.25 4151954.00 0.01605
565504.25 4151944.00 0.01485
565504.25 4151934.00 0.01374
565504.25 4151924.00 0.01271
565504.25 4151914.00 0.01178
565504.25 4151904.00 0.01091
565504.25 4151894.00 0.01012
565504.25 4151884.00 0.00940
565504.25 4151874.00 0.00873
565504.25 4151864.00 0.00811
565504.25 4151854.00 0.00755
565504.25 4151844.00 0.00703
565504.25 4151834.00 0.00656
565504.25 4151824.00 0.00613
565504.25 4151814.00 0.00573
565504.25 4151804.00 0.00537
565504.25 4151794.00 0.00504
565504.25 4151784.00 0.00473
565494.25 4151974.00 0.01520
565494.25 4151964.00 0.01427
565494.25 4151954.00 0.01337
565494.25 4151944.00 0.01253
565494.25 4151934.00 0.01173
565494.25 4151924.00 0.01097
565494.25 4151914.00 0.01026
565494.25 4151904.00 0.00960
565494.25 4151894.00 0.00898
565494.25 4151884.00 0.00840
565494.25 4151874.00 0.00786
565494.25 4151864.00 0.00736
565494.25 4151854.00 0.00689
565494.25 4151844.00 0.00646
565494.25 4151834.00 0.00606
565494.25 4151824.00 0.00570
565494.25 4151814.00 0.00536
565494.25 4151804.00 0.00504
565494.25 4151794.00 0.00474
565494.25 4151784.00 0.00447
565484.25 4151974.00 0.01225

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565484.25	4151964.00	0.01167	565484.25	4151954.00	0.01109
565484.25	4151944.00	0.01052	565484.25	4151934.00	0.00996
565484.25	4151924.00	0.00941	565484.25	4151914.00	0.00888
565484.25	4151904.00	0.00838	565484.25	4151894.00	0.00791
565484.25	4151884.00	0.00746	565484.25	4151874.00	0.00703
565484.25	4151864.00	0.00663	565484.25	4151854.00	0.00625
565484.25	4151844.00	0.00590	565484.25	4151834.00	0.00557
565484.25	4151824.00	0.00526	565484.25	4151814.00	0.00497
565484.25	4151804.00	0.00469	565484.25	4151794.00	0.00444
565484.25	4151784.00	0.00420	565474.25	4151974.00	0.00988
565474.25	4151964.00	0.00954	565474.25	4151954.00	0.00918
565474.25	4151944.00	0.00881	565474.25	4151934.00	0.00843
565474.25	4151924.00	0.00805	565474.25	4151914.00	0.00767
565474.25	4151904.00	0.00730	565474.25	4151894.00	0.00694

565474.25 4151884.00 0.00660
565474.25 4151874.00 0.00626
565474.25 4151864.00 0.00595
565474.25 4151854.00 0.00564
565474.25 4151844.00 0.00535
565474.25 4151834.00 0.00508
565474.25 4151824.00 0.00482
565474.25 4151814.00 0.00457
565474.25 4151804.00 0.00434
565474.25 4151794.00 0.00412
565474.25 4151784.00 0.00392
565464.25 4151974.00 0.00801
565464.25 4151964.00 0.00782
565464.25 4151954.00 0.00761
565464.25 4151944.00 0.00738
565464.25 4151934.00 0.00713
565464.25 4151924.00 0.00687
565464.25 4151914.00 0.00661
565464.25 4151904.00 0.00634
565464.25 4151894.00 0.00607
565464.25 4151884.00 0.00581
565464.25 4151874.00 0.00556
565464.25 4151864.00 0.00531
565464.25 4151854.00 0.00507
565464.25 4151844.00 0.00483
565464.25 4151834.00 0.00461
565464.25 4151824.00 0.00439
565464.25 4151814.00 0.00419
565464.25 4151804.00 0.00400
565464.25 4151794.00 0.00381
565464.25 4151784.00 0.00364
565454.25 4151974.00 0.00654
565454.25 4151964.00 0.00644
565454.25 4151954.00 0.00632
565454.25 4151944.00 0.00618
565454.25 4151934.00 0.00603
565454.25 4151924.00 0.00586
565454.25 4151914.00 0.00568
565454.25 4151904.00 0.00549
565454.25 4151894.00 0.00530
565454.25 4151884.00 0.00510
565454.25 4151874.00 0.00491
565454.25 4151864.00 0.00472
565454.25 4151854.00 0.00453
565454.25 4151844.00 0.00435
565454.25 4151834.00 0.00417
565454.25 4151824.00 0.00399
565454.25 4151814.00 0.00382
565454.25 4151804.00 0.00366
565454.25 4151794.00 0.00351
565454.25 4151784.00 0.00337
565444.25 4151974.00 0.00539

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565444.25	4151964.00	0.00535	565444.25	4151954.00	0.00529
565444.25	4151944.00	0.00521	565444.25	4151934.00	0.00511
565444.25	4151924.00	0.00500	565444.25	4151914.00	0.00488
565444.25	4151904.00	0.00475	565444.25	4151894.00	0.00462
565444.25	4151884.00	0.00448	565444.25	4151874.00	0.00433
565444.25	4151864.00	0.00419	565444.25	4151854.00	0.00405
565444.25	4151844.00	0.00390	565444.25	4151834.00	0.00375
565444.25	4151824.00	0.00361	565444.25	4151814.00	0.00347
565444.25	4151804.00	0.00334	565444.25	4151794.00	0.00322
565444.25	4151784.00	0.00310	565434.25	4151974.00	0.00449
565434.25	4151964.00	0.00449	565434.25	4151954.00	0.00446
565434.25	4151944.00	0.00441	565434.25	4151934.00	0.00435
565434.25	4151924.00	0.00428	565434.25	4151914.00	0.00421
565434.25	4151904.00	0.00412	565434.25	4151894.00	0.00403

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         565434.25    4151884.00        0.00393
565434.25    4151874.00        0.00382
         565434.25    4151864.00        0.00371
565434.25    4151854.00        0.00360
         565434.25    4151844.00        0.00349
565434.25    4151834.00        0.00337
         565434.25    4151824.00        0.00326
565434.25    4151814.00        0.00315
         565434.25    4151804.00        0.00305
565434.25    4151794.00        0.00295
         565434.25    4151784.00        0.00285
565424.25    4151974.00        0.00379
         565424.25    4151964.00        0.00379
565424.25    4151954.00        0.00379
         565424.25    4151944.00        0.00376
565424.25    4151934.00        0.00373
         565424.25    4151924.00        0.00369
565424.25    4151914.00        0.00364
         565424.25    4151904.00        0.00358
565424.25    4151894.00        0.00352
         565424.25    4151884.00        0.00345
565424.25    4151874.00        0.00338
         565424.25    4151864.00        0.00329
565424.25    4151854.00        0.00321
         565424.25    4151844.00        0.00312
565424.25    4151834.00        0.00303
         565424.25    4151824.00        0.00294
565424.25    4151814.00        0.00285
         565424.25    4151804.00        0.00277
565424.25    4151794.00        0.00269
         565424.25    4151784.00        0.00261
565414.25    4151974.00        0.00323
         565414.25    4151964.00        0.00324
565414.25    4151954.00        0.00324
         565414.25    4151944.00        0.00323
565414.25    4151934.00        0.00322
         565414.25    4151924.00        0.00319
565414.25    4151914.00        0.00316
         565414.25    4151904.00        0.00313
565414.25    4151894.00        0.00308
         565414.25    4151884.00        0.00304
565414.25    4151874.00        0.00298
         565414.25    4151864.00        0.00292
565414.25    4151854.00        0.00286
         565414.25    4151844.00        0.00279
565414.25    4151834.00        0.00272
         565414.25    4151824.00        0.00265
565414.25    4151814.00        0.00258
         565414.25    4151804.00        0.00251
565414.25    4151794.00        0.00245
         565414.25    4151784.00        0.00238
565404.25    4151974.00        0.00277
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565404.25	4151964.00	0.00279	565404.25	4151954.00	0.00279
565404.25	4151944.00	0.00280	565404.25	4151934.00	0.00279
565404.25	4151924.00	0.00278	565404.25	4151914.00	0.00276
565404.25	4151904.00	0.00274	565404.25	4151894.00	0.00271
565404.25	4151884.00	0.00268	565404.25	4151874.00	0.00264
565404.25	4151864.00	0.00260	565404.25	4151854.00	0.00255
565404.25	4151844.00	0.00251	565404.25	4151834.00	0.00245
565404.25	4151824.00	0.00240	565404.25	4151814.00	0.00234
565404.25	4151804.00	0.00228	565404.25	4151794.00	0.00223
565404.25	4151784.00	0.00217	565394.25	4151974.00	0.00240
565394.25	4151964.00	0.00242	565394.25	4151954.00	0.00243
565394.25	4151944.00	0.00243	565394.25	4151934.00	0.00244
565394.25	4151924.00	0.00243	565394.25	4151914.00	0.00243
565394.25	4151904.00	0.00241	565394.25	4151894.00	0.00239

565394.25 4151884.00 0.00237
565394.25 4151874.00 0.00235
565394.25 4151864.00 0.00232
565394.25 4151854.00 0.00229
565394.25 4151844.00 0.00225
565394.25 4151834.00 0.00221
565394.25 4151824.00 0.00217
565394.25 4151814.00 0.00213
565394.25 4151804.00 0.00208
565394.25 4151794.00 0.00203
565394.25 4151784.00 0.00198
565384.25 4151974.00 0.00210
565384.25 4151964.00 0.00211
565384.25 4151954.00 0.00213
565384.25 4151944.00 0.00214
565384.25 4151934.00 0.00214
565384.25 4151924.00 0.00214
565384.25 4151914.00 0.00214
565384.25 4151904.00 0.00213
565384.25 4151894.00 0.00212
565384.25 4151884.00 0.00211
565384.25 4151874.00 0.00209
565384.25 4151864.00 0.00207
565384.25 4151854.00 0.00205
565384.25 4151844.00 0.00203
565384.25 4151834.00 0.00200
565384.25 4151824.00 0.00197
565384.25 4151814.00 0.00193
565384.25 4151804.00 0.00189
565384.25 4151794.00 0.00185
565384.25 4151784.00 0.00181
565374.25 4151974.00 0.00185
565374.25 4151964.00 0.00187
565374.25 4151954.00 0.00188
565374.25 4151944.00 0.00189
565374.25 4151934.00 0.00189
565374.25 4151924.00 0.00190
565374.25 4151914.00 0.00190
565374.25 4151904.00 0.00190
565374.25 4151894.00 0.00189
565374.25 4151884.00 0.00188
565374.25 4151874.00 0.00187
565374.25 4151864.00 0.00186
565374.25 4151854.00 0.00184
565374.25 4151844.00 0.00182
565374.25 4151834.00 0.00180
565374.25 4151824.00 0.00178
565374.25 4151814.00 0.00175
565374.25 4151804.00 0.00172
565374.25 4151794.00 0.00169
565374.25 4151784.00 0.00166
565364.25 4151974.00 0.00165

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565364.25	4151964.00	0.00166	565364.25	4151954.00	0.00167
565364.25	4151944.00	0.00168	565364.25	4151934.00	0.00168
565364.25	4151924.00	0.00169	565364.25	4151914.00	0.00169
565364.25	4151904.00	0.00169	565364.25	4151894.00	0.00169
565364.25	4151884.00	0.00169	565364.25	4151874.00	0.00168
565364.25	4151864.00	0.00167	565364.25	4151854.00	0.00166
565364.25	4151844.00	0.00164	565364.25	4151834.00	0.00163
565364.25	4151824.00	0.00161	565364.25	4151814.00	0.00160
565364.25	4151804.00	0.00157	565364.25	4151794.00	0.00155
565364.25	4151784.00	0.00152	565354.25	4151974.00	0.00148
565354.25	4151964.00	0.00148	565354.25	4151954.00	0.00149
565354.25	4151944.00	0.00150	565354.25	4151934.00	0.00150
565354.25	4151924.00	0.00151	565354.25	4151914.00	0.00152
565354.25	4151904.00	0.00152	565354.25	4151894.00	0.00152

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         565354.25    4151884.00        0.00152
565354.25    4151874.00        0.00152
         565354.25    4151864.00        0.00151
565354.25    4151854.00        0.00150
         565354.25    4151844.00        0.00149
565354.25    4151834.00        0.00148
         565354.25    4151824.00        0.00147
565354.25    4151814.00        0.00145
         565354.25    4151804.00        0.00143
565354.25    4151794.00        0.00141
         565354.25    4151784.00        0.00139
565344.25    4151974.00        0.00133
         565344.25    4151964.00        0.00134
565344.25    4151954.00        0.00134
         565344.25    4151944.00        0.00135
565344.25    4151934.00        0.00135
         565344.25    4151924.00        0.00136
565344.25    4151914.00        0.00136
         565344.25    4151904.00        0.00137
565344.25    4151894.00        0.00137
         565344.25    4151884.00        0.00137
565344.25    4151874.00        0.00137
         565344.25    4151864.00        0.00137
565344.25    4151854.00        0.00136
         565344.25    4151844.00        0.00135
565344.25    4151834.00        0.00134
         565344.25    4151824.00        0.00133
565344.25    4151814.00        0.00132
         565344.25    4151804.00        0.00131
565344.25    4151794.00        0.00129
         565344.25    4151784.00        0.00128
565334.25    4151974.00        0.00121
         565334.25    4151964.00        0.00121
565334.25    4151954.00        0.00121
         565334.25    4151944.00        0.00122
565334.25    4151934.00        0.00122
         565334.25    4151924.00        0.00123
565334.25    4151914.00        0.00123
         565334.25    4151904.00        0.00124
565334.25    4151894.00        0.00124
         565334.25    4151884.00        0.00124
565334.25    4151874.00        0.00124
         565334.25    4151864.00        0.00124
565334.25    4151854.00        0.00124
         565334.25    4151844.00        0.00123
565334.25    4151834.00        0.00122
         565334.25    4151824.00        0.00122
565334.25    4151814.00        0.00121
         565334.25    4151804.00        0.00120
565334.25    4151794.00        0.00119
         565334.25    4151784.00        0.00118
565324.25    4151974.00        0.00110
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565324.25	4151964.00	0.00110	565324.25	4151954.00	0.00110
565324.25	4151944.00	0.00111	565324.25	4151934.00	0.00111
565324.25	4151924.00	0.00111	565324.25	4151914.00	0.00112
565324.25	4151904.00	0.00112	565324.25	4151894.00	0.00112
565324.25	4151884.00	0.00113	565324.25	4151874.00	0.00113
565324.25	4151864.00	0.00113	565324.25	4151854.00	0.00113
565324.25	4151844.00	0.00112	565324.25	4151834.00	0.00112
565324.25	4151824.00	0.00111	565324.25	4151814.00	0.00111
565324.25	4151804.00	0.00110	565324.25	4151794.00	0.00109
565324.25	4151784.00	0.00108	565314.25	4151974.00	0.00100
565314.25	4151964.00	0.00100	565314.25	4151954.00	0.00101
565314.25	4151944.00	0.00101	565314.25	4151934.00	0.00101
565314.25	4151924.00	0.00101	565314.25	4151914.00	0.00102
565314.25	4151904.00	0.00102	565314.25	4151894.00	0.00102

565314.25 4151884.00 0.00103
565314.25 4151874.00 0.00103
565314.25 4151864.00 0.00103
565314.25 4151854.00 0.00103
565314.25 4151844.00 0.00103
565314.25 4151834.00 0.00103
565314.25 4151824.00 0.00102
565314.25 4151814.00 0.00102
565314.25 4151804.00 0.00101
565314.25 4151794.00 0.00101
565314.25 4151784.00 0.00100
565304.25 4151974.00 0.00092
565304.25 4151964.00 0.00092
565304.25 4151954.00 0.00092
565304.25 4151944.00 0.00092
565304.25 4151934.00 0.00093
565304.25 4151924.00 0.00093
565304.25 4151914.00 0.00093
565304.25 4151904.00 0.00093
565304.25 4151894.00 0.00094
565304.25 4151884.00 0.00094
565304.25 4151874.00 0.00094
565304.25 4151864.00 0.00094
565304.25 4151854.00 0.00094
565304.25 4151844.00 0.00094
565304.25 4151834.00 0.00094
565304.25 4151824.00 0.00094
565304.25 4151814.00 0.00094
565304.25 4151804.00 0.00093
565304.25 4151794.00 0.00093
565304.25 4151784.00 0.00092
565294.25 4151974.00 0.00085
565294.25 4151964.00 0.00085
565294.25 4151954.00 0.00085
565294.25 4151944.00 0.00085
565294.25 4151934.00 0.00085
565294.25 4151924.00 0.00085
565294.25 4151914.00 0.00085
565294.25 4151904.00 0.00086
565294.25 4151894.00 0.00086
565294.25 4151884.00 0.00086
565294.25 4151874.00 0.00086
565294.25 4151864.00 0.00086
565294.25 4151854.00 0.00087
565294.25 4151844.00 0.00087
565294.25 4151834.00 0.00087
565294.25 4151824.00 0.00087
565294.25 4151814.00 0.00086
565294.25 4151804.00 0.00086
565294.25 4151794.00 0.00086
565294.25 4151784.00 0.00085
565284.25 4151974.00 0.00078

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565284.25	4151964.00	0.00078	565284.25	4151954.00	0.00078
565284.25	4151944.00	0.00078	565284.25	4151934.00	0.00078
565284.25	4151924.00	0.00078	565284.25	4151914.00	0.00079
565284.25	4151904.00	0.00079	565284.25	4151894.00	0.00079
565284.25	4151884.00	0.00079	565284.25	4151874.00	0.00079
565284.25	4151864.00	0.00079	565284.25	4151854.00	0.00080
565284.25	4151844.00	0.00080	565284.25	4151834.00	0.00080
565284.25	4151824.00	0.00080	565284.25	4151814.00	0.00080
565284.25	4151804.00	0.00080	565284.25	4151794.00	0.00079
565284.25	4151784.00	0.00079	565274.25	4151974.00	0.00072
565274.25	4151964.00	0.00072	565274.25	4151954.00	0.00072
565274.25	4151944.00	0.00072	565274.25	4151934.00	0.00073
565274.25	4151924.00	0.00073	565274.25	4151914.00	0.00073
565274.25	4151904.00	0.00073	565274.25	4151894.00	0.00073

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         565274.25    4151884.00        0.00073
565274.25    4151874.00        0.00073
         565274.25    4151864.00        0.00073
565274.25    4151854.00        0.00074
         565274.25    4151844.00        0.00074
565274.25    4151834.00        0.00074
         565274.25    4151824.00        0.00074
565274.25    4151814.00        0.00074
         565274.25    4151804.00        0.00074
565274.25    4151794.00        0.00074
         565274.25    4151784.00        0.00073
565264.25    4151974.00        0.00067
         565264.25    4151964.00        0.00067
565264.25    4151954.00        0.00067
         565264.25    4151944.00        0.00067
565264.25    4151934.00        0.00067
         565264.25    4151924.00        0.00067
565264.25    4151914.00        0.00067
         565264.25    4151904.00        0.00067
565264.25    4151894.00        0.00068
         565264.25    4151884.00        0.00068
565264.25    4151874.00        0.00068
         565264.25    4151864.00        0.00068
565264.25    4151854.00        0.00068
         565264.25    4151844.00        0.00068
565264.25    4151834.00        0.00068
         565264.25    4151824.00        0.00068
565264.25    4151814.00        0.00068
         565264.25    4151804.00        0.00068
565264.25    4151794.00        0.00068
         565264.25    4151784.00        0.00068
565454.25    4151984.00        0.00659
         565454.25    4151994.00        0.00661
565454.25    4152004.00        0.00657
         565454.25    4152014.00        0.00649
565454.25    4152024.00        0.00637
         565454.25    4152034.00        0.00620
565454.25    4152044.00        0.00601
         565454.25    4152054.00        0.00581
565454.25    4152064.00        0.00560
         565454.25    4152074.00        0.00540
565454.25    4152084.00        0.00524
         565454.25    4152094.00        0.00514
565454.25    4152104.00        0.00508
         565454.25    4152114.00        0.00505
565454.25    4152124.00        0.00501
         565454.25    4152134.00        0.00495
565454.25    4152144.00        0.00486
         565454.25    4152154.00        0.00474
565454.25    4152164.00        0.00460
         565454.25    4152174.00        0.00443
565454.25    4152184.00        0.00424
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565454.25	4152194.00	0.00404	565454.25	4152204.00	0.00382
565454.25	4152214.00	0.00360	565454.25	4152224.00	0.00338
565454.25	4152234.00	0.00317	565454.25	4152244.00	0.00297
565454.25	4152254.00	0.00278	565454.25	4152264.00	0.00260
565454.25	4152274.00	0.00243	565454.25	4152284.00	0.00227
565444.25	4151984.00	0.00540	565444.25	4151994.00	0.00538
565444.25	4152004.00	0.00533	565444.25	4152014.00	0.00526
565444.25	4152024.00	0.00516	565444.25	4152034.00	0.00503
565444.25	4152044.00	0.00490	565444.25	4152054.00	0.00475
565444.25	4152064.00	0.00461	565444.25	4152074.00	0.00447
565444.25	4152084.00	0.00435	565444.25	4152094.00	0.00427
565444.25	4152104.00	0.00424	565444.25	4152114.00	0.00423
565444.25	4152124.00	0.00423	565444.25	4152134.00	0.00422
565444.25	4152144.00	0.00419	565444.25	4152154.00	0.00414

565444.25 4152164.00 0.00406
565444.25 4152174.00 0.00395
565444.25 4152184.00 0.00383
565444.25 4152194.00 0.00369
565444.25 4152204.00 0.00353
565444.25 4152214.00 0.00336
565444.25 4152224.00 0.00318
565444.25 4152234.00 0.00301
565444.25 4152244.00 0.00283
565444.25 4152254.00 0.00267
565444.25 4152264.00 0.00251
565444.25 4152274.00 0.00235
565444.25 4152284.00 0.00221
565434.25 4151984.00 0.00448
565434.25 4151994.00 0.00445
565434.25 4152004.00 0.00440
565434.25 4152014.00 0.00434
565434.25 4152024.00 0.00426
565434.25 4152034.00 0.00417
565434.25 4152044.00 0.00407
565434.25 4152054.00 0.00397
565434.25 4152064.00 0.00386
565434.25 4152074.00 0.00376
565434.25 4152084.00 0.00367
565434.25 4152094.00 0.00361
565434.25 4152104.00 0.00358
565434.25 4152114.00 0.00358
565434.25 4152124.00 0.00359
565434.25 4152134.00 0.00361
565434.25 4152144.00 0.00361
565434.25 4152154.00 0.00360
565434.25 4152164.00 0.00357
565434.25 4152174.00 0.00352
565434.25 4152184.00 0.00344
565434.25 4152194.00 0.00335
565434.25 4152204.00 0.00324
565434.25 4152214.00 0.00311
565434.25 4152224.00 0.00297
565434.25 4152234.00 0.00283
565434.25 4152244.00 0.00269
565434.25 4152254.00 0.00255
565434.25 4152264.00 0.00241
565434.25 4152274.00 0.00227
565434.25 4152284.00 0.00214
565424.25 4151984.00 0.00377
565424.25 4151994.00 0.00374
565424.25 4152004.00 0.00369
565424.25 4152014.00 0.00364
565424.25 4152024.00 0.00358
565424.25 4152034.00 0.00351
565424.25 4152044.00 0.00344
565424.25 4152054.00 0.00336

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565424.25	4152064.00	0.00328	565424.25	4152074.00	0.00320
565424.25	4152084.00	0.00313	565424.25	4152094.00	0.00308
565424.25	4152104.00	0.00306	565424.25	4152114.00	0.00306
565424.25	4152124.00	0.00308	565424.25	4152134.00	0.00310
565424.25	4152144.00	0.00313	565424.25	4152154.00	0.00314
565424.25	4152164.00	0.00314	565424.25	4152174.00	0.00312
565424.25	4152184.00	0.00309	565424.25	4152194.00	0.00303
565424.25	4152204.00	0.00295	565424.25	4152214.00	0.00287
565424.25	4152224.00	0.00277	565424.25	4152234.00	0.00265
565424.25	4152244.00	0.00254	565424.25	4152254.00	0.00242
565424.25	4152264.00	0.00230	565424.25	4152274.00	0.00219
565424.25	4152284.00	0.00207	565414.25	4151984.00	0.00320
565414.25	4151994.00	0.00318	565414.25	4152004.00	0.00314
565414.25	4152014.00	0.00310	565414.25	4152024.00	0.00305

565414.25 4152034.00 0.00300
565414.25 4152044.00 0.00294
565414.25 4152054.00 0.00288
565414.25 4152064.00 0.00282
565414.25 4152074.00 0.00276
565414.25 4152084.00 0.00271
565414.25 4152094.00 0.00267
565414.25 4152104.00 0.00264
565414.25 4152114.00 0.00264
565414.25 4152124.00 0.00266
565414.25 4152134.00 0.00269
565414.25 4152144.00 0.00272
565414.25 4152154.00 0.00275
565414.25 4152164.00 0.00276
565414.25 4152174.00 0.00277
565414.25 4152184.00 0.00276
565414.25 4152194.00 0.00273
565414.25 4152204.00 0.00269
565414.25 4152214.00 0.00263
565414.25 4152224.00 0.00256
565414.25 4152234.00 0.00248
565414.25 4152244.00 0.00238
565414.25 4152254.00 0.00229
565414.25 4152264.00 0.00219
565414.25 4152274.00 0.00209
565414.25 4152284.00 0.00199
565404.25 4151984.00 0.00275
565404.25 4151994.00 0.00272
565404.25 4152004.00 0.00270
565404.25 4152014.00 0.00267
565404.25 4152024.00 0.00263
565404.25 4152034.00 0.00259
565404.25 4152044.00 0.00255
565404.25 4152054.00 0.00250
565404.25 4152064.00 0.00245
565404.25 4152074.00 0.00240
565404.25 4152084.00 0.00236
565404.25 4152094.00 0.00233
565404.25 4152104.00 0.00231
565404.25 4152114.00 0.00231
565404.25 4152124.00 0.00232
565404.25 4152134.00 0.00234
565404.25 4152144.00 0.00237
565404.25 4152154.00 0.00241
565404.25 4152164.00 0.00244
565404.25 4152174.00 0.00245
565404.25 4152184.00 0.00246
565404.25 4152194.00 0.00246
565404.25 4152204.00 0.00244
565404.25 4152214.00 0.00240
565404.25 4152224.00 0.00236
565404.25 4152234.00 0.00230

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565404.25	4152244.00	0.00223	565404.25	4152254.00	0.00216
565404.25	4152264.00	0.00208	565404.25	4152274.00	0.00199
565404.25	4152284.00	0.00191	565394.25	4151984.00	0.00238
565394.25	4151994.00	0.00236	565394.25	4152004.00	0.00235
565394.25	4152014.00	0.00233	565394.25	4152024.00	0.00230
565394.25	4152034.00	0.00226	565394.25	4152044.00	0.00223
565394.25	4152054.00	0.00219	565394.25	4152064.00	0.00215
565394.25	4152074.00	0.00211	565394.25	4152084.00	0.00208
565394.25	4152094.00	0.00205	565394.25	4152104.00	0.00203
565394.25	4152114.00	0.00203	565394.25	4152124.00	0.00204
565394.25	4152134.00	0.00206	565394.25	4152144.00	0.00209
565394.25	4152154.00	0.00212	565394.25	4152164.00	0.00215
565394.25	4152174.00	0.00218	565394.25	4152184.00	0.00220
565394.25	4152194.00	0.00221	565394.25	4152204.00	0.00220

565394.25 4152214.00 0.00219
565394.25 4152224.00 0.00216
565394.25 4152234.00 0.00212
565394.25 4152244.00 0.00208
565394.25 4152254.00 0.00202
565394.25 4152264.00 0.00196
565394.25 4152274.00 0.00189
565394.25 4152284.00 0.00182
565384.25 4151984.00 0.00209
565384.25 4151994.00 0.00207
565384.25 4152004.00 0.00206
565384.25 4152014.00 0.00204
565384.25 4152024.00 0.00202
565384.25 4152034.00 0.00199
565384.25 4152044.00 0.00197
565384.25 4152054.00 0.00194
565384.25 4152064.00 0.00191
565384.25 4152074.00 0.00187
565384.25 4152084.00 0.00184
565384.25 4152094.00 0.00182
565384.25 4152104.00 0.00180
565384.25 4152114.00 0.00180
565384.25 4152124.00 0.00180
565384.25 4152134.00 0.00182
565384.25 4152144.00 0.00184
565384.25 4152154.00 0.00187
565384.25 4152164.00 0.00191
565384.25 4152174.00 0.00194
565384.25 4152184.00 0.00196
565384.25 4152194.00 0.00198
565384.25 4152204.00 0.00199
565384.25 4152214.00 0.00199
565384.25 4152224.00 0.00198
565384.25 4152234.00 0.00196
565384.25 4152244.00 0.00193
565384.25 4152254.00 0.00189
565384.25 4152264.00 0.00184
565384.25 4152274.00 0.00179
565384.25 4152284.00 0.00173
565374.25 4151984.00 0.00184
565374.25 4151994.00 0.00183
565374.25 4152004.00 0.00182
565374.25 4152014.00 0.00181
565374.25 4152024.00 0.00179
565374.25 4152034.00 0.00177
565374.25 4152044.00 0.00175
565374.25 4152054.00 0.00173
565374.25 4152064.00 0.00170
565374.25 4152074.00 0.00167
565374.25 4152084.00 0.00165
565374.25 4152094.00 0.00162
565374.25 4152104.00 0.00161

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565374.25	4152114.00	0.00160	565374.25	4152124.00	0.00161
565374.25	4152134.00	0.00162	565374.25	4152144.00	0.00164
565374.25	4152154.00	0.00167	565374.25	4152164.00	0.00170
565374.25	4152174.00	0.00173	565374.25	4152184.00	0.00176
565374.25	4152194.00	0.00178	565374.25	4152204.00	0.00180
565374.25	4152214.00	0.00181	565374.25	4152224.00	0.00181
565374.25	4152234.00	0.00180	565374.25	4152244.00	0.00178
565374.25	4152254.00	0.00176	565374.25	4152264.00	0.00172
565374.25	4152274.00	0.00168	565374.25	4152284.00	0.00163
565364.25	4151984.00	0.00164	565364.25	4151994.00	0.00163
565364.25	4152004.00	0.00163	565364.25	4152014.00	0.00162
565364.25	4152024.00	0.00160	565364.25	4152034.00	0.00158
565364.25	4152044.00	0.00157	565364.25	4152054.00	0.00155
565364.25	4152064.00	0.00152	565364.25	4152074.00	0.00150

565364.25 4152084.00 0.00148
565364.25 4152094.00 0.00146
565364.25 4152104.00 0.00145
565364.25 4152114.00 0.00144
565364.25 4152124.00 0.00144
565364.25 4152134.00 0.00145
565364.25 4152144.00 0.00147
565364.25 4152154.00 0.00149
565364.25 4152164.00 0.00152
565364.25 4152174.00 0.00155
565364.25 4152184.00 0.00158
565364.25 4152194.00 0.00160
565364.25 4152204.00 0.00162
565364.25 4152214.00 0.00164
565364.25 4152224.00 0.00165
565364.25 4152234.00 0.00165
565364.25 4152244.00 0.00164
565364.25 4152254.00 0.00163
565364.25 4152264.00 0.00160
565364.25 4152274.00 0.00156
565364.25 4152284.00 0.00153
565354.25 4151984.00 0.00147
565354.25 4151994.00 0.00147
565354.25 4152004.00 0.00146
565354.25 4152014.00 0.00145
565354.25 4152024.00 0.00144
565354.25 4152034.00 0.00143
565354.25 4152044.00 0.00141
565354.25 4152054.00 0.00139
565354.25 4152064.00 0.00137
565354.25 4152074.00 0.00135
565354.25 4152084.00 0.00134
565354.25 4152094.00 0.00132
565354.25 4152104.00 0.00131
565354.25 4152114.00 0.00130
565354.25 4152124.00 0.00130
565354.25 4152134.00 0.00131
565354.25 4152144.00 0.00132
565354.25 4152154.00 0.00134
565354.25 4152164.00 0.00136
565354.25 4152174.00 0.00139
565354.25 4152184.00 0.00142
565354.25 4152194.00 0.00145
565354.25 4152204.00 0.00147
565354.25 4152214.00 0.00149
565354.25 4152224.00 0.00150
565354.25 4152234.00 0.00151
565354.25 4152244.00 0.00151
565354.25 4152254.00 0.00151
565354.25 4152264.00 0.00150
565354.25 4152274.00 0.00147
565354.25 4152284.00 0.00145

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565344.25	4151984.00	0.00133	565344.25	4151994.00	0.00132
565344.25	4152004.00	0.00132	565344.25	4152014.00	0.00131
565344.25	4152024.00	0.00130	565344.25	4152034.00	0.00129
565344.25	4152044.00	0.00128	565344.25	4152054.00	0.00126
565344.25	4152064.00	0.00125	565344.25	4152074.00	0.00123
565344.25	4152084.00	0.00121	565344.25	4152094.00	0.00120
565344.25	4152104.00	0.00119	565344.25	4152114.00	0.00118
565344.25	4152124.00	0.00118	565344.25	4152134.00	0.00118
565344.25	4152144.00	0.00119	565344.25	4152154.00	0.00121
565344.25	4152164.00	0.00123	565344.25	4152174.00	0.00126
565344.25	4152184.00	0.00128	565344.25	4152194.00	0.00131
565344.25	4152204.00	0.00133	565344.25	4152214.00	0.00135
565344.25	4152224.00	0.00137	565344.25	4152234.00	0.00138
565344.25	4152244.00	0.00139	565344.25	4152254.00	0.00139

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         565344.25    4152264.00        0.00139
565344.25    4152274.00        0.00138
         565344.25    4152284.00        0.00136
565334.25    4151984.00        0.00120
         565334.25    4151994.00        0.00120
565334.25    4152004.00        0.00120
         565334.25    4152014.00        0.00119
565334.25    4152024.00        0.00118
         565334.25    4152034.00        0.00117
565334.25    4152044.00        0.00116
         565334.25    4152054.00        0.00115
565334.25    4152064.00        0.00113
         565334.25    4152074.00        0.00112
565334.25    4152084.00        0.00111
         565334.25    4152094.00        0.00109
565334.25    4152104.00        0.00108
         565334.25    4152114.00        0.00108
565334.25    4152124.00        0.00107
         565334.25    4152134.00        0.00108
565334.25    4152144.00        0.00109
         565334.25    4152154.00        0.00110
565334.25    4152164.00        0.00112
         565334.25    4152174.00        0.00114
565334.25    4152184.00        0.00116
         565334.25    4152194.00        0.00118
565334.25    4152204.00        0.00121
         565334.25    4152214.00        0.00123
565334.25    4152224.00        0.00125
         565334.25    4152234.00        0.00127
565334.25    4152244.00        0.00128
         565334.25    4152254.00        0.00128
565334.25    4152264.00        0.00128
         565334.25    4152274.00        0.00127
565334.25    4152284.00        0.00126
         565324.25    4151984.00        0.00109
565324.25    4151994.00        0.00109
         565324.25    4152004.00        0.00109
565324.25    4152014.00        0.00108
         565324.25    4152024.00        0.00108
565324.25    4152034.00        0.00107
         565324.25    4152044.00        0.00106
565324.25    4152054.00        0.00105
         565324.25    4152064.00        0.00104
565324.25    4152074.00        0.00102
         565324.25    4152084.00        0.00101
565324.25    4152094.00        0.00100
         565324.25    4152104.00        0.00099
565324.25    4152114.00        0.00098
         565324.25    4152124.00        0.00098
565324.25    4152134.00        0.00098
         565324.25    4152144.00        0.00099
565324.25    4152154.00        0.00100
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565324.25	4152164.00	0.00102	565324.25	4152174.00	0.00103
565324.25	4152184.00	0.00105	565324.25	4152194.00	0.00108
565324.25	4152204.00	0.00110	565324.25	4152214.00	0.00112
565324.25	4152224.00	0.00114	565324.25	4152234.00	0.00116
565324.25	4152244.00	0.00117	565324.25	4152254.00	0.00118
565324.25	4152264.00	0.00118	565324.25	4152274.00	0.00117
565324.25	4152284.00	0.00117	565314.25	4151984.00	0.00100
565314.25	4151994.00	0.00100	565314.25	4152004.00	0.00099
565314.25	4152014.00	0.00099	565314.25	4152024.00	0.00098
565314.25	4152034.00	0.00098	565314.25	4152044.00	0.00097
565314.25	4152054.00	0.00096	565314.25	4152064.00	0.00095
565314.25	4152074.00	0.00094	565314.25	4152084.00	0.00093
565314.25	4152094.00	0.00092	565314.25	4152104.00	0.00091
565314.25	4152114.00	0.00090	565314.25	4152124.00	0.00090

565314.25 4152134.00 0.00090
565314.25 4152144.00 0.00091
565314.25 4152154.00 0.00092
565314.25 4152164.00 0.00093
565314.25 4152174.00 0.00094
565314.25 4152184.00 0.00096
565314.25 4152194.00 0.00098
565314.25 4152204.00 0.00100
565314.25 4152214.00 0.00102
565314.25 4152224.00 0.00104
565314.25 4152234.00 0.00106
565314.25 4152244.00 0.00108
565314.25 4152254.00 0.00109
565314.25 4152264.00 0.00109
565314.25 4152274.00 0.00108
565314.25 4152284.00 0.00109
565304.25 4151984.00 0.00092
565304.25 4151994.00 0.00092
565304.25 4152004.00 0.00091
565304.25 4152014.00 0.00091
565304.25 4152024.00 0.00091
565304.25 4152034.00 0.00090
565304.25 4152044.00 0.00089
565304.25 4152054.00 0.00089
565304.25 4152064.00 0.00088
565304.25 4152074.00 0.00087
565304.25 4152084.00 0.00086
565304.25 4152094.00 0.00085
565304.25 4152104.00 0.00084
565304.25 4152114.00 0.00084
565304.25 4152124.00 0.00083
565304.25 4152134.00 0.00083
565304.25 4152144.00 0.00084
565304.25 4152154.00 0.00084
565304.25 4152164.00 0.00085
565304.25 4152174.00 0.00087
565304.25 4152184.00 0.00088
565304.25 4152194.00 0.00090
565304.25 4152204.00 0.00092
565304.25 4152214.00 0.00094
565304.25 4152224.00 0.00096
565304.25 4152234.00 0.00098
565304.25 4152244.00 0.00099
565304.25 4152254.00 0.00100
565304.25 4152264.00 0.00101
565304.25 4152274.00 0.00101
565304.25 4152284.00 0.00102
565294.25 4151984.00 0.00084
565294.25 4151994.00 0.00084
565294.25 4152004.00 0.00084
565294.25 4152014.00 0.00084
565294.25 4152024.00 0.00084

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565294.25	4152034.00	0.00083	565294.25	4152044.00	0.00083
565294.25	4152054.00	0.00082	565294.25	4152064.00	0.00081
565294.25	4152074.00	0.00080	565294.25	4152084.00	0.00079
565294.25	4152094.00	0.00078	565294.25	4152104.00	0.00078
565294.25	4152114.00	0.00077	565294.25	4152124.00	0.00077
565294.25	4152134.00	0.00077	565294.25	4152144.00	0.00077
565294.25	4152154.00	0.00078	565294.25	4152164.00	0.00079
565294.25	4152174.00	0.00080	565294.25	4152184.00	0.00081
565294.25	4152194.00	0.00083	565294.25	4152204.00	0.00084
565294.25	4152214.00	0.00086	565294.25	4152224.00	0.00088
565294.25	4152234.00	0.00090	565294.25	4152244.00	0.00091
565294.25	4152254.00	0.00093	565294.25	4152264.00	0.00094
565294.25	4152274.00	0.00095	565294.25	4152284.00	0.00096
565284.25	4151984.00	0.00078	565284.25	4151994.00	0.00078

565284.25 4152004.00 0.00078
565284.25 4152014.00 0.00078
565284.25 4152024.00 0.00077
565284.25 4152034.00 0.00077
565284.25 4152044.00 0.00076
565284.25 4152054.00 0.00076
565284.25 4152064.00 0.00075
565284.25 4152074.00 0.00074
565284.25 4152084.00 0.00074
565284.25 4152094.00 0.00073
565284.25 4152104.00 0.00072
565284.25 4152114.00 0.00072
565284.25 4152124.00 0.00071
565284.25 4152134.00 0.00071
565284.25 4152144.00 0.00072
565284.25 4152154.00 0.00072
565284.25 4152164.00 0.00073
565284.25 4152174.00 0.00073
565284.25 4152184.00 0.00075
565284.25 4152194.00 0.00076
565284.25 4152204.00 0.00078
565284.25 4152214.00 0.00079
565284.25 4152224.00 0.00081
565284.25 4152234.00 0.00083
565284.25 4152244.00 0.00084
565284.25 4152254.00 0.00086
565284.25 4152264.00 0.00087
565284.25 4152274.00 0.00088
565284.25 4152284.00 0.00089
565274.25 4151984.00 0.00072
565274.25 4151994.00 0.00072
565274.25 4152004.00 0.00072
565274.25 4152014.00 0.00072
565274.25 4152024.00 0.00072
565274.25 4152034.00 0.00071
565274.25 4152044.00 0.00071
565274.25 4152054.00 0.00070
565274.25 4152064.00 0.00070
565274.25 4152074.00 0.00069
565274.25 4152084.00 0.00068
565274.25 4152094.00 0.00068
565274.25 4152104.00 0.00067
565274.25 4152114.00 0.00067
565274.25 4152124.00 0.00067
565274.25 4152134.00 0.00066
565274.25 4152144.00 0.00066
565274.25 4152154.00 0.00067
565274.25 4152164.00 0.00067
565274.25 4152174.00 0.00068
565274.25 4152184.00 0.00069
565274.25 4152194.00 0.00070
565274.25 4152204.00 0.00072

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565274.25	4152214.00	0.00073	565274.25	4152224.00	0.00075
565274.25	4152234.00	0.00076	565274.25	4152244.00	0.00078
565274.25	4152254.00	0.00079	565274.25	4152264.00	0.00081
565274.25	4152274.00	0.00082	565274.25	4152284.00	0.00083
565264.25	4151984.00	0.00067	565264.25	4151994.00	0.00067
565264.25	4152004.00	0.00067	565264.25	4152014.00	0.00067
565264.25	4152024.00	0.00067	565264.25	4152034.00	0.00067
565264.25	4152044.00	0.00066	565264.25	4152054.00	0.00066
565264.25	4152064.00	0.00065	565264.25	4152074.00	0.00064
565264.25	4152084.00	0.00064	565264.25	4152094.00	0.00063
565264.25	4152104.00	0.00063	565264.25	4152114.00	0.00062
565264.25	4152124.00	0.00062	565264.25	4152134.00	0.00062
565264.25	4152144.00	0.00062	565264.25	4152154.00	0.00062
565264.25	4152164.00	0.00063	565264.25	4152174.00	0.00063

```
         565264.25    4152184.00        0.00064
565264.25    4152194.00        0.00065
         565264.25    4152204.00        0.00066
565264.25    4152214.00        0.00067
         565264.25    4152224.00        0.00069
565264.25    4152234.00        0.00071
         565264.25    4152244.00        0.00072
565264.25    4152254.00        0.00073
         565264.25    4152264.00        0.00075
565264.25    4152274.00        0.00076
         565264.25    4152284.00        0.00077
565264.25    4152367.25        0.00080
         565264.25    4152450.75        0.00070
565264.25    4152534.00        0.00055
         565358.00    4152367.25        0.00115
565358.00    4152450.75        0.00082
         565358.00    4152534.00        0.00060
565451.75    4152367.25        0.00136
         565451.75    4152450.75        0.00090
565451.75    4152534.00        0.00064
         565545.50    4152367.25        0.00136
565545.50    4152450.75        0.00087
         565545.50    4152534.00        0.00061
565639.25    4152367.25        0.00119
         565639.25    4152450.75        0.00080
565639.25    4152534.00        0.00056
         565733.00    4152367.25        0.00090
565733.00    4152450.75        0.00068
         565733.00    4152534.00        0.00052
565826.75    4152367.25        0.00063
         565826.75    4152450.75        0.00049
565826.75    4152534.00        0.00041
         565920.50    4152367.25        0.00055
565920.50    4152450.75        0.00037
         565920.50    4152534.00        0.00030
566014.25    4152367.25        0.00053
         566014.25    4152450.75        0.00034
566014.25    4152534.00        0.00025
         565847.56    4152284.00        0.00103
565847.56    4152190.25        0.00246
         565847.56    4152096.50        0.00543
565847.56    4152002.75        0.00754
         565847.56    4151909.00        0.00653
565847.56    4151815.25        0.00468
         565847.56    4151721.50        0.00308
565847.56    4151627.75        0.00203
         565847.56    4151534.00        0.00140
565930.94    4152284.00        0.00096
         565930.94    4152190.25        0.00198
565930.94    4152096.50        0.00360
         565930.94    4152002.75        0.00464
565930.94    4151909.00        0.00436
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2_ON(1 ***
INCLUDING SOURCE(S): PAREA2
,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565930.94	4151815.25	0.00358	565930.94	4151721.50	0.00270
565930.94	4151627.75	0.00194	565930.94	4151534.00	0.00138
566014.25	4152284.00	0.00089	566014.25	4152190.25	0.00159
566014.25	4152096.50	0.00252	566014.25	4152002.75	0.00314
566014.25	4151909.00	0.00307	566014.25	4151815.25	0.00272
566014.25	4151721.50	0.00226	566014.25	4151627.75	0.00177
566014.25	4151534.00	0.00134	565764.25	4151700.75	0.00298
565764.25	4151617.25	0.00202	565764.25	4151534.00	0.00145
565670.50	4151700.75	0.00325	565670.50	4151617.25	0.00214
565670.50	4151534.00	0.00151	565576.75	4151700.75	0.00337
565576.75	4151617.25	0.00217	565576.75	4151534.00	0.00151
565483.00	4151700.75	0.00275	565483.00	4151617.25	0.00190
565483.00	4151534.00	0.00138	565389.25	4151700.75	0.00157
565389.25	4151617.25	0.00128	565389.25	4151534.00	0.00103

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         565295.50    4151700.75        0.00080
565295.50    4151617.25        0.00074
         565295.50    4151534.00        0.00064
565201.75    4151700.75        0.00044
         565201.75    4151617.25        0.00043
565201.75    4151534.00        0.00040
         565108.00    4151700.75        0.00028
565108.00    4151617.25        0.00027
         565108.00    4151534.00        0.00026
565014.25    4151700.75        0.00018
         565014.25    4151617.25        0.00018
565014.25    4151534.00        0.00018
         565180.94    4151784.00        0.00040
565180.94    4151877.75        0.00039
         565180.94    4151971.50        0.00040
565180.94    4152065.25        0.00039
         565180.94    4152159.00        0.00037
565180.94    4152252.75        0.00041
         565180.94    4152346.50        0.00049
565180.94    4152440.25        0.00052
         565180.94    4152534.00        0.00048
565097.56    4151784.00        0.00025
         565097.56    4151877.75        0.00025
565097.56    4151971.50        0.00026
         565097.56    4152065.25        0.00026
565097.56    4152159.00        0.00025
         565097.56    4152252.75        0.00027
565097.56    4152346.50        0.00031
         565097.56    4152440.25        0.00036
565097.56    4152534.00        0.00037
         565014.25    4151784.00        0.00017
565014.25    4151877.75        0.00017
         565014.25    4151971.50        0.00019
565014.25    4152065.25        0.00019
         565014.25    4152159.00        0.00018
565014.25    4152252.75        0.00019
         565014.25    4152346.50        0.00021
565014.25    4152440.25        0.00024
         565014.25    4152534.00        0.00027
565502.65    4152072.47        0.01571
         565589.07    4151982.88        0.06714
565619.89    4152017.45        0.07320
         565621.62    4152031.56        0.06985
565618.45    4152045.97        0.06755
         565600.88    4152086.01        0.04826
565578.70    4152137.28        0.01327
         565504.04    4152071.95        0.01625
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** THE SUMMARY OF MAXIMUM PERIOD (43872 HRS) RESULTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

NETWORK GROUP ID		AVERAGE CONC OF TYPE	GRID-ID	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)
YR1_ALL	1ST HIGHEST VALUE IS	0.12836	AT	(565619.89, 4152017.45, 3.03, 3.03, 1.50) DC
	2ND HIGHEST VALUE IS	0.12246	AT	(565621.62, 4152031.56, 2.82, 2.82, 1.50) DC
	3RD HIGHEST VALUE IS	0.12070	AT	(565614.25, 4152004.00, 3.03, 3.03, 0.00) DC
	4TH HIGHEST VALUE IS	0.11860	AT	(565604.25, 4151994.00, 2.94, 2.94, 0.00) DC
	5TH HIGHEST VALUE IS	0.11842	AT	(565618.45, 4152045.97, 2.97, 2.97, 1.50) DC
	6TH HIGHEST VALUE IS	0.11803	AT	(565624.25, 4152014.00, 3.16, 3.16, 0.00) DC
	7TH HIGHEST VALUE IS	0.11780	AT	(565589.07, 4151982.88, 3.27, 3.27, 1.50) DC
	8TH HIGHEST VALUE IS	0.11744	AT	(565624.25, 4152004.00, 3.37, 3.37, 0.00) DC
	9TH HIGHEST VALUE IS	0.11698	AT	(565614.25, 4151994.00, 3.15, 3.15, 0.00) DC
	10TH HIGHEST VALUE IS	0.11655	AT	(565624.25, 4152024.00, 2.96, 2.96, 0.00) DC
YR1_ON	1ST HIGHEST VALUE IS	0.12824	AT	(565619.89, 4152017.45, 3.03, 3.03, 1.50) DC
	2ND HIGHEST VALUE IS	0.12237	AT	(565621.62, 4152031.56, 2.82, 2.82, 1.50) DC
	3RD HIGHEST VALUE IS	0.12057	AT	(565614.25, 4152004.00, 3.03, 3.03, 0.00) DC
	4TH HIGHEST VALUE IS	0.11845	AT	(565604.25, 4151994.00, 2.94, 2.94, 0.00) DC

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          5TH HIGHEST VALUE IS       0.11834 AT (  565618.45,
4152045.97,     2.97,     2.97,    1.50)  DC
          6TH HIGHEST VALUE IS       0.11792 AT (  565624.25,
4152014.00,     3.16,     3.16,    0.00)  DC
          7TH HIGHEST VALUE IS       0.11762 AT (  565589.07,
4151982.88,     3.27,     3.27,    1.50)  DC
          8TH HIGHEST VALUE IS       0.11731 AT (  565624.25,
4152004.00,     3.37,     3.37,    0.00)  DC
          9TH HIGHEST VALUE IS       0.11683 AT (  565614.25,
4151994.00,     3.15,     3.15,    0.00)  DC
         10TH HIGHEST VALUE IS       0.11645 AT (  565624.25,
4152024.00,     2.96,     2.96,    0.00)  DC

YR1_OFF   1ST HIGHEST VALUE IS       0.00033 AT (  565614.25,
4151924.00,     3.31,     3.31,    0.00)  DC
          2ND HIGHEST VALUE IS       0.00033 AT (  565624.25,
4151934.00,     3.21,     3.21,    0.00)  DC
          3RD HIGHEST VALUE IS       0.00033 AT (  565614.25,
4151934.00,     3.38,     3.38,    0.00)  DC
          4TH HIGHEST VALUE IS       0.00032 AT (  565604.25,
4151924.00,     3.37,     3.37,    0.00)  DC
          5TH HIGHEST VALUE IS       0.00032 AT (  565624.25,
4151924.00,     3.15,     3.15,    0.00)  DC
          6TH HIGHEST VALUE IS       0.00032 AT (  565634.25,
4151944.00,     3.16,     3.16,    0.00)  DC
          7TH HIGHEST VALUE IS       0.00031 AT (  565624.25,
4151944.00,     3.30,     3.30,    0.00)  DC
          8TH HIGHEST VALUE IS       0.00031 AT (  565634.25,
4151934.00,     3.06,     3.06,    0.00)  DC
          9TH HIGHEST VALUE IS       0.00031 AT (  565604.25,
4151914.00,     3.32,     3.32,    0.00)  DC
         10TH HIGHEST VALUE IS       0.00031 AT (  565614.25,
4151914.00,     3.25,     3.25,    0.00)  DC

YR2_ON(1  1ST HIGHEST VALUE IS       0.07320 AT (  565619.89,
4152017.45,     3.03,     3.03,    1.50)  DC
          2ND HIGHEST VALUE IS       0.06985 AT (  565621.62,
4152031.56,     2.82,     2.82,    1.50)  DC
          3RD HIGHEST VALUE IS       0.06882 AT (  565614.25,
4152004.00,     3.03,     3.03,    0.00)  DC
          4TH HIGHEST VALUE IS       0.06761 AT (  565604.25,
4151994.00,     2.94,     2.94,    0.00)  DC
          5TH HIGHEST VALUE IS       0.06755 AT (  565618.45,
4152045.97,     2.97,     2.97,    1.50)  DC
          6TH HIGHEST VALUE IS       0.06731 AT (  565624.25,
4152014.00,     3.16,     3.16,    0.00)  DC
          7TH HIGHEST VALUE IS       0.06714 AT (  565589.07,
4151982.88,     3.27,     3.27,    1.50)  DC
          8TH HIGHEST VALUE IS       0.06696 AT (  565624.25,
4152004.00,     3.37,     3.37,    0.00)  DC
          9TH HIGHEST VALUE IS       0.06669 AT (  565614.25,
4151994.00,     3.15,     3.15,    0.00)  DC
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         10TH HIGHEST VALUE IS       0.06647 AT (  565624.25,
4152024.00,     2.96,     2.96,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** Message Summary : AERMOD Model Execution ***

--------- Summary of Total Messages --------

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 20266 Informational Message(s)

A Total of 43872 Hours Were Processed

A Total of 7316 Calm Hours Identified

A Total of 12950 Missing Hours Identified (29.52 Percent)

CAUTION!: Number of Missing Hours Exceeds 10 Percent of Total!
Data May Not Be Acceptable for Regulatory Applications.
See Section 5.3.2 of "Meteorological Monitoring Guidance
for Regulatory Modeling Applications" (EPA-454/R-99-005).

******** FATAL ERROR MESSAGES ********
*** NONE ***

******** WARNING MESSAGES ********
*** NONE ***

****
*** AERMOD Finishes Successfully ***
****

405 Industrial Road Life Science Project IS/MND

Appendix C: Noise Appendix

Appendix C.1: Ambient Noise Monitoring Data
Appendix C.2: Noise Calculations for Parking Garage

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405 Industrial Road Life Science Project IS/MND

Appendix C.1: Ambient Noise Monitoring Data

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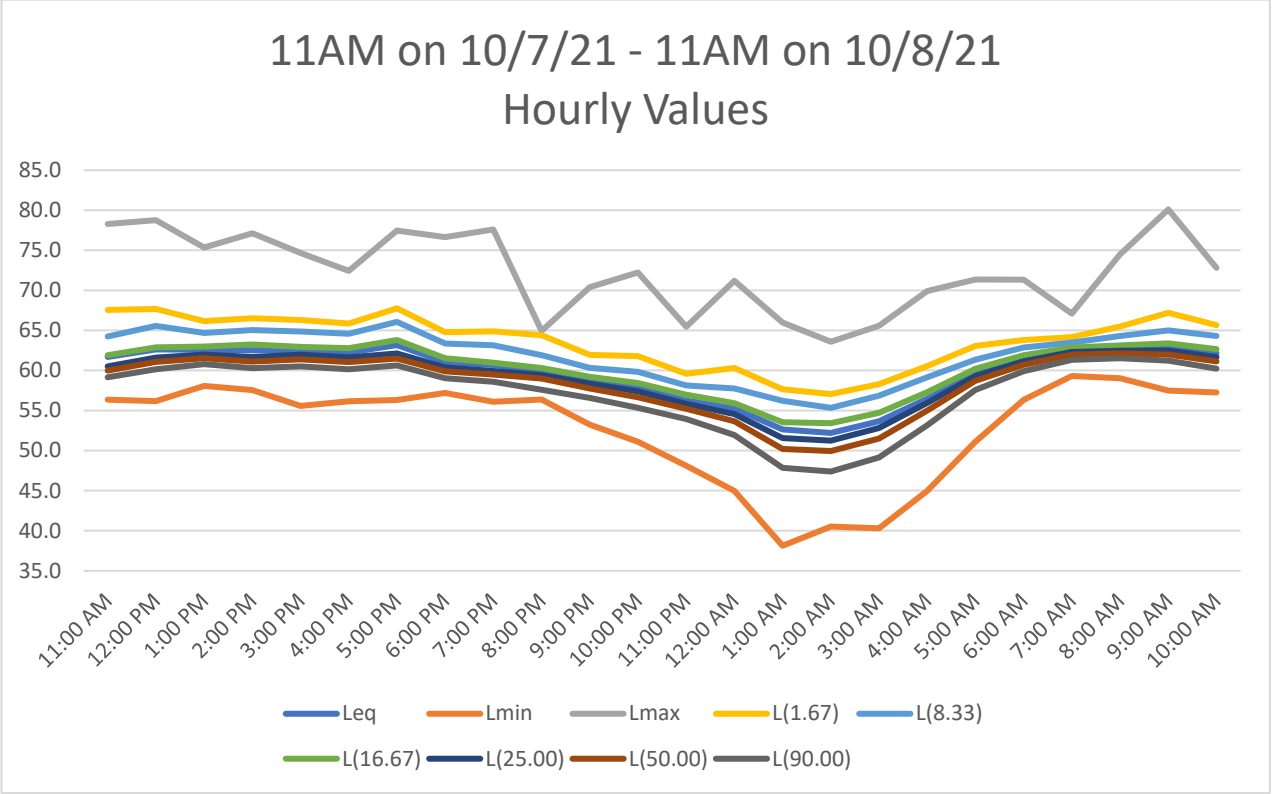
405 Industrial Road Life Science Project
City of San Carlos, CA
Appendix: Ambient Noise Monitoring Data
Prepared by MIG, February 2022

TABLE 1: SUMMARY OF SITE LT-1 NOISE MONITORING DATA												
Date	Time	Duration	Leq	DNL	Lmin	Lmax	L(1.67)	L(8.33)	L(16.67)	L(25.00)	L(50.00)	L(90.00)
10/7/2022	10:40 AM	20-min	61.8	61.8	56.6	78.5	66.7	64.1	62.2	60.9	60.3	59.4
10/7/2022	11:00 AM	1-hour	61.7	61.7	56.3	78.3	67.6	64.3	61.9	60.5	60.0	59.2
10/7/2022	12:00 PM	1-hour	62.6	62.6	56.2	78.8	67.7	65.6	62.9	61.6	61.1	60.1
10/7/2022	1:00 PM	1-hour	62.6	62.6	58.1	75.4	66.2	64.7	63.0	62.0	61.5	60.8
10/7/2022	2:00 PM	1-hour	62.5	62.5	57.6	77.1	66.5	65.0	63.2	61.7	61.1	60.3
10/7/2022	3:00 PM	1-hour	62.5	62.5	55.6	74.7	66.3	64.9	63.0	62.0	61.4	60.5
10/7/2022	4:00 PM	1-hour	62.2	62.2	56.1	72.4	65.9	64.6	62.8	61.6	61.0	60.2
10/7/2022	5:00 PM	1-hour	63.2	63.2	56.3	77.5	67.8	66.1	63.8	62.1	61.5	60.6
10/7/2022	6:00 PM	1-hour	61.0	61.0	57.2	76.6	64.8	63.4	61.5	60.4	59.9	59.0
10/7/2022	7:00 PM	1-hour	60.7	60.7	56.1	77.6	64.9	63.1	61.0	59.9	59.5	58.6
10/7/2022	8:00 PM	1-hour	59.9	59.9	56.4	64.9	64.4	61.9	60.3	59.4	59.0	57.6
10/7/2022	9:00 PM	1-hour	58.6	58.6	53.2	70.4	61.9	60.3	59.2	58.4	57.8	56.6
10/7/2022	10:00 PM	1-hour	57.8	67.8	51.1	72.2	61.8	59.8	58.4	57.4	56.7	55.3
10/7/2022	11:00 PM	1-hour	56.2	66.2	48.1	65.5	59.6	58.1	57.0	55.8	55.2	53.9
10/8/2022	12:00 AM	1-hour	55.3	65.3	45.0	71.2	60.3	57.8	55.9	54.6	53.7	51.9
10/8/2022	1:00 AM	1-hour	52.6	62.6	38.1	66.0	57.6	56.2	53.5	51.6	50.2	47.8
10/8/2022	2:00 AM	1-hour	52.2	62.2	40.5	63.6	57.1	55.3	53.4	51.3	49.9	47.4
10/8/2022	3:00 AM	1-hour	53.7	63.7	40.3	65.6	58.3	56.8	54.7	52.8	51.5	49.1
10/8/2022	4:00 AM	1-hour	56.5	66.5	45.0	69.9	60.5	59.1	57.3	55.9	55.0	53.2
10/8/2022	5:00 AM	1-hour	59.6	69.6	51.1	71.3	63.1	61.3	60.2	59.3	58.7	57.6
10/8/2022	6:00 AM	1-hour	61.4	71.4	56.3	71.3	63.8	62.9	61.9	61.1	60.7	59.9
10/8/2022	7:00 AM	1-hour	62.4	62.4	59.3	67.1	64.2	63.5	62.9	62.3	62.0	61.3
10/8/2022	8:00 AM	1-hour	62.8	62.8	59.0	74.5	65.5	64.3	63.1	62.5	62.1	61.5
10/8/2022	9:00 AM	1-hour	63.0	63.0	57.5	80.1	67.2	65.0	63.4	62.5	62.0	61.2
10/8/2022	10:00 AM	1-hour	62.2	62.2	57.3	72.8	65.7	64.3	62.7	61.7	61.1	60.2
10/8/2022	11:00 AM	10-min	61.5	61.5	57.5	68.7	64.4	63.5	62.4	60.9	60.5	59.6
Daytime (7 AM to 10 PM)			*62.0*	--	*53.2*	*80.1*	*66.0*	*64.3*	*62.5*	*61.4*	*60.9*	*60*
Evening (7 PM to 10 PM)			*59.8*	--	*53.2*	*77.6*	*63.9*	*61.9*	*60.2*	*59.3*	*58.8*	*57.7*
Nightime (10 PM to 7 AM)			*57.1*	--	*38.1*	*72.2*	*60.8*	*59.2*	*57.8*	*56.7*	*56.0*	*54.8*
DNL (11 AM to 11 AM)			--	*64.7*	--	--	--	--	--	--	--	--


11AM on 10/7/21 - 11AM on 10/8/21
Hourly Values
85.0
80.0
75.0
70.0
65.0
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55.0
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11:00 AM
12:00 PM
1:00 PM
2:00 PM
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L(1.67)
L(8.33)
L(16.67)
L(25.00)
L(50.00)
L(90.00)

405 Industrial Road Life Science Project IS/MND

Appendix C.2: Noise Calculations for Parking Garage

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2055 JUNCTION AVENUE, STE 205
SAN JOSE, CA 95131
650.327.0429
WWW.MIGCOM.COM

Memo

To: Lisa Costa Sanders, City of San Carlos

CC: N/A

From: Phil Gleason, MIG

Date: February 28, 2022

SUBJECT: 405 Industrial Road Methodology for Calculating Parking Garage Noise

This memorandum describes the methodology used to estimate noise from vehicular operations in the parking garage proposed for the life sciences project at 405 Industrial Road in San Carlos.

Background

The parking garage proposed as part of the 405 Industrial Road Life Science Project would increase noise levels in proximity of the parking garage due intermittent vehicular activities (e.g., car horns, doors slamming, cars starting, etc.). These types of noises would not differ substantially from the noise generated by vehicles on Industrial Road, Holly Street, and parking activities / vehicular operation at the existing In-N-Out fast-food restaurant immediately west of the project site.

Methodology for Estimating Parking Garage Noise

Potential noise resulting from the project's parking garage were quantified using the following equations contained in the Federal Transit Administration's (FTA) Transit Noise and Vibration Impact Assessment manual (FTA 2018).

$$\mathbf{Leq(h) = SEL_{ref} + CN - 35.6}$$

and

$$\mathbf{CN = 10 \times \log(NA/1{,}000)}$$

Where:

Leq(h) = Hourly Leq at 50 feet
SEL_{ref} = Source Reference Level at 50 feet
CN = Volume Adjustment (SEL_{ref} is based on 1,000 cars in peak activity hour)
NA = Number of Automobiles per Hour

According to the FTA, the SEL_{ref} for parking garages is 92 dBA, based on 1,000 cars per hour during peak time periods.

Noise Levels from Proposed Parking Garage

The trip generation estimated for the project by Hexagon Transportation Consultants indicates that there would be approximately 220 and 216 vehicle trips to the site during the AM and PM peak hours, respectively (Hexagon 2022). The AM and PM peak hours reflect 7:00 AM to 9:00 AM and 4:00 PM to 6:00 PM, respectively. Utilizing the equation above, it is estimated that 220

hourly trips (worst-case) would result in an average hourly sound level of 49.8 dBA Leq at a distance of 50 feet. Hourly volumes less than 220 vehicles per hour would produce lower noise levels.

REFERENCES

The following references were used to prepare this memorandum:

Hexagon Transportation Consultants (Hexagon) 2022. "405 Industrial Road (San Carlos) Trip Generation 2022.01.21.pdf" Transmitted from Rueben Rodriguez, Hexagon Transportation Consultants, to Phil Gleason, MIG, on January 21, 2022. Email. "RE: 405 Industrial Road CEQA – data request".

U.S. Federal Transit Administration (FTA) 2018. *Transit Noise and Vibration Impact Assessment Manual*. FTA Report No. 0123. Prepared by John A. Volpe National Transportation Systems Center. Washington, DC. September 2018.

#PG

405 Industrial Road Life Science Project IS/MND

Appendix D: Transportation Appendix

Appendix D.1: TDM Plan
Appendix D.2: VMT Analysis

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405 Industrial Road Life Science Project IS/MND

Appendix D.1: TDM Plan

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August 2, 2021

405 INDUSTRIAL ROAD

Transportation Demand Management Plan

TDM SPECIALISTS, INC.
A Transportation Demand Management Company

405 Industrial Road

City of San Carlos

Preliminary Transportation Demand Management Plan
(Transportation Action Plan)

CALGreen

Prepared for:

Menlo Equities

Prepared by:

TDM SPECIALISTS, INC.
A Transportation Demand Management Company

(408) 420-2411

August 2, 2021

TABLE OF CONTENTS

TDM EXECUTIVE SUMMARY

This Transportation Demand Management TDM Plan (herein known as the TDM Plan) for the site at 405 Industrial Road (Project) provides a viable and dynamic program to support a 20 percent reduction in vehicle trips. This TDM Plan is consistent with the City of San Carlos' TDM Ordinance "to meet vehicle trip generation rates that are 20 percent lower than the standard rates as established in the most recent edition of the Institute of Transportation Engineers (ITE) trip generation manual."

The TDM Plan also meets the trip reduction guidelines provided by the City/County Association of Governments (CCAG) of San Mateo County. The CCAG guidelines "…identify strategies to respond to future transportation needs, develop procedures to alleviate and control congestion, and promote countywide solutions." The mechanisms in the TDM Plan will bind both the Project and future tenants.

The TDM Plan measures are consistent with other well-performing TDM Plans and trip-reduction programs in South San Francisco, Foster City, Brisbane, Redwood City, and other San Francisco Bay Area locations.

The following outline provides a checklist of measures included in the applicant's TDM Plan for the Project. This list satisfies the San Carlos TDM Ordinance Chapter 18.25.050.A submittal requirement.

TDM INFRASTRUCTURE AND PHYSICAL MEASURES

- Infill development
- Building design
- Bicycle parking - long-term secure bike room (Class I)
- Bicycle parking - short-term racks (Class II)
- Enhanced bicycle parking
- Wayfinding
- Public bikeshare program hub - conceptual
- Fix-it bicycle repair station
- Showers and changing facilities
- Pedestrian facilities
- Carpool/vanpool parking spaces
- Clean air vehicle parking
- Electric vehicle charging facilities
- Carshare parking space
- Motorcycle and scooter parking placement
- Passenger loading area
- Employee Commuter Resource Flier
- TDM site plan

- Outdoor amenity space
- On-site café
- On-site exercise facility
- Nearby amenities and mobile delivery services
- Transportation information kiosk

TDM PROGRAMMATIC MEASURES

Applicant Commuter Program Management

- Transportation coordinator amenity
- Coordination with existing developments
- Parking management strategies
    - Technology solution
    - Reserved vanpool parking
    - Preferential carpool parking
    - Carpool parking policy
- Bike Friendly Business Recognition
- Silicon Valley Bicycle Coalition
- Best "Site" for Commuters National Recognition
- Commute information web portal

Tenant Commuter Benefits

- Bay Area Commuter Benefits Program registration
- Transit subsidies or
    - Caltrain GoPass
    - SamTrans Way2Go pass
- Vanpool subsidies
- Pre-tax transit deduction payroll option
- Pre-tax parking deduction payroll option (for parking at a transit station)
- Carpool commuter allowance
- Private internal bike fleet
- Regional bikeshare participation – conceptual
- Bicycle commuter allowance
- Funding to future shuttle – conceptual
- Telework option
- Alternative work schedule option (flextime, compressed workweek)

Commuter Service and Resources

- Employer-designated TDM contact
- Clipper START discounted pass
- Clipper Card grants up to $7,500
- Try Transit passes
- Guaranteed Ride Home program

- Scheduled mobile bicycle repair service
- Annual bike safety seminar
- Access to $350 monthly MTC vanpool subsidy
- Access to commute.org vanpool incentives
- Carpool and vanpool ride-matching services
- Carpool incentive programs
- Bicycle incentive programs
- E-bikes for everyone

Commuter Marketing and Outreach

- New employee - onboarding
- Commuter marketing: Employee transportation fairs
- Commuter marketing: Newsletter articles and emails
- Best Workplaces for Commuters
- Transportation Management Association membership

TDM PERFORMANCE MONITORING AND SURVEYING *(obligates applicant and all tenants)*

- Tenant compliance requirement
- Annual employee commute survey
- Annual driveway hose count
- Annual monitoring report
- No expiration of TDM plan or programs
- Trip generation estimate
- C/CAG trip reduction measures checklist
- Implementation plan

INTRODUCTION

This 405 Industrial Road Transportation Demand Management (TDM) Plan (herein known as the TDM Plan) meets the Project's specific needs, considering the site's logistical resources, opportunities, and constraints. The TDM Plan measures provide specific elements and actions that commit the applicant and future tenant to their implementation. Executing the TDM Plan measures will increase pedestrian, bicycle, carpool, and transit uses and achieves a 20 percent reduction in vehicle trips.

The TDM Plan is performance-based and directs the applicant and future employers (tenants) to implement programs, employee benefits and create a formal commute program. Commute program marketing, ongoing promotions, membership in a (future) San Carlos Transportation Management Association (TMA), a guaranteed emergency ride home program, and an active commute concierge will provide the synergism needed to create productive and successful applications for future Project employees. This TDM Plan contains appropriate measures and elements consistent with other very well-performing Silicon Valley, San Francisco Bay Area region, and national commute programs. Annual monitoring via employee online commuter surveys and driveway hose count surveys will provide the documentation to demonstrate the TDM programs' effectiveness.

This TDM Plan details the applicant's commitment to the City of San Carlos (City) and its designated responsibility for implementation.

The TDM Plan guides the Project to promote and encourage all alternative modes of transportation, including walking, bicycling, carpooling, vanpooling, telework, and public transit.

TDM Planning Process

The Project will include trip reduction elements and goals outlined in the City's Zoning Code, Chapter 18.25 Transportation Demand Management. Other contributing and complementary sustainable building efforts include applicable portions of the U.S. Green Building Council's (USGBC) Leadership in Energy and Environmental Design (LEED) gold-equivalent design and California's Green Building standards. A successful LEED and green development Project reduce vehicle trips, air pollution, and traffic congestion and contributes to a successful carbon footprint and greenhouse gas reductions for long-term operations.

> The U.S. Green Building Council (USGBC) encourages and accelerates global adoption of sustainable green building and development practices through the creation and implementation of universally understood and accepted tools and performance criteria (www.usgbc.org).

1.0 REGULATORY AND SUSTAINABLE ENVIRONMENTS

The TDM Plan combines services, incentives, facilities, and actions that reduce single-occupant vehicle (SOV) trips to relieve traffic congestion, parking demand, and air pollution problems. The following are goals achieved through the effective utilization of a TDM Plan with the use of TDM measures:

- *Reduce parking demand by converting SOV trips to alternative transportation (e.g., transit, carpool or vanpool, bicycling, or walking).*
- *Shift travel to less congested routes by providing traveler information systems that warn motorists about delays or alternative ways.*
- *Support other technological solutions (e.g., compressed natural gas, electric/hybrid vehicles, or other zero-emission vehicles).*
- *Eliminate or shift trips from peak periods (e.g., flexible schedules, compressed workweeks, or telecommuting).*

Successes achieved from TDM Planning will also significantly impact greenhouse gas (GHG) emission reductions while providing sustainable mobility solutions. The lasting solution combines innovative strategies with proven trip reduction methods, mobility-enhancing strategy, and energy consumption-reducing programs at a City-wide level. The results include mitigating GHG emissions and other pollutants, improved traffic flow and connectivity, reduced parking demand, and lower energy bills.

A summary of City, county, and State policy goals related to sustainability, congestion management, and GHG reduction follows below.

City of San Carlos

San Carlos General Plan[1]
As stated in the General Plan, "the City intends to address traffic congestion problems by effectively managing future commercial and residential growth…using Transportation Systems Management Strategies."

San Carlos Climate Action Plan[2]
The City's Climate Action Plan, adopted in 2009, aims to achieve "a 15-percent reduction of emission levels by 2020 and a 35-percent reduction by 2030 based on 2005 emission levels. Strategy 60 requires TDM programs and monitoring programs to track effectiveness."

[1] http://www.cityofsancarlos.org/Home/ShowDocument?id=1105
[2] https://www.cityofsancarlos.org/government/departments/city-manager-s-office-communications/responsible-environment/climate-action-plan/2009-climate-action-plan

San Carlos Zoning Ordinance[3]

- Chapter 18.25 Transportation Demand Management

Chapter 18.25 "Transportation Demand Management" of the Municipal Code outlines the TDM objectives for the City. It states that, *"All projects subject to the requirements of this chapter shall incorporate measures to meet vehicle trip generation rates that are twenty percent lower than the standard rates as established in the most recent edition of the Institute of Transportation Engineers (ITE) trip generation manual. (Ord. 1438 § 4 (Exh. A (part)), 2011))."*

San Mateo County Congestion Management Plan[4]

- "All land-use changes or new developments that require a negative declaration or an Environmental Impact Report (EIR) and if projections generate a net (subtracting existing uses that are currently active) 100 or more trips per hour at any time during the a.m. or p.m. peak hour period; must be reported to CCAG within ten days of completion of the initial study prepared under the California Environmental Quality Act (CEQA)."

LEED- Equivalent Standards

- SS Credit 4.1: Alternative Transportation: Public Transportation Access
- SS Credit 4.2: Alternative Transportation: Bicycle Storage and Changing Rooms
- SS Credit 4.3: Alternative Transportation: Low Emitting and Fuel-Efficient Vehicles
- SS Credit 4.4: Alternative Transportation: Parking Capacity

San Francisco Bay Area Commuter Benefits Program[5]

Air District Regulation 14, Rule 1, also known as the Bay Area Commuter Benefits Program, requires employers with 50 or more full-time employees to register and offer commuter benefits to their employees. The purpose of this rule is to improve air quality, reduce emissions of greenhouse gases and other air pollutants, and decrease traffic congestion in the San Francisco Bay Area by encouraging employees to commute to work by transit and different alternative commute modes.

State Regulatory Setting

The State of California has given many organizations and agencies the responsibility of creating guidelines, policies, and thresholds that meet emissions legislation. Below is a summary of laws from the Office of Planning and Research, California Air Resources Board (CARB), California Air Pollution Control Officers' Association, Council of Governments, and the Attorney General's office.

- **Executive Order S-3-05 –** directs the California Environmental Protection Agency (Cal EPA) secretary to initiate a multi-agency effort to reduce GHG emissions to the target levels.

[3] https://www.codepublishing.com/CA/SanCarlos/#!/SanCarlos18/SanCarlos1825.html#18.25
[4] www.ccag.ca.gov
[5] https://511.org/employers/commuter-benefits-program

- **Senate Bill 375 –** establishes improved land use and transportation policy supporting AB32 by providing a means for achieving the AB32 goals for cars and light trucks through land-use changes. This legislation created potentially revolutionary changes in California's regional planning processes for housing and transportation by mandating sustainable regional growth plans. These plans expect to double the GHG emission reduction targets that local governments must meet through land-use planning.

  The CEQA streamlined review process for developers is the most significant provision of the bill. Projects that meet specific criteria, including at least 50 percent residential use, high densities, and located within 1/2 a mile from a rail, ferry, or bus line with 15-minute headways or less – qualify for a CEQA review exemption.

Trip Reduction Goals

The comprehensive trip reduction measures identified in this TDM Plan are essential to maintaining the Project's trip reduction efforts. Combining these critical factors may provide the synergism to achieve a 20 percent reduction for vehicle trips.

2.0 PROJECT DESCRIPTION

The project proposes a six-story life-sciences building at the property site of 405 Industrial Road. Currently, a five-story storage facility operates at the project site.

The building will total 392,433 gross square feet and is intended for life sciences use. Garage parking will provide 366 parking spaces.

The proposal includes four levels of lab and office space over three levels of structured parking. In addition, several amenities will provide occupants with vehicle trip-reducing facilities, including outdoor terraces, an on-site café, a fitness center, bike storage and shower facilities, and more.

Below is a project Location map showing proximity to the Caltrain station and nearby amenities.

Project Location (and Radius) Map

3.0 EXISTING TRANSPORTATION FACILITIES

The Project sits west of Highway 101. There are no direct transit resources that serve the site.

The transit matrix displayed below shows five SamTrans routes and a Caltrain stop within a half-mile. The walking distance from Caltrain to the site is a ten-minute walk. A bike ride from the Caltrain station to the Project is three minutes.

Page 6 lists Local SamTrans Bus Routes (within half a mile from the Project), and page 7 shows a Walking to Transit Access Map. On page 8 is a SamTrans Local Transit Map. Attachments in the appendix show specific route maps for these local SamTrans routes.

List of Transit Resources within 0.50 Miles from the Project

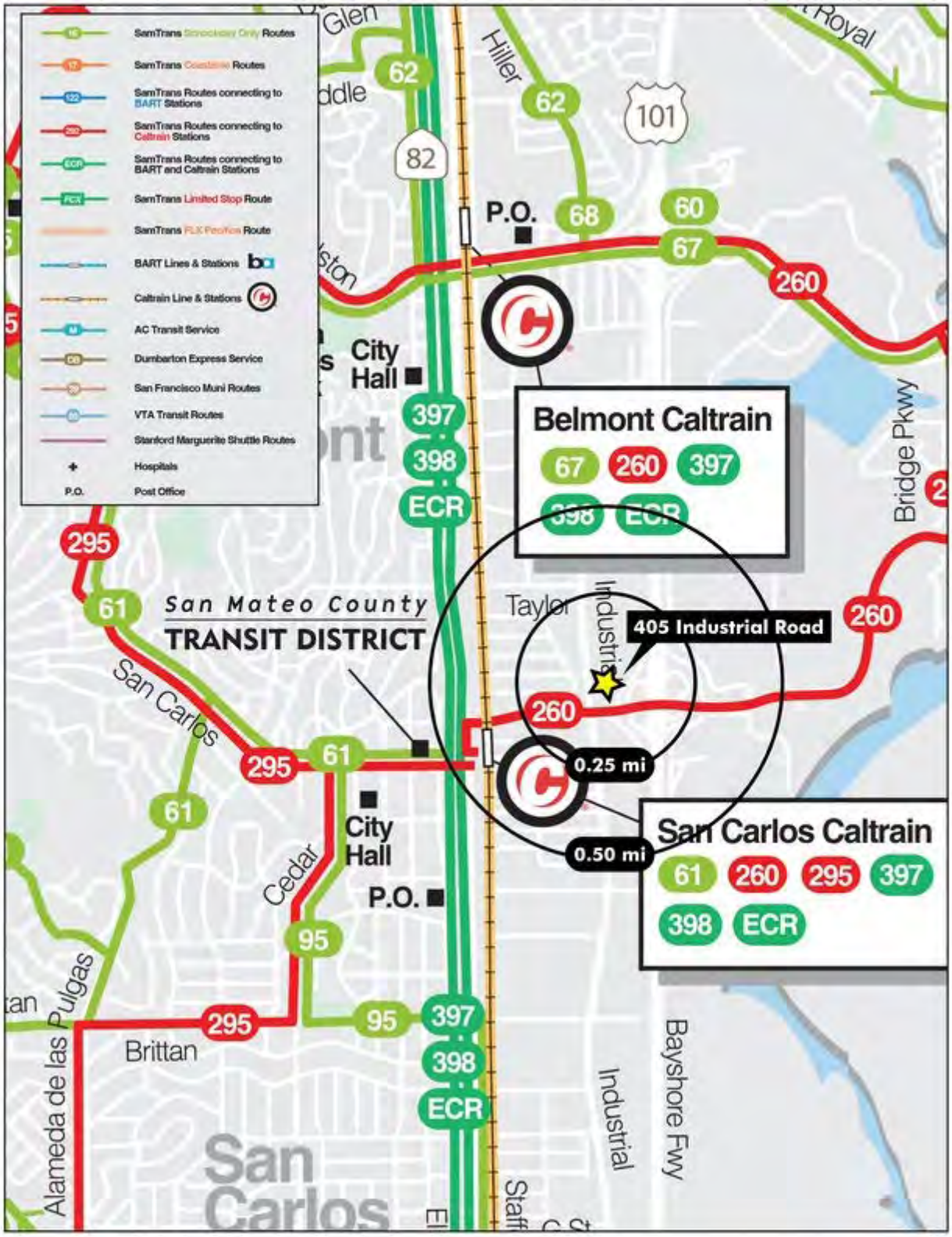
Route	Span of Service	Trips per Weekday	Communities Served
260 Samtrans	6 Days/Week 6:05 a.m. - 8:37 p.m.	28	San Carlos Caltrain, Marine/Island, Redwood Shores btwn Cringle & Bridge, Ralston/El Camino Real, Continentals/Lyall, Ralston/Alameda, and Polhemus/De Anza
295 Samtrans	5 Days/Week 7:26 a.m. - 5:40 p.m.	12	Redwood City Caltrain, Cordilleras Center, San Carlos Caltrain, Alameda/Ralston, Hillsdale/Edison, Alameda/20th, and San Mateo Caltrain
397 Samtrans	5 Days/Week 1:23 a.m. - 5:36 a.m.	7	Palo Alto Transit Center, Bay/University, Middlefield/5th, Redwood City Transit Center, San Carlos Caltrain, El Camino/Hillsdale, El Camino/Burlingame, Millbrae Transit Center, SF Airport Courtyard A, Airport/Linden, Bayshore/Old County, Mission/7th, Mission/1st, and Drumm/Clay
398 Samtrans	7 Days/Week 5:17 a.m. - 11:03 p.m.	36	Redwood City Transit Center, El Camino/San Carlos, El Camino/ Ralston, Highway 101/3rd, SF Airport Courtyard A, San Bruno BART, Mission/7th, Mission/1st, and Drumm/Clay
ECR Samtrans	7 Days/Week 4:29 a.m. - 1:27 a.m.	142	Palo Alto Transit Center, Redwood City Transit Center, El Camino/ Brittan, El Camino/San Carlos, El Camino/Hillsdale, El Camino/5th, El Camino/Linden, SFO Airport Courtyard A, San Bruno BART, El Camino/McLellan, Colma BART, Mission/Wellington, and Daly City BART
Caltrain	7 Days/Week 5:15 a.m. - 12:53 a.m.	56	San Francisco, 22nd Street, Bayshore, So. San Francisco, San Bruno, Millbrae, Burlingame, San Mateo, Hayward Park, Hillsdale, Belmont, San Carlos, Redwood City, Menlo Park, Palo Alto, California Ave, San Antonio, Mountain View, Sunnyvale, Lawrence, Santa Clara, College Park, San Jose Diridon, Tamien, Capitol, Blossom Hill, Morgan Hill, San Martin, and Gilroy
Total VTA Bus Trips/Weekday		281	

* All buses and trains are lift equipped for handicapped, elderly, or those in need.

Route 61 stops at San Carlos Caltrain but is currently suspended due to COVID-19

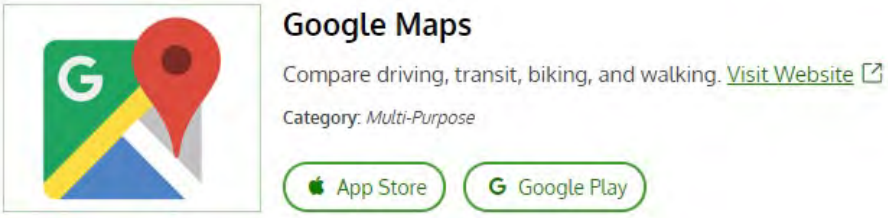
Walking Access Map

SamTrans Local Transit Map



Transit Trip Planning Resources

Online trip planning services are a helpful tool for planning bicycle, carpool, and public transit trips.

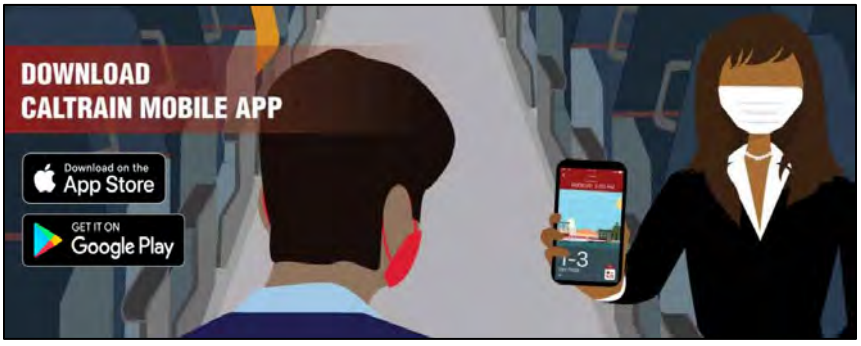


Google has also collaborated with select regional transit agencies to provide a public transit planner for riders of SamTrans, AC Transit, and BART. Employees can find free service online at www.google.com/transit.

The SamTrans mobile app is a valuable resource for commuters planning to ride on the SamTrans system. Commuters can use this app to pay bus fares, buy and activate tickets, see SamTrans departures, timetables, and routes.

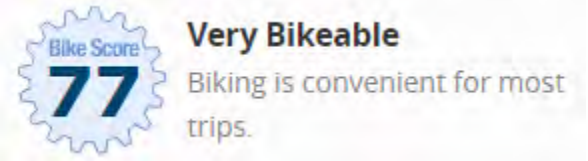
The Caltrain Mobile app offers commuters the ability to purchase and use fares instantly on their mobile phones.

For easy access to Caltrain's schedules and rider alerts, employees can download the CaltrainMe app.



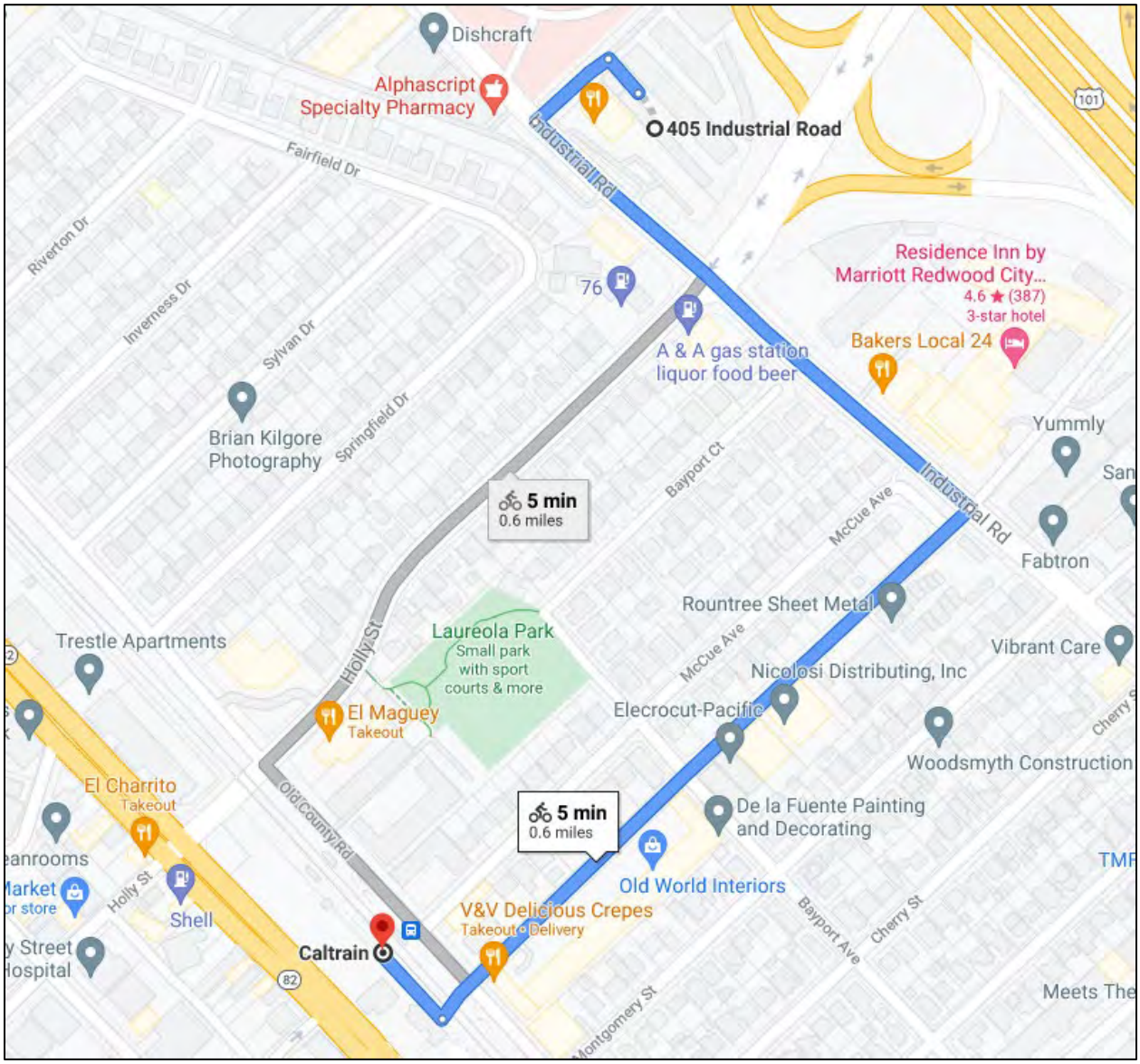
Bicycle Connections

Pedestrian and bicycle connections surround the Project. A suggested bike route along Industrial Road provides access to the Project. Industrial Road has a Class II bike lane connecting East San Carlos to offer a five-minute route from Caltrain to the Project. This local infrastructure helps the Project achieve a "Very Bikeable" score of 77.

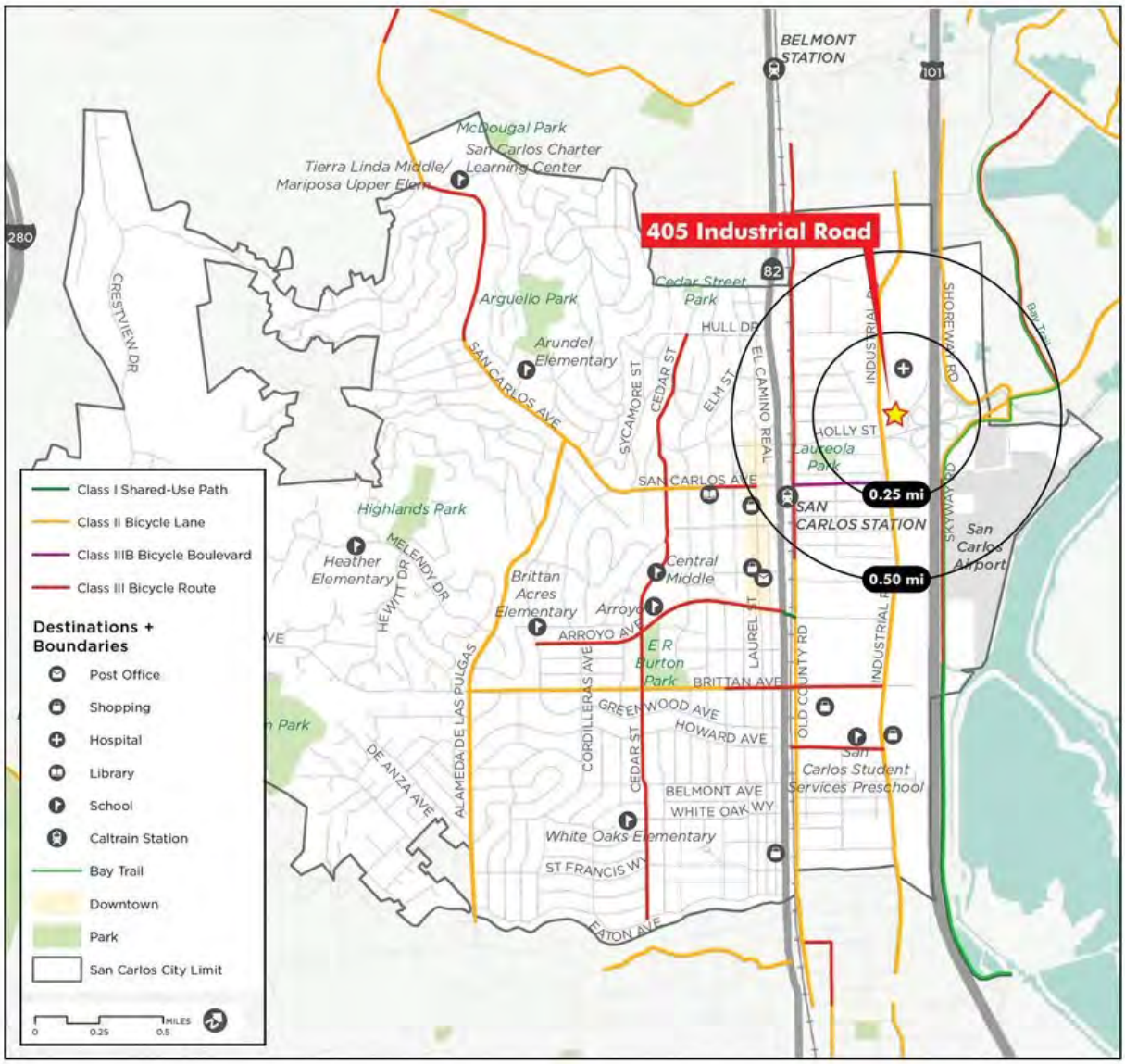


Below is a bike route map that shows the San Carlos Caltrain Station's short trip to the project site. A bike ride from the Caltrain station takes five minutes to accomplish. The San Mateo County Bicycle Map, shown on page 11, provides another view of nearby bicycle facilities.

Bicycle Route from San Carlos Caltrain Station



San Mateo County Bicycle Map



Bicycle Commuter Resources

In partnership with a nationally certified League Cycling Instructor (LCI), Commute.org offers free bicycle safety workshops for employers.

Workshops are available during lunchtime, late in the workday, or even after work.

Tenant employers will have access to this annual bicycle safety workshop for their employees.

Tenant employees who are bicycle commuters will find cycling information can log on to https://511.org/biking. The 511 system provides significant resources for bicycle commuters, including:

- Bicycle maps
- Location of bike lockers
- How to take your bike on public transit
- How to take your bike across Bay Area toll bridges
- How to ride safely in traffic
- Tips for bike selection
- Links to bicycle organizations
- Bike to Work Day
- Bike Commute Calculator
- Tips on bike commuting

TDM Planning

The following comprehensive TDM Plan addresses employee commute trips typically associated with a research and development biotech project. The TDM Plan contains appropriate measures and elements that are consistent with other Peninsula and regional commute programs.

This TDM Plan encompasses an array of alternative transportation mode-use strategies categorized in the following three sections:

I. TDM Infrastructure and Physical Measures
II. Programmatic TDM Measures
III. TDM Monitoring and Reporting

SECTION I – TDM INFRASTRUCTURE AND PHYSICAL MEASURES

The following physical infrastructure measures support commuters who use alternative transportation. These TDM Plan components will be installed or coordinated during the construction of the Project.

Infill Development

The proposed Project would develop under-used parcels within the existing urban area. As a result, the area surrounding this Project is mainly improved. Under these conditions, the Project would be considered infill development, which contributes to trip reduction outcomes. According to the City/County Association of San Mateo County governments, infill development can reduce peak-hour vehicle trips by two percent.[6]

Encourage infill development.	Two percent of all peak hour trips will be credited for each infill development.	Generally acceptable TDM practices (based on research of TDM practices around the nation and reported on the Internet).

Building Design

Building design will enhance pedestrian continuity by:

- Recessing door and window features of the building to further the walkable area of the pedestrian pathways
- Incorporating landscaped areas to serve visitors and passersby at the entry to the building
- Maintaining and improving the existing pedestrian access from Industrial Way to the building entrance
- Increasing adjacent pedestrian landscaping to create an inviting pathway
- Generously landscaping building entrance to encourage passenger drop off, bike parking, and pedestrian access to the building

[6] City/County Association of Governments (CCAG) of San Mateo County's Congestion Management Program.

4.0 BICYCLE FACILITIES

The project will provide a total of eighty-two (82) bicycle parking facilities, meeting the requirements outlined in San Carlos Municipal Code Chapter 18.20.[7] Silicon Valley Bicycle Coalition offers guidelines to assist new and existing building projects in their bicycle planning efforts. Attached at the end of the document is a matrix that displays how this Project meets the Silicon Valley Bicycle Coalition guidelines for enhancing people's ability to bike to and from the location.

Long-Term Bike Parking

The project will provide at least 41 Class I secure and covered bicycle parking facilities, representing ten percent of the total vehicle parking spaces provided. A Class I bike parking room will contain these bike parking spaces in a covered, secure location in the project garage. The caged area can expand to accommodate more bike parking for future needs. Photos of a sample bike room are shown to the right.

[7] https://www.codepublishing.com/CA/SanCarlos/html/SanCarlos18/SanCarlos1820.html

Short-Term Bike Parking

The Project will provide at least 21 short-term parking bike racks (Class II) containing parking space for 42 bikes. San Carlos Municipal Code Chapter 18.20 mandates that developments provide short-term bike parking for ten percent of the required vehicle parking spaces.

Cyclists will secure the frame and wheels of the bike to the short-term racks located near building entrances and within a visual range.

Enhanced Bicycle Parking

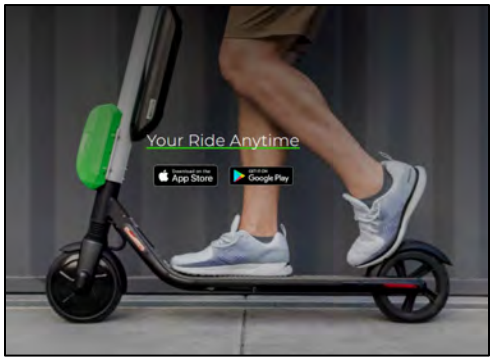
The Project will increase the number of long-term storage facilities by 100 percent of the number required by both CalGreen and the San Carlos Municipal Code. Ample bicycle facilities will encourage building occupants to use cycling as a commuter option and provide many cyclists' capacity to store their bikes throughout the workday.

Wayfinding

The Project will facilitate wayfinding for bicyclists by providing signage to help commuters navigate to bicycle lockers, changing facilities and showers, and the surrounding area's bicycle infrastructure network. Clear signage and wayfinding systems encourage bicycling by highlighting the presence of infrastructure designed to support bicyclists.

Public Bikeshare Program Hub - Conceptual

If the City establishes a public bikeshare program, the project may host a parking hub for bikes and scooters. Bikeshare and scooter programs encourage people to use bicycles and scooters as options for first- and last-mile trips while minimizing traffic and parking congestion.[8]



[8] https://www.mountainview.gov/depts/pw/transport/pilot_bike_share_program.asp

Fix-it Bicycle Repair Station

The project will install a bicycle Fix-it station to provide cyclists the opportunity to conduct minor maintenance on their bikes. The Fix-it includes all the tools necessary to perform basic repairs and maintenance, from changing a flat to adjusting brakes and derailleurs. The tools and air pump are securely attached to the stand with stainless steel cables and tamper-proof fasteners. Hanging the bike from the hanger arms allows the pedals and wheels to spin freely while adjusting.

Showers and Changing Facilities

Showers and clothes lockers support employees who walk, jog, or bicycle to work or wish to change clothes after commuting via an alternate transportation mode. The project plans to install shower and changing facilities with direct access from the bicycle storage room. Shower and changing facilities will be provided free of charge for all employees.

5.0 PEDESTRIAN FACILITIES

The creation of a pedestrian-oriented environment ensures access between public areas while strengthening pedestrian and bicycle connections. Safe, convenient pedestrian connections are provided to the external street. Lighting, landscaping, and building orientation enhance pedestrian safety.

The project proposes a pedestrian access path from the southwest side of the property to the intersection at Holly Street and Industrial Road. This path would facilitate pedestrian access to surrounding nearby amenities and create a more walkable environment for commuters. Shown below is a rendering of the proposed pathway.

6.0 PARKING FACILITIES

The Project will be responsible for striping parking space pavement and providing appropriate signage for preferential carpool, vanpool, electric, and fuel-efficient parking throughout the site. The 405 Industrial Road Project accommodates parking for 422 vehicles total.

Carpool/Vanpool Parking

The project plans to dedicate ten percent of total parking stalls to carpool and vanpool spaces, resulting in 41 carpool parking spaces for rideshare parking. Ridesharing employees will have exclusive use of these spaces. The carpool and vanpool spaces will be closest to a building entrance or a prime location in the garage.

The carpool parking spaces may require policy development, employee registration, and permitting. Registered vanpools may receive a specially designated parking space.

Clean Air, Clean-Fuel Vehicle Parking

The project will also include clean-air parking spaces. The project will be responsible for construction, striping, and signage for the specialty parking space. A description of the designated parking space includes:

- There will be 72 clean-air vehicle parking spaces. The clean-air vehicle parking space will also accommodate carpool and vanpool striping and signage.
- Space will be in the parking areas closest to the building's employee entrances or prime locations in the garage.

In total, 20 percent of total parking is clean-air, electric, and carpool/vanpool parking. The designated parking spaces satisfy CalGreen standards, as well as City Municipal Code.

Electric/Plug-in Charging Facilities

The project anticipates dedicating 10 percent of total parking stalls for electric vehicle parking, resulting in 41 electric vehicle (EV) spaces. The applicant will pay for installing the EV charging stations and help coordinate with EV station operators the billing of EV users directly for charging electric utility costs.

Note: Electric vehicles are not a TDM measure and do not reduce vehicle trips. Electric cars tend to induce and generate drive-alone commuter trips.

Carshare Parking Space

The project will identify a parking space in a prominent location to designate a reserved carshare parking space. Vendors such as Zipcar may host an on-site vehicle here, allowing tenants access to a carshare vehicle.

Motorcycle and Scooter Parking Placement

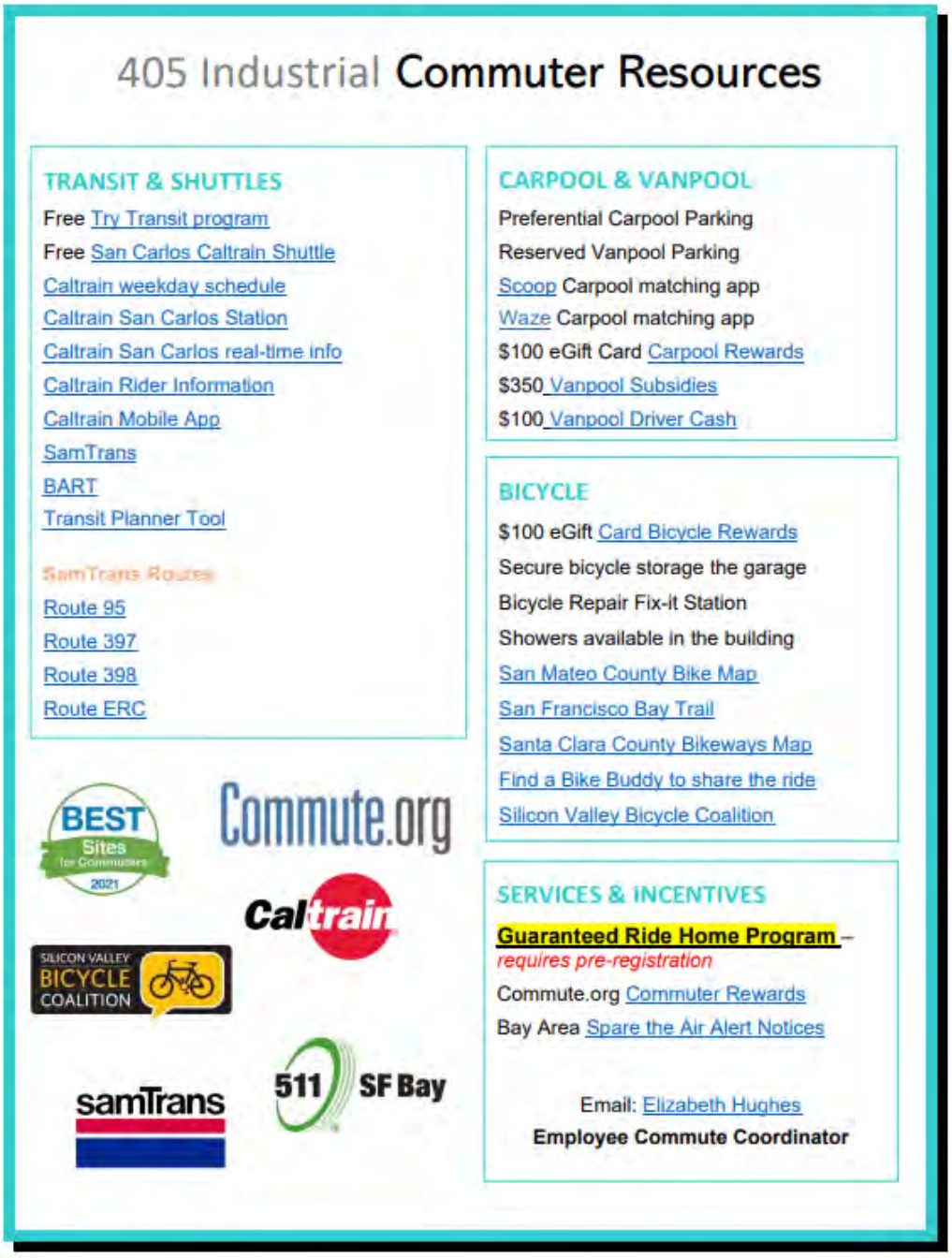
Providing designated, covered motorcycle and electric scooter parking will encourage the use of congestion-reducing vehicles. Promoting electric motorcycles and scooters enhances clean-fuel benefits and contribution to reducing vehicle congestion and parking demand. One percent of total parking may accommodate designated parking for motorcycles.

Passenger Loading Area

A loading/unloading zone will facilitate disembarking and embarking guests and rideshare passengers. Near the entry lobby, the passenger loading zone provides easy access for visitors, guests, shuttle riders, and staff. The Project provides a passenger loading zone and provides the appropriate signage for this facility.

7.0 EMPLOYEE COMMUTER RESOURCE FLIER

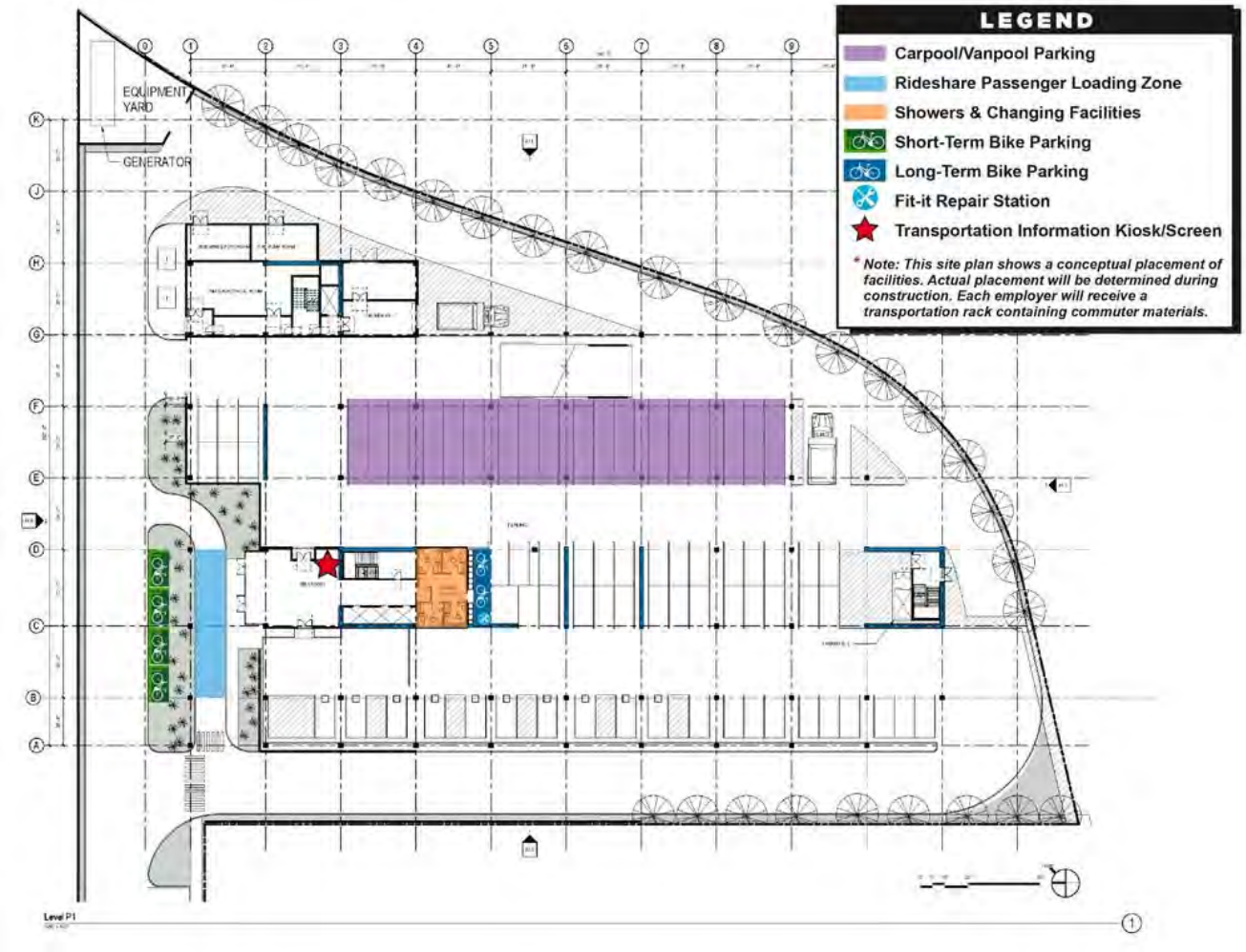
All future tenants will receive a reproducible and editable employee commuter flier. This flier will include (but is not limited to) information about carpool parking, transit opportunities, shuttles, bicycle routes, and on-site amenities and resources. The flier will promote commuter assistance, incentives, and rewards with links to helpful resources. Fliers will integrate with tenant/employer commuter benefits information. Shown below is a sample flier.



8.0 TDM SITE PLAN

The following TDM site plan shows the trip reduction design elements for the Project including carpool and vanpool parking, short and long-term bicycle parking, a bicycle repair station, a transportation information kiosk board, showers and changing facilities, and a rideshare passenger loading zone.

405 industrial Road – TDM Site Plan



9.0 ON-SITE AND NEARBY AMENITIES

Outdoor Amenity Space

The project includes several outdoor terraces that will act as an open space for eating and gathering. Providing a pleasant, on-site setting to take breaks and eat meals reduces employees' need to use a car throughout the workday.

On-Site Café

The project proposes adding an on-site café to serve food throughout the day. On-site cafes will enable employees to buy lunch without leaving the worksite and taking another vehicle trip. The café will connect to outdoor terraces and provide an appealing dining option for employees.

On-Site Exercise Facility

Per San Carlos Municipal Code, 18.25.040, the Project will include an on-site exercise facility for employees. This TDM measure enables commuters to leave the car at home by avoiding making an extra trip to the gym before or after the workday.

Nearby Amenities and Mobile Delivery Services

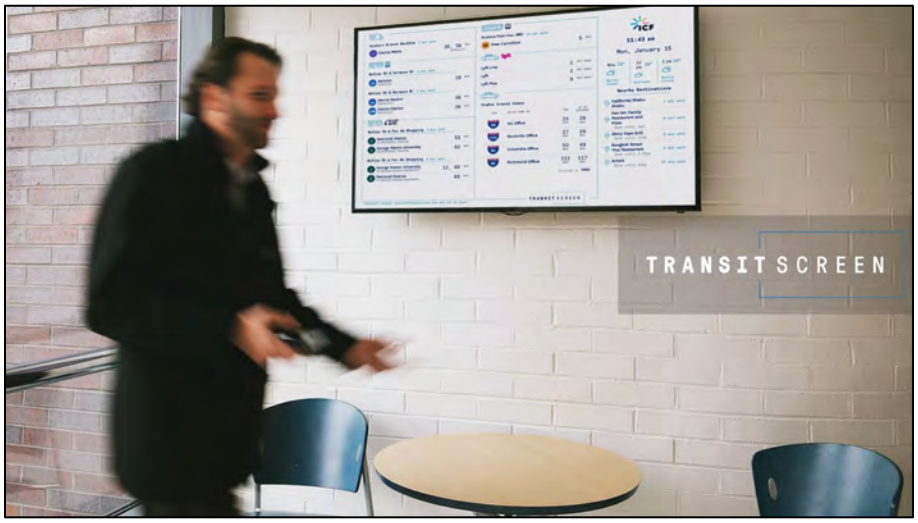
This Project has several delivery services and amenities nearby. Included in an attachment is a document containing over ten food, grocery, and personal services within walking proximity of 405 Industrial Road. Mobile services may consist of lunchtime food trucks, mobile haircut services, etc.

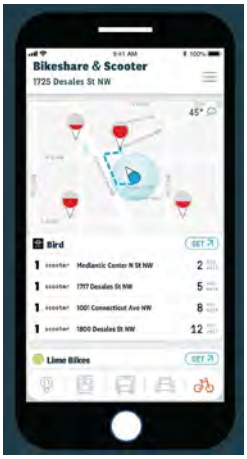
10.0 TRANSPORTATION AND COMMUTE INFORMATION KIOSK

The project will provide a transportation information kiosk in the building lobby. Easily accessible transportation information will be an essential component of commuter outreach and education for employees.

A transportation kiosk can be electronic, mobile, or a physical board containing bike maps, transit schedules, and carpool fliers. A physical unit can be wall-mounted or a floor-standing model.

Shown at the right is the mobile app version of an electronic TransitScreen. A TransitScreen app may better assist employees with their commuter planning needs.





SECTION II – PROGRAMMATIC TDM MEASURES

The following programmatic measures enhance the success of the TDM Plan. Upon implementation, they create the "405 Industrial Road Commute Program." Representing the Commute Program's various promotions and outreach activities, these measures are TDM components required of tenants and employers as part of their occupancy agreements. Implementation efforts represent the backbone of a successful commuter program.

11.0 APPLICANT COMMUTER PROGRAM MANAGEMENT

Property Management Transportation Coordinator Amenity

The Project will designate an on-site transportation coordinator responsible for implementing this TDM Plan and providing professional support to the project's tenant(s). The transportation coordinator will help plan programs and communications for the tenant before occupying the site as a building amenity. Pre-move engagement will assist employees with customized trip planning, registration for transit subsidies and commuter allowances, and program policies. The transportation coordinator will become a constant resource for tenants and their employees and remain a feature of the Project to meet the 20 percent reduction of vehicle trips.

The transportation coordinator will provide employer training, trip reduction and program information to employees, commuter program start-up assistance, and TDM Planning assistance, and arrange for annual monitoring and employee survey reporting through independent consultants. This support function's overarching goals are to reduce commute trips for employees, formalize tenant commute programs, and assist with employee marketing and outreach. The transportation coordinator will help property management prepare tenant materials for new employee orientation, production of kick-off events, coordination of carpool parties, commute e-news articles, employee assistance, and coordination of the annual transportation fair.

Coordination of Trip Reduction Programs with Existing Developments

The project's transportation coordinator will coordinate with nearby developments and employers to identify leverage or co-op commuter resources opportunities. For example, employees from nearby office sites may have similar schedules as employees of the Project. The transportation coordinator will investigate carpool matching options between the tenants and facilitate carpool candidates' introductions. Another example may be available seats on a vanpool established for project employees and invited to participate in the vanpool.

Parking Management: Technology Solution

The project may track and invest in a parking management solution such as Luum technologies or OneCommute to administer parking programs involving reservations, incentives, and performance tracking.

Parking Management Strategies: Reserved Vanpool Parking

The project will stripe and sign a limited number of reserved parking spaces for commuter vanpools. Commuter vanpool parking spaces will only be made available to employees from the building who vanpool as their commute option.

Parking Management Strategies: Preferential Carpool Parking

The project will stripe and sign a limited number of carpool parking spaces for commuter carpools.

Carpools must contain two or more participants who work at the building. A registration process, if implemented, will provide carpoolers with a special carpool parking permit.

Parking Management Strategies: Carpool Parking Policy

The use of carpool parking spaces may require policy development, employee registration, and permitting. Below is a sample carpool policy document the Project will use as a template if necessary.

Carpool Parking Policy

The Project encourages carpooling to promote healthy commute alternatives, improve air quality, and reduce parking demand.

To receive reserved carpool parking, you must arrive with at least one co-worker. To obtain a reserved carpool parking space, complete the following steps:

1. Identify your carpool partner(s) using one registration form. Download the carpool registration form on the Commuter portal.

2. Registration identifies your commute status and gives you access to the FREE guaranteed ride home (GRH) program and other benefits.

   - Registration is an annual process and will be audited each year.
   - Notify **commute@405-industrial.com** when there are any changes in your carpool group. For example, a carpool partner leaves the group or the company, or a new carpool partner joins the group.

3. Obtain your manager's signature on the registration form.

If you need additional assistance, please contact the Commute Coordinator at **commute@405-industrial.com.**

Email the completed carpool registration form to **commute@405-industrial.com** for review and processing.

4. Once approved, each carpool group will receive from the Commute Coordinator, a parking permit and will be eligible to use any specially marked carpool parking spaces in the garage.

   - Carpool parking spaces are striped, signed and may be numbered.
   - One carpool parking permit will be provided for each carpool group. Carpoolers must share the parking permit and hand the permit in the vehicle upon parking at the campus.
   - If you lose your carpool partner, notify the Commute Coordinator and return your parking permit to a receptionist.

5. Carpool parking spaces unused after 1:00 pm will be open to the general population.

6. Carpoolers who do not participate in the annual Campus Commute Survey and verify their carpool activities will be removed from the carpool program for non-compliance.

Bike Friendly Business Recognition

The project may seek a Bicycle Friendly Business award. Bikes are beneficial for businesses, employees, and residents. The Bicycle Friendly Business program recognizes projects to encourage a more welcoming atmosphere for bicycling residents, customers, and the community.

Silicon Valley Bicycle Coalition

405 Industrial will integrate Bicycle Friendly Development Guidelines provided by the Silicon Valley Bicycle Coalition (SVBC). The guidelines identify bicycle planning efforts while also setting a standard for what a Bicycle Friendly Development means.

The project is planning to enhance commuters' abilities to bike to work. The project will educate commuters about the bicycle-friendly amenities within and surrounding the project. The guiding principle asks, "is the development going to enhance people's ability to bike?" Attached at the end of the document is a summary of the project's bicycle features that meet SVBC's guiding principles. 405 Industrial plans to implement 20 bicycle features identified in the SVBC development guide.

Best "Site" for Commuters National Recognition

The project will seek a Best "SITES" for Commuters (BWC) certification. The Best Workplaces for Commuters program provides qualified sites with national recognition and an elite title for offering outstanding commuter benefits. Residential locations, employers, and developments that meet the National Standard of Excellence in commuter benefits can get on the list of Best Workplaces for Commuters. As a development site, 405 Industrial Road will be eligible for a national Best "SITE" for Commuters designation.

Commute Information Web Portal/Intranet

The property management will establish comprehensive transportation and commute information website for employees. The portal will contain transportation information, resources, and links, including promotions, incentives, Bay Area Spare the Air notices, guaranteed ride home information, transit schedules, 511 ride-matching, and other related information.

12.0 TENANT COMMUTER EMPLOYEE BENEFITS

Bay Area Commuter Benefits Program

Tenant employers will be connected to the Bay Area Commuter Benefits Program as required by state law. Tenants with 50 or more employees are required to register with the Bay Area Commuter Benefits Program.

Air District Regulation 14, Rule 1, also known as the Bay Area Commuter Benefits Program, requires employers with 50 or more full-time employees to register and offer commuter benefits to their employees. Benefits may take the form of pre-tax options, transit subsidies, telework, or more. The purpose of this rule is to improve air quality, reduce emissions of greenhouse gases and other air pollutants, and decrease traffic congestion in the San Francisco Bay Area by encouraging employees to commute to work by transit, bike, carpool, or different commute modes including use of tele/remote work.

Transit Subsidies

The applicant will encourage tenants to offer all employees a transit subsidy or a transit pass for commuting to the project site. A transit subsidy program may include participation in the Caltrain GoPass or SamTrans Way2Go program or a comparable transit subsidy or commute allowance program.

To be successful, the future tenant will need the flexibility to choose the type and amount of transit subsidy and incorporate benefit programs that best suit their employees' needs. Subsidies should be equivalent to the cost of a three-zone Caltrain monthly pass. Employer(s) may provide subsidies in tandem with the pre-tax payroll deduction program.

Caltrain GoPass:
The Caltrain Go Pass program allows companies to purchase annual unlimited-ride passes for all eligible employees. A Go Pass sticker affixes to an approved identification badge, and the user presents it on the train as proof of payment. The Go Pass is valid for travel on Caltrain between all zones, seven days a week, for one low annual cost per user.[9]

[9] http://www.caltrain.com/Fares/tickettypes/GO_Pass.html

SamTrans Way2Go:
The SamTrans Way2Go program allows companies to purchase annual unlimited-ride passes for all eligible employees. Customers simply swipe their Way2Go Pass through the farebox when boarding SamTrans. The Way2Go Pass is valid on all SamTran's fixed-route services. The Way2Go Pass is valid for a calendar year and expires on December 31 each year.[10]

Vanpool Subsidies

The applicant will encourage tenants to offer vanpool subsidies equivalent to the amount provided to transit riders. Employees can form vanpools through a vendor such as *Commute with Enterprise* and utilize a subsidy to cover gas, parking, and more. Vanpool subsidies may also be provided in tandem with pre-tax payroll deductions. Combining vanpool subsidies with existing subsidies through Commute.org and MTC 511 can significantly lower the vanpool cost for commuters.

Pre-tax Transit Payroll Deduction

The office tenant(s) will offer a transit and vanpool pre-tax payroll deduction option as a way for employers to provide transit and vanpool expenses on a tax-free basis. The monthly cap for the transit and vanpool benefits is now $270/month as of 2020. The transit and vanpool pre-tax benefit are a valuable and easy tool for employers to provide their employees.

Employees elect to withhold funding from their paycheck to use to purchase fare media for transit or vanpools. The employee received the payroll amount withheld untaxed, and the employer does not pay employment taxes on those funds. The transit and vanpool pre-tax benefit help reduce congestion, increase transit ridership, and improve air quality.

Pre-tax Parking Payroll Deduction – Optional

The office tenant(s) will offer a parking pre-tax payroll deduction option as a way for employers to provide parking expenses on a tax-free basis. The monthly cap for the parking benefits is now at $270/month as of 2021.

Employees elect to withhold funding from their paycheck to purchase payment media for parking expenses incurred at transit stations. The employee's amount withheld is untaxed, and the employer does not pay employment taxes on those funds.

[10] http://www.samtrans.com/fares/faretypes/Way2Go_Program.html

Carpool Commuter Allowance

The applicant will encourage tenants to partner with a carpool matching technology company such as Scoop or Waze and provide carpool allowances. Employees will receive a monetary incentive by signing up with their work email addresses to drive or ride in carpools through Scoop.

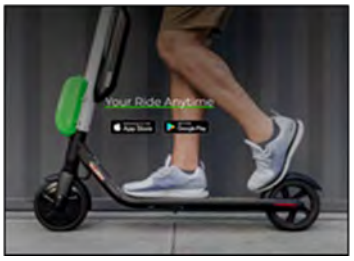
- Drivers will receive a small cash reward for each carpooling trip they take to work.
- Riders will receive a partial or complete subsidy on rides requested to or from work.

The Scoop carpool partnership program provides carpool riders who do not match for a ride home with a Lyft credit from Scoop. Ridesharers may leverage these subsidies in conjunction with existing incentives from Commute.org and 511.org

Private Internal Bike Fleet

The applicant will encourage tenants to operate an internal bikeshare program to loan bicycles to employees for weekday commuting. A small bicycle fleet may contain electric bicycles and enable commuters to try out a bike commute without purchasing a bike.

Regional Bikeshare Participation – Conceptual



If the City establishes a public bikeshare program, the applicant will encourage tenants to promote and offer discounted rides for bicycles and scooters to employees. Bikeshare and scooter programs encourage people to use bikes and scooters as options for first- and last-mile trips while minimizing traffic and parking congestion.

Bicycle Commuter Allowance

Like carpool commuter allowances, the Commuter Concierge will encourage the tenant(s) to provide employees with a reimbursable allowance for bicycle gear purchases. Bicycle maintenance and upkeep can be costly when used to commute every day. A bicycle allowance will help commuters cover the costs of some of this maintenance.

Funding Contribution for Future Shuttle – Conceptual

Commute.org operates several shuttles in San Mateo County that specifically serve transit and significant employer sights. Typically, these shuttles receive funding through partnerships with employers and developments along the route. If this becomes a future possibility, the project and tenant will consider contributing funding towards a shuttle program through Commute.org if a

shuttle stop can be provided at the project site. Such a shuttle program would provide a critical option for a last-mile solution from local transit centers to the project site.

Telework/Remote Work

The tenant(s) will allow their employees to work remotely when viable. Telework infrastructure and equipment ensure that teleworkers enjoy fast, smooth data transmission between their workplace and telework office. Telework options reduce or eliminate the need for commute travel to the office.

Alternative Work Schedule – Flextime, Compressed Workweek

The office tenant(s) may offer their employees the option to use an alternative work schedule. An alternative work schedule may include a compressed workweek (e.g., four-day week) option or flextime (e.g., adjusting work hours to fit arrival and departure times).

A compressed workweek lets employees work longer hours but shorter weeks. The shortened workweek and shifted hours may help employees avoid rush-hour traffic and reduce commute days. Employees also have an additional day for leisure activities, personal business, and family time.

Typical compressed work options include a 9/8/80 workweek and a 4/10 schedule. A 9/8/80 work schedule is eight, nine-hour workdays (72 hours) plus one eight-hour day, totaling 80 hours over two weeks. This program allows employees to have one day off every two weeks. A 4/10 schedule enables the employee to work four 10-hour days per week. Employees typically are divided into two groups: one group works Monday through Thursday; the other group works Tuesday through Friday.

Flextime provides versatility, enables employees to use rideshare options conveniently, and avoids traffic congestion and transit crowding. It is also an attractive employee recruitment tool that allows employees to work around childcare or school schedules. To maximize alternative mode use, the Project tenant(s) will prefer alternative work schedules to employees who use an alternative transportation mode.

13.0 TENANT COMMUTER SERVICE & RESOURCES

Tenant(s) may coordinate with Commute.org to develop employee commute programs and services. As written in the lease agreement, the tenant will provide a designated TDM contact, participate in the emergency ride home program (ERH), and engage in the annual commuter survey.

Designated TDM Contact/Employee Commute Coordinator

The tenant will identify a designated TDM contact to implement the TDM programs described in this plan. The specified employer contact will maintain commuter information, marketing,

and outreach and help administer the annual employee commuter surveys. The employer contact may be the employee transportation coordinator (ETC), whose role will be to manage and monitor the alternative commute program. The ETC's primary responsibility will be implementing many of the programs and features described in the TDM Plan. The ETC will be responsible for providing ongoing commute assistance to employees, producing on-site transportation fairs and promotional events, collaborating with Commute.org and 511 to maximize rideshare resources, conducting the annual survey, and creating the yearly commute report.

The ETC will provide the following services:

- Promote trip reduction and air quality strategies to employees at the Project site;
- Maintain membership in the TMA and promote the emergency ride home program to employees;
- Be the main point of contact for tenant/employer and employees who wish to commute using an alternative transportation mode;
- Work with local agencies such as Caltrain, SamTrans, BART, Ferry, Commute.org, 511 Rideshare, Silicon Valley Bicycle Coalition, and the Bay Area Air Quality Management District (BAAQMD);
- Post informational materials on the company Commuter Webpage, transportation kiosks and disperse alternative program information to employees via designated employer contacts, posters, flyers, banners, e-newsletters, new employee orientation, etcetera;
- Participate in the BAAQMD Spare the Air program to encourage employees not to drive to work alone;
- Provide timely transit alerts to riders of BART, SamTrans, Ferry, and Caltrain;
- Coordinate various aspects of the program that require periodic updating or monitoring, such as the guaranteed GRH program, car and vanpool registration, parking enforcement, and locker assignment and enforcement; and,
- Develop and manage the company transportation and commute information webpage. The webpage will contain transportation information, resources, links, promotions, incentives, prizes or awards, spare the air notices, transit links, 511 ride-matching, and other related information.

Alternative transportation programs will be presented to commuters proactively, just like any other employee program, such as participating in and supporting employee orientation forums or transportation fairs, transportation kiosk posting, employee newsletters, management bulletins, emails, etc.

An employee commute program is a big-picture process that explains the area's air quality problems and describes how fighting air pollution is part of being a good corporate citizen. The employees must recognize the benefits on a personal and community level to see how they gain better air quality: less traffic congestion on the highways and the surrounding neighborhoods, fewer parking hassles, and cost savings for employees, among other benefits. The ETC will work to build employee participation in the commute programs.

Clipper START Discounted Pass

The Metropolitan Transportation Commission (MTC) initiated a new means-based fare discount program for eligible low-income adults. Clipper START discounts range between 20 and 50 percent, depending on the transit agency. The ETC will promote this program to employees. More information is available at https://www.clipperstartcard.com/s/.

Clipper Card Grants Up to $7,500

The Bay Area Air Quality Management District offers income-qualified Bay Area residents a grant to retire their older car and replace it with an electric bicycle or Clipper Card for public transit containing $7,500. The vehicle must be 15 years or older to qualify, and income limitations determine the grant amount. Bay Area residents must complete an application to verify eligibility.

More information is available on the Air District's Clean Cars for All webpage. The ETC will promote this program to employees.

Try Transit Passes

The ETC will promote Commute.org's Try Transit Passes for employees considering switching to transit use. Drive-alone commuters can apply for free tickets on a transit mode that is practical for their commute. Helping incentivize commuters to start a different commute mode is critical to shifting behavior from driving alone.

Guaranteed Ride Home Program

The My.Commute.org STAR program offers employees access to use the free guaranteed ride home (GRH) program. Employees who enroll in the program (who do not drive alone to work) will receive a reimbursement for the cost of an Uber or Lyft ride home. The GRH trip reimbursement provides up to $60 per ride (for a maximum of four trips per eligible commuter per year).

The GRH program is incorporated in the Commute.org STAR Platform and requires users to be registered in advance to participate in the program.

WHO IS ELIGIBLE FOR A GRH REIMBURSEMENT?

- Must be 18 years or older
- Must work or go to a participating college in San Mateo County
- Used an alternative to driving alone to get to work or college on day GRH is needed
- Must have a STAR account and log trip to work or college on my.commute.org

WHAT TYPES OF EMERGENCIES ARE ELIGIBLE FOR A QUALIFIED GRH TRIP?

- Personal or family illness or emergency
- Home emergency
- Eldercare or daycare emergency
- Bicycle theft or breakdown
- Unforeseen change of work schedule
- Inclement weather (for walkers/bicyclists)
- Carpool partner emergency resulted in loss of ride home

WHAT TYPES OF TRIPS OR REASONS ARE NOT COVERED?

- Transit delays
- Natural disasters
- Personal errands or appointments
- Ride to work
- Using a ride-hailing app (e.g. Uber or Lyft) to work or college is not a qualifying alternative commute mode
- Carpool app provider cannot find a match to get the commuter home
- Non-emergency side trips
- Business related travel
- Transportation to a doctor or hospital resulting from an on-the-job injury (GRH cannot be used to replace an employer's legal responsibility under workers' compensation regulations.)

HOW WILL I GET HOME?

GRH program participants decide how to get home (e.g. taxi, ride-hailing app, transit, or combination).

GUARANTEED RIDE HOME
COMMUTE.ORG

HOW DO [illegible] EMENT?

STAR users can redeem a GRH reimbursement request via the incentives area in their STAR account. Participants must complete questionnaire provided in reimbursement request and provide GRH trip receipt(s) to receive reimbursement.

Reimbursement requests must be submitted within 30 days of GRH trip.

Visit Commute.org and click on the Guaranteed Ride Home button for program rules and limitations.

Scheduled Mobile Bicycle Repair Service

The tenant's ETC may coordinate periodic mobile repair services for its bike commuters. Mobile repair and services companies (e.g., Velofix, Beeline Bikes) will travel to the Project site and provide on-site repair and maintenance services for cyclists.

Annual Bike Safety Seminar

The tenant(s) will coordinate with Commute.org to host an annual bicycle safety presentation. Commute.org, in partnership with a nationally certified League Cycling Instructor (LCI), offers free bicycle safety workshops. The workshop covers practical and safety information, including:

- Planning your route, including connections to rail and water transit stations
- Equipping yourself and your bike
- Ways to communicate with other road users safely and confidently
- Using Google Maps to explore route options
- Other resources include the San Mateo County's bikeways and safe cycling booklet

Access to MTC $350 Monthly Vanpool Subsidy

The tenant(s) will inform their employees about the $350 monthly vanpool subsidy available from 511.org and the Metropolitan Transportation Commission (MTC). The Bay Area 511 Vanpool Program partnered with Commute With Enterprise to provide an all-inclusive option to make vanpooling easy. A Commute With Enterprise vanpool comes with a newer model, low-mileage van, or SUV, with roadside assistance and maintenance included.

Commute.org Vanpool Subsidy

San Mateo County $100 New Vanpool Participant Rebates – Commuters who live or drive through San Mateo County can participate in the vanpool incentive program. Commute.org will reward vanpool commuters with up $100 when they log their vanpool trips on the commute.org STAR portal as an incentive for vanpooling. The tenant ETC will promote this subsidy to employees

Carpool and Vanpool Ride-matching Services

Tenants will promote free ride-matching services. The ETC will actively match potential vanpool partners using employee zip code data. Matched vanpoolers can lease vanpool vehicles with Commute With Enterprise. Additionally, San Francisco Bay Area 511.org works with private ride-matching companies to provide commuters with alternative ridematching resources. A sample of ridematching apps include the following:

Merge

The best way to find a long-term carpool partner is with Merge. You will be matched with someone along your route, agree on days to carpool, and keep that same partner as long as you like. There are no built-in charges to use the service or carpool. Register here.

Scoop

Automated matching ideal for morning and evening work commutes. Download Scoop and set up your carpool preferences today.

Waze Carpool Driver

The popular navigation app allows drivers to offer carpools to riders. Click "Carpool" in the bottom right of your screen to access and fill out a driver carpool profile and you're on your way to driving a carpool.

Waze Carpool Rider

Users coordinate their own carpools by selecting from available drivers. Download Waze Carpool today to get started.

Carpool Incentive Programs

- Carpool (HOV) Lanes – Carpool lanes, also known as high-occupancy vehicle (HOV) lanes, can reduce commute times. The use of carpool lanes during commute hours requires commuters to be in a carpool, vanpool, public transit vehicle, or riding a motorcycle. Carpool lanes vary in their hours of operation and the minimum number of people per car. A list of HOV hours of operation and restrictions is available at https://511.org/carpool-vanpool/carpool/lanes.

- Park and Ride Lots – 150 free park-and-ride lots conveniently located throughout the Bay Area, where carpool partners or vanpools can meet in a central location. Many lots also feature easy access to transit connections and bike lockers.

- Merge 511 Rewards – Carpoolers can log their trips on the https://merge.511.org/#/ website to earn rewards. Commuters receive a $25 e-gift card for every 25 carpool trips completed.

- San Mateo County Carpool Commuters $100 Reward – Employees who live in or commute through San Mateo County can participate in the Commute.org $100 carpool incentive program. Employees who have ten days of carpooling activities and log or track their carpool trips in the STAR program may receive a $25 e-gift card, up to $100.

Bicycle Incentive Programs

The ETC will promote access to the Commute.org $100 bicycle reward incentive. Commuters that log their bicycle trips on the Commute.org website will be eligible to receive up to $100 in e-gift cards per year. For every ten bicycle commutes, employees earn a $25 e-gift card.

E-Bikes for Everyone

Income-eligible employees that live in San Mateo County may participate in the Peninsula Clean Energy E-Bike promotion. Qualified participants can receive up to $800 off the purchase of a new electric bicycle while funding is available. The ETC will promote this program to employees.

14.0 TENANT COMMUTER MARKETING & OUTREACH

Active and involved tenant-employers will generate positive impacts on the TDM Plan measures implemented. The tenant shall participate in the following commute alternative programs to increase transit use and reduce employees' need to drive alone to work.

New Employee Onboarding

A commuter program onboarding process will welcome and retain new employees. Onboarding may include pre-hire transportation planning and support to coordinate employee's transportation needs. A written summary of commuter programs and trip reduction goals clarifies the benefits available for new hiring candidates. Once hired, the onboarding process will include an overview of commuter benefits, systems, services, and resources. Registration forms will engage employees in the transit and vanpool subsidies, emergency ride home program, and bicycle resources. The ETC will provide personalized support during welcome events and one-on-one sessions when new employees start employment.

Commuter Marketing: Employee Transportation Fairs

Project tenants may host periodic transportation events or tablings. Tenants will include commuter information at company wellness or benefits fairs. The tenant's ETC will add tabling space to the employer's commute program to join these employee events when appropriate.

Commuter Marketing: Newsletter Articles and Emails

Periodic rideshare articles or emails will be written by the tenant's ETC for internal newsletters (if desired), with ongoing highlights of alternative commuters and their successes. Internal company notices and incentive promotions should attract commuters' attention, generate excitement about commuting alternatives, and reward those who rideshare.

The tenant's ETC will register with the BAAQMD for the Spare the Air program to receive regional air quality forecast bulletins about unhealthy air quality days. Employees will receive these email updates to encourage alternative transit modes during peak advisory periods.

Best Workplaces for Commuters

The tenant/employer(s) may seek a Best "SITES" for Commuters (BWC) certification. The Best Workplaces for Commuters provides qualified sites with national recognition and an elite designation for offering outstanding commuter benefits. Residential communities, employers, and developments that meet the National Standard of Excellence in commuter benefits can get on the list of Best Workplaces for Commuters. As an employer, the future tenant will be eligible for a Best Workplaces for Commuters designation.

Transportation Management Association Membership

Transportation Management Associations (TMAs) are typically private and nonprofit organizations run by a voluntary Board of Directors and a small staff. They help businesses, developers, building owners, local government representatives, and others work together to establish policies, programs, and services to address local transportation problems. The key to a successful TMA lies in the synergism of multiple groups banding together to address and accomplish more than any single employer, building operator, or developer could do alone.

In the City San Carlos, Commute.org (formerly the Peninsula Traffic Congestion Relief Alliance) operates as a TMA organization. Commute.org provides:

- Shuttle programs
- carpool and vanpool matching
- Parking management programs
- Trial transit passes
- Emergency ride home programs
- Enhanced bicycle facilities
- Car and vanpool incentives
- Transit advocacy
- information on local issues
- Teleworking
- Training
- Marketing programs
- Promotional assistance
- Newsletter

Participating in Commute.org is an asset for project tenants. Commute.org is a clearinghouse for alternative commute programs, incentives, and transportation projects affecting San Mateo County businesses.

Should the City of San Carlos establish a TMA that specifically addresses commuter and transportation, the Project tenant(s) will become a TMA member.

SECTION III – TDM COMPLIANCE, MONITORING, & REPORTING

A comprehensive program of TDM measures and incentives can reduce parking demand, traffic, and air pollution, creating a more sustainable employment environment while freeing up valuable land for higher and better uses.

Adequate parking, traffic congestion, and air pollution are critical concerns in maintaining a healthy city economy. Traffic congestion results in time lost to residents and commuters and increased demand for City fiscal resources for roadway construction and maintenance.

According to the U.S. Environmental Protection Agency, "mobile sources account for more than half of all the air pollution in the United States. The primary mobile source of air pollution is the automobile." "…today's motor vehicles are still responsible for up to half of all the emissions released into the air. "In the Bay Area, the transportation sector accounts for more than 50 percent of air pollution, and more than 40 percent of greenhouse gas emissions."[11]

15.0 COMPLIANCE, MONITORING, AND REPORTING

The TDM Plan expects to reduce SOV trips and lessen parking demand, traffic congestion, and mobile source-related air pollution. As written, this TDM Plan achieves at least a 20 percent reduction in vehicle trips. Per City of San Carlos Municipal Code Section 18.25.080, regular monitoring will be necessary to ensure that the implemented TDM measures effectively meet the 20 percent reduction requirement. The project applicant and on-site transportation coordinator will ensure that the TDM Plan is implemented each year and the annual monitoring report is submitted to the City of San Carlos.

Tenant Compliance Requirement

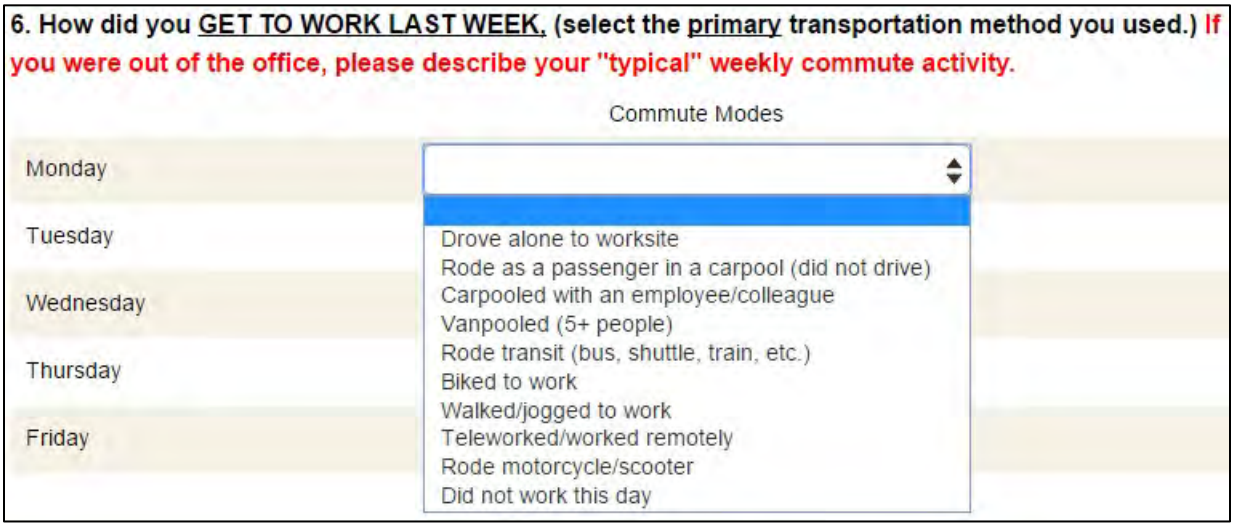
The project owner will disclose and provide a copy of this TDM plan to the future tenants, who will be encouraged to comply.

Annual Employee Commute Survey

Because the TDM Plan is performance-based, the transportation coordinator will arrange for an independent consultant (or out-sourced transportation coordinator) to perform an annual commute program evaluation (a five-day, weekday commute survey). The survey will determine employee transportation mode choice, which will allow the transportation coordinator, Transportation coordinator, tenant, and the City to assess the effectiveness of the unique program designed for this Project. Survey data can focus on marketing and outreach efforts to employees based on their specific commuter interests and satisfaction with property management.

[11] Bay Area Air Quality Management District, Aaron Richardson, Public Information Officer

The commute survey will be a critical part of the monitoring process to evaluate and ensure the TDM Plan's measures. By default, employees who do not participate in the commute survey will count as drive-alone or SOV commuters. Therefore, the results will be appropriately conservative. Shown below is a sample commute survey question. This annual commuter survey should be formatted as a general survey including non-transportation questions (e.g., satisfaction with property management, activities, etc.) to increase the response rate.



Driveway Hose Counts

At year three and five, the Project will conduct a peak-hour vehicle count using a driveway hose technology. The purpose of the count is to document the TDM Plan's effectiveness in achieving the required trip reduction. Driveway hoses or video cameras will be placed at all driveway access points during a one-week period to track daily trips and peak-hour trips.

Peak hour traffic counts will be conducted 7 a.m. to 9 a.m. and 4 p.m. to 6 p.m. on three non-consecutive days per year on typical weekdays during the fall when school is in session. Peak hour is defined as the hour when daily traffic volume is highest, which generally occurs during morning and afternoon commute times. Traffic counts will be obtained during AM and PM peak periods to define peak hours for those periods. The peak 60-minute period will be calculated for both the a.m. and p.m. peak periods. The highest number of net trips resulting from AM or PM peak hours will be used. Net trips will be calculated by subtracting trips for existing uses from those generated by the new Project.

An independent consultant will prepare the report and be paid for by the Project. The consultant will work in concert with the transportation coordinator and the ETC.

Annual Commuter Monitoring Report

Each year, the transportation coordinator, in cooperation with the tenant, will arrange for an independent consultant (or out-sourced transportation coordinator) to implement an annual employee commuter surveys, and document all findings in a TDM commuter monitoring report. The annual monitoring report will be submitted to the City of San Carlos by the Transportation Coordinator. The City will review the TDM Plan monitoring data to assess whether a 20-percent trip reduction goal is being met. This will be evaluated by comparing the driveway counts collected in years three and five to the trip targets of this TDM plan report.

The annual TDM monitoring report will include data from the employee commute survey. The summarized results from the employee survey will provide quantitative data (e.g., mode split) and qualitative data (e.g., employee perception of the alternative transportation programs).

The first baseline survey will be conducted one year after occupancy with subsequent employee surveys (and following annual surveys) in the fourth quarter of each year. The table at the right shows a *sample* summary of an employee commute survey.

Commuter Modes	% of Users
Carpool	11.8%
Transit (Caltrain, SamTrans)	4.2%
Bicycle	3.9%
Telework	3.6%
Uber or Lyft	1.9%
Vanpool	1.1%
Walk	0.2%
Estimated Commuters	**27%**
Drive alone commuters	73%

Should the 20 percent trip reduction goal not be met, the annual TDM commuter monitoring report will explain how and why it was not reached and specify additional measures and activities implemented in the coming year to improve the mode-use rate. Survey data help refocus TDM marketing, the ETC, and the Transportation coordinator's efforts, to maintain the Project's 20 percent trip reduction rate and commitment at the site.

The timeline for submittal of the monitoring report, reporting requirements, and next steps in the events the 20 percent trip reduction goal is not met is outlined below:

1) TDM Monitoring Reports: The initial TDM report will be submitted one (1) year after granting a certificate of occupancy. This requirement will apply to all tenant-occupied buildings on the property.

2) Report Requirements: The TDM program's goal is to encourage alternative mode usage, as defined in Chapter 18.25 of the San Carlos Municipal Code. The initial TDM report shall either:

   (1) state that the applicable property has achieved the trip reduction goal based on the number of employees in the building at the time, providing supporting statistics and analysis to establish attainment of the goal; or

(2) state that the applicable property has not achieved the trip reduction goal, explaining how and why the trip reduction target was not reached, and a description of additional measures adopted in the coming year to expand or enhance the TDM Plan.

3) Violations: If the City of San Carlos determines that the 20 percent trip reduction goal is not being achieved, additional TDM measures may be implemented. Modifications to the TDM Plan may include additional programs or substitute activities for achieving vehicle trip reductions. The annual TDM monitoring report will describe any planned modifications to the TDM program such that the 20 percent trip reduction is maintained or achieved by the following monitoring cycle.

   If the 20 percent trip reduction goal is not met based on a three and five-year review of TDM driveway trip count reports, the City may require more stringent TDM measures to be implemented along with a six-month monitoring schedule. Suppose the 20 percent trip reduction goal is not achieved by year six. In that case, the City may initiate a review of the building occupancy permit, conditional use permit, or enact other measures (including fines) to achieve a minimum of 20 percent trip reduction.

No Expiration of TDM Plan or Programs

All measures in this TDM Plan will continue to be implemented by the applicant on an ongoing basis. There is no expiration of this plan as it runs in perpetuity. The City of San Carlos may conduct periodic on-site auditing to ensure the implementation of the plan's TDM measures.

Trip Generation Estimate

No formal traffic study was prepared for this Project. However, the TDM Plan used the Institute of Transportation Engineers (ITE) guidelines to calculate the peak-hour AM and PM trips with the proposed new land-uses.

Below are daily and peak-hour ITE estimated trips assumed for the Project, along with the number of reduced vehicle trips expected. The estimated AM and PM peak-hour trips for this project total 178 (82+96). Accounting for the 20 percent trip reduction requirement, the project will need to reduce peak hour trips by 35 and daily trips by 439.

						AM Peak Hour				PM Peak Hour			
				Daily	Daily	Pk-Hr	Trips			Pk-Hr	Trips		
Land Use	ITE Code	Size	Unit	Trip Rate	Trips	Rate	In	Out	Total	Rate	In	Out	Total
Proposed Land Use													
Research & Development Building	760	195	ksf	11.26	2,197	0.42	61	20	82	0.49	14	81	96
Estimated Total Project Trips					2,197		61	20	82		14	81	96
Peak-hour trip reduction percent required					20%		20%	20%	20%		20%	20%	20%
Vehicle Trips reduction required					439		-12	-4	-16		-3	-16	-19
Total peak-hour trips (not to exceed)					2,636		49	16	66		11	65	76

Notes:

All rates are from: Institute of Transportation Engineers, *Trip Generation, 10th Edition*

1. Land Use Code 760: Research & Deveopment Building (average rates, expressed in trips per 1,000 s.f.)

C/CAG Trip Reduction Measures Checklist – Using Proposed C/CAG Updates

The City/County Association of Governments of San Mateo County develops bi-yearly Congestion Management Programs (CMP). These CMPs include a Land Use Guide that helps developments enact measures to mitigate vehicle trips associated with their projects.

C/CAG is currently updating their Land-Use Guide, and the likely calculation of vehicle trip mitigations using the latest proposed accounting system is estimated below. The points associated with each trip reduction measure represent the relative impact of the individual measure. C/CAG's proposed vehicle trip reduction impact using the project planned trip reduction measures is 40.5 percent.

The table below summarizes the C/CAG-applicable trip reduction measures, and their associated values, planned by this project and shows how the project plans to meet San Carlos's 20 percent trip reduction requirement. The proposed categories include required measures and recommended measures identified in this TDM plan.

Proposed C/CAG Trip Reduction Measures and Values

Trip Reduction Required Measures

TDM Measure Category	405 Industrial Project Feature	Measures	Measure Type	Proposed Point Value	Vehicle Trip Reduction Impact
Parking Management for Ridesharing	**Yes**	Free/Preferential Parking for Carpools	Programmatic	1	1.0%
TDM Management and Administration	**Yes**	TDM Coordinator/Contact Person	Programmatic	1	0.5%
	Yes	Actively Participate in Commute.org, or Transportation Management Association Equivalent	Programmatic	13 (following 5 measures are part of this)	16.5%
		Certified participation in Commute.org, or equivalent program such as a TMA			4.0%
		Commute assistance and ride-matching			1.0%
		Shuttle Program/Shuttle Consortium/Fund Transit Service			10.0%
		Guaranteed Ride Home			0.5%
		Orientation, Education, Promotional Programs and/or Materials			1.0%
Shuttles, Transit and Ridesharing	**Yes**	Carpool or Vanpool Program	Programmatic	3	2.0%
	Yes	Transit or Ridesharing Passes/Subsidies	Programmatic	8	10.0%
	Yes	Pre-Tax Transportation Benefits	Programmatic	3	1.0%
Active Transportation	**Yes**	Secure Bicycle Storage	Site Design	1	1.0%
	Yes	Showers, Lockers, and Changing Rooms for Cyclists	Site Design	2	2.0%
Site Design Initiatives	**Yes**	Design Streets to Encourage Bike/Ped Access	Site Design	1	1.0%
			Required Measures Points	**25**	**25%**

Additional Recommended Trip Reduction Measures

TDM Measure Category	405 Industrial Project Feature	Additional Measures	Measure Type	Additional Point Values	Vehicle Trip Reduction Impact
Employee Programs	**Yes**	Flex Time, Compressed Work Week, Telecommute	Programmatic	5	5.0%
Parking Management	No	Paid Parking at Market Rate	Programmatic	10	25.0%
	No	Short Term Daily Parking	Programmatic	2	2.0%
	Yes	Reduced Parking	Site Design	8	10.0%
TDM Management and Administration	No	Developer TDM Fee/TDM Fund	Programmatic	5	4.0%
Transit, Shuttles, & Ridesharing	**Yes**	Car Share On-Site	Programmatic	3	1.0%
	Yes	Land Dedication or Capital Improvements for Transit	Site Design	8	4.0%
		Bus Pullout Space		2	1.0%
		Bus Shelter		2	1.0%
		Visual/Electrical Improvements (i.e., Lighting, Signage)		2	1.0%
		Other (i.e., Micromobility Parking Zone, TNC Loading Zone)		2	1.0%
	Yes	Shuttle Program/Shuttle Consortium/Fund Transit Service	Programmatic	5	10.0%
Active Transportation	No	Bike/Scooter Share On-Site	Programmatic	2	1.0%
	Yes	Active Transportation Subsidies	Programmatic	3	2.0%
	Yes	Gap Closure	Site Design	5	7.0%
	Yes	Bike Repair Station	Site Design	1	0.5%
Site Design Initiatives	**Yes**	Pedestrian Oriented Uses & Amenities on Ground Floor	Site Design	4	3.0%
			Recommended Measures Points	**39**	**40.50%**
			CUMULATIVE TOTAL POINTS	**64**	**65.50%**

16.0 IMPLEMENTATION PLAN

The Transportation Coordinator will have primary responsibility for implementing TDM (commuter programs) at the site. Implementation of commuter facilities and programs will begin before the occupancy of the new buildings. The following outlines efforts to be taking during the initial implementation of this TDM Plan.

Establishment of a Tenant Program Implementation System

To ensure the TDM Plan's implementation, policies, and measures, formalizing programs, executive-level support in favor of commuter programs will be necessary. Executive support creates a synergistic relationship with Facilities, Sustainability, Communications, Security, and Human Resource departments, together with other corporate goals. The Transportation Coordinator will lead the implementation of programs with support from the tenant(s).

Tenant(s) Implementation

Implementation of the measures outlined in the TDM Plan involves the integration and engagement with the tenants. While ETC plays a leading role in implementing commuter programs, other employers will have a part to play in cooperation to promote and implement the measures jointly. During the planning implementation, a cross-departmental group communication mechanism will coordinate various departments to carry out the different action plans under this planning in an orderly manner. For example:

<u>Employers</u>

- Secure funding for the transit subsidy and vanpool programs and coordinate with Human Resources to initiate Commuter Check Direct online resources
- Host an on-site kick-off commuter event one week before occupancy of the site
- Update and refresh employee transportation website
- Work with Communications to prepare pre-occupancy messaging materials
- Coordinate with reception staff to help disseminate commuter information to employees

<u>Sustainability Team</u>

- Contribute rhetoric for marketing materials in support of reduced greenhouse gas emissions and benefits of commuter options
- Incorporate and link the commuter programs and annual reports with Sustainable messaging and planning

<u>Communications</u>

- Prepare communications, employee outreach, and marketing materials to announce the new transit subsidy and vanpool programs and refreshed employee commuter programs
- Develop and print the commuter brochure

- Prepare announcements and notices will be sent to future occupants of the site providing early information about on-site commuter features (e.g., bike parking, bike fix-it station, showers, commuter kiosk, and carpool spaces)
- Coordinate with Facilities to promote the annual online commuter survey

Employer Facilities and the ETC

- Provide carpool parking permit registration and monitoring
- Provide bike locker registration and monitoring
- Provide free guaranteed emergency ride home information for commuters in need
- Coordinate updates and refresh employee transportation website
- Work with Security to monitor and audit carpool and bicycle participants
- Coordinate annual driveway counting efforts
- Initiate the yearly online commuter survey

Human Resources

- Develop a written policy regarding the new transit subsidy program
- Provide employee pre-tax transit programs and benefits
- Manage and host employee transit subsidy program via Commuter Check Direct (or another online vendor)
- contribute rhetoric for marketing materials in support of employee benefits of commuter programs
- incorporate and link commuter programs and annual reports with Human Resource messaging and planning

The Project's site project shall have full implementation and operation of the TDM and commuter programs within six months of initial occupancy.

17.0 FINDINGS & CONCLUSION

As required by the City's Chapter 18 TDM Zoning requirements, "the proposed trip reduction measures [contained in this TDM Plan] are feasible and appropriate for the project." The TDM Plan will mitigate 20 percent of AM and PM peak-hour vehicle trips.

The TDM Plan accommodates "the proposed use or mix of uses and the project's location, size, and hours of operation." The "proposed performance [measures] ensures that the target alternative mode use [goal] … chapter will be achieved and maintained."[12]

The proactive 405 Industrial TDM Plan meets trip reduction rates and tenant transportation needs for the project. In addition, this TDM Plan identifies specific elements, measures, and

[12] (Ord. 1438 § 4 (Exh. A (part)), 2011)

actions that guide the project to promote existing resources and programs, enhance future benefits, and create a resident-focused program. Significant on-site amenities, employee outreach, ongoing marketing and promotions, a free guaranteed emergency ride home program, transit resources, and vanpool subsidies, and ETC services will provide the needed support for an effective and successful program at the project.

This TDM Plan describes TDM measures integrated to support tenant commuting and innovative efforts identified for implementation. It outlines the steps necessary (infrastructure, programming) for property owners and property management when marketing to tenants. Periodic program assessments will provide the information needed to demonstrate effectiveness and goal attainment.

The TDM Plan details this commitment by emphasizing TDM infrastructure, amenities, and outreach activities to reduce average daily trips. Ridesharing strategies maximize existing transportation resources, support the City's goals and objectives, and ultimately expand the transit system's reach for commuters.

The City of San Carlos promotes environmental stewardship in maintaining a safe, healthy, and sustainable city. It recognizes the importance of maintaining a stable climate system for current and future residents. By balancing these needs with economic growth, the 405 Industrial Road project will help San Carlos thrive.

Attachment A

Nearby Amenities

List of Nearby/Offsite Amenities
405 Industrial Road, San Carlos, CA

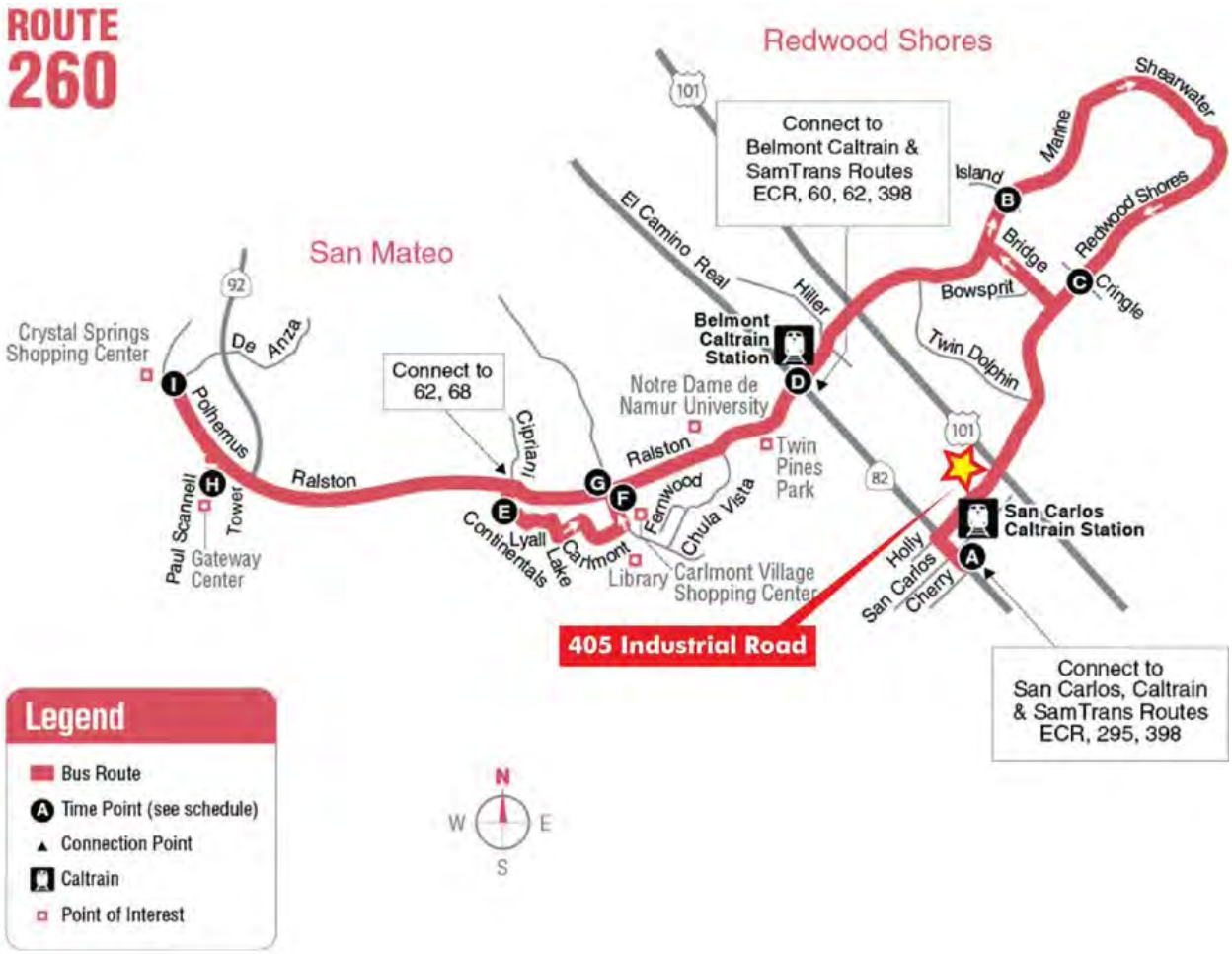
Restaurants, Cafes/Delis, Coffee, and Bakeries	Phone #	Distance Away
• **In-N-Out Burger** 445 Industrial Rd, San Carlos, CA	800-786-1000	446 ft.
• **Bakers Local 24** 551 Industrial Rd, San Carlos, CA		0.20 mi.
• **Chuck's Donuts** 495 Old County Rd, San Carlos, CA	650-522-0299	0.30 mi.
Retail	**Phone #**	**Distance Away**
• **PPG Paint Store** 476 Industrial Rd, San Carlos, CA	650-591-6656	0.10 mi.
• **Kelly-Moore Paints** 320 Industrial Rd, San Carlos, CA	650-595-1654	0.30 mi.
• **7-Eleven** 1080 Holly St, San Carlos, CA	650-592-1314	0.30 mi.
Health, Beauty & Fitness	**Phone #**	**Distance Away**
• **Sutter Urgent Care – San Carlos Center** 301 Industrial Rd, San Carlos, CA	650-596-4100	0.20 mi.
Transportation, Gas, Shipping & Storage	**Phone #**	**Distance Away**
• **76** 906 Holly St, San Carlos, CA	650-594-9167	466 ft.
• **A&A Gas Station Liquor Food Beer** 906 Holly St, San Carlos, CA		466 ft.
Banks & ATM	**Phone #**	**Distance Away**
• **ATM** 906 Holly St, San Carlos, CA		466 ft.
Daycare	**Phone #**	**Distance Away**
• **Little Troopers Child Care** 1032 Inverness Dr, San Carlos, CA	650-218-1009	0.60 mi.

Attachment B

Silicon Valley Bicycle Coalition Matrix

Attachment C

SamTrans Route 260

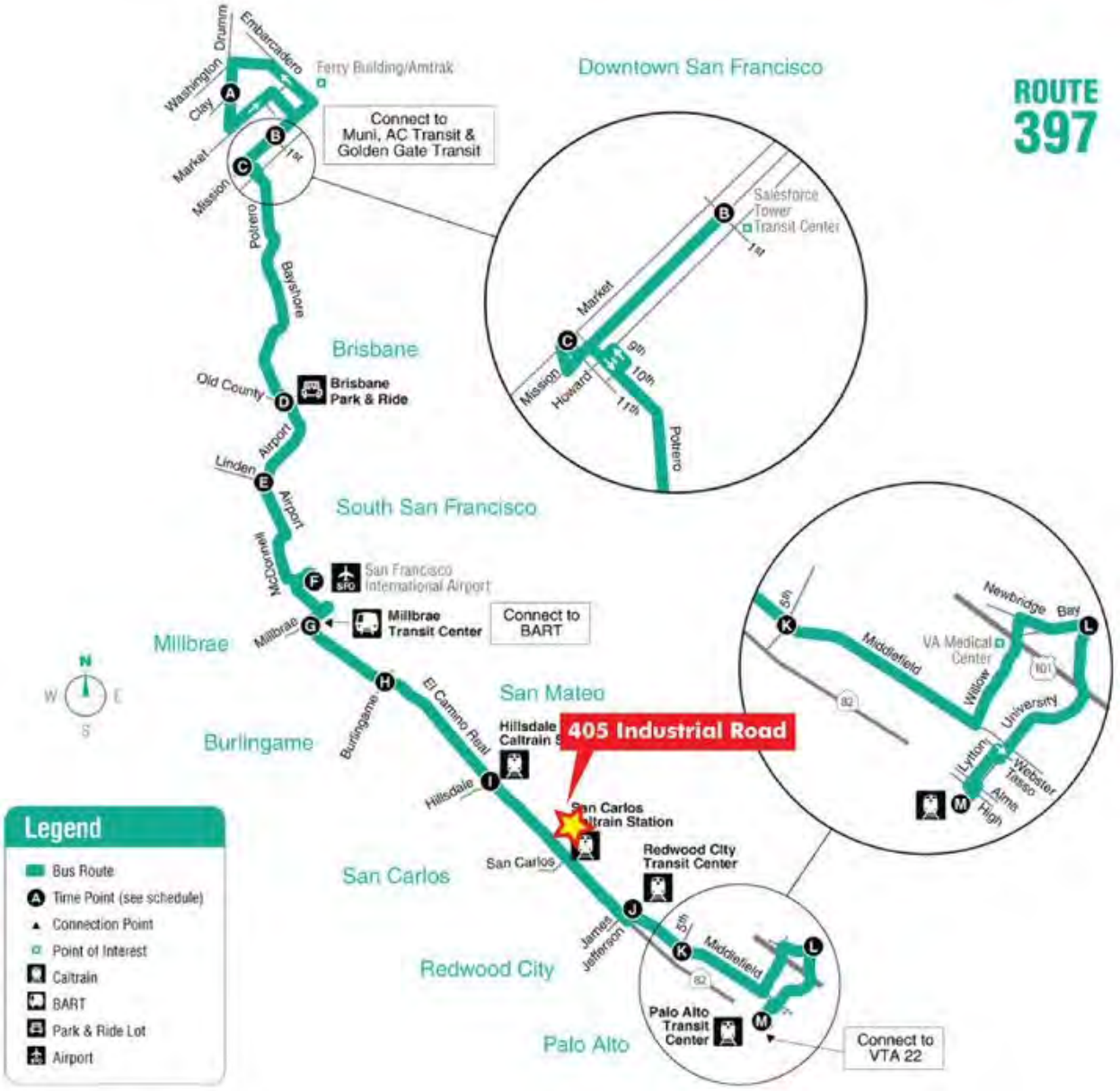


Attachment D

SamTrans Route 295

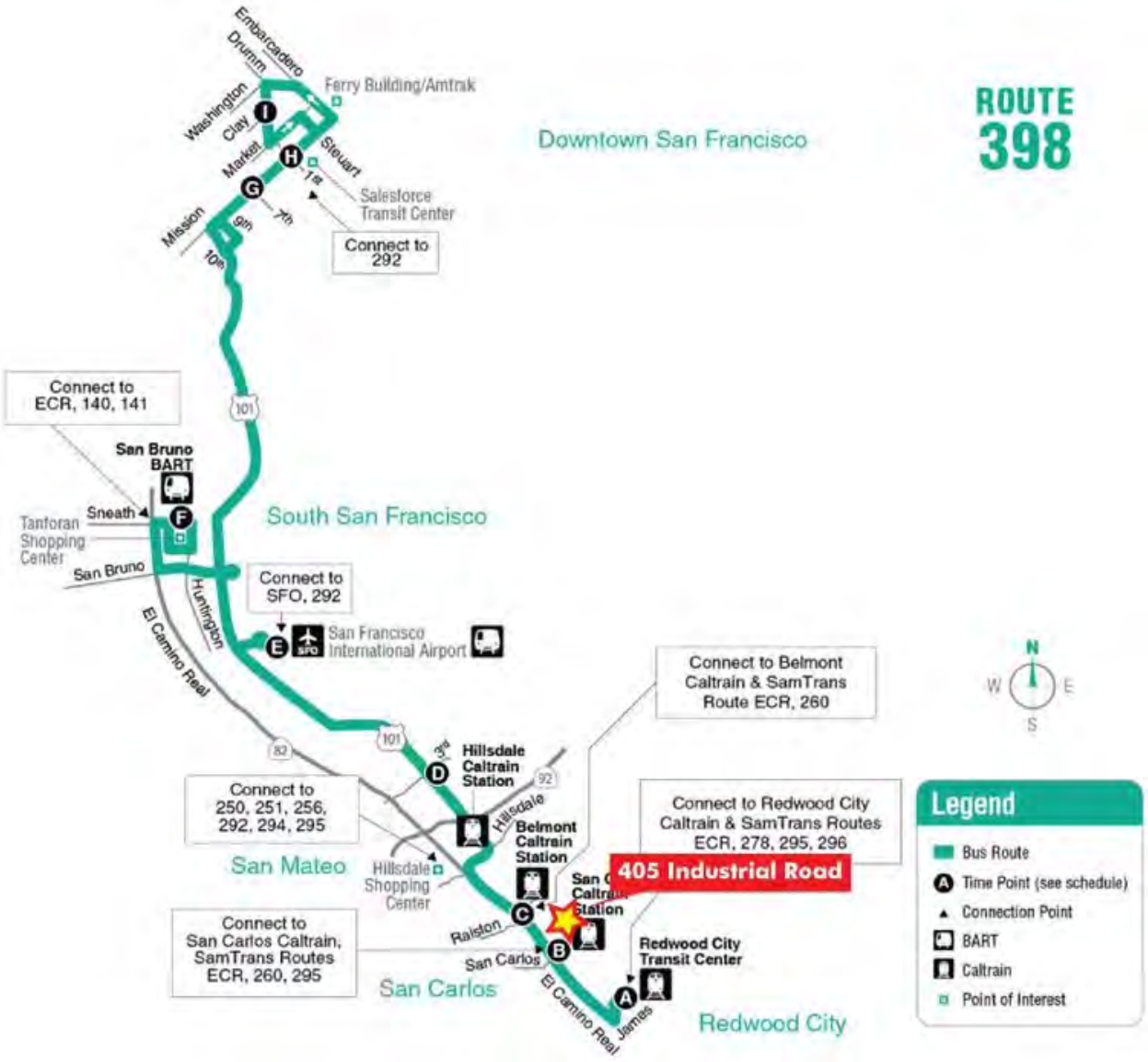
Attachment E

SamTrans Route 397



Attachment F

SamTrans Route 398



Attachment G

SamTrans Route ECR

TDM SPECIALISTS, INC. QUALIFICATIONS

TDM SPECIALISTS, INC.

A Transportation Demand Management Company

We are planners and technical experts *focused on development projects and improving employee mobility options. Our Transportation Demand Management (TDM) planning solutions reduce vehicle traffic, parking demand, greenhouse gases, and air pollution impacts. We work successfully with developers, employers, and government agencies to get TDM Plans approved and projects entitled. We also implement and manage on-site commuter programs and achieve required TDM goals.*

"We have finished the review of the Draft TDM. First let me say, that was the best TDM I have ever seen! The best by a large margin...a fantastic TDM Plan. Thank you so much."

Steve Lynch, AICP, Senior Planner, City of Santa Clara, California

Our TDM practitioners provide full-service commute and traffic mitigation, sustainable LEED planning, and air quality conformity. Serving as an extension of client staff, we provide a broad range of services to get the job done efficiently while meeting the unique needs of the client and specific jurisdiction.

Transportation Demand Management

TDM Specialists develop Transportation Demand Management plans, traffic mitigation plans, and sustainable programs that address green commuting, mobility, and constrained parking issues. The purpose of TDM is to promote more efficient utilization of existing transportation facilities, reduce traffic congestion and mobile source emissions, and ensure that projects are designed in ways to maximize the potential for alternative transportation use.

Commute Program Implementation

We have a proven track record of getting employees out of their cars. As projects are built and occupied, TDM Specialists can develop the structure, outreach and promotions necessary to implement and manage employee Commute Programs. The initial start-up, implementation, and ongoing management of the Commute Program are designed to meet TDM or trip reduction objectives and requirements. The overarching goal of a Commute Program is to enhance the quality of life and reduce commute trips for project employees.

Quality of life improvements can enhance employee recruitment, morale and retention, and increase productivity that create positive benefits for businesses.

Sustainable Air Quality and Greenhouse Gas (GHG) Solutions

TDM Specialists successfully implements trip reduction programs tailored to fit the project, and can typically reduce employee trips to the site by 30 percent. This results in reduced drive-alone trips and complies with requirements to reduce project GHG impacts. We coordinate the mechanisms to calculate and report these results to appropriate agencies.

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TDM SPECIALISTS, INC.

A Transportation Demand Management Company

Areas of Expertise

Traffic Mitigation

TDM/TSM Mitigation Plans
TDM Employer Training
Commute Program Development
Commute Program Management
Commute Program Audits
Commuter Surveys
Transportation Fairs and Events
Car Management Strategies
Shuttle Programs
TMA Management

Parking Mitigation

Parking Demand Reduction
Parking Management Strategies
Parking Constraints Solutions

Entitlement

Project Support
Strategic Counsel
Critical Response Support
Environmental (EIR) Mitigation
(Air Quality and Transportation)

Sustainability

Greenhouse Gas Emission Reductions
Supporting LEED Components
Air Quality Mitigation Plans

TDM Applications

- Office or R&D buildings
- Corporate Headquarters/Campus
- Master Plan projects
- Specific Plans
- Business Parks
- Hospitals/Medical Offices
- Retail/Shopping Centers
- Residential (multi family, single family, hi-rise, etc.)
- Special Events
- Recreation
- Universities and Colleges
- Warehouse and Manufacturing
- Airports and Transit Stations

Development, Property Management and Employer Projects

- Facebook
- Genentech
- NVIDIA
- SAP Labs
- Intel Folsom
- Intel Santa Clara
- Nokia
- Yahoo! Inc.
- NetApp
- VMware
- McClellan Business Park
- Juniper Networks
- Sunnyvale City Center
- Marvell
- Access/Palm Source
- Alexandria Real Estate Equities
- Oyster Point Business Park
- Metro Air Park
- Raley Field
- Moffett Park Business and Transportation Association
- Intuitive Surgical
- The Allen Group
- Spieker Properties
- HCP, Inc.
- Granite Regional Park
- Hyatt Place Hotel – So. San Francisco
- So. San Francisco Business Center
- Masonic Homes of California
- Fairview River Landing
- Donahue Schriber
- BioMed Realty Trust
- Panattoni Development
- Taylor Properties Development Co.
- SKS Investments, LLC
- Shorenstein
- LBA Realty
- Jones Lang LaSalle
- California Farm Bureau
- California Highway Patrol
- Separovich • Domich
- Newell Real Estate Advisors
- Linkedin
- Menlo Equities, LLC
- TMG Partners
- The Minkoff Group
- Arnell Enterprises, Inc.
- The Pollock Financial Group
- Wolff Enterprises

Municipal & Agency Locations

- Sacramento Area Council of Governments
- California Highway Patrol
- County of Sacramento, Dept. of Human Services
- City of South San Francisco
- City of Mountain View
- City of Santa Clara
- City of Sunnyvale
- State of California, Dept. of General Services
- San Mateo City/County Association of Governments
- City of Union City
- Cal PERS
- Cal STRS
- Ogden City, UT
- City of Brisbane
- Grand Rapids Interurban Transit, MI
- City of Citrus Heights
- University of California San Diego West Campus
- Sacramento County International Airport

Biotech, Pharmaceutical and Hospital Projects

- Genentech
- Amgen
- Rigel
- Takeda
- Onyx Pharmaceutical
- University of California San Diego, East Campus Medical Center
- Sutter Medical Center, Sacramento
- Mercy General Hospital
- Mercy San Juan Medical Center
- Enloe Medical Center
- Intuitive Surgical
- Blood Source
- Eclipsys, MA
- Counsyl, Inc.
- Theravance, Inc.

405 Industrial Road Life Science Project IS/MND

Appendix D.2: VMT Analysis

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Hexagon Transportation Consultants, Inc.

Memorandum

Date: January 18, 2022

To: Phillip Gleason, Barbara Beard

From: Gary Black, Rueben Rodriguez

Subject: VMT Analysis for the Proposed 405 Industrial Road Project in San Carlos, California

Hexagon Transportation Consultants, Inc. has completed a vehicle miles traveled (VMT) analysis for the proposed 405 Industrial Road project in San Carlos, California. The proposed project site is located on the northeast corner of the Industrial Road and Holly Street intersection (see Figure 1). The project would demolish the existing uses on-site and construct a six-story building with approximately 205,000 square feet (s.f.) of office and laboratory space (see Figure 2).

The purpose of this analysis is to document the VMT impact of the project based on the City of San Carlos' VMT policy. The methodology and results of the analysis are discussed below.

Significant Impact Criteria

Pursuant to Senate Bill (SB) 743, the California Environmental Quality Act (CEQA) 2019 Update Guidelines Section 15064.3, subdivision (b) states that VMT will be the metric in analyzing transportation impacts for land use projects for CEQA purposes. VMT is the total miles of travel by personal motorized vehicles a project is expected to generate in a day. VMT measures the full distance of personal motorized vehicle-trips with one end within the project.

The San Carlos VMT policy specifies that office use projects shall be considered less-than-significant if the project generates 15-percent (15%) below the daily VMT per job in the City. The San Carlos VMT policy sets the daily existing VMT and the 2040 General Plan buildout VMT at 27.6 daily miles per job and 26.7 daily miles per job, respectively. Thus, the VMT thresholds for an office use to be considered less-than significant are 23.5 and 22.7 VMT per job for existing conditions and 2040 conditions, respectively.

4 North Second Street, Suite 400 · San Jose, California 95113 · phone 408.971.6100 · fax 408.971.6102 · www.hextrans.com

VMT Analysis

Daily VMT for the proposed project zone were determined based on the Metropolitan Transportation Commission (MTC) travel demand forecast model for the Plan Bay Area 2040. The average daily VMT for the project based on the MTC travel demand forecast model for existing (2020 pre-COVID) conditions and 2040 conditions are 26.6 and 26.3 daily VMT per job, respectively. These rates are higher than the standard, and the project would have a potential significant impact on VMT (see Table 1). Mitigation is required.

Based on the City of San Carlos transportation demand management (TDM) policy, the project would be required to meet a 20-percent (20%) reduction in trip generation. A reduction in trip generation would directly result in a reduction in VMT because it reduces trips to and from the proposed project. Thus, a 20-percent reduction in VMT was applied to the proposed project's baseline VMT to account for the project's TDM trip reduction requirement. With the 20-percent reduction in VMT, the project's existing conditions and 2040 conditions VMT would be 21.3 and 21.0 VMT per job, respectively (see Table 1). Thus, the average daily VMT for the project would be below the City of San Carlos VMT policy threshold, and the required TDM Plan trip reduction would fully mitigate the potential VMT impact.

Table 1
Project VMT Summary

Scenario	Existing Daily VMT	2040 Daily VMT
San Carlos VMT Baseline	27.6	26.7
Threshold (15% Below Baseline)	**23.5**	**22.7**
Proposed Project Baseline [1]	*26.6*	*26.3*
Proposed Project with TDM [2]	***21.3***	***21.0***

Notes:
VMT = vehicle miles traveled, TDM = transportation demand management

[1] The daily VMT for the proposed project were determined based on the Metropolitan Transportation Commission (MTC) travel demand forecast model for the Plan Bay Area 2040.

[2] The proposed project would be required to meet a 20-percent (20%) reduction in trip generation, per the City of San Carlos TDM policy.

The project's TDM plan was prepared by TDM Specialists, Inc. The project's TDM plan includes a variety of programs, incentives, and facilities such as bicycle infrastructure (e.g. bicycle parking and bicycle repair station), showers/changing facilities, and an on-site exercise facility. The TDM Plan is designed to achieve the required 20-percent trip reduction and includes monitoring and reporting requirements. The project's proposed TDM plan is attached to this memo.

Figure 1
Project Site Location and Surrounding Area

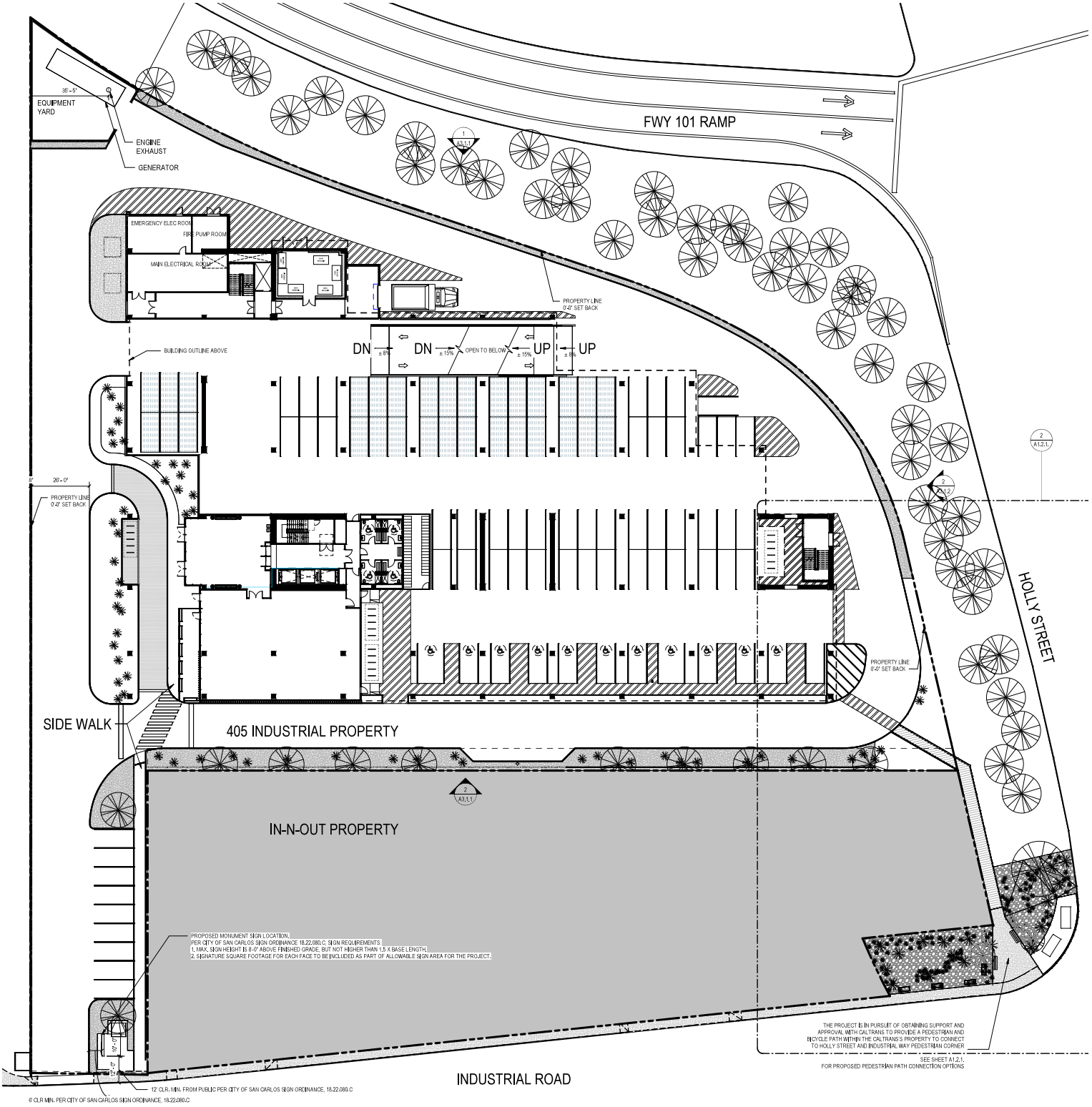


Figure 2
Project Site Plan

NORTH
Not to Scale

Attachment 1
TDM Plan

August 2, 2021

405 INDUSTRIAL ROAD

Transportation Demand Management Plan

TDM SPECIALISTS, INC.
A Transportation Demand Management Company

405 Industrial Road

City of San Carlos

Preliminary Transportation Demand Management Plan
(Transportation Action Plan)

CALGreen

Prepared for:

Menlo Equities

Prepared by:

TDM SPECIALISTS, INC.
A Transportation Demand Management Company

(408) 420-2411

August 2, 2021

TABLE OF CONTENTS

TDM EXECUTIVE SUMMARY

This Transportation Demand Management TDM Plan (herein known as the TDM Plan) for the site at 405 Industrial Road (Project) provides a viable and dynamic program to support a 20 percent reduction in vehicle trips. This TDM Plan is consistent with the City of San Carlos' TDM Ordinance "to meet vehicle trip generation rates that are 20 percent lower than the standard rates as established in the most recent edition of the Institute of Transportation Engineers (ITE) trip generation manual."

The TDM Plan also meets the trip reduction guidelines provided by the City/County Association of Governments (CCAG) of San Mateo County. The CCAG guidelines "…identify strategies to respond to future transportation needs, develop procedures to alleviate and control congestion, and promote countywide solutions." The mechanisms in the TDM Plan will bind both the Project and future tenants.

The TDM Plan measures are consistent with other well-performing TDM Plans and trip-reduction programs in South San Francisco, Foster City, Brisbane, Redwood City, and other San Francisco Bay Area locations.

The following outline provides a checklist of measures included in the applicant's TDM Plan for the Project. This list satisfies the San Carlos TDM Ordinance Chapter 18.25.050.A submittal requirement.

TDM INFRASTRUCTURE AND PHYSICAL MEASURES

- Infill development
- Building design
- Bicycle parking - long-term secure bike room (Class I)
- Bicycle parking - short-term racks (Class II)
- Enhanced bicycle parking
- Wayfinding
- Public bikeshare program hub - conceptual
- Fix-it bicycle repair station
- Showers and changing facilities
- Pedestrian facilities
- Carpool/vanpool parking spaces
- Clean air vehicle parking
- Electric vehicle charging facilities
- Carshare parking space
- Motorcycle and scooter parking placement
- Passenger loading area
- Employee Commuter Resource Flier
- TDM site plan

- Outdoor amenity space
- On-site café
- On-site exercise facility
- Nearby amenities and mobile delivery services
- Transportation information kiosk

TDM PROGRAMMATIC MEASURES

Applicant Commuter Program Management

- Transportation coordinator amenity
- Coordination with existing developments
- Parking management strategies
    - Technology solution
    - Reserved vanpool parking
    - Preferential carpool parking
    - Carpool parking policy
- Bike Friendly Business Recognition
- Silicon Valley Bicycle Coalition
- Best "Site" for Commuters National Recognition
- Commute information web portal

Tenant Commuter Benefits

- Bay Area Commuter Benefits Program registration
- Transit subsidies or
    - Caltrain GoPass
    - SamTrans Way2Go pass
- Vanpool subsidies
- Pre-tax transit deduction payroll option
- Pre-tax parking deduction payroll option (for parking at a transit station)
- Carpool commuter allowance
- Private internal bike fleet
- Regional bikeshare participation – conceptual
- Bicycle commuter allowance
- Funding to future shuttle – conceptual
- Telework option
- Alternative work schedule option (flextime, compressed workweek)

Commuter Service and Resources

- Employer-designated TDM contact
- Clipper START discounted pass
- Clipper Card grants up to $7,500
- Try Transit passes
- Guaranteed Ride Home program

- Scheduled mobile bicycle repair service
- Annual bike safety seminar
- Access to $350 monthly MTC vanpool subsidy
- Access to commute.org vanpool incentives
- Carpool and vanpool ride-matching services
- Carpool incentive programs
- Bicycle incentive programs
- E-bikes for everyone

Commuter Marketing and Outreach

- New employee - onboarding
- Commuter marketing: Employee transportation fairs
- Commuter marketing: Newsletter articles and emails
- Best Workplaces for Commuters
- Transportation Management Association membership

TDM PERFORMANCE MONITORING AND SURVEYING *(obligates applicant and all tenants)*

- Tenant compliance requirement
- Annual employee commute survey
- Annual driveway hose count
- Annual monitoring report
- No expiration of TDM plan or programs
- Trip generation estimate
- C/CAG trip reduction measures checklist
- Implementation plan

INTRODUCTION

This 405 Industrial Road Transportation Demand Management (TDM) Plan (herein known as the TDM Plan) meets the Project's specific needs, considering the site's logistical resources, opportunities, and constraints. The TDM Plan measures provide specific elements and actions that commit the applicant and future tenant to their implementation. Executing the TDM Plan measures will increase pedestrian, bicycle, carpool, and transit uses and achieves a 20 percent reduction in vehicle trips.

The TDM Plan is performance-based and directs the applicant and future employers (tenants) to implement programs, employee benefits and create a formal commute program. Commute program marketing, ongoing promotions, membership in a (future) San Carlos Transportation Management Association (TMA), a guaranteed emergency ride home program, and an active commute concierge will provide the synergism needed to create productive and successful applications for future Project employees. This TDM Plan contains appropriate measures and elements consistent with other very well-performing Silicon Valley, San Francisco Bay Area region, and national commute programs. Annual monitoring via employee online commuter surveys and driveway hose count surveys will provide the documentation to demonstrate the TDM programs' effectiveness.

This TDM Plan details the applicant's commitment to the City of San Carlos (City) and its designated responsibility for implementation.

The TDM Plan guides the Project to promote and encourage all alternative modes of transportation, including walking, bicycling, carpooling, vanpooling, telework, and public transit.

TDM Planning Process

The Project will include trip reduction elements and goals outlined in the City's Zoning Code, Chapter 18.25 Transportation Demand Management. Other contributing and complementary sustainable building efforts include applicable portions of the U.S. Green Building Council's (USGBC) Leadership in Energy and Environmental Design (LEED) gold-equivalent design and California's Green Building standards. A successful LEED and green development Project reduce vehicle trips, air pollution, and traffic congestion and contributes to a successful carbon footprint and greenhouse gas reductions for long-term operations.

> The U.S. Green Building Council (USGBC) encourages and accelerates global adoption of sustainable green building and development practices through the creation and implementation of universally understood and accepted tools and performance criteria (www.usgbc.org).

1.0 REGULATORY AND SUSTAINABLE ENVIRONMENTS

The TDM Plan combines services, incentives, facilities, and actions that reduce single-occupant vehicle (SOV) trips to relieve traffic congestion, parking demand, and air pollution problems. The following are goals achieved through the effective utilization of a TDM Plan with the use of TDM measures:

- *Reduce parking demand by converting SOV trips to alternative transportation (e.g., transit, carpool or vanpool, bicycling, or walking).*
- *Shift travel to less congested routes by providing traveler information systems that warn motorists about delays or alternative ways.*
- *Support other technological solutions (e.g., compressed natural gas, electric/hybrid vehicles, or other zero-emission vehicles).*
- *Eliminate or shift trips from peak periods (e.g., flexible schedules, compressed workweeks, or telecommuting).*

Successes achieved from TDM Planning will also significantly impact greenhouse gas (GHG) emission reductions while providing sustainable mobility solutions. The lasting solution combines innovative strategies with proven trip reduction methods, mobility-enhancing strategy, and energy consumption-reducing programs at a City-wide level. The results include mitigating GHG emissions and other pollutants, improved traffic flow and connectivity, reduced parking demand, and lower energy bills.

A summary of City, county, and State policy goals related to sustainability, congestion management, and GHG reduction follows below.

City of San Carlos

San Carlos General Plan[1]
As stated in the General Plan, "the City intends to address traffic congestion problems by effectively managing future commercial and residential growth…using Transportation Systems Management Strategies."

San Carlos Climate Action Plan[2]
The City's Climate Action Plan, adopted in 2009, aims to achieve "a 15-percent reduction of emission levels by 2020 and a 35-percent reduction by 2030 based on 2005 emission levels. Strategy 60 requires TDM programs and monitoring programs to track effectiveness."

[1] http://www.cityofsancarlos.org/Home/ShowDocument?id=1105
[2] https://www.cityofsancarlos.org/government/departments/city-manager-s-office-communications/responsible-environment/climate-action-plan/2009-climate-action-plan

San Carlos Zoning Ordinance[3]

- Chapter 18.25 Transportation Demand Management

Chapter 18.25 "Transportation Demand Management" of the Municipal Code outlines the TDM objectives for the City. It states that, *"All projects subject to the requirements of this chapter shall incorporate measures to meet vehicle trip generation rates that are twenty percent lower than the standard rates as established in the most recent edition of the Institute of Transportation Engineers (ITE) trip generation manual. (Ord. 1438 § 4 (Exh. A (part)), 2011))."*

San Mateo County Congestion Management Plan[4]

- "All land-use changes or new developments that require a negative declaration or an Environmental Impact Report (EIR) and if projections generate a net (subtracting existing uses that are currently active) 100 or more trips per hour at any time during the a.m. or p.m. peak hour period; must be reported to CCAG within ten days of completion of the initial study prepared under the California Environmental Quality Act (CEQA)."

LEED- Equivalent Standards

- SS Credit 4.1: Alternative Transportation: Public Transportation Access
- SS Credit 4.2: Alternative Transportation: Bicycle Storage and Changing Rooms
- SS Credit 4.3: Alternative Transportation: Low Emitting and Fuel-Efficient Vehicles
- SS Credit 4.4: Alternative Transportation: Parking Capacity

San Francisco Bay Area Commuter Benefits Program[5]

Air District Regulation 14, Rule 1, also known as the Bay Area Commuter Benefits Program, requires employers with 50 or more full-time employees to register and offer commuter benefits to their employees. The purpose of this rule is to improve air quality, reduce emissions of greenhouse gases and other air pollutants, and decrease traffic congestion in the San Francisco Bay Area by encouraging employees to commute to work by transit and different alternative commute modes.

State Regulatory Setting

The State of California has given many organizations and agencies the responsibility of creating guidelines, policies, and thresholds that meet emissions legislation. Below is a summary of laws from the Office of Planning and Research, California Air Resources Board (CARB), California Air Pollution Control Officers' Association, Council of Governments, and the Attorney General's office.

- **Executive Order S-3-05 –** directs the California Environmental Protection Agency (Cal EPA) secretary to initiate a multi-agency effort to reduce GHG emissions to the target levels.

[3] https://www.codepublishing.com/CA/SanCarlos/#!/SanCarlos18/SanCarlos1825.html#18.25
[4] www.ccag.ca.gov
[5] https://511.org/employers/commuter-benefits-program

- **Senate Bill 375 –** establishes improved land use and transportation policy supporting AB32 by providing a means for achieving the AB32 goals for cars and light trucks through land-use changes. This legislation created potentially revolutionary changes in California's regional planning processes for housing and transportation by mandating sustainable regional growth plans. These plans expect to double the GHG emission reduction targets that local governments must meet through land-use planning.

  The CEQA streamlined review process for developers is the most significant provision of the bill. Projects that meet specific criteria, including at least 50 percent residential use, high densities, and located within 1/2 a mile from a rail, ferry, or bus line with 15-minute headways or less – qualify for a CEQA review exemption.

Trip Reduction Goals

The comprehensive trip reduction measures identified in this TDM Plan are essential to maintaining the Project's trip reduction efforts. Combining these critical factors may provide the synergism to achieve a 20 percent reduction for vehicle trips.

2.0 PROJECT DESCRIPTION

The project proposes a six-story life-sciences building at the property site of 405 Industrial Road. Currently, a five-story storage facility operates at the project site.

The building will total 392,433 gross square feet and is intended for life sciences use. Garage parking will provide 366 parking spaces.

The proposal includes four levels of lab and office space over three levels of structured parking. In addition, several amenities will provide occupants with vehicle trip-reducing facilities, including outdoor terraces, an on-site café, a fitness center, bike storage and shower facilities, and more.

Below is a project Location map showing proximity to the Caltrain station and nearby amenities.

Project Location (and Radius) Map

3.0 EXISTING TRANSPORTATION FACILITIES

The Project sits west of Highway 101. There are no direct transit resources that serve the site.

The transit matrix displayed below shows five SamTrans routes and a Caltrain stop within a half-mile. The walking distance from Caltrain to the site is a ten-minute walk. A bike ride from the Caltrain station to the Project is three minutes.

Page 6 lists Local SamTrans Bus Routes (within half a mile from the Project), and page 7 shows a Walking to Transit Access Map. On page 8 is a SamTrans Local Transit Map. Attachments in the appendix show specific route maps for these local SamTrans routes.

List of Transit Resources within 0.50 Miles from the Project

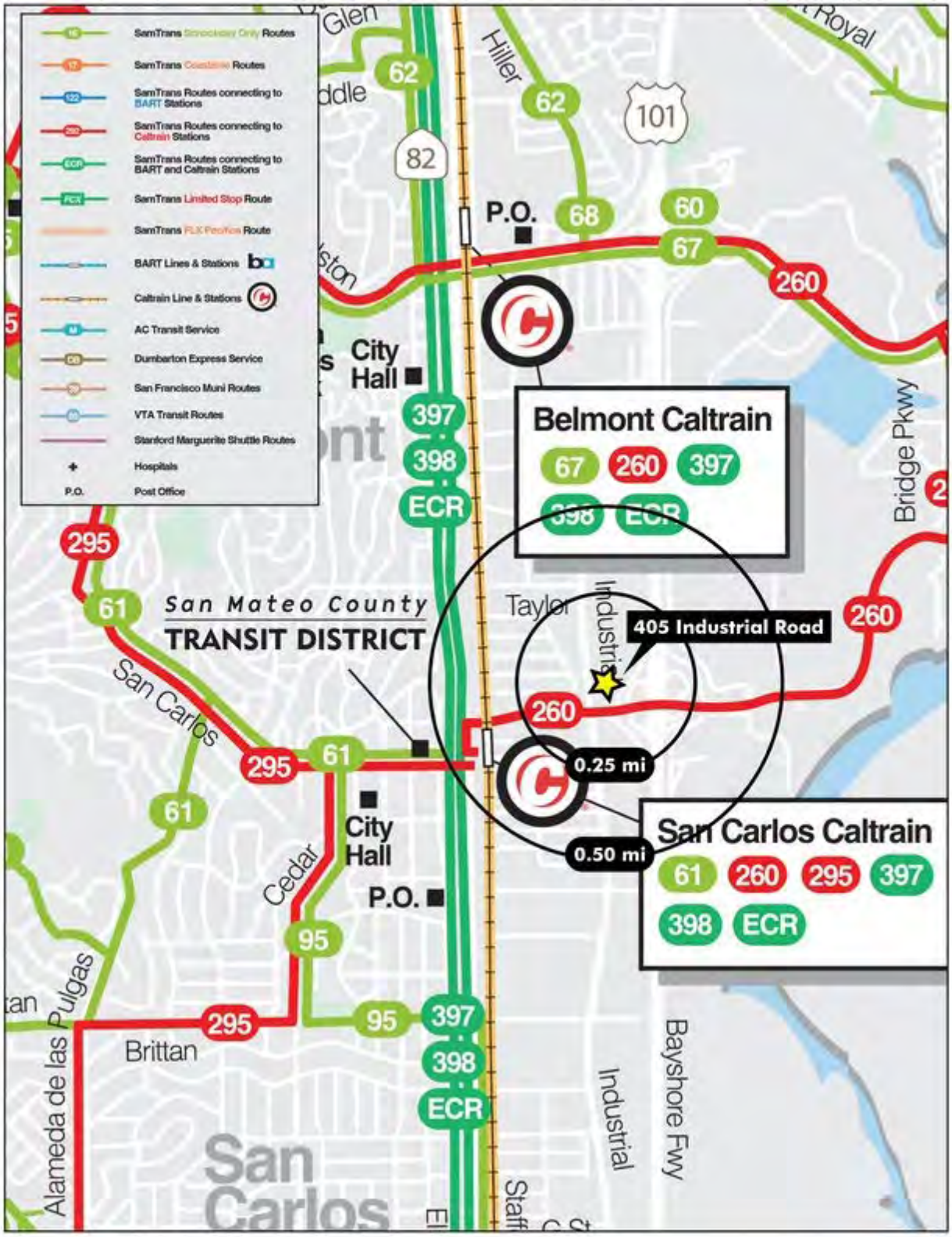
Route	Span of Service	Trips per Weekday	Communities Served
260 Samtrans	6 Days/Week 6:05 a.m. - 8:37 p.m.	28	San Carlos Caltrain, Marine/Island, Redwood Shores btwn Cringle & Bridge, Ralston/El Camino Real, Continentals/Lyall, Ralston/Alameda, and Polhemus/De Anza
295 Samtrans	5 Days/Week 7:26 a.m. - 5:40 p.m.	12	Redwood City Caltrain, Cordilleras Center, San Carlos Caltrain, Alameda/Ralston, Hillsdale/Edison, Alameda/20th, and San Mateo Caltrain
397 Samtrans	5 Days/Week 1:23 a.m. - 5:36 a.m.	7	Palo Alto Transit Center, Bay/University, Middlefield/5th, Redwood City Transit Center, San Carlos Caltrain, El Camino/Hillsdale, El Camino/Burlingame, Millbrae Transit Center, SF Airport Courtyard A, Airport/Linden, Bayshore/Old County, Mission/7th, Mission/1st, and Drumm/Clay
398 Samtrans	7 Days/Week 5:17 a.m. - 11:03 p.m.	36	Redwood City Transit Center, El Camino/San Carlos, El Camino/ Ralston, Highway 101/3rd, SF Airport Courtyard A, San Bruno BART, Mission/7th, Mission/1st, and Drumm/Clay
ECR Samtrans	7 Days/Week 4:29 a.m. - 1:27 a.m.	142	Palo Alto Transit Center, Redwood City Transit Center, El Camino/ Brittan, El Camino/San Carlos, El Camino/Hillsdale, El Camino/5th, El Camino/Linden, SFO Airport Courtyard A, San Bruno BART, El Camino/McLellan, Colma BART, Mission/Wellington, and Daly City BART
Caltrain	7 Days/Week 5:15 a.m. - 12:53 a.m.	56	San Francisco, 22nd Street, Bayshore, So. San Francisco, San Bruno, Millbrae, Burlingame, San Mateo, Hayward Park, Hillsdale, Belmont, San Carlos, Redwood City, Menlo Park, Palo Alto, California Ave, San Antonio, Mountain View, Sunnyvale, Lawrence, Santa Clara, College Park, San Jose Diridon, Tamien, Capitol, Blossom Hill, Morgan Hill, San Martin, and Gilroy
Total VTA Bus Trips/Weekday		281	

* All buses and trains are lift equipped for handicapped, elderly, or those in need.

Route 61 stops at San Carlos Caltrain but is currently suspended due to COVID-19

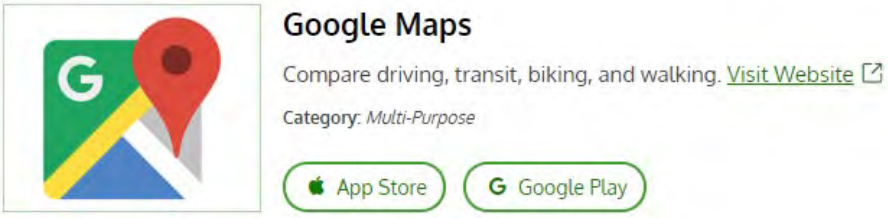
Walking Access Map

SamTrans Local Transit Map



Transit Trip Planning Resources

Online trip planning services are a helpful tool for planning bicycle, carpool, and public transit trips.

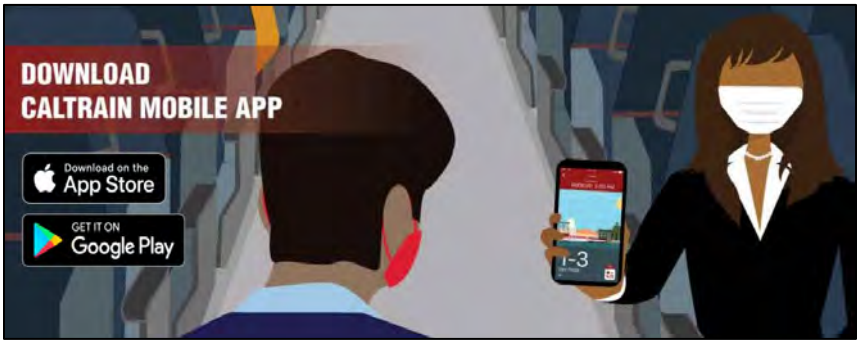


Google has also collaborated with select regional transit agencies to provide a public transit planner for riders of SamTrans, AC Transit, and BART. Employees can find free service online at www.google.com/transit.

The SamTrans mobile app is a valuable resource for commuters planning to ride on the SamTrans system. Commuters can use this app to pay bus fares, buy and activate tickets, see SamTrans departures, timetables, and routes.

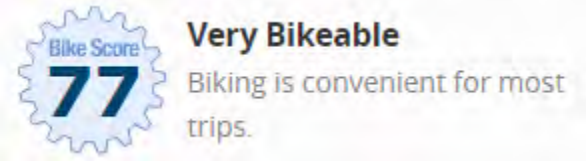
The Caltrain Mobile app offers commuters the ability to purchase and use fares instantly on their mobile phones.

For easy access to Caltrain's schedules and rider alerts, employees can download the CaltrainMe app.



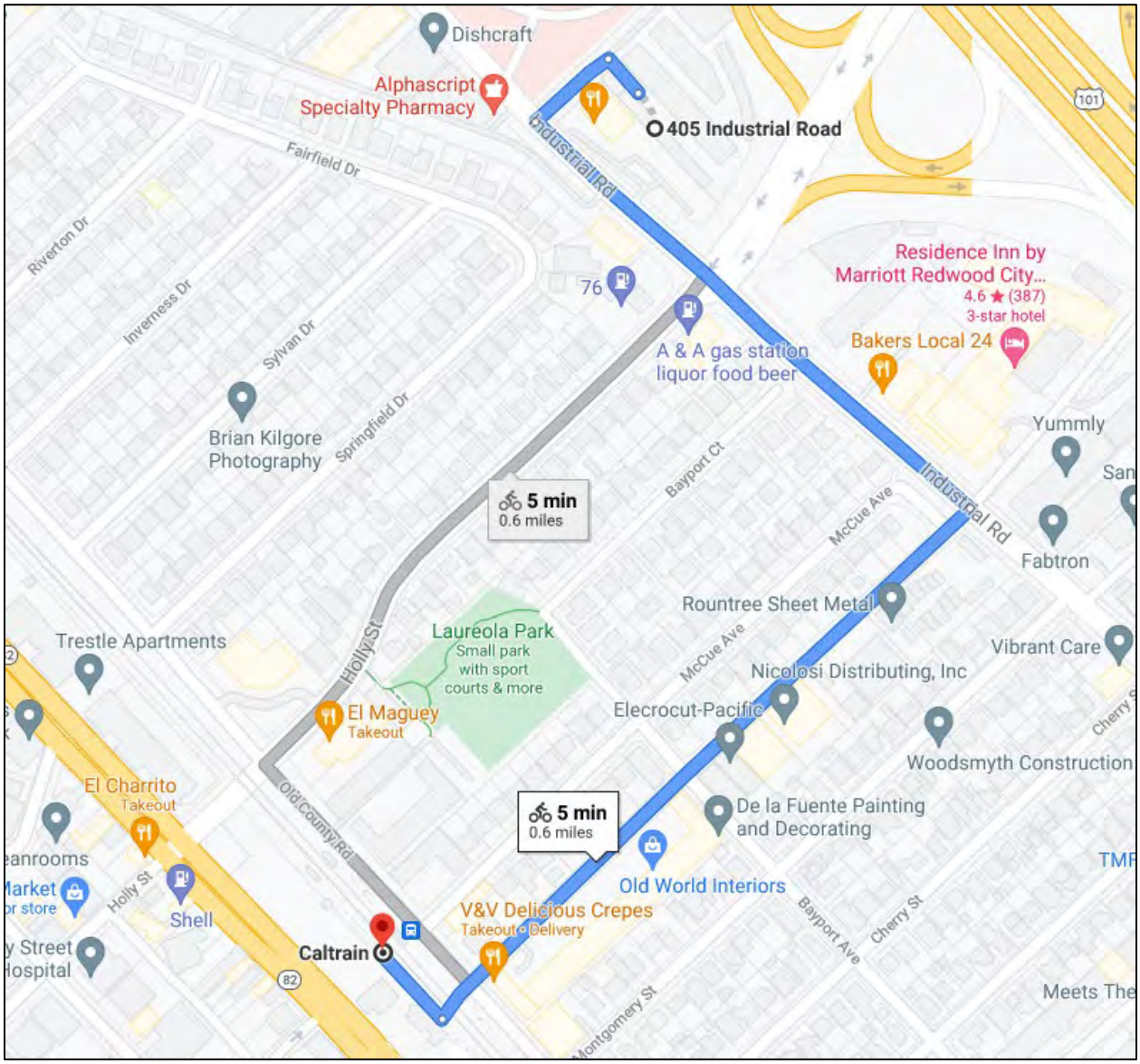
Bicycle Connections

Pedestrian and bicycle connections surround the Project. A suggested bike route along Industrial Road provides access to the Project. Industrial Road has a Class II bike lane connecting East San Carlos to offer a five-minute route from Caltrain to the Project. This local infrastructure helps the Project achieve a "Very Bikeable" score of 77.

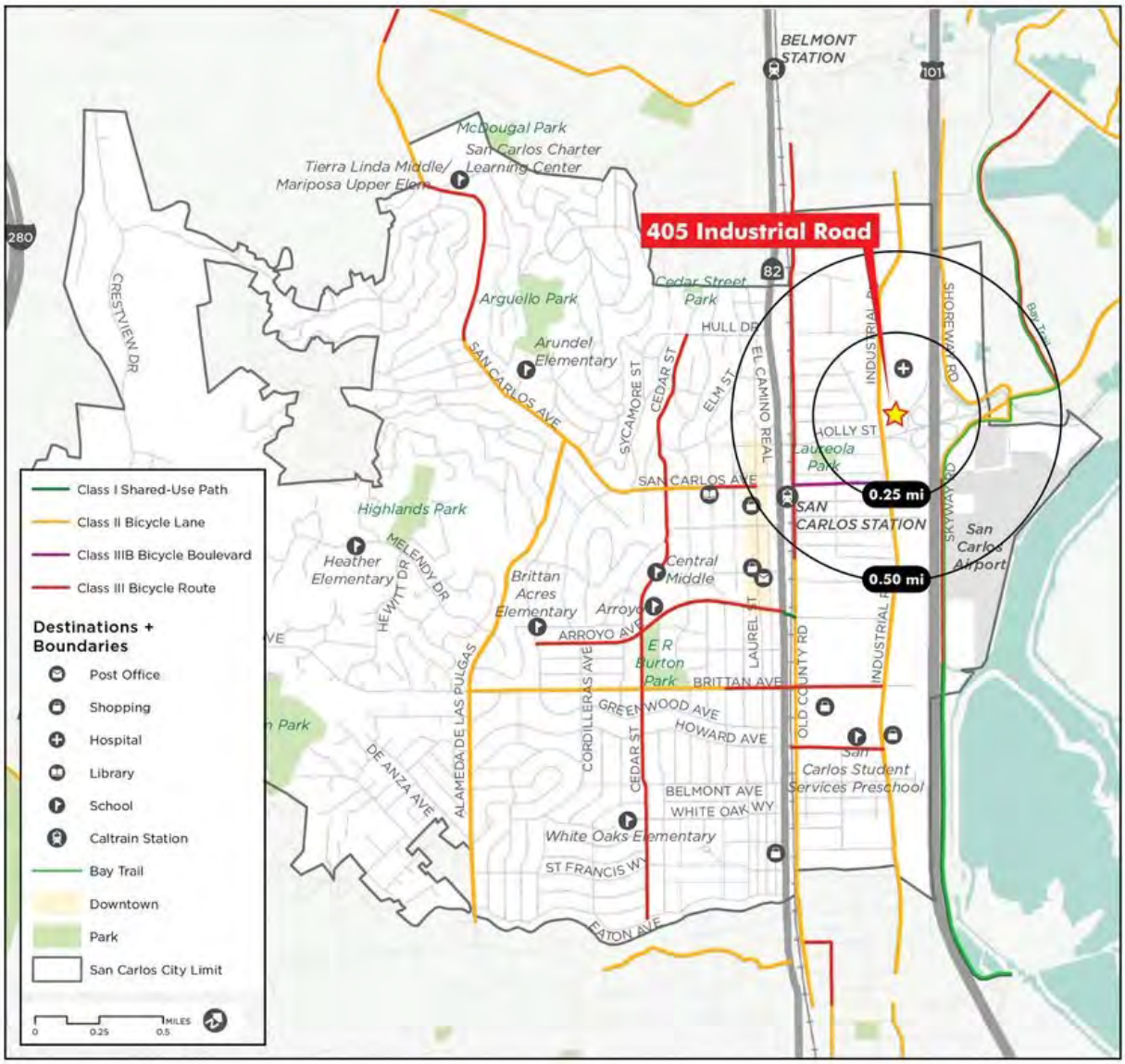


Below is a bike route map that shows the San Carlos Caltrain Station's short trip to the project site. A bike ride from the Caltrain station takes five minutes to accomplish. The San Mateo County Bicycle Map, shown on page 11, provides another view of nearby bicycle facilities.

Bicycle Route from San Carlos Caltrain Station



San Mateo County Bicycle Map



Bicycle Commuter Resources

In partnership with a nationally certified League Cycling Instructor (LCI), Commute.org offers free bicycle safety workshops for employers.

Workshops are available during lunchtime, late in the workday, or even after work.

Tenant employers will have access to this annual bicycle safety workshop for their employees.

Tenant employees who are bicycle commuters will find cycling information can log on to https://511.org/biking. The 511 system provides significant resources for bicycle commuters, including:

- Bicycle maps
- Location of bike lockers
- How to take your bike on public transit
- How to take your bike across Bay Area toll bridges
- How to ride safely in traffic
- Tips for bike selection
- Links to bicycle organizations
- Bike to Work Day
- Bike Commute Calculator
- Tips on bike commuting

TDM Planning

The following comprehensive TDM Plan addresses employee commute trips typically associated with a research and development biotech project. The TDM Plan contains appropriate measures and elements that are consistent with other Peninsula and regional commute programs.

This TDM Plan encompasses an array of alternative transportation mode-use strategies categorized in the following three sections:

I. TDM Infrastructure and Physical Measures
II. Programmatic TDM Measures
III. TDM Monitoring and Reporting

SECTION I – TDM INFRASTRUCTURE AND PHYSICAL MEASURES

The following physical infrastructure measures support commuters who use alternative transportation. These TDM Plan components will be installed or coordinated during the construction of the Project.

Infill Development

The proposed Project would develop under-used parcels within the existing urban area. As a result, the area surrounding this Project is mainly improved. Under these conditions, the Project would be considered infill development, which contributes to trip reduction outcomes. According to the City/County Association of San Mateo County governments, infill development can reduce peak-hour vehicle trips by two percent.[6]

Encourage infill development.	Two percent of all peak hour trips will be credited for each infill development.	Generally acceptable TDM practices (based on research of TDM practices around the nation and reported on the Internet).

Building Design

Building design will enhance pedestrian continuity by:

- Recessing door and window features of the building to further the walkable area of the pedestrian pathways
- Incorporating landscaped areas to serve visitors and passersby at the entry to the building
- Maintaining and improving the existing pedestrian access from Industrial Way to the building entrance
- Increasing adjacent pedestrian landscaping to create an inviting pathway
- Generously landscaping building entrance to encourage passenger drop off, bike parking, and pedestrian access to the building

[6] City/County Association of Governments (CCAG) of San Mateo County's Congestion Management Program.

4.0 BICYCLE FACILITIES

The project will provide a total of eighty-two (82) bicycle parking facilities, meeting the requirements outlined in San Carlos Municipal Code Chapter 18.20.[7] Silicon Valley Bicycle Coalition offers guidelines to assist new and existing building projects in their bicycle planning efforts. Attached at the end of the document is a matrix that displays how this Project meets the Silicon Valley Bicycle Coalition guidelines for enhancing people's ability to bike to and from the location.

Long-Term Bike Parking

The project will provide at least 41 Class I secure and covered bicycle parking facilities, representing ten percent of the total vehicle parking spaces provided. A Class I bike parking room will contain these bike parking spaces in a covered, secure location in the project garage. The caged area can expand to accommodate more bike parking for future needs. Photos of a sample bike room are shown to the right.

[7] https://www.codepublishing.com/CA/SanCarlos/html/SanCarlos18/SanCarlos1820.html

Short-Term Bike Parking

The Project will provide at least 21 short-term parking bike racks (Class II) containing parking space for 42 bikes. San Carlos Municipal Code Chapter 18.20 mandates that developments provide short-term bike parking for ten percent of the required vehicle parking spaces.

Cyclists will secure the frame and wheels of the bike to the short-term racks located near building entrances and within a visual range.

Enhanced Bicycle Parking

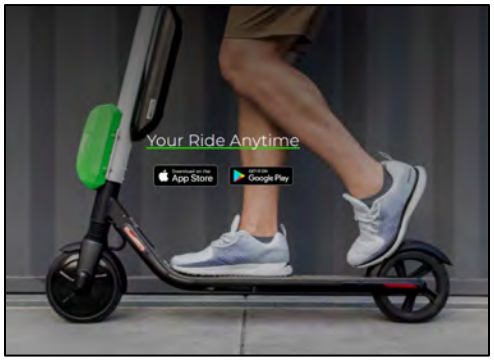
The Project will increase the number of long-term storage facilities by 100 percent of the number required by both CalGreen and the San Carlos Municipal Code. Ample bicycle facilities will encourage building occupants to use cycling as a commuter option and provide many cyclists' capacity to store their bikes throughout the workday.

Wayfinding

The Project will facilitate wayfinding for bicyclists by providing signage to help commuters navigate to bicycle lockers, changing facilities and showers, and the surrounding area's bicycle infrastructure network. Clear signage and wayfinding systems encourage bicycling by highlighting the presence of infrastructure designed to support bicyclists.

Public Bikeshare Program Hub - Conceptual

If the City establishes a public bikeshare program, the project may host a parking hub for bikes and scooters. Bikeshare and scooter programs encourage people to use bicycles and scooters as options for first- and last-mile trips while minimizing traffic and parking congestion.[8]



[8] https://www.mountainview.gov/depts/pw/transport/pilot_bike_share_program.asp

Fix-it Bicycle Repair Station

The project will install a bicycle Fix-it station to provide cyclists the opportunity to conduct minor maintenance on their bikes. The Fix-it includes all the tools necessary to perform basic repairs and maintenance, from changing a flat to adjusting brakes and derailleurs. The tools and air pump are securely attached to the stand with stainless steel cables and tamper-proof fasteners. Hanging the bike from the hanger arms allows the pedals and wheels to spin freely while adjusting.

Showers and Changing Facilities

Showers and clothes lockers support employees who walk, jog, or bicycle to work or wish to change clothes after commuting via an alternate transportation mode. The project plans to install shower and changing facilities with direct access from the bicycle storage room. Shower and changing facilities will be provided free of charge for all employees.

5.0 PEDESTRIAN FACILITIES

The creation of a pedestrian-oriented environment ensures access between public areas while strengthening pedestrian and bicycle connections. Safe, convenient pedestrian connections are provided to the external street. Lighting, landscaping, and building orientation enhance pedestrian safety.

The project proposes a pedestrian access path from the southwest side of the property to the intersection at Holly Street and Industrial Road. This path would facilitate pedestrian access to surrounding nearby amenities and create a more walkable environment for commuters. Shown below is a rendering of the proposed pathway.

6.0 PARKING FACILITIES

The Project will be responsible for striping parking space pavement and providing appropriate signage for preferential carpool, vanpool, electric, and fuel-efficient parking throughout the site. The 405 Industrial Road Project accommodates parking for 422 vehicles total.

Carpool/Vanpool Parking

The project plans to dedicate ten percent of total parking stalls to carpool and vanpool spaces, resulting in 41 carpool parking spaces for rideshare parking. Ridesharing employees will have exclusive use of these spaces. The carpool and vanpool spaces will be closest to a building entrance or a prime location in the garage.

The carpool parking spaces may require policy development, employee registration, and permitting. Registered vanpools may receive a specially designated parking space.

Clean Air, Clean-Fuel Vehicle Parking

The project will also include clean-air parking spaces. The project will be responsible for construction, striping, and signage for the specialty parking space. A description of the designated parking space includes:

- There will be 72 clean-air vehicle parking spaces. The clean-air vehicle parking space will also accommodate carpool and vanpool striping and signage.
- Space will be in the parking areas closest to the building's employee entrances or prime locations in the garage.

In total, 20 percent of total parking is clean-air, electric, and carpool/vanpool parking. The designated parking spaces satisfy CalGreen standards, as well as City Municipal Code.

Electric/Plug-in Charging Facilities

The project anticipates dedicating 10 percent of total parking stalls for electric vehicle parking, resulting in 41 electric vehicle (EV) spaces. The applicant will pay for installing the EV charging stations and help coordinate with EV station operators the billing of EV users directly for charging electric utility costs.

Note: Electric vehicles are not a TDM measure and do not reduce vehicle trips. Electric cars tend to induce and generate drive-alone commuter trips.

Carshare Parking Space

The project will identify a parking space in a prominent location to designate a reserved carshare parking space. Vendors such as Zipcar may host an on-site vehicle here, allowing tenants access to a carshare vehicle.

Motorcycle and Scooter Parking Placement

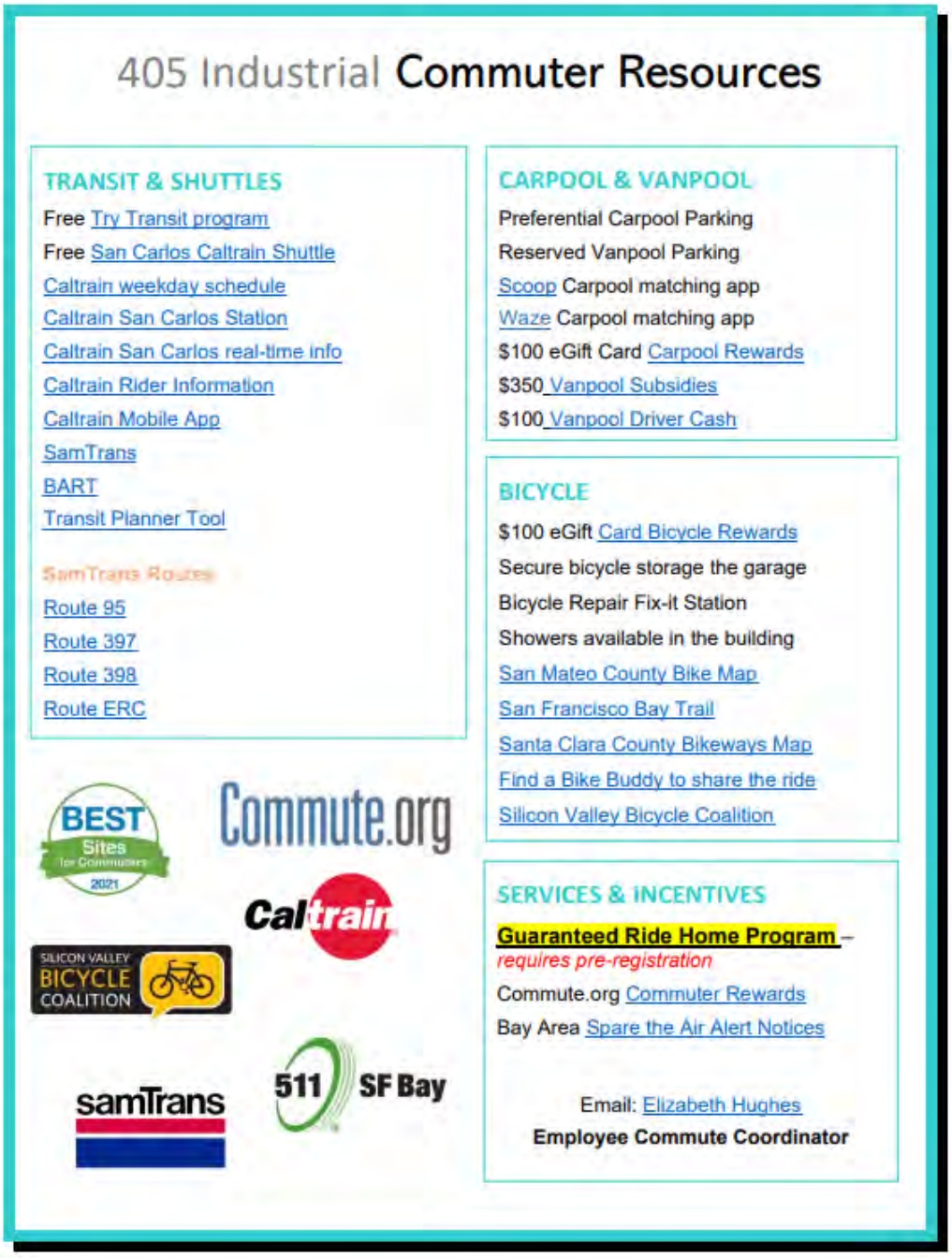
Providing designated, covered motorcycle and electric scooter parking will encourage the use of congestion-reducing vehicles. Promoting electric motorcycles and scooters enhances clean-fuel benefits and contribution to reducing vehicle congestion and parking demand. One percent of total parking may accommodate designated parking for motorcycles.

Passenger Loading Area

A loading/unloading zone will facilitate disembarking and embarking guests and rideshare passengers. Near the entry lobby, the passenger loading zone provides easy access for visitors, guests, shuttle riders, and staff. The Project provides a passenger loading zone and provides the appropriate signage for this facility.

7.0 EMPLOYEE COMMUTER RESOURCE FLIER

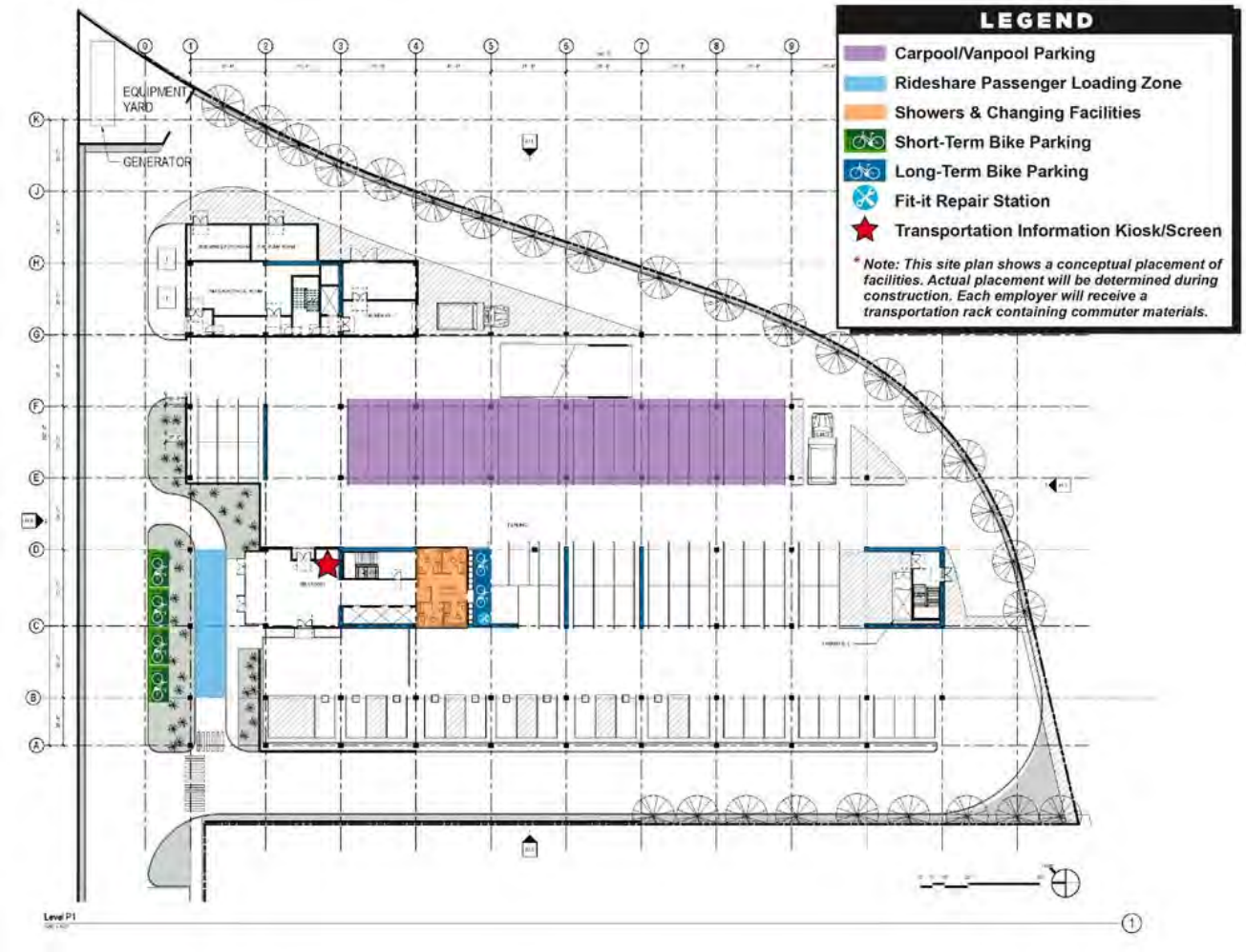
All future tenants will receive a reproducible and editable employee commuter flier. This flier will include (but is not limited to) information about carpool parking, transit opportunities, shuttles, bicycle routes, and on-site amenities and resources. The flier will promote commuter assistance, incentives, and rewards with links to helpful resources. Fliers will integrate with tenant/employer commuter benefits information. Shown below is a sample flier.



8.0 TDM SITE PLAN

The following TDM site plan shows the trip reduction design elements for the Project including carpool and vanpool parking, short and long-term bicycle parking, a bicycle repair station, a transportation information kiosk board, showers and changing facilities, and a rideshare passenger loading zone.

405 industrial Road – TDM Site Plan



9.0 ON-SITE AND NEARBY AMENITIES

Outdoor Amenity Space

The project includes several outdoor terraces that will act as an open space for eating and gathering. Providing a pleasant, on-site setting to take breaks and eat meals reduces employees' need to use a car throughout the workday.

On-Site Café

The project proposes adding an on-site café to serve food throughout the day. On-site cafes will enable employees to buy lunch without leaving the worksite and taking another vehicle trip. The café will connect to outdoor terraces and provide an appealing dining option for employees.

On-Site Exercise Facility

Per San Carlos Municipal Code, 18.25.040, the Project will include an on-site exercise facility for employees. This TDM measure enables commuters to leave the car at home by avoiding making an extra trip to the gym before or after the workday.

Nearby Amenities and Mobile Delivery Services

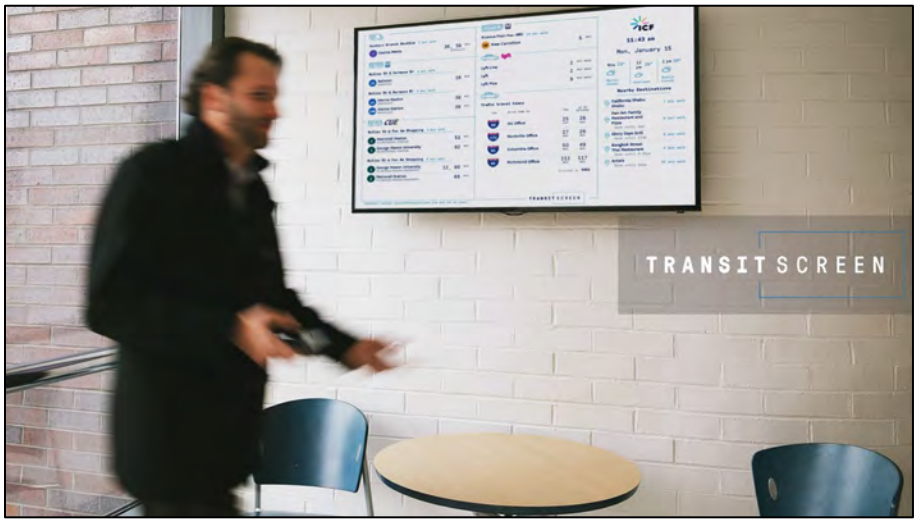
This Project has several delivery services and amenities nearby. Included in an attachment is a document containing over ten food, grocery, and personal services within walking proximity of 405 Industrial Road. Mobile services may consist of lunchtime food trucks, mobile haircut services, etc.

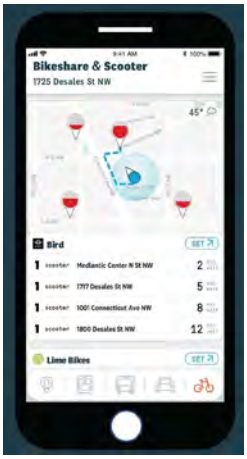
10.0 TRANSPORTATION AND COMMUTE INFORMATION KIOSK

The project will provide a transportation information kiosk in the building lobby. Easily accessible transportation information will be an essential component of commuter outreach and education for employees.

A transportation kiosk can be electronic, mobile, or a physical board containing bike maps, transit schedules, and carpool fliers. A physical unit can be wall-mounted or a floor-standing model.

Shown at the right is the mobile app version of an electronic TransitScreen. A TransitScreen app may better assist employees with their commuter planning needs.





SECTION II – PROGRAMMATIC TDM MEASURES

The following programmatic measures enhance the success of the TDM Plan. Upon implementation, they create the "405 Industrial Road Commute Program." Representing the Commute Program's various promotions and outreach activities, these measures are TDM components required of tenants and employers as part of their occupancy agreements. Implementation efforts represent the backbone of a successful commuter program.

11.0 APPLICANT COMMUTER PROGRAM MANAGEMENT

Property Management Transportation Coordinator Amenity

The Project will designate an on-site transportation coordinator responsible for implementing this TDM Plan and providing professional support to the project's tenant(s). The transportation coordinator will help plan programs and communications for the tenant before occupying the site as a building amenity. Pre-move engagement will assist employees with customized trip planning, registration for transit subsidies and commuter allowances, and program policies. The transportation coordinator will become a constant resource for tenants and their employees and remain a feature of the Project to meet the 20 percent reduction of vehicle trips.

The transportation coordinator will provide employer training, trip reduction and program information to employees, commuter program start-up assistance, and TDM Planning assistance, and arrange for annual monitoring and employee survey reporting through independent consultants. This support function's overarching goals are to reduce commute trips for employees, formalize tenant commute programs, and assist with employee marketing and outreach. The transportation coordinator will help property management prepare tenant materials for new employee orientation, production of kick-off events, coordination of carpool parties, commute e-news articles, employee assistance, and coordination of the annual transportation fair.

Coordination of Trip Reduction Programs with Existing Developments

The project's transportation coordinator will coordinate with nearby developments and employers to identify leverage or co-op commuter resources opportunities. For example, employees from nearby office sites may have similar schedules as employees of the Project. The transportation coordinator will investigate carpool matching options between the tenants and facilitate carpool candidates' introductions. Another example may be available seats on a vanpool established for project employees and invited to participate in the vanpool.

Parking Management: Technology Solution

The project may track and invest in a parking management solution such as Luum technologies or OneCommute to administer parking programs involving reservations, incentives, and performance tracking.

Parking Management Strategies: Reserved Vanpool Parking

The project will stripe and sign a limited number of reserved parking spaces for commuter vanpools. Commuter vanpool parking spaces will only be made available to employees from the building who vanpool as their commute option.

Parking Management Strategies: Preferential Carpool Parking

The project will stripe and sign a limited number of carpool parking spaces for commuter carpools.

Carpools must contain two or more participants who work at the building. A registration process, if implemented, will provide carpoolers with a special carpool parking permit.

Parking Management Strategies: Carpool Parking Policy

The use of carpool parking spaces may require policy development, employee registration, and permitting. Below is a sample carpool policy document the Project will use as a template if necessary.

Carpool Parking Policy

The Project encourages carpooling to promote healthy commute alternatives, improve air quality, and reduce parking demand.

To receive reserved carpool parking, you must arrive with at least one co-worker. To obtain a reserved carpool parking space, complete the following steps:

1. Identify your carpool partner(s) using one registration form. Download the carpool registration form on the Commuter portal.

2. Registration identifies your commute status and gives you access to the FREE guaranteed ride home (GRH) program and other benefits.

   - Registration is an annual process and will be audited each year.
   - Notify **commute@405-industrial.com** when there are any changes in your carpool group. For example, a carpool partner leaves the group or the company, or a new carpool partner joins the group.

3. Obtain your manager's signature on the registration form.

If you need additional assistance, please contact the Commute Coordinator at **commute@405-industrial.com.**

Email the completed carpool registration form to **commute@405-industrial.com** for review and processing.

4. Once approved, each carpool group will receive from the Commute Coordinator, a parking permit and will be eligible to use any specially marked carpool parking spaces in the garage.

   - Carpool parking spaces are striped, signed and may be numbered.
   - One carpool parking permit will be provided for each carpool group. Carpoolers must share the parking permit and hand the permit in the vehicle upon parking at the campus.
   - If you lose your carpool partner, notify the Commute Coordinator and return your parking permit to a receptionist.

5. Carpool parking spaces unused after 1:00 pm will be open to the general population.

6. Carpoolers who do not participate in the annual Campus Commute Survey and verify their carpool activities will be removed from the carpool program for non-compliance.

Bike Friendly Business Recognition

The project may seek a Bicycle Friendly Business award. Bikes are beneficial for businesses, employees, and residents. The Bicycle Friendly Business program recognizes projects to encourage a more welcoming atmosphere for bicycling residents, customers, and the community.

Silicon Valley Bicycle Coalition

405 Industrial will integrate Bicycle Friendly Development Guidelines provided by the Silicon Valley Bicycle Coalition (SVBC). The guidelines identify bicycle planning efforts while also setting a standard for what a Bicycle Friendly Development means.

The project is planning to enhance commuters' abilities to bike to work. The project will educate commuters about the bicycle-friendly amenities within and surrounding the project. The guiding principle asks, "is the development going to enhance people's ability to bike?" Attached at the end of the document is a summary of the project's bicycle features that meet SVBC's guiding principles. 405 Industrial plans to implement 20 bicycle features identified in the SVBC development guide.

Best "Site" for Commuters National Recognition

The project will seek a Best "SITES" for Commuters (BWC) certification. The Best Workplaces for Commuters program provides qualified sites with national recognition and an elite title for offering outstanding commuter benefits. Residential locations, employers, and developments that meet the National Standard of Excellence in commuter benefits can get on the list of Best Workplaces for Commuters. As a development site, 405 Industrial Road will be eligible for a national Best "SITE" for Commuters designation.

Commute Information Web Portal/Intranet

The property management will establish comprehensive transportation and commute information website for employees. The portal will contain transportation information, resources, and links, including promotions, incentives, Bay Area Spare the Air notices, guaranteed ride home information, transit schedules, 511 ride-matching, and other related information.

12.0 TENANT COMMUTER EMPLOYEE BENEFITS

Bay Area Commuter Benefits Program

Tenant employers will be connected to the Bay Area Commuter Benefits Program as required by state law. Tenants with 50 or more employees are required to register with the Bay Area Commuter Benefits Program.

Air District Regulation 14, Rule 1, also known as the Bay Area Commuter Benefits Program, requires employers with 50 or more full-time employees to register and offer commuter benefits to their employees. Benefits may take the form of pre-tax options, transit subsidies, telework, or more. The purpose of this rule is to improve air quality, reduce emissions of greenhouse gases and other air pollutants, and decrease traffic congestion in the San Francisco Bay Area by encouraging employees to commute to work by transit, bike, carpool, or different commute modes including use of tele/remote work.

Transit Subsidies

The applicant will encourage tenants to offer all employees a transit subsidy or a transit pass for commuting to the project site. A transit subsidy program may include participation in the Caltrain GoPass or SamTrans Way2Go program or a comparable transit subsidy or commute allowance program.

To be successful, the future tenant will need the flexibility to choose the type and amount of transit subsidy and incorporate benefit programs that best suit their employees' needs. Subsidies should be equivalent to the cost of a three-zone Caltrain monthly pass. Employer(s) may provide subsidies in tandem with the pre-tax payroll deduction program.

Caltrain GoPass:
The Caltrain Go Pass program allows companies to purchase annual unlimited-ride passes for all eligible employees. A Go Pass sticker affixes to an approved identification badge, and the user presents it on the train as proof of payment. The Go Pass is valid for travel on Caltrain between all zones, seven days a week, for one low annual cost per user.[9]

[9] http://www.caltrain.com/Fares/tickettypes/GO_Pass.html

SamTrans Way2Go:
The SamTrans Way2Go program allows companies to purchase annual unlimited-ride passes for all eligible employees. Customers simply swipe their Way2Go Pass through the farebox when boarding SamTrans. The Way2Go Pass is valid on all SamTran's fixed-route services. The Way2Go Pass is valid for a calendar year and expires on December 31 each year.[10]

Vanpool Subsidies

The applicant will encourage tenants to offer vanpool subsidies equivalent to the amount provided to transit riders. Employees can form vanpools through a vendor such as *Commute with Enterprise* and utilize a subsidy to cover gas, parking, and more. Vanpool subsidies may also be provided in tandem with pre-tax payroll deductions. Combining vanpool subsidies with existing subsidies through Commute.org and MTC 511 can significantly lower the vanpool cost for commuters.

Pre-tax Transit Payroll Deduction

The office tenant(s) will offer a transit and vanpool pre-tax payroll deduction option as a way for employers to provide transit and vanpool expenses on a tax-free basis. The monthly cap for the transit and vanpool benefits is now $270/month as of 2020. The transit and vanpool pre-tax benefit are a valuable and easy tool for employers to provide their employees.

Employees elect to withhold funding from their paycheck to use to purchase fare media for transit or vanpools. The employee received the payroll amount withheld untaxed, and the employer does not pay employment taxes on those funds. The transit and vanpool pre-tax benefit help reduce congestion, increase transit ridership, and improve air quality.

Pre-tax Parking Payroll Deduction – Optional

The office tenant(s) will offer a parking pre-tax payroll deduction option as a way for employers to provide parking expenses on a tax-free basis. The monthly cap for the parking benefits is now at $270/month as of 2021.

Employees elect to withhold funding from their paycheck to purchase payment media for parking expenses incurred at transit stations. The employee's amount withheld is untaxed, and the employer does not pay employment taxes on those funds.

[10] http://www.samtrans.com/fares/faretypes/Way2Go_Program.html

Carpool Commuter Allowance

The applicant will encourage tenants to partner with a carpool matching technology company such as Scoop or Waze and provide carpool allowances. Employees will receive a monetary incentive by signing up with their work email addresses to drive or ride in carpools through Scoop.

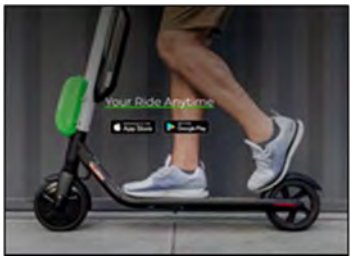
- Drivers will receive a small cash reward for each carpooling trip they take to work.
- Riders will receive a partial or complete subsidy on rides requested to or from work.

The Scoop carpool partnership program provides carpool riders who do not match for a ride home with a Lyft credit from Scoop. Ridesharers may leverage these subsidies in conjunction with existing incentives from Commute.org and 511.org

Private Internal Bike Fleet

The applicant will encourage tenants to operate an internal bikeshare program to loan bicycles to employees for weekday commuting. A small bicycle fleet may contain electric bicycles and enable commuters to try out a bike commute without purchasing a bike.

Regional Bikeshare Participation – Conceptual



If the City establishes a public bikeshare program, the applicant will encourage tenants to promote and offer discounted rides for bicycles and scooters to employees. Bikeshare and scooter programs encourage people to use bikes and scooters as options for first- and last-mile trips while minimizing traffic and parking congestion.

Bicycle Commuter Allowance

Like carpool commuter allowances, the Commuter Concierge will encourage the tenant(s) to provide employees with a reimbursable allowance for bicycle gear purchases. Bicycle maintenance and upkeep can be costly when used to commute every day. A bicycle allowance will help commuters cover the costs of some of this maintenance.

Funding Contribution for Future Shuttle – Conceptual

Commute.org operates several shuttles in San Mateo County that specifically serve transit and significant employer sights. Typically, these shuttles receive funding through partnerships with employers and developments along the route. If this becomes a future possibility, the project and tenant will consider contributing funding towards a shuttle program through Commute.org if a

shuttle stop can be provided at the project site. Such a shuttle program would provide a critical option for a last-mile solution from local transit centers to the project site.

Telework/Remote Work

The tenant(s) will allow their employees to work remotely when viable. Telework infrastructure and equipment ensure that teleworkers enjoy fast, smooth data transmission between their workplace and telework office. Telework options reduce or eliminate the need for commute travel to the office.

Alternative Work Schedule – Flextime, Compressed Workweek

The office tenant(s) may offer their employees the option to use an alternative work schedule. An alternative work schedule may include a compressed workweek (e.g., four-day week) option or flextime (e.g., adjusting work hours to fit arrival and departure times).

A compressed workweek lets employees work longer hours but shorter weeks. The shortened workweek and shifted hours may help employees avoid rush-hour traffic and reduce commute days. Employees also have an additional day for leisure activities, personal business, and family time.

Typical compressed work options include a 9/8/80 workweek and a 4/10 schedule. A 9/8/80 work schedule is eight, nine-hour workdays (72 hours) plus one eight-hour day, totaling 80 hours over two weeks. This program allows employees to have one day off every two weeks. A 4/10 schedule enables the employee to work four 10-hour days per week. Employees typically are divided into two groups: one group works Monday through Thursday; the other group works Tuesday through Friday.

Flextime provides versatility, enables employees to use rideshare options conveniently, and avoids traffic congestion and transit crowding. It is also an attractive employee recruitment tool that allows employees to work around childcare or school schedules. To maximize alternative mode use, the Project tenant(s) will prefer alternative work schedules to employees who use an alternative transportation mode.

13.0 TENANT COMMUTER SERVICE & RESOURCES

Tenant(s) may coordinate with Commute.org to develop employee commute programs and services. As written in the lease agreement, the tenant will provide a designated TDM contact, participate in the emergency ride home program (ERH), and engage in the annual commuter survey.

Designated TDM Contact/Employee Commute Coordinator

The tenant will identify a designated TDM contact to implement the TDM programs described in this plan. The specified employer contact will maintain commuter information, marketing,

and outreach and help administer the annual employee commuter surveys. The employer contact may be the employee transportation coordinator (ETC), whose role will be to manage and monitor the alternative commute program. The ETC's primary responsibility will be implementing many of the programs and features described in the TDM Plan. The ETC will be responsible for providing ongoing commute assistance to employees, producing on-site transportation fairs and promotional events, collaborating with Commute.org and 511 to maximize rideshare resources, conducting the annual survey, and creating the yearly commute report.

The ETC will provide the following services:

- Promote trip reduction and air quality strategies to employees at the Project site;
- Maintain membership in the TMA and promote the emergency ride home program to employees;
- Be the main point of contact for tenant/employer and employees who wish to commute using an alternative transportation mode;
- Work with local agencies such as Caltrain, SamTrans, BART, Ferry, Commute.org, 511 Rideshare, Silicon Valley Bicycle Coalition, and the Bay Area Air Quality Management District (BAAQMD);
- Post informational materials on the company Commuter Webpage, transportation kiosks and disperse alternative program information to employees via designated employer contacts, posters, flyers, banners, e-newsletters, new employee orientation, etcetera;
- Participate in the BAAQMD Spare the Air program to encourage employees not to drive to work alone;
- Provide timely transit alerts to riders of BART, SamTrans, Ferry, and Caltrain;
- Coordinate various aspects of the program that require periodic updating or monitoring, such as the guaranteed GRH program, car and vanpool registration, parking enforcement, and locker assignment and enforcement; and,
- Develop and manage the company transportation and commute information webpage. The webpage will contain transportation information, resources, links, promotions, incentives, prizes or awards, spare the air notices, transit links, 511 ride-matching, and other related information.

Alternative transportation programs will be presented to commuters proactively, just like any other employee program, such as participating in and supporting employee orientation forums or transportation fairs, transportation kiosk posting, employee newsletters, management bulletins, emails, etc.

An employee commute program is a big-picture process that explains the area's air quality problems and describes how fighting air pollution is part of being a good corporate citizen. The employees must recognize the benefits on a personal and community level to see how they gain better air quality: less traffic congestion on the highways and the surrounding neighborhoods, fewer parking hassles, and cost savings for employees, among other benefits. The ETC will work to build employee participation in the commute programs.

Clipper START Discounted Pass

The Metropolitan Transportation Commission (MTC) initiated a new means-based fare discount program for eligible low-income adults. Clipper START discounts range between 20 and 50 percent, depending on the transit agency. The ETC will promote this program to employees. More information is available at https://www.clipperstartcard.com/s/.

Clipper Card Grants Up to $7,500

The Bay Area Air Quality Management District offers income-qualified Bay Area residents a grant to retire their older car and replace it with an electric bicycle or Clipper Card for public transit containing $7,500. The vehicle must be 15 years or older to qualify, and income limitations determine the grant amount. Bay Area residents must complete an application to verify eligibility.

More information is available on the Air District's Clean Cars for All webpage. The ETC will promote this program to employees.

Try Transit Passes

The ETC will promote Commute.org's Try Transit Passes for employees considering switching to transit use. Drive-alone commuters can apply for free tickets on a transit mode that is practical for their commute. Helping incentivize commuters to start a different commute mode is critical to shifting behavior from driving alone.

Guaranteed Ride Home Program

The My.Commute.org STAR program offers employees access to use the free guaranteed ride home (GRH) program. Employees who enroll in the program (who do not drive alone to work) will receive a reimbursement for the cost of an Uber or Lyft ride home. The GRH trip reimbursement provides up to $60 per ride (for a maximum of four trips per eligible commuter per year).

The GRH program is incorporated in the Commute.org STAR Platform and requires users to be registered in advance to participate in the program.

WHO IS ELIGIBLE FOR A GRH REIMBURSEMENT?

- Must be 18 years or older
- Must work or go to a participating college in San Mateo County
- Used an alternative to driving alone to get to work or college on day GRH is needed
- Must have a STAR account and log trip to work or college on my.commute.org

WHAT TYPES OF EMERGENCIES ARE ELIGIBLE FOR A QUALIFIED GRH TRIP?

- Personal or family illness or emergency
- Home emergency
- Eldercare or daycare emergency
- Bicycle theft or breakdown
- Unforeseen change of work schedule
- Inclement weather (for walkers/bicyclists)
- Carpool partner emergency resulted in loss of ride home

WHAT TYPES OF TRIPS OR REASONS ARE NOT COVERED?

- Transit delays
- Natural disasters
- Personal errands or appointments
- Ride to work
- Using a ride-hailing app (e.g. Uber or Lyft) to work or college is not a qualifying alternative commute mode
- Carpool app provider cannot find a match to get the commuter home
- Non-emergency side trips
- Business related travel
- Transportation to a doctor or hospital resulting from an on-the-job injury (GRH cannot be used to replace an employer's legal responsibility under workers' compensation regulations.)

HOW WILL I GET HOME?

GRH program participants decide how to get home (e.g. taxi, ride-hailing app, transit, or combination).

GUARANTEED RIDE HOME
COMMUTE.ORG

HOW DO [illegible] EMENT?

STAR users can redeem a GRH reimbursement request via the incentives area in their STAR account. Participants must complete questionnaire provided in reimbursement request and provide GRH trip receipt(s) to receive reimbursement.

Reimbursement requests must be submitted within 30 days of GRH trip.

Visit Commute.org and click on the Guaranteed Ride Home button for program rules and limitations.

Scheduled Mobile Bicycle Repair Service

The tenant's ETC may coordinate periodic mobile repair services for its bike commuters. Mobile repair and services companies (e.g., Velofix, Beeline Bikes) will travel to the Project site and provide on-site repair and maintenance services for cyclists.

Annual Bike Safety Seminar

The tenant(s) will coordinate with Commute.org to host an annual bicycle safety presentation. Commute.org, in partnership with a nationally certified League Cycling Instructor (LCI), offers free bicycle safety workshops. The workshop covers practical and safety information, including:

- Planning your route, including connections to rail and water transit stations
- Equipping yourself and your bike
- Ways to communicate with other road users safely and confidently
- Using Google Maps to explore route options
- Other resources include the San Mateo County's bikeways and safe cycling booklet

Access to MTC $350 Monthly Vanpool Subsidy

The tenant(s) will inform their employees about the $350 monthly vanpool subsidy available from 511.org and the Metropolitan Transportation Commission (MTC). The Bay Area 511 Vanpool Program partnered with Commute With Enterprise to provide an all-inclusive option to make vanpooling easy. A Commute With Enterprise vanpool comes with a newer model, low-mileage van, or SUV, with roadside assistance and maintenance included.

Commute.org Vanpool Subsidy

San Mateo County $100 New Vanpool Participant Rebates – Commuters who live or drive through San Mateo County can participate in the vanpool incentive program. Commute.org will reward vanpool commuters with up $100 when they log their vanpool trips on the commute.org STAR portal as an incentive for vanpooling. The tenant ETC will promote this subsidy to employees

Carpool and Vanpool Ride-matching Services

Tenants will promote free ride-matching services. The ETC will actively match potential vanpool partners using employee zip code data. Matched vanpoolers can lease vanpool vehicles with Commute With Enterprise. Additionally, San Francisco Bay Area 511.org works with private ride-matching companies to provide commuters with alternative ridematching resources. A sample of ridematching apps include the following:

Merge

The best way to find a long-term carpool partner is with Merge. You will be matched with someone along your route, agree on days to carpool, and keep that same partner as long as you like. There are no built-in charges to use the service or carpool. Register here.

Scoop

Automated matching ideal for morning and evening work commutes. Download Scoop and set up your carpool preferences today.

Waze Carpool Driver

The popular navigation app allows drivers to offer carpools to riders. Click "Carpool" in the bottom right of your screen to access and fill out a driver carpool profile and you're on your way to driving a carpool.

Waze Carpool Rider

Users coordinate their own carpools by selecting from available drivers. Download Waze Carpool today to get started.

Carpool Incentive Programs

- Carpool (HOV) Lanes – Carpool lanes, also known as high-occupancy vehicle (HOV) lanes, can reduce commute times. The use of carpool lanes during commute hours requires commuters to be in a carpool, vanpool, public transit vehicle, or riding a motorcycle. Carpool lanes vary in their hours of operation and the minimum number of people per car. A list of HOV hours of operation and restrictions is available at https://511.org/carpool-vanpool/carpool/lanes.

- Park and Ride Lots – 150 free park-and-ride lots conveniently located throughout the Bay Area, where carpool partners or vanpools can meet in a central location. Many lots also feature easy access to transit connections and bike lockers.

- Merge 511 Rewards – Carpoolers can log their trips on the https://merge.511.org/#/ website to earn rewards. Commuters receive a $25 e-gift card for every 25 carpool trips completed.

- San Mateo County Carpool Commuters $100 Reward – Employees who live in or commute through San Mateo County can participate in the Commute.org $100 carpool incentive program. Employees who have ten days of carpooling activities and log or track their carpool trips in the STAR program may receive a $25 e-gift card, up to $100.

Bicycle Incentive Programs

The ETC will promote access to the Commute.org $100 bicycle reward incentive. Commuters that log their bicycle trips on the Commute.org website will be eligible to receive up to $100 in e-gift cards per year. For every ten bicycle commutes, employees earn a $25 e-gift card.

E-Bikes for Everyone

Income-eligible employees that live in San Mateo County may participate in the Peninsula Clean Energy E-Bike promotion. Qualified participants can receive up to $800 off the purchase of a new electric bicycle while funding is available. The ETC will promote this program to employees.

14.0 TENANT COMMUTER MARKETING & OUTREACH

Active and involved tenant-employers will generate positive impacts on the TDM Plan measures implemented. The tenant shall participate in the following commute alternative programs to increase transit use and reduce employees' need to drive alone to work.

New Employee Onboarding

A commuter program onboarding process will welcome and retain new employees. Onboarding may include pre-hire transportation planning and support to coordinate employee's transportation needs. A written summary of commuter programs and trip reduction goals clarifies the benefits available for new hiring candidates. Once hired, the onboarding process will include an overview of commuter benefits, systems, services, and resources. Registration forms will engage employees in the transit and vanpool subsidies, emergency ride home program, and bicycle resources. The ETC will provide personalized support during welcome events and one-on-one sessions when new employees start employment.

Commuter Marketing: Employee Transportation Fairs

Project tenants may host periodic transportation events or tablings. Tenants will include commuter information at company wellness or benefits fairs. The tenant's ETC will add tabling space to the employer's commute program to join these employee events when appropriate.

Commuter Marketing: Newsletter Articles and Emails

Periodic rideshare articles or emails will be written by the tenant's ETC for internal newsletters (if desired), with ongoing highlights of alternative commuters and their successes. Internal company notices and incentive promotions should attract commuters' attention, generate excitement about commuting alternatives, and reward those who rideshare.

The tenant's ETC will register with the BAAQMD for the Spare the Air program to receive regional air quality forecast bulletins about unhealthy air quality days. Employees will receive these email updates to encourage alternative transit modes during peak advisory periods.

Best Workplaces for Commuters

The tenant/employer(s) may seek a Best "SITES" for Commuters (BWC) certification. The Best Workplaces for Commuters provides qualified sites with national recognition and an elite designation for offering outstanding commuter benefits. Residential communities, employers, and developments that meet the National Standard of Excellence in commuter benefits can get on the list of Best Workplaces for Commuters. As an employer, the future tenant will be eligible for a Best Workplaces for Commuters designation.

Transportation Management Association Membership

Transportation Management Associations (TMAs) are typically private and nonprofit organizations run by a voluntary Board of Directors and a small staff. They help businesses, developers, building owners, local government representatives, and others work together to establish policies, programs, and services to address local transportation problems. The key to a successful TMA lies in the synergism of multiple groups banding together to address and accomplish more than any single employer, building operator, or developer could do alone.

In the City San Carlos, Commute.org (formerly the Peninsula Traffic Congestion Relief Alliance) operates as a TMA organization. Commute.org provides:

- Shuttle programs
- carpool and vanpool matching
- Parking management programs
- Trial transit passes
- Emergency ride home programs
- Enhanced bicycle facilities
- Car and vanpool incentives
- Transit advocacy
- information on local issues
- Teleworking
- Training
- Marketing programs
- Promotional assistance
- Newsletter

Participating in Commute.org is an asset for project tenants. Commute.org is a clearinghouse for alternative commute programs, incentives, and transportation projects affecting San Mateo County businesses.

Should the City of San Carlos establish a TMA that specifically addresses commuter and transportation, the Project tenant(s) will become a TMA member.

SECTION III – TDM COMPLIANCE, MONITORING, & REPORTING

A comprehensive program of TDM measures and incentives can reduce parking demand, traffic, and air pollution, creating a more sustainable employment environment while freeing up valuable land for higher and better uses.

Adequate parking, traffic congestion, and air pollution are critical concerns in maintaining a healthy city economy. Traffic congestion results in time lost to residents and commuters and increased demand for City fiscal resources for roadway construction and maintenance.

According to the U.S. Environmental Protection Agency, "mobile sources account for more than half of all the air pollution in the United States. The primary mobile source of air pollution is the automobile." "…today's motor vehicles are still responsible for up to half of all the emissions released into the air. "In the Bay Area, the transportation sector accounts for more than 50 percent of air pollution, and more than 40 percent of greenhouse gas emissions."[11]

15.0 COMPLIANCE, MONITORING, AND REPORTING

The TDM Plan expects to reduce SOV trips and lessen parking demand, traffic congestion, and mobile source-related air pollution. As written, this TDM Plan achieves at least a 20 percent reduction in vehicle trips. Per City of San Carlos Municipal Code Section 18.25.080, regular monitoring will be necessary to ensure that the implemented TDM measures effectively meet the 20 percent reduction requirement. The project applicant and on-site transportation coordinator will ensure that the TDM Plan is implemented each year and the annual monitoring report is submitted to the City of San Carlos.

Tenant Compliance Requirement

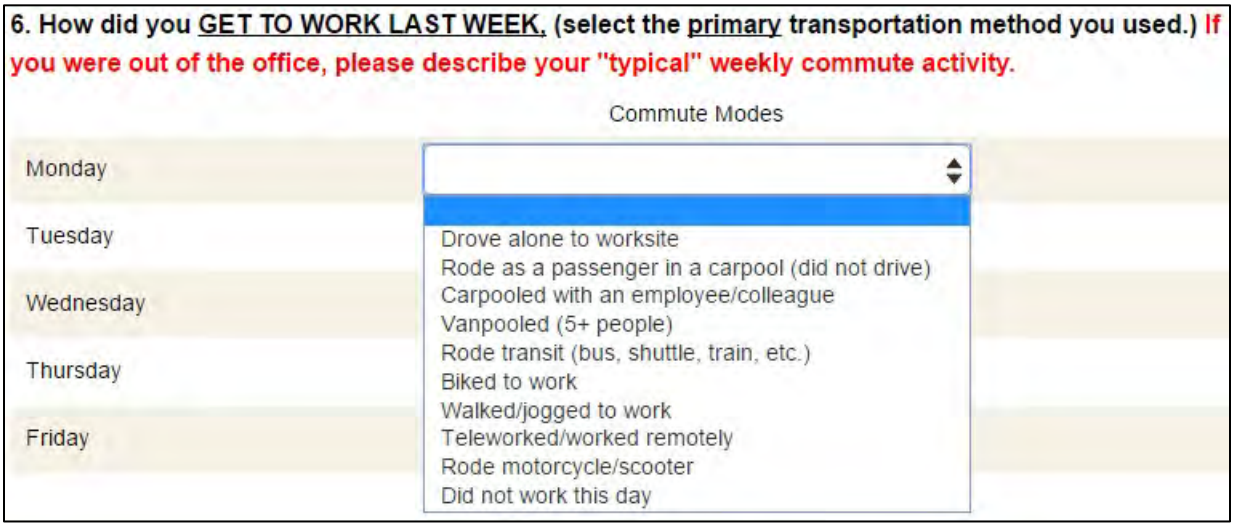
The project owner will disclose and provide a copy of this TDM plan to the future tenants, who will be encouraged to comply.

Annual Employee Commute Survey

Because the TDM Plan is performance-based, the transportation coordinator will arrange for an independent consultant (or out-sourced transportation coordinator) to perform an annual commute program evaluation (a five-day, weekday commute survey). The survey will determine employee transportation mode choice, which will allow the transportation coordinator, Transportation coordinator, tenant, and the City to assess the effectiveness of the unique program designed for this Project. Survey data can focus on marketing and outreach efforts to employees based on their specific commuter interests and satisfaction with property management.

[11] Bay Area Air Quality Management District, Aaron Richardson, Public Information Officer

The commute survey will be a critical part of the monitoring process to evaluate and ensure the TDM Plan's measures. By default, employees who do not participate in the commute survey will count as drive-alone or SOV commuters. Therefore, the results will be appropriately conservative. Shown below is a sample commute survey question. This annual commuter survey should be formatted as a general survey including non-transportation questions (e.g., satisfaction with property management, activities, etc.) to increase the response rate.



Driveway Hose Counts

At year three and five, the Project will conduct a peak-hour vehicle count using a driveway hose technology. The purpose of the count is to document the TDM Plan's effectiveness in achieving the required trip reduction. Driveway hoses or video cameras will be placed at all driveway access points during a one-week period to track daily trips and peak-hour trips.

Peak hour traffic counts will be conducted 7 a.m. to 9 a.m. and 4 p.m. to 6 p.m. on three non-consecutive days per year on typical weekdays during the fall when school is in session. Peak hour is defined as the hour when daily traffic volume is highest, which generally occurs during morning and afternoon commute times. Traffic counts will be obtained during AM and PM peak periods to define peak hours for those periods. The peak 60-minute period will be calculated for both the a.m. and p.m. peak periods. The highest number of net trips resulting from AM or PM peak hours will be used. Net trips will be calculated by subtracting trips for existing uses from those generated by the new Project.

An independent consultant will prepare the report and be paid for by the Project. The consultant will work in concert with the transportation coordinator and the ETC.

Annual Commuter Monitoring Report

Each year, the transportation coordinator, in cooperation with the tenant, will arrange for an independent consultant (or out-sourced transportation coordinator) to implement an annual employee commuter surveys, and document all findings in a TDM commuter monitoring report. The annual monitoring report will be submitted to the City of San Carlos by the Transportation Coordinator. The City will review the TDM Plan monitoring data to assess whether a 20-percent trip reduction goal is being met. This will be evaluated by comparing the driveway counts collected in years three and five to the trip targets of this TDM plan report.

The annual TDM monitoring report will include data from the employee commute survey. The summarized results from the employee survey will provide quantitative data (e.g., mode split) and qualitative data (e.g., employee perception of the alternative transportation programs).

The first baseline survey will be conducted one year after occupancy with subsequent employee surveys (and following annual surveys) in the fourth quarter of each year. The table at the right shows a *sample* summary of an employee commute survey.

Commuter Modes	% of Users
Carpool	11.8%
Transit (Caltrain, SamTrans)	4.2%
Bicycle	3.9%
Telework	3.6%
Uber or Lyft	1.9%
Vanpool	1.1%
Walk	0.2%
Estimated Commuters	**27%**
Drive alone commuters	73%

Should the 20 percent trip reduction goal not be met, the annual TDM commuter monitoring report will explain how and why it was not reached and specify additional measures and activities implemented in the coming year to improve the mode-use rate. Survey data help refocus TDM marketing, the ETC, and the Transportation coordinator's efforts, to maintain the Project's 20 percent trip reduction rate and commitment at the site.

The timeline for submittal of the monitoring report, reporting requirements, and next steps in the events the 20 percent trip reduction goal is not met is outlined below:

1) TDM Monitoring Reports: The initial TDM report will be submitted one (1) year after granting a certificate of occupancy. This requirement will apply to all tenant-occupied buildings on the property.

2) Report Requirements: The TDM program's goal is to encourage alternative mode usage, as defined in Chapter 18.25 of the San Carlos Municipal Code. The initial TDM report shall either:

   (1) state that the applicable property has achieved the trip reduction goal based on the number of employees in the building at the time, providing supporting statistics and analysis to establish attainment of the goal; or

(2) state that the applicable property has not achieved the trip reduction goal, explaining how and why the trip reduction target was not reached, and a description of additional measures adopted in the coming year to expand or enhance the TDM Plan.

3) Violations: If the City of San Carlos determines that the 20 percent trip reduction goal is not being achieved, additional TDM measures may be implemented. Modifications to the TDM Plan may include additional programs or substitute activities for achieving vehicle trip reductions. The annual TDM monitoring report will describe any planned modifications to the TDM program such that the 20 percent trip reduction is maintained or achieved by the following monitoring cycle.

   If the 20 percent trip reduction goal is not met based on a three and five-year review of TDM driveway trip count reports, the City may require more stringent TDM measures to be implemented along with a six-month monitoring schedule. Suppose the 20 percent trip reduction goal is not achieved by year six. In that case, the City may initiate a review of the building occupancy permit, conditional use permit, or enact other measures (including fines) to achieve a minimum of 20 percent trip reduction.

No Expiration of TDM Plan or Programs

All measures in this TDM Plan will continue to be implemented by the applicant on an ongoing basis. There is no expiration of this plan as it runs in perpetuity. The City of San Carlos may conduct periodic on-site auditing to ensure the implementation of the plan's TDM measures.

Trip Generation Estimate

No formal traffic study was prepared for this Project. However, the TDM Plan used the Institute of Transportation Engineers (ITE) guidelines to calculate the peak-hour AM and PM trips with the proposed new land-uses.

Below are daily and peak-hour ITE estimated trips assumed for the Project, along with the number of reduced vehicle trips expected. The estimated AM and PM peak-hour trips for this project total 178 (82+96). Accounting for the 20 percent trip reduction requirement, the project will need to reduce peak hour trips by 35 and daily trips by 439.

						AM Peak Hour				PM Peak Hour			
				Daily	Daily	Pk-Hr	Trips			Pk-Hr	Trips		
Land Use	ITE Code	Size	Unit	Trip Rate	Trips	Rate	In	Out	Total	Rate	In	Out	Total
Proposed Land Use													
Research & Development Building	760	195	ksf	11.26	2,197	0.42	61	20	82	0.49	14	81	96
Estimated Total Project Trips					2,197		61	20	82		14	81	96
Peak-hour trip reduction percent required					20%		20%	20%	20%		20%	20%	20%
Vehicle Trips reduction required					439		-12	-4	-16		-3	-16	-19
Total peak-hour trips (not to exceed)					2,636		49	16	66		11	65	76

Notes:

All rates are from: Institute of Transportation Engineers, *Trip Generation, 10th Edition*

1. Land Use Code 760: Research & Deveopment Building (average rates, expressed in trips per 1,000 s.f.)

C/CAG Trip Reduction Measures Checklist – Using Proposed C/CAG Updates

The City/County Association of Governments of San Mateo County develops bi-yearly Congestion Management Programs (CMP). These CMPs include a Land Use Guide that helps developments enact measures to mitigate vehicle trips associated with their projects.

C/CAG is currently updating their Land-Use Guide, and the likely calculation of vehicle trip mitigations using the latest proposed accounting system is estimated below. The points associated with each trip reduction measure represent the relative impact of the individual measure. C/CAG's proposed vehicle trip reduction impact using the project planned trip reduction measures is 40.5 percent.

The table below summarizes the C/CAG-applicable trip reduction measures, and their associated values, planned by this project and shows how the project plans to meet San Carlos's 20 percent trip reduction requirement. The proposed categories include required measures and recommended measures identified in this TDM plan.

Proposed C/CAG Trip Reduction Measures and Values

Trip Reduction Required Measures

TDM Measure Category	405 Industrial Project Feature	Measures	Measure Type	Proposed Point Value	Vehicle Trip Reduction Impact
Parking Management for Ridesharing	**Yes**	Free/Preferential Parking for Carpools	Programmatic	1	1.0%
TDM Management and Administration	**Yes**	TDM Coordinator/Contact Person	Programmatic	1	0.5%
	Yes	Actively Participate in Commute.org, or Transportation Management Association Equivalent	Programmatic	13 (following 5 measures are part of this)	16.5%
		Certified participation in Commute.org, or equivalent program such as a TMA			4.0%
		Commute assistance and ride-matching			1.0%
		Shuttle Program/Shuttle Consortium/Fund Transit Service			10.0%
		Guaranteed Ride Home			0.5%
		Orientation, Education, Promotional Programs and/or Materials			1.0%
Shuttles, Transit and Ridesharing	**Yes**	Carpool or Vanpool Program	Programmatic	3	2.0%
	Yes	Transit or Ridesharing Passes/Subsidies	Programmatic	8	10.0%
	Yes	Pre-Tax Transportation Benefits	Programmatic	3	1.0%
Active Transportation	**Yes**	Secure Bicycle Storage	Site Design	1	1.0%
	Yes	Showers, Lockers, and Changing Rooms for Cyclists	Site Design	2	2.0%
Site Design Initiatives	**Yes**	Design Streets to Encourage Bike/Ped Access	Site Design	1	1.0%
			Required Measures Points	**25**	**25%**

Additional Recommended Trip Reduction Measures

TDM Measure Category	405 Industrial Project Feature	Additional Measures	Measure Type	Additional Point Values	Vehicle Trip Reduction Impact
Employee Programs	**Yes**	Flex Time, Compressed Work Week, Telecommute	Programmatic	5	5.0%
Parking Management	No	Paid Parking at Market Rate	Programmatic	10	25.0%
	No	Short Term Daily Parking	Programmatic	2	2.0%
	Yes	Reduced Parking	Site Design	8	10.0%
TDM Management and Administration	No	Developer TDM Fee/TDM Fund	Programmatic	5	4.0%
Transit, Shuttles, & Ridesharing	**Yes**	Car Share On-Site	Programmatic	3	1.0%
	Yes	Land Dedication or Capital Improvements for Transit	Site Design	8	4.0%
		Bus Pullout Space		2	1.0%
		Bus Shelter		2	1.0%
		Visual/Electrical Improvements (i.e., Lighting, Signage)		2	1.0%
		Other (i.e., Micromobility Parking Zone, TNC Loading Zone)		2	1.0%
	Yes	Shuttle Program/Shuttle Consortium/Fund Transit Service	Programmatic	5	10.0%
Active Transportation	No	Bike/Scooter Share On-Site	Programmatic	2	1.0%
	Yes	Active Transportation Subsidies	Programmatic	3	2.0%
	Yes	Gap Closure	Site Design	5	7.0%
	Yes	Bike Repair Station	Site Design	1	0.5%
Site Design Initiatives	**Yes**	Pedestrian Oriented Uses & Amenities on Ground Floor	Site Design	4	3.0%
			Recommended Measures Points	**39**	**40.50%**
			CUMULATIVE TOTAL POINTS	**64**	**65.50%**

16.0 IMPLEMENTATION PLAN

The Transportation Coordinator will have primary responsibility for implementing TDM (commuter programs) at the site. Implementation of commuter facilities and programs will begin before the occupancy of the new buildings. The following outlines efforts to be taking during the initial implementation of this TDM Plan.

Establishment of a Tenant Program Implementation System

To ensure the TDM Plan's implementation, policies, and measures, formalizing programs, executive-level support in favor of commuter programs will be necessary. Executive support creates a synergistic relationship with Facilities, Sustainability, Communications, Security, and Human Resource departments, together with other corporate goals. The Transportation Coordinator will lead the implementation of programs with support from the tenant(s).

Tenant(s) Implementation

Implementation of the measures outlined in the TDM Plan involves the integration and engagement with the tenants. While ETC plays a leading role in implementing commuter programs, other employers will have a part to play in cooperation to promote and implement the measures jointly. During the planning implementation, a cross-departmental group communication mechanism will coordinate various departments to carry out the different action plans under this planning in an orderly manner. For example:

<u>Employers</u>

- Secure funding for the transit subsidy and vanpool programs and coordinate with Human Resources to initiate Commuter Check Direct online resources
- Host an on-site kick-off commuter event one week before occupancy of the site
- Update and refresh employee transportation website
- Work with Communications to prepare pre-occupancy messaging materials
- Coordinate with reception staff to help disseminate commuter information to employees

<u>Sustainability Team</u>

- Contribute rhetoric for marketing materials in support of reduced greenhouse gas emissions and benefits of commuter options
- Incorporate and link the commuter programs and annual reports with Sustainable messaging and planning

<u>Communications</u>

- Prepare communications, employee outreach, and marketing materials to announce the new transit subsidy and vanpool programs and refreshed employee commuter programs
- Develop and print the commuter brochure

- Prepare announcements and notices will be sent to future occupants of the site providing early information about on-site commuter features (e.g., bike parking, bike fix-it station, showers, commuter kiosk, and carpool spaces)
- Coordinate with Facilities to promote the annual online commuter survey

Employer Facilities and the ETC

- Provide carpool parking permit registration and monitoring
- Provide bike locker registration and monitoring
- Provide free guaranteed emergency ride home information for commuters in need
- Coordinate updates and refresh employee transportation website
- Work with Security to monitor and audit carpool and bicycle participants
- Coordinate annual driveway counting efforts
- Initiate the yearly online commuter survey

Human Resources

- Develop a written policy regarding the new transit subsidy program
- Provide employee pre-tax transit programs and benefits
- Manage and host employee transit subsidy program via Commuter Check Direct (or another online vendor)
- contribute rhetoric for marketing materials in support of employee benefits of commuter programs
- incorporate and link commuter programs and annual reports with Human Resource messaging and planning

The Project's site project shall have full implementation and operation of the TDM and commuter programs within six months of initial occupancy.

17.0 FINDINGS & CONCLUSION

As required by the City's Chapter 18 TDM Zoning requirements, "the proposed trip reduction measures [contained in this TDM Plan] are feasible and appropriate for the project." The TDM Plan will mitigate 20 percent of AM and PM peak-hour vehicle trips.

The TDM Plan accommodates "the proposed use or mix of uses and the project's location, size, and hours of operation." The "proposed performance [measures] ensures that the target alternative mode use [goal] … chapter will be achieved and maintained."[12]

The proactive 405 Industrial TDM Plan meets trip reduction rates and tenant transportation needs for the project. In addition, this TDM Plan identifies specific elements, measures, and

[12] (Ord. 1438 § 4 (Exh. A (part)), 2011)

actions that guide the project to promote existing resources and programs, enhance future benefits, and create a resident-focused program. Significant on-site amenities, employee outreach, ongoing marketing and promotions, a free guaranteed emergency ride home program, transit resources, and vanpool subsidies, and ETC services will provide the needed support for an effective and successful program at the project.

This TDM Plan describes TDM measures integrated to support tenant commuting and innovative efforts identified for implementation. It outlines the steps necessary (infrastructure, programming) for property owners and property management when marketing to tenants. Periodic program assessments will provide the information needed to demonstrate effectiveness and goal attainment.

The TDM Plan details this commitment by emphasizing TDM infrastructure, amenities, and outreach activities to reduce average daily trips. Ridesharing strategies maximize existing transportation resources, support the City's goals and objectives, and ultimately expand the transit system's reach for commuters.

The City of San Carlos promotes environmental stewardship in maintaining a safe, healthy, and sustainable city. It recognizes the importance of maintaining a stable climate system for current and future residents. By balancing these needs with economic growth, the 405 Industrial Road project will help San Carlos thrive.

Attachment A

Nearby Amenities

List of Nearby/Offsite Amenities
405 Industrial Road, San Carlos, CA

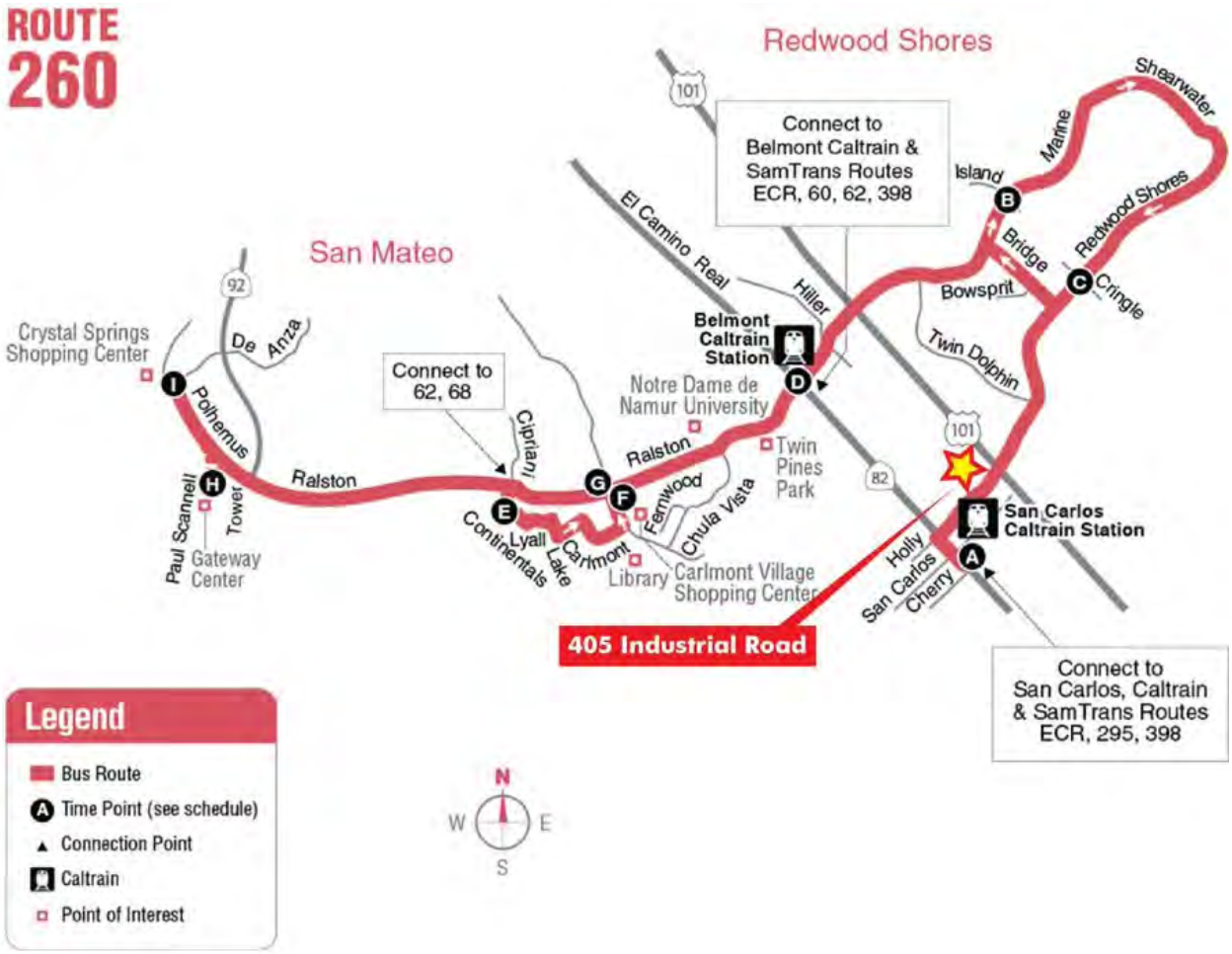
Restaurants, Cafes/Delis, Coffee, and Bakeries	Phone #	Distance Away
• **In-N-Out Burger** 445 Industrial Rd, San Carlos, CA	800-786-1000	446 ft.
• **Bakers Local 24** 551 Industrial Rd, San Carlos, CA		0.20 mi.
• **Chuck's Donuts** 495 Old County Rd, San Carlos, CA	650-522-0299	0.30 mi.
Retail	**Phone #**	**Distance Away**
• **PPG Paint Store** 476 Industrial Rd, San Carlos, CA	650-591-6656	0.10 mi.
• **Kelly-Moore Paints** 320 Industrial Rd, San Carlos, CA	650-595-1654	0.30 mi.
• **7-Eleven** 1080 Holly St, San Carlos, CA	650-592-1314	0.30 mi.
Health, Beauty & Fitness	**Phone #**	**Distance Away**
• **Sutter Urgent Care – San Carlos Center** 301 Industrial Rd, San Carlos, CA	650-596-4100	0.20 mi.
Transportation, Gas, Shipping & Storage	**Phone #**	**Distance Away**
• **76** 906 Holly St, San Carlos, CA	650-594-9167	466 ft.
• **A&A Gas Station Liquor Food Beer** 906 Holly St, San Carlos, CA		466 ft.
Banks & ATM	**Phone #**	**Distance Away**
• **ATM** 906 Holly St, San Carlos, CA		466 ft.
Daycare	**Phone #**	**Distance Away**
• **Little Troopers Child Care** 1032 Inverness Dr, San Carlos, CA	650-218-1009	0.60 mi.

Attachment B

Silicon Valley Bicycle Coalition Matrix

Attachment C

SamTrans Route 260

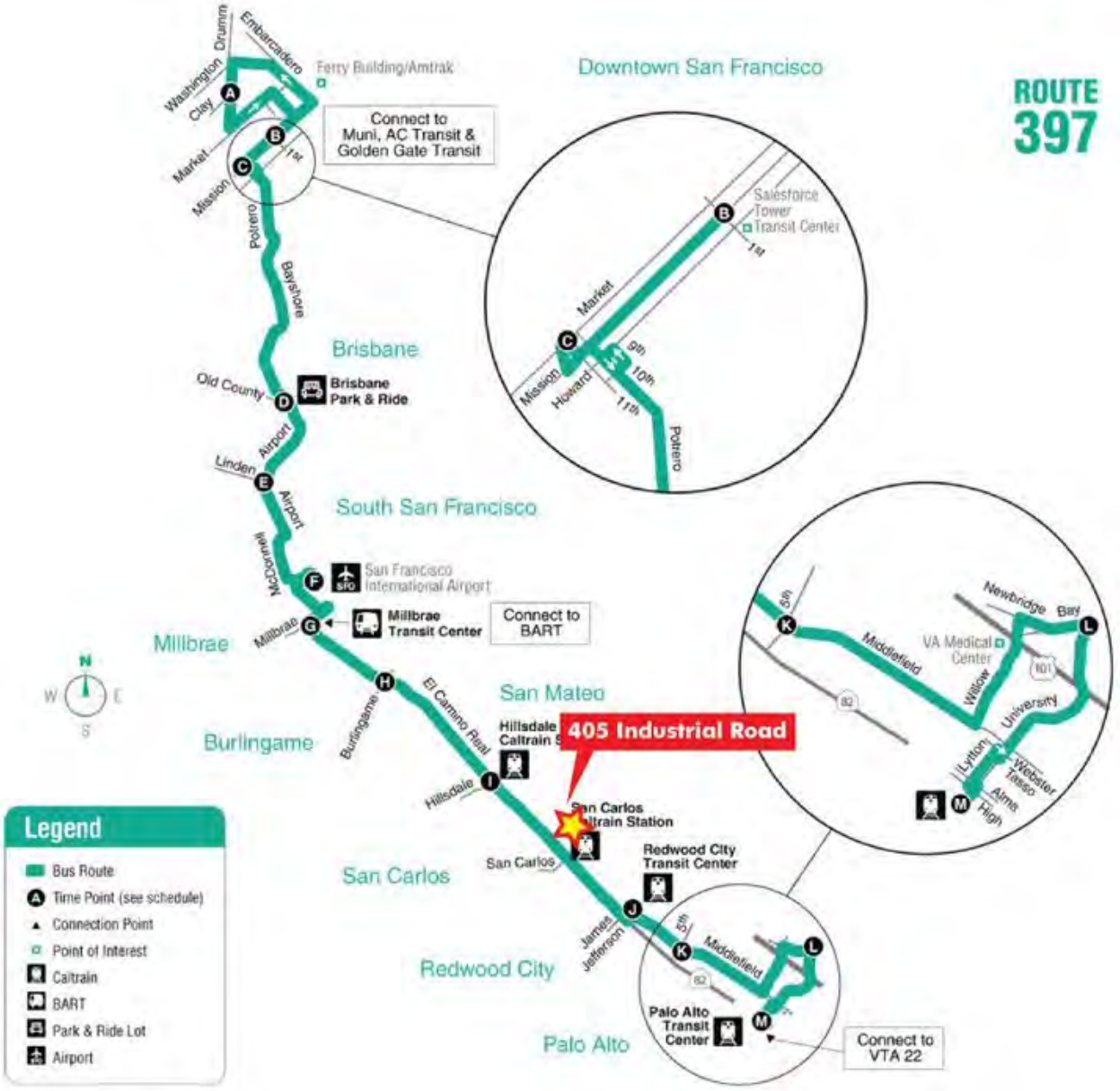


Attachment D

SamTrans Route 295

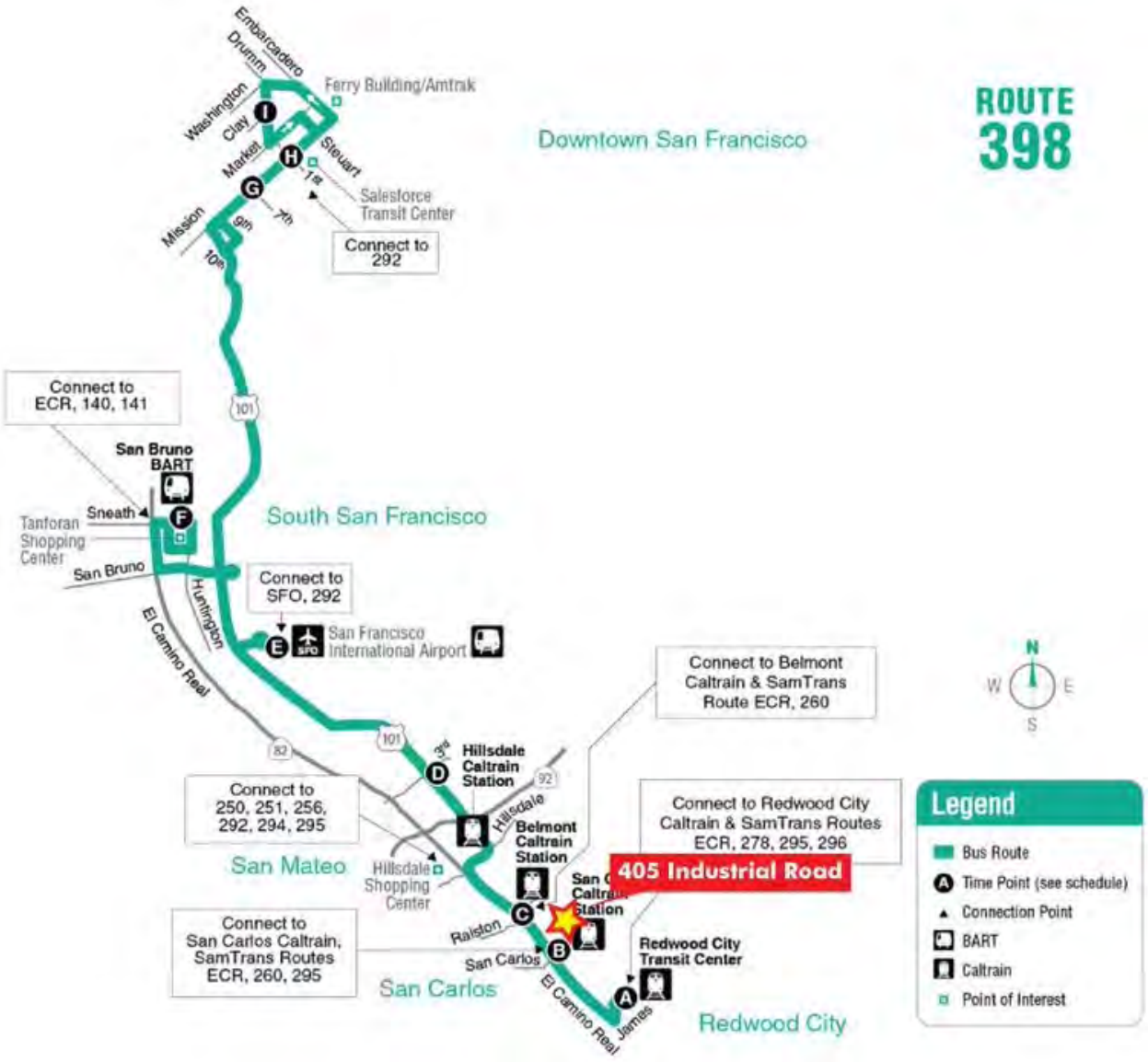
Attachment E

SamTrans Route 397



Attachment F

SamTrans Route 398



Attachment G

SamTrans Route ECR

TDM SPECIALISTS, INC. QUALIFICATIONS

TDM SPECIALISTS, INC.

A Transportation Demand Management Company

We are planners and technical experts *focused on development projects and improving employee mobility options. Our Transportation Demand Management (TDM) planning solutions reduce vehicle traffic, parking demand, greenhouse gases, and air pollution impacts. We work successfully with developers, employers, and government agencies to get TDM Plans approved and projects entitled. We also implement and manage on-site commuter programs and achieve required TDM goals.*

"We have finished the review of the Draft TDM. First let me say, that was the best TDM I have ever seen! The best by a large margin...a fantastic TDM Plan. Thank you so much."

Steve Lynch, AICP, Senior Planner, City of Santa Clara, California

Our TDM practitioners provide full-service commute and traffic mitigation, sustainable LEED planning, and air quality conformity. Serving as an extension of client staff, we provide a broad range of services to get the job done efficiently while meeting the unique needs of the client and specific jurisdiction.

Transportation Demand Management

TDM Specialists develop Transportation Demand Management plans, traffic mitigation plans, and sustainable programs that address green commuting, mobility, and constrained parking issues. The purpose of TDM is to promote more efficient utilization of existing transportation facilities, reduce traffic congestion and mobile source emissions, and ensure that projects are designed in ways to maximize the potential for alternative transportation use.

Commute Program Implementation

We have a proven track record of getting employees out of their cars. As projects are built and occupied, TDM Specialists can develop the structure, outreach and promotions necessary to implement and manage employee Commute Programs. The initial start-up, implementation, and ongoing management of the Commute Program are designed to meet TDM or trip reduction objectives and requirements. The overarching goal of a Commute Program is to enhance the quality of life and reduce commute trips for project employees.

Quality of life improvements can enhance employee recruitment, morale and retention, and increase productivity that create positive benefits for businesses.

Sustainable Air Quality and Greenhouse Gas (GHG) Solutions

TDM Specialists successfully implements trip reduction programs tailored to fit the project, and can typically reduce employee trips to the site by 30 percent. This results in reduced drive-alone trips and complies with requirements to reduce project GHG impacts. We coordinate the mechanisms to calculate and report these results to appropriate agencies.

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TDM SPECIALISTS, INC.

A Transportation Demand Management Company

Areas of Expertise

Traffic Mitigation

TDM/TSM Mitigation Plans
TDM Employer Training
Commute Program Development
Commute Program Management
Commute Program Audits
Commuter Surveys
Transportation Fairs and Events
Car Management Strategies
Shuttle Programs
TMA Management

Parking Mitigation

Parking Demand Reduction
Parking Management Strategies
Parking Constraints Solutions

Entitlement

Project Support
Strategic Counsel
Critical Response Support
Environmental (EIR) Mitigation
(Air Quality and Transportation)

Sustainability

Greenhouse Gas Emission Reductions
Supporting LEED Components
Air Quality Mitigation Plans

TDM Applications

- Office or R&D buildings
- Corporate Headquarters/Campus
- Master Plan projects
- Specific Plans
- Business Parks
- Hospitals/Medical Offices
- Retail/Shopping Centers
- Residential (multi family, single family, hi-rise, etc.)
- Special Events
- Recreation
- Universities and Colleges
- Warehouse and Manufacturing
- Airports and Transit Stations

Development, Property Management and Employer Projects

- Facebook
- Genentech
- NVIDIA
- SAP Labs
- Intel Folsom
- Intel Santa Clara
- Nokia
- Yahoo! Inc.
- NetApp
- VMware
- McClellan Business Park
- Juniper Networks
- Sunnyvale City Center
- Marvell
- Access/Palm Source
- Alexandria Real Estate Equities
- Oyster Point Business Park
- Metro Air Park
- Raley Field
- Moffett Park Business and Transportation Association
- Intuitive Surgical
- The Allen Group
- Spieker Properties
- HCP, Inc.
- Granite Regional Park
- Hyatt Place Hotel – So. San Francisco
- So. San Francisco Business Center
- Masonic Homes of California
- Fairview River Landing
- Donahue Schriber
- BioMed Realty Trust
- Panattoni Development
- Taylor Properties Development Co.
- SKS Investments, LLC
- Shorenstein
- LBA Realty
- Jones Lang LaSalle
- California Farm Bureau
- California Highway Patrol
- Separovich • Domich
- Newell Real Estate Advisors
- Linkedin
- Menlo Equities, LLC
- TMG Partners
- The Minkoff Group
- Arnell Enterprises, Inc.
- The Pollock Financial Group
- Wolff Enterprises

Municipal & Agency Locations

- Sacramento Area Council of Governments
- California Highway Patrol
- County of Sacramento, Dept. of Human Services
- City of South San Francisco
- City of Mountain View
- City of Santa Clara
- City of Sunnyvale
- State of California, Dept. of General Services
- San Mateo City/County Association of Governments
- City of Union City
- Cal PERS
- Cal STRS
- Ogden City, UT
- City of Brisbane
- Grand Rapids Interurban Transit, MI
- City of Citrus Heights
- University of California San Diego West Campus
- Sacramento County International Airport

Biotech, Pharmaceutical and Hospital Projects

- Genentech
- Amgen
- Rigel
- Takeda
- Onyx Pharmaceutical
- University of California San Diego, East Campus Medical Center
- Sutter Medical Center, Sacramento
- Mercy General Hospital
- Mercy San Juan Medical Center
- Enloe Medical Center
- Intuitive Surgical
- Blood Source
- Eclipsys, MA
- Counsyl, Inc.
- Theravance, Inc.

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