Appendix B:
Air Quality, Greenhouse Gas Emissions, and Energy Supporting Information

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Memorandum

Date: September 13, 2024

To: Orville Power, Manager, Mana Camden Fund, LLC

From: Philip Ault, Director of Noise and Air Quality, FirstCarbon Solutions
Tsui Li, Senior Air Quality Scientist, FirstCarbon Solutions

Subject: Air Quality, Greenhouse Gas Emissions, and Energy Impacts Analysis for the Proposed 5670 Camden Avenue Residential Project, City of San José, Santa Clara County, California

At the request of Mana Camden Fund, LLC (project applicant), FirstCarbon Solutions (FCS), prepared this memorandum to summarize the findings of the Environmental Impact Report (EIR) prepared for the proposed 5670 Camden Avenue Residential Project (proposed project). The project site is located in the City of San José (City), in Santa Clara County, California (Exhibit 1). The site is located at 5670 Camden Avenue, southeast of the intersection of Blossom Hill Road and Camden Avenue, within Assessor Parcel Number (APN) 567-28-001 (Exhibit 2).

Recommended measures to avoid or minimize potential project-related impacts to sensitive receptors in the project vicinity are included in this memorandum as appropriate.

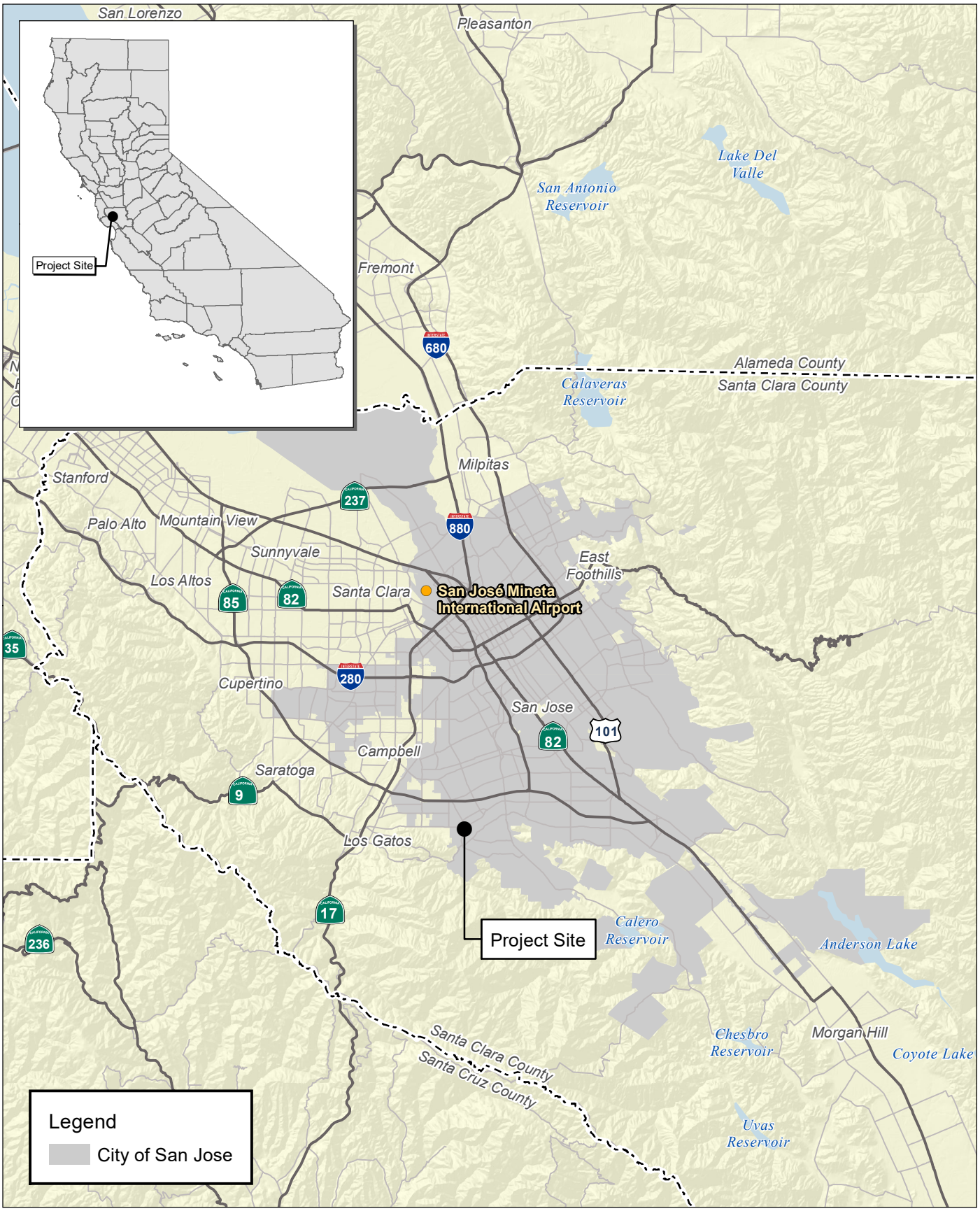
PROJECT UNDERSTANDING

The project applicant proposes to remove the existing sports fields, associated structures, and improvements and to then develop 108 townhouse units spread over 32 buildings. Twenty of the buildings would contain three units (3-plex), while the other 12 buildings would contain four units (4-plex) (Exhibit 3).

The proposed project would include 243 parking spaces composed of 216 garage spaces and 27 guest spaces. Twenty-eight bicycle parking spaces would be provided, along with seven bicycle lockers. Open space would include approximately 101,370 square feet of common open space and approximately 6,500 square feet of private open space (for a total of 107,870 square feet). The proposed project includes 220,296 square feet of impervious area and 69,055 square feet of pervious area.

The total building cover footprint would be 94,844 square feet, which would be approximately 36 percent of the project site. Total floor area would be 215,904 square feet.

According to the Envision San José 2040 General Plan (General Plan), the project site has a land use designation of Public/Quasi-Public (PQP) and is zoned Multiple Residence (R-M) by the San José Zoning Ordinance.

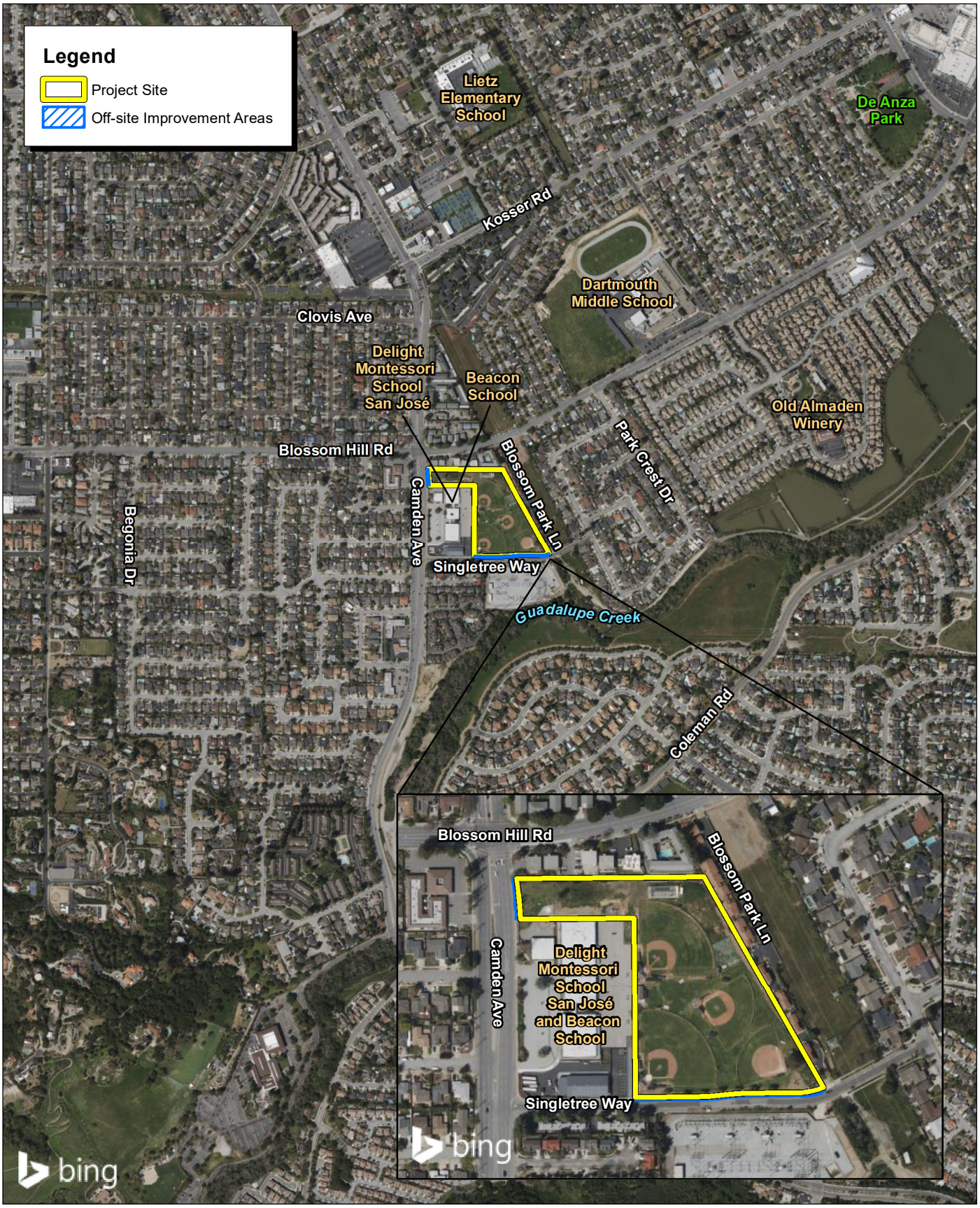


Source: Census 2000 Data, The California Spatial Information Library (CaSIL).

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Figure 1
Regional Location Map

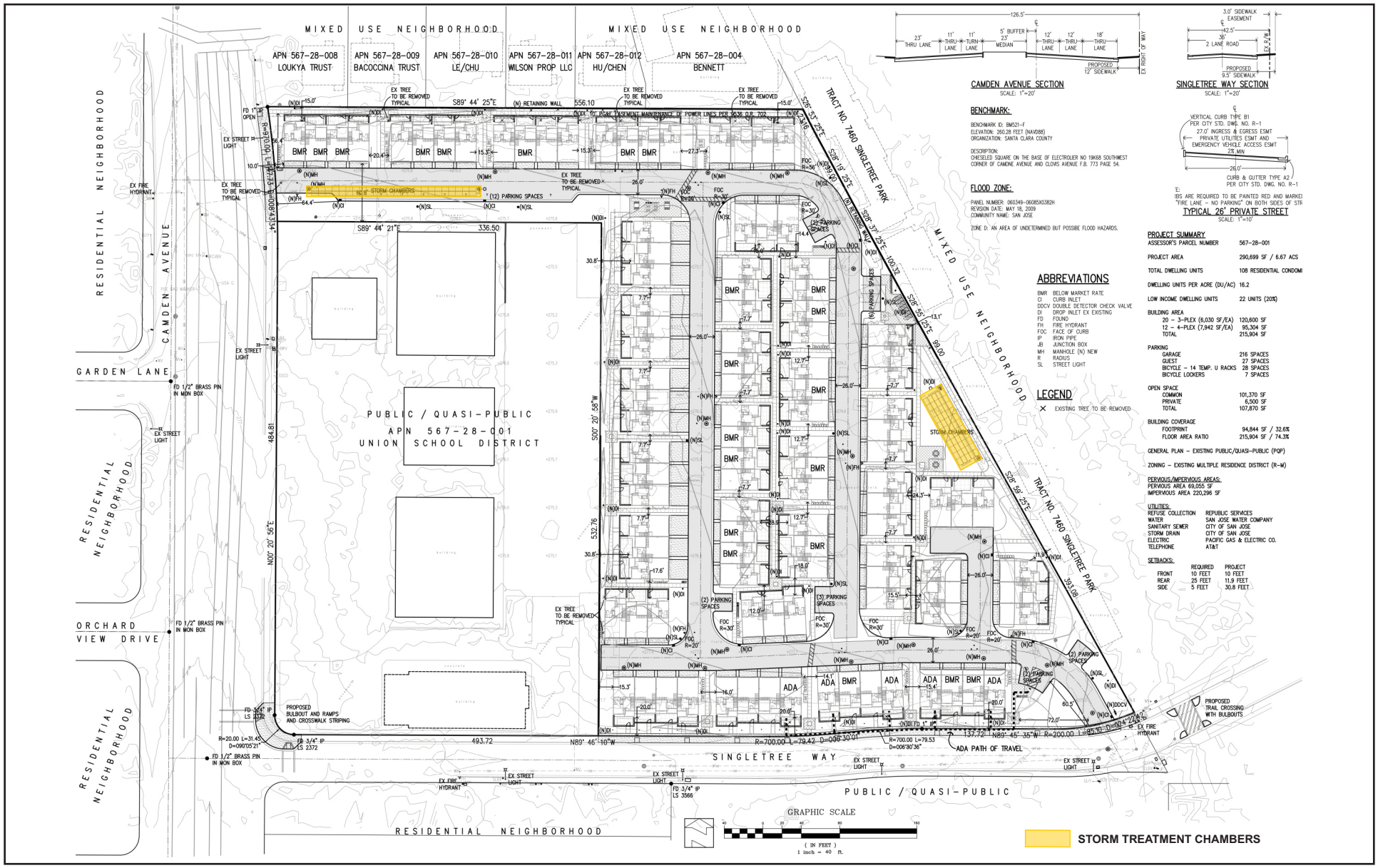


Source: Bing Aerial Imagery. Hanna-Brunetti, January 2024.

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Figure 2
Local Vicinity Map



Source: Hanna - Brunetti, 01/26/2024.

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Figure 3
Site Plan

According to the General Plan, the PQP category is used to designate public land uses, including schools, colleges, corporation yards, homeless shelters, permanent supportive housing, libraries, fire stations, water treatment facilities, convention centers and auditoriums, museums, governmental offices, and airports. Residential uses are not allowed in this category, but the applicant proposes to amend the General Plan Land Use Designation to Mixed Use Neighborhood, which does allow for residential development. The R-M zoning district is intended to reserve land for the construction, use, and occupancy of higher density residential development and higher density residential-commercial mixed-use development.

SETTING AND REGULATORY FRAMEWORK

Air Quality Regulatory Framework

The proposed project is in the City of San José and within the jurisdiction of the Bay Area Air Quality Management District (BAAQMD), which regulates air quality in the San Francisco Bay Area Air Basin (Air Basin). Within the Air Basin, ambient air quality standards for ozone, carbon monoxide (CO), nitrogen dioxide (NO_2), sulfur dioxide (SO_2), particulate matter with an aerodynamic diameter of 2.5 microns and smaller ($PM_{2.5}$) and 10 microns and smaller (PM_{10}), and lead (Pb) have been established by both the California Environmental Protection Agency (Cal/EPA) and the United States Environmental Protection Agency (EPA).[1] California has also set standards for sulfate concentrations and atmospheric visibility.

The EPA and the California Air Resources Board (ARB) designate air basins, or specific areas within an air basin, as "nonattainment" where ambient air quality standards are exceeded. If standards are met, the area is designated as "attainment." If there is inadequate or inconclusive data to make a definitive attainment designation, they are considered "unclassified." National nonattainment areas are further designated as marginal, moderate, serious, severe, or extreme as a function of deviation from standards.

The Air Basin is classified as a nonattainment area for the State ozone and particulate matter standards and as nonattainment for federal ozone 8-hour and $PM_{2.5}$ 24-hour standards. This indicates that the BAAQMD has not achieved compliance with these State and federal standards in the Air Basin.

In addition to regulating criteria pollutants for attainment of State and federal standards. ARB and the BAAQMD regulate and control emissions of toxic air contaminants (TACs) to further protect human health. TACs are a class of pollutants that includes hundreds of chemicals hazardous to human health. Long-term exposure to TACs may cause more severe health effects, such as neurological damage, hormone disruption, developmental defects, and cancer. TAC emissions are highly localized and are emitted from mobile sources such as cars, trucks, and marine and rail sources as well as stationery and area sources. The ARB and BAAQMD addressed their emissions via mobile source strategies, stationary source permitting requirements, and health risk thresholds for new development under review in the California Environmental Quality Act (CEQA) process. The average cancer risk from TACs in the Bay Area

[1] The United States Environmental Protection Agency (EPA) has established National Ambient Air Quality Standards (NAAQS) for six of the most common air pollutants—carbon monoxide, lead, ground level ozone, particulate matter, nitrogen dioxide, and sulfur dioxide—known as "criteria" air pollutants (or simply "criteria pollutants").

has been reduced by 80 percent since 1990. Diesel exhaust is the primary TAC contributors to health risk in the Bay Area.

For CEQA, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to make the proposed project's significance impact determinations related to air quality from criteria pollutants and TACs.

Thresholds of Significance

The significance criteria established or recommended by the BAAQMD were used to make CEQA significance determinations related to the proposed project's impacts on air quality. The BAAQMD has adopted standards of significance for construction and operation. Table 1 shows the thresholds of significance. In developing the thresholds of significance for air pollutants, the BAAQMD considered the emission levels for which a project's individual emissions would be cumulatively considerable. If a project exceeds the identified significance thresholds, its emissions would be cumulatively considerable, resulting in significant adverse air quality impacts on the region's existing air quality conditions.

Table 1: BAAQMD Thresholds of Significance

Pollutant	Construction Thresholds Average Daily Emissions (pounds/day)	Operational Thresholds	
		Average Daily Emissions (pounds/day)	Average Daily Emissions (pounds/day)
Criteria Air Pollutants			
ROG	54	54	10
NO_X	54	54	10
PM_{10}	82 (exhaust)	82	15
$PM_{2.5}$	54 (exhaust)	54	10
CO	Not Applicable	9.0 ppm (8-hour average) or 20.0 ppm (1-hour average)	
Fugitive Dust	Construction Dust Ordinance, other Best Management Practices (BAAQMD Basic Construction Mitigation Measures)	Not Applicable	
Health Risks and Hazards for New Sources			
Excess Cancer Risk	10 per one million	10 per one million	
Chronic or 1-hour Acute Hazard Index	1.0	1.0	
Incremental annual average $PM_{2.5}$	0.3 µg/m^3	0.3 µg/m^3	
Health Risks and Hazards for Sensitive Receptors (Cumulative from All Sources within 1,000-foot Zone of Influence) and Cumulative Thresholds for New Sources			
Excess Cancer Risk	100 per 1 million		

Pollutant	Construction Thresholds Average Daily Emissions (pounds/day)	Operational Thresholds	
		Average Daily Emissions (pounds/day)	Average Daily Emissions (pounds/day)
Chronic Hazard Index	10.0		
Annual Average $PM_{2.5}$	0.8 µg/m^3		

Notes:
µg/m^3 = micrograms per cubic meter
CO= carbon monoxide
NO_X = nitrogen oxides
PM_{10} = course particulate matter or particulates with an aerodynamic diameter of 10 µm or less
$PM_{2.5}$ = fine particulate matter or particulates with an aerodynamic diameter of 2.5 µm or less
ROG = reactive organic gases
Source: Bay Area Air Quality Management District (BAAQMD). 2022. CEQA Air Quality Guidelines. April. Website: https://www.baaqmd.gov/~/media/files/planning-and-research/ceqa/ceqa-guidelines-2022/ceqa-guidelines-chapter-3-thresholds_final_v2-pdf.pdf?la=en. Accessed June 14, 2024.

The BAAQMD has also developed screening criteria for project construction and operation that informs whether a project would be anticipated to result in an exceedance of emissions thresholds during construction and operation. These preliminary screening levels are contained in Table 4-1 of the BAAQMD's 2022 CEQA Air Quality Guidelines. Pre-determined project size thresholds for individual land uses provide lead agencies with a conservative indication of the potential for a project to result in the generation of operational criteria air pollutants or precursors that exceed the thresholds of significance. As such, small projects can apply these size-based thresholds to determine that they would have less than significant impact, avoiding unnecessarily detailed emissions calculations.

Table 4-1 of the 2022 BAAQMD CEQA Air Quality Guidelines establishes the Single Land Use Preliminary Screening Levels for the "Condo-Townhouse" land use type as 416 dwelling units under Operational Criteria and 637 for Construction Criteria.

Envision San José 2040 General Plan

The General Plan includes policies to avoid or mitigate impacts resulting from development projects with the City. The following policies are specific to air quality and apply to the proposed project.

Policy MS-10.1 Assess projected air emissions from new development in conformance with the Bay Area Air Quality Management District (BAAQMD) CEQA Guidelines and relative to State and federal standards. Identify and implement air emissions reduction measures.

Policy MS-10.2 Consider the cumulative air quality impacts from proposed developments for proposed land use designation changes and new development, consistent with the region's Clean Air Plan and State law.

Policy MS-11.1 Require completion of air quality modeling for sensitive land uses such as new residential developments that are located near sources of pollution such as freeways and industrial uses. Require new residential development projects and projects categorized as sensitive receptors to incorporate effective mitigation into project designs or be located an adequate distance from sources of toxic air contaminants (TACs) to avoid significant risks to health and safety.

Policy MS-11.2 For projects that emit toxic air contaminants, require project proponents to prepare health risk assessments in accordance with BAAQMD-recommended procedures as part of environmental review and employ effective mitigation to reduce possible health risks to a less than significant level. Alternatively, require new projects (such as, but not limited to, industrial, manufacturing, and processing facilities) that are sources of TACs to be located an adequate distance from residential areas and other sensitive receptors.

Policy MS-11.3 Review projects generating significant heavy-duty truck traffic to designate truck routes that minimize exposure of sensitive receptors to TACs and particulate matter.

Policy MS-11.4 Encourage the installation of air filtration, to be installed at existing schools, residences, and other sensitive receptor uses adversely affected by pollution sources.

Policy MS-11.5 Encourage the use of pollution absorbing trees and vegetation in buffer areas between substantial sources of TACs and sensitive land uses.

Policy MS-12.2 Require new residential development projects and projects categorized as sensitive receptors to be located an adequate distance from facilities that are existing and potential sources of odor. An adequate separate distance will be determined based upon the type, size and operations of the facility.

Policy MS-13.1 Include dust, particulate matter, and construction equipment exhaust control measures as conditions of approval for subdivision maps, site development and planned development permits, grading permits, and demolition permits. At a minimum, conditions shall conform to construction mitigation measures recommended in the current BAAQMD CEQA Guidelines for the relevant project size and type.

Policy MS-13.2 Construction and/or demolition projects that have the potential to disturb asbestos (from soil or building material) shall comply with all the requirements of the California Air Resources Board Air Toxic Control Measures (ATCMs) for Construction, Grading, Quarrying, and Surface Mining Operations.

City of San José Standard Permit Conditions

The City of San José has the following Standard Permit Conditions which would apply to the proposed project. Unless otherwise discussed in this analysis, the proposed project is assumed to incorporate the following Standard Permit Condition:

AQ No. 1 The following measures shall be implemented during all phases of construction to control dust and exhaust at the project site:

- Water active construction areas at least twice daily or as often as needed to control dust emissions.
- Cover trucks hauling soil, sand, and other loose materials and/or ensure that all trucks hauling such materials maintain at least two feet of freeboard.
- Remove visible mud or dirt trackout onto adjacent public roads using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited.
- Enclose, cover, water twice daily or apply non-toxic soil binders to exposed stockpiles (dirt, sand, etc.).
- Pave new or improved roadways, driveways, and sidewalks as soon as possible.
- Lay building pads as soon as possible after grading unless seeding or soil binders are used.
- Replant vegetation in disturbed areas as quickly as possible.
- Install sandbags or other erosion control measures to prevent silt runoff to public roadways.
- Minimize idling times either by shutting off equipment when not in use or reducing the maximum idling time to 5 minutes (as required by the California Airborne Toxics Control Measure [ATCM], Title 13, Section 2485 of the California Code of Regulations [CCR]). Provide clear signage for construction workers at all access points.
- Maintain and property tune construction equipment in accordance with manufacturer's specifications. Check all equipment by a certified mechanic and record a determination of "running in proper condition" prior to operation.
- Post a publicly visible sign with the telephone number and person to contact at the lead agency regarding dust complaints.

Greenhouse Gas Regulatory Framework

Assembly Bill 32, Senate Bill 32, and State Climate Change Scoping Plan

In 2006, California passed Assembly Bill (AB) 32, the Global Warming Solutions Act. AB 32 put into law mid-term greenhouse gas (GHG) emission reduction targets and identified ARB as the State agency responsible for the development and implementation of GHG emission reduction regulations, policies, and measures needed to meet the target.

In 2008, the ARB adopted the Climate Change Scoping Plan (Scoping Plan) which contains the main strategies that California will implement to achieve the required GHG reductions codified in AB 32. ARB is required to update the Scoping Plan at least once every five years to evaluate progress and develop future GHG inventories that may guide this process.

The Governor signed Senate Bill (SB) 32 in September 2016, giving the ARB the statutory responsibility to include the 2030 target previously contained in Executive Order B-30-15 in the 2017 Scoping Plan Update. SB 32 states that "In adopting rules and regulations to achieve the maximum technologically feasible and cost-effective greenhouse gas emissions reductions authorized by this division, the State [air resources] board shall ensure that Statewide greenhouse gas emissions are reduced to at least 40 percent below the Statewide greenhouse gas emissions limit no later than December 31, 2030." The current Scoping Plan was adopted in 2022[2] and establishes a scenario by which the State may achieve carbon neutrality by 2045 or earlier, and it outlines a technologically feasible, cost-effective, and equity-focused path for achieving this climate target. The 2022 Scoping Plan addresses the latest climate-related legislation and direction from current Governor Gavin Newsom, who, by his signing of AB 1279, required the State to reduce Statewide anthropogenic GHG emissions to at least 85 percent below 1990 levels by 2045 and to maintain net negative GHG emissions thereafter. The 2022 Scoping Plan relies on the aggressive reduction of fossil fuels in all Statewide sectors and accelerating existing carbon reduction programs. Aspects of the 2022 Scoping Plan's scenario include:

- Rapidly moving to zero-emission transportation by electrifying cars, buses, trains, and trucks.
- Phasing out the use of fossil gas used for heating homes and buildings.
- Clamping down on chemicals, refrigerants, and other high global warming potential (GWP) gases.
- Providing communities with sustainable options for walking, biking, and public transit to reduce reliance on cars.
- Continuing to develop solar arrays, wind turbine capacity, and other resources that provide clean, renewable energy.
- Scale up options such as renewable hydrogen and biomethane for end uses that are hard to electrify.

The ARB estimates that successfully achieving the outcomes called for by the 2022 Scoping Plan will reduce demand for liquid petroleum by 94 percent and total fossil fuel by 86 percent in 2045, relative to 2022. The 2022 Scoping Plan also emphasizes the role of natural and working lands and carbon capturing technologies to address residual emissions and achieve net negative emissions.

[2] California Air Resources Board (ARB). 2022 Scoping Plan. Website: https://ww2.arb.ca.gov/our-work/programs/ab-32-climate-change-scoping-plan/2022-scoping-plan-documents. Accessed May 19, 2024.

Assembly Bill 1279

AB 1279 codified Executive Order B-55-18, which established a Statewide goal of achieving carbon neutrality as soon as possible but no later than 2045 and achieving and maintaining net negative emissions thereafter. It requires that 2045 Statewide anthropogenic GHG emissions are reduced to at least 85 percent below 1990 levels.

Plan Bay Area 2050

Plan Bay Area 2050 is a State-mandated, integrated, long-range transportation and land use plan for the San Francisco Bay Area. As required by SB 375, all metropolitan regions in California must complete an Sustainable Communities Strategy (SCS) as part of a Regional Transportation Plan (RTP). This strategy integrates transportation, land use, and housing to meet GHG reduction targets set by the ARB. Plan Bay Area 2050 meets those requirements. In addition, the plan sets a roadmap for future transportation investments and identifies what it would take to accommodate expected growth. The plan neither funds specific transportation projects nor changes local land use policies.

In the San Francisco Bay Area, the Metropolitan Transportation Commission (MTC) and the Association of Bay Area Governments (ABAG) adopted Plan Bay Area 2050 in October 2021. To meet the GHG reduction targets, the plan identifies four growth geographies where future growth in housing and jobs should be focused: Priority Development Areas (PDAs), Priority Production Areas (PPAs), Transit-Rich Areas (TRAs), and High Resource Areas. The agencies estimate more than 80 percent of housing growth would occur within TRAs; nearly 30 percent would be within High Resource Areas; and more than 60 percent of job growth would be within walking distance of high-quality transit between 2015 and 2050.

BAAQMD GHG Guidelines

The BAAQMD's 2022 CEQA Air Quality Guidelines provide recommended significance thresholds for GHGs for land use development projects and plans. The new thresholds state that if a project would contribute its "fair share" of what will be required to achieve California's long-term climate goal of carbon neutrality by 2045, then a reviewing agency can find that the impact will not be significant because the project will help to solve the problem of global climate change. The thresholds for new land use projects require projects to meet either of one of two enumerated Criteria "A" or "B" detailed in Table 2. If a land use development project cannot demonstrate consistency with Criterion A or Criterion B, then that project would result in a potentially significant impact related to the generation of direct and indirect GHG emissions.

Table 2: BAAQMD Thresholds of Significance for Greenhouse Gases

Thresholds for Land Use Projects (Must Include A or B)
A. Projects must include, at a minimum, the following project design elements:
1. Buildings a. The project will not include natural gas appliances or natural gas plumbing (in both residential and nonresidential development). b. The project will not result in any wasteful, inefficient, or unnecessary energy usage as determined by the analysis required under CEQA Section 21100(b)(3) and Section 15126.2(b) of the State CEQA Guidelines.
2. Transportation a. Achieve a reduction in project-generated Vehicle Miles Traveled (VMT) below the regional average consistent with the current version of the California Climate Change Scoping Plan (currently 15 percent) or meet a locally adopted Senate Bill 743 VMT target, reflecting the recommendations provided in the Governor's Office of Planning and Research's Technical Advisory on Evaluating Transportation Impacts in CEQA: i. Residential projects: 15 percent below the existing VMT per capita ii. Office projects: 15 percent below the existing VMT per employee iii. Retail projects: no net increase in existing VMT b. Achieve compliance with off-street electric vehicle requirements in the most recently adopted version of CALGreen Tier 2.
B. Projects must be consistent with a local GHG reduction strategy that meets the criteria under State CEQA Guidelines Section 15183.5(b).
Source: Bay Area Air Quality Management District (BAAQMD). 2022. CEQA Guidelines. April 20.

Project consistency with Criteria A is based on incorporating project design criteria focused on key attributes consistent with the 2022 Scoping Plan and states long-term carbon neutrality goals. Projects incorporating these elements would be contributing their "fair share" of what will be required to achieve California's long-term climate goal of carbon neutrality by 2045. These include criteria for building energy design (elimination of natural gas) as well as criteria related to reduction in transportation emissions via Vehicle Miles Traveled (VMT) reductions and installation of electrical vehicle (EV) charging infrastructure.

Project consistency with Criterion B involves demonstrating compliance with a local "qualified" GHG plan. CEQA Guidelines Section 15183.5(b) allows projects and plans to be analyzed through a streamlined or tiered approach utilizing an adopted Greenhouse Gas Reduction Plan. A "qualified" reduction strategy capable of being utilized for a streamlined or tiered analysis under CEQA must meet the following requirements:

- Quantify GHG emissions, both existing and projected over a specified time period, resulting from activities within a defined geographic area;
- Establish a level, based on substantial evidence, below which the contribution to GHG emissions from activities covered by the plan would not be cumulatively considerable;

- Identify and analyze the GHG emissions resulting from specific actions or categories of actions anticipated within the geographic area;
- Specify measures or a group of measures, including performance standards, that substantial evidence demonstrates, if implemented on a project-by-project basis, would collectively achieve the specified emissions level;
- Establish a mechanism to monitor the plan's progress toward achieving the level and to require amendments if the plan is not achieving specified levels; and
- Be adopted in a public process following environmental review.

Envision San José 2040 General Plan

The General Plan includes policies to avoid or mitigate impacts resulting from development projects within city limits. The following policies are specific to reducing GHG emissions and are relevant to the proposed project.

Policy MS-1.1 Demonstrate leadership in the development and implementation of green building policies and practices. Ensure that all projects are consistent with or exceed the City's Green Building Ordinance and City Council Policies as well as State and/or regional policies which require that projects incorporate various green building principles into their design and construction.

Policy MS-1.4 Foster awareness of San José's business and residential communities of the economic and environmental benefits of green building practices. Encourage design and construction of environmentally responsible commercial and residential buildings that are also operated and maintained to reduce waste, conserve water, and meet other environmental objectives.

Policy MS-2.3 Utilize solar orientation (i.e., building placement), landscaping, design, and construction techniques for new construction to minimize energy consumption.

Policy MS-2.4 Promote energy efficient construction industry practices.

Policy MS-2.6 Promote roofing design and surface treatments that reduce the heat island effect of new and existing development and support reduced energy use, reduced air pollution, and a healthy urban forest. Connect businesses and residents with cool roof rebate programs through City outreach efforts.

Policy MS-2.11 Require new development to incorporate green building policies, including those required by the Green Building Ordinance. Specifically, target reduced energy use through construction techniques (e.g., design of building envelopes and systems to maximize energy performance), through architectural design (e.g., design to maximize cross ventilation and interior daylight) and through site design techniques (e.g., orienting buildings on sites to maximize effectiveness of passive solar design.)

Policy MS-5.5 Maximize recycling and composting from all residents, businesses, and institutions in the City.

Policy MS-5.6 Enhance the construction and demolition debris recycling program to increase diversion from the building sector.

Policy MS-10.5 In order to reduce vehicle miles traveled and traffic congestion, require new development within 2,000 feet of an existing or planned transit station to encourage the use of public transit and minimize the dependence on the automobile through the application of site design guidelines and transit incentives.

Policy MS-16.5 Establish minimum requirements for energy efficiency measures and on-site renewable energy generation capacity on all new housing developments.

Policy CD-2.10 Recognize that finite land area exists for development and that density supports retail vitality and transit ridership. Use land regulations to require compact, low-impact development that efficiently uses land planned for growth, particularly for residential development which tends to have a long life-span. Strongly discourage small-lot and single-family detached residential product types in growth areas.

Policy CD-5.1 Design areas to promote pedestrian and bicycle movements and to facilitate interaction between community members and to strengthen the sense of community.

Policy TR-3.3 As part of the development review process, require that new development along existing and planned transit facilities consist of land use and development types and intensities that contribute toward transit ridership. In addition, require that new development is designed to accommodate and to provide direct access to transit facilities.

Policy TR-1.16 Develop a strategy to construct a network of public and private alternative fuel vehicle charging/fueling stations citywide. Revise parking standards to require the installation of electric charging infrastructure at new, large employment sites and large, multiple-family residential developments.

Policy H-4 Implement green building principles in the design and construction of housing and related infrastructure, in conformance with the Green Building Goals and Policies in the Envision General Plan and in conformance with the City's Green Building Ordinance.

Policy H-4.2 Minimize housing's contribution to greenhouse gas emissions, and locate housing, consistent with our City's land use and transportation goals and policies, to reduce vehicle miles traveled and auto dependency.

Policy H-4.3 Encourage the development of higher residential densities in complete, mixed-use, walkable and bike able communities to reduce energy use and greenhouse gas emissions.

City's GHG Reduction Strategy

The General Plan includes strategies, policies, and action items that are incorporated in the City's GHG Reduction Strategy (GHGRS) to help reduce GHG emissions. The General Plan's multiple policies and actions have GHG implications, including land use, housing, transportation, water usage, solid waste generation and recycling, and reuse of historic buildings. The City's GHGRS is intended to meet the mandates outlined in the BAAQMD CEQA Guidelines and standards for "qualified plans," as established by the BAAQMD. In addition, the City's Green Vision, as reflected in the City's GHGRS, includes a monitoring component that allows for adaptation and adjustment of City programs and initiatives related to sustainability and associated reductions in GHG emissions.

The GHGRS is intended to meet the mandates outlined in the CEQA Air Quality Guidelines, as well as the BAAQMD requirements for Qualified GHGRS. The City's 2030 GHGRS is a comprehensive update to the City's original GHGRS and reflects the plans, policies, and codes as approved by the City Council. The strategy builds on the General Plan and Climate Smart San José; these plans expanded the City's Green Vision to advance urban sustainability. Leveraging these existing plans and supporting policy and program frameworks, the 2030 GHGRS provides a set of strategies and additional actions for achieving the 2030 target.

The City's GHGRS identifies GHG emissions reduction measures to be implemented by development projects in four categories: built environment and energy, land use and transportation, recycling and waste reduction, and other GHG reduction measures. Some measures are mandatory for all proposed development projects, and others are voluntary.

The primary test for consistency with the City's GHGRS is conformance with the General Plan Land Use/Transportation Diagram and supporting policies. Pursuant to CEQA Guidelines, all land use development proposals are required to evaluate consistency with the goals and policies outlined in the City's General Plan designed to reduce GHG emissions, generally through the use of a checklist. Projects consistent with the GHGRS would have a less than significant impact on GHG emissions through 2030 and would not conflict with targets in the currently adopted State of California Climate Change Scoping Plan through 2030.

City of San José Municipal Code

The City of San José Municipal Code (Municipal Code) includes the following regulations that would reduce GHG emissions from future development:

- Green Building Ordinance (Chapter 17.84)
- Water Efficient Landscape Standards for New and Rehabilitated Landscaping (Chapter 15.10)
- Transportation Demand Programs for employers with more than 100 employees (Chapter 11.105)

- Construction and Demolition Diversion Deposit Program (Chapter 9.10)
- Wood-Burning Ordinance (Chapter 9.10)
- All-Electric Ordinance (Chapter 17.845)

City of San José Private Sector Green Building Policy

In October 2008, the City adopted the Private Sector Green Building Policy (6-32) that establishes baseline green building standards for private sector new construction and provides a framework for implementing these standards. This policy requires that applicable projects achieve minimum green building performance levels using the Council-adopted standards.

Energy Regulatory Framework

EPA Off-road Diesel Engine Emissions Standards

The EPA regulates nonroad diesel engines that power mobile equipment (bulldozers, scrapers, front-end loaders, etc.) and stationary equipment (generators, pumps, compressors, etc.). The EPA has no formal fuel economy standards for nonroad (e.g., construction) diesel engines but does regulate diesel emissions, which indirectly affects fuel economy. In 1994, the EPA adopted the first set of emission standards ("Tier 1") for all new nonroad diesel engines greater than 37 kilowatts (kW [50 horsepower]). The Tier 1 standards were phased in for different engine sizes between 1996 and 2000, reducing nitrogen oxides (NO_X) emissions from these engines by 30 percent. Subsequently, the EPA adopted more stringent emission standards for NO_X, hydrocarbons, and particulate matter from new nonroad diesel engines. This program included the first set of standards for nonroad diesel engines less than 37 kW. It also phased in more stringent "Tier 2" emission standards from 2001 to 2006 for all engine sizes and added yet more stringent "Tier 3" standards for engines between 37 and 560 kW (50 and 750 horsepower, respectively) from 2006 to 2008. These standards further reduced nonroad diesel engine emissions by 60 percent for NO_X and 40 percent for particulate matter from Tier 1 emission levels. In 2004, the EPA issued the Clean Air Nonroad Diesel Rule and finalized Tier 4 emission standards. This rule cut emissions from nonroad diesel engines by more than 90 percent and was phased in between 2008 and 2014. These emission standards are intended to promote advanced clean technologies for nonroad diesel engines that improve fuel combustion, but they also result in slight decreases in fuel economy.

California Renewable Energy Standards

Established in 2002 under SB 1078, and accelerated by SB 107 (2006), SB X 1-2 (2011), and SB 100 (2018), California's Renewable Portfolio Standard (RPS) obligates investor-owned utilities, energy service providers, and community choice aggregators to procure 33 percent total retail sales of electricity from renewable energy sources by 2020; 60 percent by 2030; and 100 percent by 2045. SB 100 also states "that it is the policy of the state that eligible renewable energy resources and zero-carbon resources supply 100 percent of retail sales of electricity to California end-use customers and 100 percent of electricity procured to serve all State agencies by December 31, 2045." The California Public Utilities Commission and the CEC are jointly responsible for implementing the program.

California Building Standards Code

The Building Energy Efficiency Standards were first adopted in 1976 and have been updated periodically since then as directed by statute. The Standards contain energy and water efficiency requirements (and indoor air quality requirements) for newly constructed buildings, additions to existing buildings, and alterations to existing buildings. The Standards are conceptually divided into three basic sets. The first set is a basic set of mandatory requirements that apply to all buildings. The second set is a set of performance standards—the energy budgets—that vary by climate zone (of which there are 16 in California) and building type; thus, the Standards are tailored to local conditions and provide flexibility in how energy efficiency in buildings can be achieved. Finally, the third set constitutes an alternative to the performance standards, which is a set of prescriptive packages that provide a recipe or a checklist compliance approach.

Private Sector Green Building Policy (Council Policy 6-32)

At the local level, the City of San José sets green building standards for municipal development. All projects are required to submit a Leadership in Energy and Environmental Design (LEED®), GreenPoint, or Build-It-Green checklist as part of their development permit applications. Council Policy 6-32 "Private Sector Green Building Policy," adopted in October 2008, establishes baseline green building standards for private sector new construction and provides a framework for implementing these standards. It fosters practices in the design, construction, and maintenance of buildings that will minimize the use and waste of energy, water, and other resources in the City of San José. Private developments are required to implement green building practices if they meet the Applicable Projects criteria defined by Council Policy 6-32 and shown in Table 3 below.

Table 3: Private Sector Green Building Policy Applicable Projects

Applicable Project Minimum Green Building Rating	Minimum Green Building Rating
Commercial/Industrial—Tier 1 (less than 25,000 square feet)	LEED® Applicable New Construction Checklist
Commercial/Industrial—Tier 2 (25,000 square feet or greater)	LEED® Silver
Residential—Tier 1 (Less than 10 units)	GreenPoint or LEED® Checklist
Residential—Tier 2 (10 units or greater)	GreenPoint Rated 50 points or LEED® Certified
High Rise Residential (75 feet or higher)	LEED® Certified
Source: City of San José. Private Sector Green Building Policy: Policy Number 6-32. October 7, 2008. Website: https://www.sanJoséca.gov/DocumentCenter/Home/View/363. Accessed September 20, 2023.	

Envision San José 2040 General Plan

The General Plan includes policies for the purpose of avoiding or mitigating impacts resulting from development projects with the City. The following policies are specific to energy and are relevant to the proposed project.

Policy MS-1.1 Demonstrate leadership in the development and implementation of green building policies and practices. Ensure that all projects are consistent with or exceed the City's Green Building Ordinance and City Council Policies as well as State and/or regional policies which require that projects incorporate various green building principles into their design and construction.

Policy MS-2.4 Promote energy efficient construction industry practices.

Policy MS-2.2 Encourage maximized use of on-site generation of renewable energy for all new and existing buildings.

Policy MS-2.3 Utilize solar orientation, (i.e., building placement), landscaping, design, and construction techniques for new construction to minimize energy consumption.

Policy MS-2.11 Require new development to incorporate green building practices, including those required by the Green Building Ordinance. Specifically target reduced energy use through construction techniques (e.g., design of building envelopes and systems to maximize energy performance), through architectural design (e.g., design to maximize cross ventilation and interior daylight) and through site design techniques (e.g., orienting buildings on sites to maximize the effectiveness of passive solar design).

Policy MS-3.1 Require water efficient landscaping, which conforms to the State's Model Water Efficient Landscape Ordinance, for all new commercial, institutional, industrial, and developer-installed residential development unless for recreation or other area functions.

Policy MS-5.5 Maximize recycling and composting from all residents, businesses, and institutions in the City.

Policy MS-14.1 Promote job and housing growth in areas served by public transit and that have community amenities within a 20-minute walking distance.

Policy MS-14.3 Consistent with the California Public Utilities Commission's California Long-Term Energy Efficiency Strategic Plan, as revised and when technological advances make it feasible, require all new residential and commercial construction to be designed for zero-ne- energy use.

Policy TR-1.468 Through the entitlement process for new development fund needed transportation improvements for all modes, giving first consideration to improvement of bicycling, walking and transit facilities. Encourage investments that reduce vehicle travel demand.

Policy TR-2.8 Require new development where feasible to provide on-site facilities such as bicycle storage and showers, provide connections to existing and planned facilities, dedicate land to expand existing facilities or provide new facilities such as sidewalks and/or bicycle lanes/paths, or share in the cost of improvements.

Policy TR-3.3 As part of the development review process, require that new development along existing and planned transit facilities consist of land use and development types and intensities that contribute toward transit ridership. In addition, require that new development is designed to accommodate and to provide direct access to transit facilities.

AIR QUALITY EMISSIONS IMPACT ANALYSIS

According to CEQA Guidelines Appendix G, to det3.7.4ermine whether impacts related to air quality are significant environmental effects, the following questions are analyzed and evaluated.

Impact AIR-1:	**Would the project conflict with or obstruct implementation of the applicable air quality plan?**

Less than significant impact with mitigation. The project site is located in the San Francisco Bay Area Air Basin, where the BAAQMD regulates air quality. The EPA is responsible for identifying nonattainment and attainment areas for each criteria pollutant within the Air Basin. The Air Basin is designated nonattainment for State standards for 1-hour and 8-hour ozone, 24-hour respirable particulate matter (PM_{10}), annual PM_{10}, and annual fine particulate matter ($PM_{2.5}$).[3]

The BAAQMD has adopted several air quality policies and plans to address regional air quality standards, the most recent of which is the 2017 Clean Air Plan. The 2017 Clean Air Plan was adopted in April of 2017 and serves as the regional Air Quality Plan (AQP) for the Air Basin for attaining National Ambient Air Quality Standards (NAAQS). The primary goals of the 2017 Clean Air Plan are to protect public health and protect the climate. The 2017 Clean Air Plan acknowledges that the BAAQMD's two stated goals of protection are closely related. As such, the 2017 Clean Air Plan identifies a wide range of control measures intended to decrease both criteria pollutants and GHG.[4] The 2017 Clean Air Plan also accounts for projections of population growth provided by ABAG and VMT provided by the MTC and identifies

[3] Bay Area Air Quality Management District (BAAQMD). 2022. CEQA Air Quality Guidelines. April. Website: https://www.baaqmd.gov/~/media/files/planning-and-research/ceqa/ceqa-guidelines-2022/ceqa-guidelines-chapter-3-thresholds_final_v2-pdf.pdf?la=en. Accessed May 21, 2024.

[4] A greenhouse gas (GHG) is any gaseous compound in the atmosphere that is capable of absorbing infrared radiation, thereby trapping and holding heat in the atmosphere. By increasing the heat in the atmosphere, greenhouse gases are responsible for the greenhouse effect, which ultimately leads to global warming.

strategies to bring regional emissions imnto compliance with federal and State air quality standards. A project would be judged to conflict with or obstruct implementation of the 2017 Clean Air Plan if it would result in substantial new regional emissions not foreseen in the air quality planning process.

The BAAQMD does not provide a numerical threshold of significance for project-level consistency analysis with AQPs. Therefore, the following criteria will be used for determining a project's consistency with the AQP.

- **Criterion 1:** Does the project support the primary goals of the AQP?
- **Criterion 2:** Does the project include applicable control measures from the AQP?
- **Criterion 3:** Does the project disrupt or hinder the implementation of any AQP control measures?

Criterion 1

The primary goals of the 2017 Clean Air Plan, the current AQP to date, are to:

- Attain air quality standards;
- Reduce population exposure to unhealthy air and protect public health in the Bay Area; and
- Reduce GHG emissions and protect the climate.

A measure for determining whether the proposed project supports the primary goals of the AQP is if the project would not result in an increase in the frequency or severity of existing air quality violations, cause or contribute to new violations, or delay timely attainment of air quality standards or the interim emission reductions specified in the air quality plans. This measure is determined by comparing project emissions to the significance thresholds identified by the BAAQMD for construction- and operation-related pollutants. These significance thresholds are applied in the evaluation of Impact AIR-2, below. As discussed under Impact AIR-2 and Impact AIR-3, the proposed project would not significantly contribute to cumulative nonattainment pollutant violations or expose sensitive receptors to substantial pollutant concentrations after incorporating identified mitigation. Fugitive dust control measures would be required to be implemented during the construction of the proposed project in order to reduce localized dust impacts. Impacts related to fugitive dust from the proposed project's construction would be potentially significant without the inclusion of sufficient dust control measures. Standard Permit Condition AQ No. 1 requires the inclusion of Best Management Practices (BMPs) recommended by the BAAQMD to reduce potential impacts related to fugitive dust emissions from use of construction equipment. In addition, construction exhaust emissions would result in potentially significant health risk impacts and would require the implementation of Mitigation Measure (MM) AIR-1, which would require the use of Tier 4 Final engines for construction equipment equal to or greater than 25 horsepower. With the implementation of Standard Permit Condition AQ No. 1 and MM AIR-1, the proposed project would be consistent with Criterion 1.

Criterion 2

Another measure for determining whether a project is consistent with the AQP is to determine whether the project is inconsistent with the growth assumptions incorporated into the AQP and, thus, whether it would interfere with the region's ability to comply with federal and California air quality standards. The

development of the AQP is based in part on the land use general plan determinations of the various cities and counties that constitute the Air Basin. According to the General Plan, the project site has a land use designation of PQP by the City of San José General Plan 2040 and is zoned Multiple Residence (R-M) by the San José Zoning Ordinance.

According to the General Plan, the PQP category is used to designate public land uses, including schools, colleges, corporation yards, homeless shelters, permanent supportive housing, libraries, fire stations, water treatment facilities, convention centers and auditoriums, museums, governmental offices, and airports. Residential uses are not allowed in this category, but the applicant proposes to amend the General Plan Land Use Designation to Mixed Use Neighborhood, which does allow for residential development.

The R-M zoning district is intended to reserve land for the construction, use and occupancy of higher density residential development and higher density residential-commercial mixed-use development. The proposed project would be consistent with the R-M zoning district of the site.

The proposed project would develop 108 townhome units. Since the proposed facility would have fewer than 500 units, it is not considered a regionally significant project under CEQA Guidelines Section 15206 that would affect regional VMT and warrant intergovernmental review by ABAG and MTC.

Furthermore, the net increase in regional emissions generated by the proposed project would be less than the BAAQMD's emissions thresholds (see Impact AIR-2, below). The BAAQMD emissions thresholds were established to identify projects that have the potential to generate a substantial amount of criteria air pollutants. Because the proposed project would not exceed these thresholds, it would not be considered by the BAAQMD.

The AQPs also assume that all mandatory regulations to reduce air pollution would be adhered to. Therefore, to conform to the assumptions in the AQP, a project must be consistent with all applicable measures contained in the applicable AQP. The Clean Air Plan contains 85 control measures to reduce air pollutants and GHGs at the local, regional, and global levels. Along with the traditional stationary, area, mobile source, and transportation control measures, the Clean Air Plan contains several control measures designed to protect the climate and to promote mixed-use and compact development to reduce vehicle emissions and exposure to pollutants from stationary and mobile sources. The Clean Air Plan also includes an account of the implementation status of control measures identified in the 2010 Clean Air Plan.

Table 4 lists the relevant Clean Air Plan policies to the proposed project and evaluates the proposed project's consistency with the policies. As shown below, the proposed project would be consistent with applicable measures.

Table 4: Project Consistency with Applicable Clean Air Plan Control Measures

Control Measure	Project Consistency
Buildings Control Measures	
BL1: Green Buildings	**Consistent**. The proposed project would not conflict with the implementation of this measure. The proposed project would comply with the latest energy efficiency standards and incorporate applicable energy efficiency features designed to reduce project energy consumption.
BL4: Urban Heat Island Mitigation	**Consistent.** The proposed project would incorporate landscaping through the preservation of 11 existing trees on-site and the planting of 111 new trees. In addition, the proposed project would include 69,055 square feet of pervious area. The proposed project would provide landscaping, including trees, according to City standards that would reduce the urban heat island effect.
Energy Control Measures	
EN1: Decarbonize Electricity Generation	**Consistent.** The proposed project would not conflict with the implementation of this measure. The proposed project would comply with the latest energy efficiency standards and incorporate applicable energy efficiency features designed to reduce project energy consumption. In addition, as a low-rise residential development, the proposed project would be required to comply with the standards contained in the 2022 California Building Standards Code (CBC), Title 24, Part 6, Subchapter 8, which includes rooftop solar panels. The proposed project would be consistent with this measure.
EN2: Decrease Electricity Demand	**Consistent.** The proposed project would be required to conform to the energy efficiency requirements of the CBC, also known as Title 24, which was adopted to meet an Executive Order in the Green Building Initiative to improve the energy efficiency of buildings through aggressive standards. The 2022 Title 24 Standards are the current State building regulations, which went into effect on January 1, 2023. Proposed buildings that would receive building permits after January 1, 2023, would be subject to the 2022 Title 24 Standards, including the proposed project.
Natural and Working Lands Control Measures	
NW2: Urban Tree Planting	**Consistent.** The proposed project would incorporate landscaping through the preservation of 11 existing trees on-site and the planting of 111 new trees.
WA3: Green Waste Diversion	**Consistent.** The waste service provider for the proposed project would be required to meet the Assembly Bill (AB) 341 and Senate Bill (SB) 939 and SB 1374 requirements that require waste service providers to divert green waste. All plant refuse generated during operations of the proposed project would be recycled off-site.
WA4: Recycling and Waste Reduction	**Consistent.** The waste service provider for the proposed project would be required to meet the AB 341 and SB 939 and SB 1374 requirements that require waste to be recycled.

Control Measure	Project Consistency
Stationary Control Measures	
SS36: Particulate Matter from Trackout	**Consistent with Mitigation.** Mud and dirt that may be tracked out onto the nearby public roads during construction activities shall be removed promptly by the contractor based on the Bay Area Air Quality Management District's (BAAQMD's) requirements. Standard Permit Condition AQ No. 1 requires the proposed project to implement Best Management Practices (BMPs) recommended by the BAAQMD for fugitive dust emissions during construction.
SS37: Particulate Matter from Asphalt Operations	**Consistent.** Asphalt used during project construction would be subject to BAAQMD Regulation 8, Rule 15-Emulsified and Liquid Asphalts. Although this rule does not directly apply to the proposed project, it does limit the reactive organic gas (ROG) content of asphalt available for use during construction by regulating the sale and use of asphalt. Using asphalt from facilities that meet BAAQMD regulations, the proposed project would be consistent with this Clean Air Plan measure.
Transportation Control Measures	
TR9: Bicycle and Pedestrian Access and Facilities	**Consistent.** Pedestrian access would be provided via the proposed internal walkways connecting to Camden Avenue and Singletree Lane. Two bus stops as a part of Santa Clara Valley Transportation Authority (VTA) Bus Route 27 are located within a short walking distance of the site, both along Blossom Hill Road. Bus Route 64B is also located approximately 1 mile east of the site. Therefore, the proposed project would not conflict with and be consistent with the BAAQMD's effort to encourage planning for bicycle and pedestrian facilities.
Source: Bay Area Air Quality Management District (BAAQMD). 2017. Final 2017 Clean Air Plan. April 19.	

In summary, the proposed project would not conflict with any applicable measures under the 2017 Clean Air Plan after implementing Standard Permit Condition AQ No. 1; therefore, the proposed project would be consistent with Criterion 2.

Criterion 3

The proposed project would not preclude extension of a transit line or bike path, propose excessive parking beyond parking requirements, or otherwise create an impediment or disruption to implementation of any AQP control measures. As shown in Table 4 above, the proposed project would incorporate several AQP control measures as project design features, such as utilizing asphalt which would be compliant with BAAQMD regulations, complying with energy efficiency standards contained in the 2022 California Building Standards Code (CBC), and installing landscaping across the project site. Considering this information, the proposed project would not disrupt or hinder the implementation of any AQP control measures. The proposed project is therefore consistent with Criterion 3.

Summary

As discussed above, the proposed project would be consistent with all three criteria after incorporating the identified mitigation. Thus, the proposed project would not conflict with the 2017 Clean Air Plan. Therefore, impacts associated with conflicting with or obstructing the 2017 Clean Air Plan would be less than significant with mitigation incorporated.

Impact AIR-2:	**Would the project result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or State ambient air quality standard (including releasing emissions, which exceed quantitative thresholds for ozone precursors)?**

Less than significant impact. This impact is related to the cumulative effect of a project's criteria pollutant emissions. By its nature, air pollution is largely a cumulative impact resulting from emissions generated over a large geographic region. The nonattainment status of regional pollutants results from past and present development within the Air Basin, and this regional impact is a cumulative impact. Therefore, new development projects (such as the proposed project) within the Air Basin would contribute to this impact only on a cumulative basis. No single project would be sufficient in size, by itself, to result in nonattainment of regional air quality standards. Instead, a project's emissions may be individually limited but cumulatively considerable when evaluated in combination with past, present, and future development projects.

Potential regional impacts could result in exceedances of State or federal standards for NO_X, particulate matter (PM_{10} and $PM_{2.5}$), or CO. NO_X emissions are of concern because of potential health impacts from exposure to NO_X emissions during both construction and operation and as a precursor in the formation of airborne ozone. PM_{10} and $PM_{2.5}$ are of concern during construction because of the potential to emit exhaust emissions from the operation of off-road construction equipment and fugitive dust during earth-disturbing activities (construction fugitive dust). CO emissions are of concern during project operation because operational CO hotspots are related to increases in on-road vehicle congestion and resulting health effects.

ROG emissions are also important because of their participation in the formation of ground level ozone. Ozone is a respiratory irritant and an oxidant that increases susceptibility to respiratory infections and that can cause substantial damage to vegetation and other materials. Elevated ozone concentrations result in reduced lung function, particularly during vigorous physical activity. This health problem is particularly acute in sensitive receptors such as the sick, elderly, and young children.

The cumulative analysis focuses on whether a specific project would result in cumulatively considerable emissions. According to Section 15064(h)(4) of the CEQA Guidelines, the existence of significant cumulative impacts caused by other projects alone does not constitute substantial evidence that the project's incremental effects would be cumulatively considerable. Rather, the determination of cumulative air quality impacts for construction and operational emissions is based on whether the proposed project would result in emissions that exceed the BAAQMD thresholds of significance for construction and operations on a project level. The thresholds of significance represent the allowable emissions each project can generate without generating a cumulatively considerable contribution to regional air quality impacts. Therefore, a project that would not exceed the BAAQMD thresholds of

significance on the project level also would not be considered to result in a cumulatively considerable contribution to these regional air quality impacts. Construction and operational emissions are discussed separately below.

Construction Emissions

During construction, fugitive dust would principally be generated from demolition, site grading and other earthmoving activities. The majority of fugitive dust would remain localized and would be deposited near the project site; however, the potential for impacts from fugitive dust exists unless control measures are implemented to reduce the emissions from this source. Exhaust emissions would also be generated from the operation of the off-road construction equipment and on-road construction vehicles.

Construction Fugitive Dust

PM_{10}/$PM_{2.5}$ (fugitive dust) is recognized to impact local communities. Construction-related activities, such as soil disturbance, grading, and material hauling, can also result in fugitive dust emissions (e.g., $PM_{2.5}$ and PM_{10}). The BAAQMD does not have a numerical threshold for fugitive dust particulate matter emissions. Instead, the BAAQMD bases the determination of significance for fugitive dust on implementing effective control measures. In order for a project to have a less than significant criteria air pollutant impact related to construction-related fugitive dust emissions, it must implement all BAAQMD basic BMPs. Air pollution control measures shall be implemented during construction activities as outlined in Standard Permit Condition AQ No. 1 listed above. With the incorporation of this condition, short-term construction fugitive dust impacts would be less than significant.

Construction Air Pollutant Emissions: ROG, NO_X, Exhaust PM_{10}, and Exhaust $PM_{2.5}$

California Emissions Estimator Model (CalEEMod) Version 2022.1 was used to estimate the proposed project's construction emissions. CalEEMod provides a consistent platform for estimating construction and operational emissions from a wide variety of land use projects and is the model recommended by the BAAQMD for estimating project emissions. Estimated construction emissions are compared with the applicable thresholds of significance established by the BAAQMD to assess ROG, NO_X, exhaust PM_{10}, and exhaust $PM_{2.5}$ construction emissions to determine significance for this criterion.

For the purpose of the analysis, construction of the proposed project is estimated to begin in January 2025 and conclude in November 2027. Note that construction emissions would likely decrease if the construction schedule were deferred to later years because of improvements in technology and more stringent regulatory requirements. The duration of construction activity and associated equipment represents a reasonable approximation of the expected construction fleet as CEQA Guidelines require.

Table 5: Preliminary Construction Schedule

Phase	Phase Start Date	Phase End Date	Working Days per Week	Total Number of Working Days
Demolition	1/6/2025	1/31/2025	5	20
Site Preparation	2/3/2025	2/14/2025	5	10

Phase	Phase Start Date	Phase End Date	Working Days per Week	Total Number of Working Days
Grading	2/17/2025	3/14/2025	5	20
Building Construction	3/17/2025	9/13/2027	5	651
Paving	9/14/2027	10/11/2027	5	20
Architectural Coating	10/12/2027	11/8/2027	5	20

The calculations of pollutant emissions from the construction equipment account for the type of equipment, horsepower and load factors of the equipment, and the duration of equipment use. Average daily construction emissions are compared with the significance thresholds in Table 6.

Table 6: Construction Emissions (Average Daily Rate)

Parameter	Air Pollutants[1] (tons/year)				
	Year	ROG	NO_X	PM_{10} (Exhaust)	$PM_{2.5}$ (Exhaust)
Project Construction					
Demolition	2025	0.025	0.236	0.009	0.009
Site Preparation	2025	0.017	0.158	0.007	0.006
Grading	2025	0.018	0.167	0.007	0.007
Building Construction	2025	0.143	1.147	0.045	0.042
	2026	0.169	1.360	0.050	0.046
	2027	0.114	0.910	0.031	0.029
Paving	2027	0.012	0.095	0.003	0.003
Architectural Coating	2027	1.540	0.009	0.000	0.000
Total Emissions (tons)		1.91	2.94	0.11	0.10
Total Emission (pounds)		3,818.8	5,884.5	214.9	197.8
Average Daily Emissions (lbs/day)[2]		5.15	7.94	0.29	0.27
Significance Threshold (lbs/day)		**54**	**54**	**82**	**54**
Exceeds Significance Threshold?		**No**	**No**	**No**	**No**

Notes:
lbs = pounds
NO_X = oxides of nitrogen
PM_{10} = particulate matter 10 microns in diameter
$PM_{2.5}$ = particulate matter 2.5 microns in diameter
ROG = reactive organic gases
[1] Totals may not add up due to rounding. Calculations use unrounded totals.
[2] Average daily emissions equal total emissions divided by working days (741 workdays).
Source: CalEEMod Output (see Attachment A).

As indicated in Table 6, the construction emissions from all construction activities are below the recommended thresholds of significance; therefore, the proposed project's construction would have less than significant impact related to emissions of ROG, NO_X, exhaust PM_{10}, and exhaust $PM_{2.5}$.

The proposed project would implement Standard Permit Condition AQ No. 1, which incorporates BAAQMD's BMPs to reduce potential impacts of fugitive dust emissions during project construction. In addition, the proposed project would comply with all applicable district rules, including Regulation 6, Rule 1 (General Requirements), and Regulation 6, Rule 6 (Prohibition of Trackout), which require dust generating operations to limit particulate matter emissions. Therefore, project construction would have a less than significant impact with respect to fugitive dust.

Operational Emissions

Operational Air Pollutant Emissions: ROG, NO_X, PM_{10}, and $PM_{2.5}$

Operational emissions would include area, energy, and mobile sources. Area sources would include emissions from architectural coatings, consumer products, and landscape equipment. The proposed project would be all-electric and would not have any natural gas infrastructure. Therefore, there are no direct emissions related to building energy use for space or water heating. Mobile sources include exhaust and road dust emissions from the vehicles that would travel to and from the project site. Pollutants of concern include ROG, NO_X, PM_{10}, and $PM_{2.5}$.

BAAQMD provides easy-reference tables[5] to determine whether projects may have potentially significant criteria air pollutant impacts requiring a detailed analysis. These screening criteria are not thresholds of significance but provide a conservative indication of whether implementing a proposed project could result in potentially significant criteria air pollutants and precursors impacts. If all screening criteria for criteria air pollutants and precursors are met by a proposed project, a detailed assessment of the project's criteria air pollutant and precursor emissions is not required since the emissions from such a project would be under the BAAQMD quantitative thresholds of emissions for these pollutants.

The criteria pollutant screening levels were developed from default assumptions used by CalEEMod 2022.1, using EMFAC2021 emission factors for mobile sources. Each land use subcategory was modeled to determine the project size at which any criteria air pollutant or precursor threshold of significance may be exceeded. If the project is below the BAAQMD screening sizes and does not include stationary sources of operational emissions subject to BAAQMD permitting, then the project would not generate emissions of operational criteria pollutants above the significance threshold. Stationary sources of air pollution (e.g., generators) would not be part of this project, so the screening levels may be used.

The operational screening level from Table 4-1 of the BAAQMD CEQA Air Quality Guidelines for "condo-townhouse" is 637 dwelling units. Projects with fewer dwelling units, provided that they also meet all the other operational screening criteria (i.e., no overlapping construction and operations and project

[5] Bay Area Air Quality Management District (BAAQMD). 2022. CEQA Air Quality Guidelines. April. Website: https://www.baaqmd.gov/~/media/files/planning-and-research/ceqa/ceqa-guidelines-2022/ceqa-guidelines-chapter-3-thresholds_final_v2-pdf.pdf?la=en. Accessed June 4, 2024.

does not include stationary sources subject to permitting) do not need to perform a detailed air quality assessment of their operational emissions to demonstrate that emissions of these pollutants are less than significant. Since the proposed project includes only 108 residential townhome units, it is concluded that operation of the proposed project would result in a less than significant impact related to criteria air pollutants and precursors.

Operational Carbon Monoxide Hotspot

The CO emissions from traffic generated by the proposed project are a concern at the local level because congested intersections can result in high, localized concentrations of CO (referred to as a CO hotspot).

The BAAQMD screening criteria[6] were used to determine whether implementing the proposed project could result in local carbon monoxide emissions that exceed the thresholds of significance. If all the following screening criteria are met, operation of the proposed project would result in a less than significant impact related to carbon monoxide:

- The project is consistent with an applicable congestion management program established by the county congestion management agency for designated roads or highways, the RTP, and local congestion management agency plans.
- Project-generated traffic would not increase traffic volumes at affected intersections to more than 44,000 vehicles per hour.
- Project-generated traffic would not increase traffic volumes at affected intersections to more than 24,000 vehicles per hour where vertical and/or horizontal mixing is substantially limited (e.g., tunnel, parking garage, bridge underpass, natural or urban street canyon, below-grade roadway).

Based on a project-specific traffic analysis by Hexagon[7] the two study intersections would not experience traffic levels above 24,000 and 44,000 vehicles per hours cited in the BAAQMD criteria. Specifically, Figure 11 of the Transportation Analysis shows background plus project traffic peak-hour turning volumes at the two intersections, As shown on Figure 11, the intersection of Camden Avenue and Bossom Hill Road would experience the highest amount of peak-hour volume (3,758 AM peak-hour trips and 3,686 PM peak-hour trips). The peak-hours trip volume experienced at this intersection is significantly below the threshold levels of 24,000 and 44,000 vehicle per hour. Therefore, the proposed project would meet all the CO screening criteria and would result in a less than significant impact related to carbon monoxide.

Impact AIR-3: Would the project expose sensitive receptors to substantial pollutant concentrations?

Less than significant impact with mitigation. The BAAQMD defines a sensitive receptor as the following: "Facilities or land uses that include members of the population that are particularly sensitive to the

[6] Bay Area Air Quality Management District (BAAQMD). 2022. CEQA Air Quality Guidelines. April. Website: https://www.baaqmd.gov/~/media/files/planning-and-research/ceqa/ceqa-guidelines-2022/ceqa-guidelines-chapter-3-thresholds_final_v2-pdf.pdf?la=en. Accessed June 4, 2024.

[7] Kimley-Horn. 2023. Vehicle Miles Traveled (VMT) Due Diligence. May.

effects of air pollutants, such as children, the elderly, and people with illnesses. Examples include schools, hospitals, and residential areas." As specified by the BAAQMD, health risk and hazard impacts should be analyzed for sensitive receptors within a 1,000-foot radius of the project site.[8] The closest existing sensitive receptors include the following:

- Single-family residences, immediately adjacent to the east and north of the project boundaries.
- Beacon School, immediately west of the project boundary.

The proposed project would result in a potentially significant impact on sensitive receptors if any of the following three following criteria are met:

- **Criterion 1:** Construction of the proposed project would exceed the BAAQMD health risk significance thresholds.
- **Criterion 2:** Operation of the proposed project would exceed the BAAQMD health risk significance thresholds.
- **Criterion 3:** The proposed project would locate new sensitive receptors (residents) that could be subject to existing sources of TACs at the project site which exceed the BAAQMD cumulative health risk significance thresholds.

Criterion 1: Project Construction Toxic Air Pollutants

An assessment was made of the potential health impacts on surrounding sensitive receptors resulting from TAC emissions during construction. The assessment is provided below, while Attachment A provides the detailed assumptions and modeling parameters.

Diesel particulate matter (DPM) has been identified by the ARB as a carcinogenic substance. Major sources of DPM include off-road construction equipment and heavy-duty delivery and vendor trucks and worker activities. For purposes of this analysis, DPM is represented as exhaust emissions of PM_{10}. $PM_{2.5}$ concentrations were calculated using the $PM_{2.5}$ emission rates using the dispersion modeling methods used for the PM_{10} and the Health Risk Assessment (HRA).

Estimation of Construction DPM Emissions

Construction DPM and $PM_{2.5}$ exhaust emissions were estimated using CalEEMod, Version 2022.1, as described under Impact AIR-2. For the purpose of the analysis, construction of the proposed project is estimated to begin in January 2025 and conclude in November 2027. Project construction emissions were assumed to be distributed over the project site with a working schedule of 8 hours per day, 5 days per week. Table 7 and Table 8 summarize the project's on-site and off-site DPM and $PM_{2.5}$ emissions during construction of the proposed project with and without the application of MM AIR-1. As identified in the HRA conducted below and the results shown in Table 9 and Table 10, DPM emissions generated by project construction would result in an exceedance of cancer risk thresholds and would require the implementation of MM AIR-1 to ensure impacts are less than significant.

[8] Bay Area Air Quality Management District (BAAQMD). 2022. CEQA Air Quality Guidelines. April. Website: https://www.baaqmd.gov/~/media/files/planning-and-research/ceqa/ceqa-guidelines-2022/ceqa-guidelines-chapter-3-thresholds_final_v2-pdf.pdf?la=en. Accessed June 18, 2024.

Table 7: Project DPM Construction Emissions Over Construction Period

Scenario	On-site DPM—Area (lbs)	Off-site DPM—Road Segments (lbs)	Total DPM Emissions (lbs)
Unmitigated Project	211.09	3.77	214.86
Mitigated Project	52.69	3.77	56.46

Notes: Off-site emissions includes all emissions from Worker, Vendor, and Haul trucks. Quantities within 1,000 feet included in the Health Risk Assessment (HRA) are calculated and presented with HRA emissions in Attachment A.
DPM = diesel particulate matter (as characterized by PM_{10} exhaust)
Emissions Source: Attachment A.

Table 8: Project $PM_{2.5}$ Construction Emissions Over **Construction Period**

Scenario	On-site $PM_{2.5}$ —Area (lbs)	Off-site $PM_{2.5}$ —Road Segments (lbs)	Total $PM_{2.5}$ Emissions (lbs)
Unmitigated Project	262.80	120.97	383.77
Mitigated Project	118.84	120.97	239.82

Notes:
$PM_{2.5}$ = particulate matter less than 2.5 microns in diameter
* $PM_{2.5}$ emissions includes fugitive dust and brake and tire wear for Worker, Vendor, and Haul Trucks for their entire trip length.
Emissions Source: Attachment A

To assess impacts to off-site sensitive receptors, the American Meteorological Society/EPA Regulatory Model (AERMOD) air dispersion model was used to estimate the concentrations from PM_{10} and $PM_{2.5}$ exhaust at nearby sensitive receptors within 1,000 feet of the project site to determine the Maximally Exposed Individual Receptor (MEIR), which is defined as the single receptor with the highest exposure in a given study area (i.e., worst-case estimate). The MEIR was determined for the single-family residence immediately to the east of the project site located at Blossom Park Lane (597548.5 UTM E and 4121464.55 UTM N). See Location of Maximum Exposed Receptor map within Attachment A for a depiction of receptors within the 1,000-foot buffer area and the location of the MEIR.

Estimation of Cancer Risks

The BAAQMD has developed a set of guidelines for estimating cancer risks resulting from exposure to TACs.[9] These guidelines require the use of Hotspots Analysis and Reporting Program (HARP2) software to identify the cancer risk associated with DPM generated during construction activities.

[9] Bay Area Air Quality Management District (BAAQMD). 2020. BAAQMD Health Risk Assessment Modeling Protocol. Website: https://www.baaqmd.gov/~/media/files/ab617-community-health/facility-risk-reduction/documents/baaqmd_hra_modeling_protocol-pdf.pdf?la=en. Accessed June 22, 2024.

Estimation of Non-Cancer Chronic Hazards

An evaluation of the potential non-cancer effects of chronic chemical exposures was also conducted. Adverse health effects are evaluated by comparing the annual receptor concentration of each chemical compound with the appropriate reference exposure limit. Available reference exposure limits promulgated by the California Office of Environmental Health Hazard Assessment (OEHHA) were considered in the assessment.

Risk characterization for non-cancer health hazards from TACs is expressed as a hazard index (HI). HI is a ratio of the predicted concentration of the proposed project's emissions to a concentration considered acceptable to public health professionals, termed the reference exposure limit. The HI assumes that chronic sub-threshold exposures adversely affect a specific organ or organ system (toxicological endpoint). For each discrete chemical exposure, target organs presented in regulatory guidance were used. Each chemical concentration or dose is divided by the appropriate toxicity reference exposure level to calculate the HI. For compounds affecting the same toxicological endpoint, this ratio is summed. Where the total equals or exceeds 1, a health hazard is presumed to exist. For purposes of this assessment, the TAC of concern is DPM, for which the OEHHA has defined a reference exposure limit for DPM of 5 micrograms per cubic meter ($\mu g/m^3$). The principal toxicological endpoint assumed in this assessment was through inhalation.

The area surrounding the project site is largely residential and there is an elementary school immediately west of the project boundary. Accordingly, the analysis below evaluates the MEIR and Beacon School within the 1,000 feet buffer zone. Impacts at all other receptors would be less than this and decrease with increasing distance from the site.

Table 9: summarizes the cancer risk and HI results for unmitigated project construction at the MEIR and Beacon School. The chronic hazards from DPM and $PM_{2.5}$ are below the BAAQMD thresholds or significance. However, DPM (characterized by PM_{10} exhaust) emissions would result in an incremental cancer risk of approximately 31.5 individuals per one million, which exceeds the BAAQMD's significance threshold of 10 individuals per one million. Table 9 summarizes the cancer risk and HI results after implementation of MM AIR-1.

Table 9: Estimated Cancer Risks and Chronic Non-Cancer Hazards (Unmitigated Construction Scenario)

Cancer Risk Scenario[1]	Cancer Risk (risk per million)	Chronic Non-Cancer Hazard Index	$PM_{2.5}$ Exhaust ($\mu g/m^3$)
Maximum Exposed Individual Receptor[2]	**31.5**	0.018	0.19557
School (Beacon School)	**6.8**	0.007	0.07747
Thresholds of Significance	**10**	**1**	**0.3**
Exceeds Individual Source Threshold?	**Yes**	**No**	**No**

Cancer Risk Scenario[1]	Cancer Risk (risk per million)	Chronic Non-Cancer Hazard Index	$PM_{2.5}$ Exhaust ($\mu g/m^3$)

Notes:
$\mu g/m^3$ = micrograms per cubic meter
MEIR = Maximally Exposed Individual Receptor
PM_{10} = particulate matter less than 10 microns in diameter
$PM_{2.5}$ = particulate matter less than 2.5 microns in diameter
REL = Reference Exposure Level
[1] The proposed project construction cancer risk and chronic non-cancer hazard estimates shown here are based on a construction fleet with a Statewide average engine Tier distribution for the given calendar year.
[2] The maximum impact was determined for the single-family residence immediately to the east of the project site at 597548.5 UTM E and 4121464.55 UTM N.
Emissions Source: Attachment A.
Thresholds Source: Bay Area Air Quality Management District (BAAQMD). 2022. CEQA Air Quality Guidelines. April. Website: https://www.baaqmd.gov/~/media/files/planning-and-research/ceqa/ceqa-guidelines-2022/ceqa-guidelines-chapter-3-thresholds_final_v2-pdf.pdf?la=en. Accessed June 17, 2024.

The proposed project would implement a mitigation measure to reduce the cancer health impacts shown in Table 9: to a less than significant level. MM AIR-1 would ensure that emissions of DPM are reduced by requiring the use of Tier 4 Final engines for all construction equipment equal to or greater than 25 horsepower. As shown in Table 10: below, the implementation of MM AIR-1 would ensure that construction DPM emissions generated by the proposed project would not result in an exceedance of BAAQMD cancer risk and chronic non-cancer HI thresholds.

Table 10: Estimated Cancer Risks and Chronic Non-Cancer Hazards (MM AIR-1)

Cancer Risk Scenario[1]	Cancer Risk (risk per million)	Chronic Non-Cancer Hazard Index[2]	$PM_{2.5}$ Exhaust ($\mu g/m^3$)
Maximum Exposed Individual Receptor[3]	8.00	<0.01	0.10658
School (Beacon School)	1.76	<0.01	0.04261
Thresholds of Significance	**10**	**1**	**0.3**
Exceeds Individual Source Threshold?	**No**	**No**	**No**

Notes:
$\mu g/m^3$ = micrograms per cubic meter
MEIR = Maximally Exposed Individual Receptor
PM_{10} = particulate matter less than 10 microns in diameter
$PM_{2.5}$ = particulate matter less than 2.5 microns in diameter
[1] The mitigated project construction cancer risk and chronic non-cancer hazard estimates shown here incorporate the use of Tier 4 Final engines for all construction equipment rated for 25 horsepower or greater, as required with MM AIR-1.
[2] Chronic non-cancer hazard index was estimated by dividing the annual DPM concentration (as $PM_{2.5}$ exhaust) by the reference exposure level of 5 $\mu g/m^3$.
[3] The maximum impact was determined for the single-family residence immediately to the east of the project site at 597548.5 UTM E and 4121464.55 UTM N.
Emissions Source: Attachment A.
Thresholds Source: Bay Area Air Quality Management District (BAAQMD). 2022. CEQA Air Quality Guidelines. April. Website: https://www.baaqmd.gov/~/media/files/planning-and-research/ceqa/ceqa-guidelines-2022/ceqa-guidelines-chapter-3-thresholds_final_v2-pdf.pdf?la=en. Accessed June 17, 2024.

As noted in Table 10, the proposed project's construction emissions would not exceed any applicable BAAQMD significance threshold after incorporating MM AIR-1. Therefore, project construction would not result in significant health impacts to nearby sensitive receptors with incorporation of the identified mitigation.

Criterion 2: Project-specific Operational Toxic Air Pollutants

The proposed project is a residential project and would not have stationary sources or on-site sources of TACs during operation. Traffic generated by the project would consist of mostly light-duty gasoline-powered vehicles, which are not a significant source of TAC and air pollutant emissions. Thus, the proposed project would not generate a significant amount of DPM or other TAC emissions during operation and would not result in significant health impacts to nearby sensitive receptors during operation.

Criterion 3: Cumulative Health Risk Assessment

The BAAQMD recommends assessing the potential cumulative impacts from sources of TACs within 1,000 feet of a project. As a result, a cumulative HRA was performed that examined the cumulative impacts of the proposed project's construction emissions and existing sources of TAC emissions within 1,000 feet of the proposed project. As previously discussed, the MEIR was determined to be the single-family residence immediately east of the project site.

For a project-level analysis, BAAQMD provides several tools for use in screening potential sources of TACs. This includes the Stationary Source Screening Map[10] which provides all the stationary sources permitted by the Air District with risk and hazard estimates; Roadway Screening Data Layers providing estimated cancer risks, hazards, and $PM_{2.5}$ concentrations for all Bay Area highways and surface streets;[11] and Rail and Railyard Screening Data Layers,[12] providing estimated cancer risks, hazards, and $PM_{2.5}$ concentrations from diesel locomotives and select railyards.

The cumulative health risk results during project construction, including health risks from the existing stationary sources, roadway, and rail data from the BAAQMD sources above, are summarized in Table 11. No rail sources were identified within 1,000 feet of the project site and the BAAQMD Railyard Screening Layers had no data for rail sources at the site. Outputs from the BAAQMD screening tools are documented in Attachment A, with the HRA results. Locations of the stationary sources and their distances from the project site are shown in the stationary sources screening map in Attachment A.

[10] Bay Area Air Quality Management District (BAAQMD). 2023. Stationary Source Screening Map. Website: https://baaqmd.maps.arcgis.com/apps/webappviewer/index.html?id=845658c19eae4594b9f4b805fb9d89a3. Accessed June 1, 2024.
[11] Bay Area Air Quality Management District (BAAQMD). 2022. CEQA Roadway Layers. December.
[12] Bay Area Air Quality Management District (BAAQMD). 2024. CEQA Rail and Railyard Layers. May.

Table 11: Summary of the Cumulative Health Impacts at the MEIR during Construction

Source	Source Name/Type	Cancer Risk (per million)	Chronic Hazard Index	Maximum Annual $PM_{2.5}$ Concentration ($\mu g/m^3$)
Project				
Mitigated Construction[1]	Diesel Construction Equipment	8.00	<0.01	0.107
Stationary Sources[2]				
Facility ID 15104	Verizon Wireless - Camden & Hicks	0.61	0.002	0.001
Facility ID 110679	ARCO Facility #02155	19.12	0.083	0
Existing Roadways[3]				
Existing Roadways		4.08	0.015	0.109
Cumulative Health Risks				
Cumulative Total with Mitigated Project Construction		31.81	0.1	0.217
BAAQMD Cumulative Thresholds of Significance		**100**	**10**	**0.8**
Threshold Exceedance?		**No**	**No**	**No**

Notes:
$\mu g/m^3$ = micrograms per cubic meter
BAAQMD = Bay Area Air Quality Management District
MEIR = Maximally Exposed Individual Receptor
$PM_{2.5}$ = particulate matter less than 2.5 microns in diameter
TAC = toxic air contaminant
[1] The mitigated project construction cancer risk and chronic non-cancer hazard estimates shown here incorporate the use of Tier 4 Final engines for all construction equipment rated for 25 horsepower or greater, as required with MM AIR-1.
[2] Risks and hazards for cumulative sources within 1,000 feet are screening values for risks at the permitted source location and represent conservative screening values as they have not been adjusted for distance from receptor.
[3] BAAQMD Roadway layers provide results for the combined contribution of all freeways and surface streets at each receptor and therefore impacts are not from a single surface street or freeway but an aggregate of their impacts. The impact of the roadways would depend both on their traffic volume and proximity. High traffic roadways emit TACs at much higher rates than surface streets, but their impacts are dissipated by distance. Nearby surface streets have lower traffic volumes and emissions, but their impact is more localized. The nearest contributing roadway with high traffic values is State Route (SR) 85 which is located more than 1 mile north of the project site.
Source: Attachment A

As noted in Table 10, the cumulative impacts from mitigated project construction and existing sources of TACs would be less than the BAAQMD cumulative thresholds of significance for cancer risk and non-cancer chronic hazard and annual $PM_{2.5}$ concentrations. Therefore, the proposed project, along with cumulative sources of TAC emissions within 1,000 feet, would be below the BAAQMD's cumulative thresholds of significance, and there would be no cumulatively considerable or significant impact.

The Project as a Receptor

The proposed project would locate new sensitive receptors (residents) that could be subject to existing sources of TACs at the project site. However, the California Supreme Court concluded in *California Building*

Industry Association v. BAAQMD that agencies generally subject to CEQA are not required to analyze the impact of existing environmental conditions on a project's future users or residents. Although impacts from existing sources of TAC emissions on sensitive receptors on the project site are not subject to CEQA, Policy MS-11.1 of the City of San José General Plan requires the completion of an analysis of cumulative TAC sources for new sensitive land uses, such as new residential developments, and to incorporate effective mitigation into project designs to avoid significant risks to health and safety.[13]

To determine the necessity of measures beyond those already required for the proposed project through compliance with regulations, the BAAQMD screening analysis was applied at the project site to evaluate whether existing TACs could adversely affect individuals living within the proposed project. The BAAQMD-provided tools for screening potential sources of TACs were used for this purpose.

Table 12 summarizes the cumulative health impacts at the project site at project buildout.

Table 12: Summary of the Cumulative Health Impacts at the Project Site

Source Name/Type	Cancer Risk (per million)	Chronic Hazard Index	Maximum Annual $PM_{2.5}$ Concentration ($\mu g/m^3$)
Stationary Sources[1]			
Facility ID 15104 – Verizon Wireless	0.613	0.002	0.001
Facility ID 110679 - ARCO	19.116	0.083	0
Existing Roadways[2]			
Existing Roadways	21.989	0.061	0.305
Cumulative Health Risks			
Cumulative Total	41.718	0.146	0.306
BAAQMD Cumulative Thresholds of Significance	**100**	**10**	**0.8**
Threshold Exceedance?	**No**	**No**	**No**

Notes:
$\mu g/m^3$ = micrograms per cubic meter
BAAQMD = Bay Area Air Quality Management District
$PM_{2.5}$ = particulate matter less than 2.5 microns in diameter[1]
[1] Risks and hazards for cumulative sources within 1,000 feet are screening values for risks at the permitted source location and represent conservative screening values as they have not been adjusted for distance from receptor.
[2] Greatest value for cancer risk, chronic hazard index and annual $PM_{2.5}$ concentrations on-site was found at coordinates UTM 597333.04 E and 4121609.32 N
No rail sources were identified within 1,000 feet of the project site and the BAAQMD Railyard Screening Layers had no data for rail sources at the site.
Source: Attachment A.

[13] City of San José. 2020. Envision San José 2040 General Plan. Website: https://www.sanjoseca.gov/home/showpublisheddocument/22359/637394795874170000. Accessed June 18, 2024.

As shown in Table 12, the cumulative health impacts to the future on-site residents from existing TAC emission sources located within 1,000 feet of the project site are below BAAQMD's cumulative significance threshold for cancer risk, chronic hazards, and annual $PM_{2.5}$ concentrations. As such, the proposed project would result in a less than significant cumulative health impact related to exposing sensitive receptors to substantial concentrations of pollutants. Thus, the cumulative health risk impacts from project construction and operation would be less than significant after incorporation of identified mitigation.

Criterion 4: CO Hotspot

As discussed under Impact AIR-2, project operational CO hotspot impact would be less than significant.

In summary, with implementation of Standard Permit Condition AQ No.1 and MM AIR-1, the proposed project would not expose sensitive receptors to substantial pollutant concentrations during construction and operation. Impacts would be less than significant with mitigation incorporated.

Impact AIR-4:	**Would the project result in other emissions (such as those leading to odors or) adversely affecting a substantial number of people?**

Less than significant impact. The ability to detect odors varies considerably among the populations and is subjective. The BAAQMD does not have a recommended odor threshold for construction activities. However, the BAAQMD recommends operational screening criteria based on the distance between receptors and types of sources known to generate odors.

Sensitive receptors are located immediately east and north of the site. Project construction would generate diesel exhaust and ROGs; however, these emissions would disperse rapidly from the project site and therefore would not create significant odors affecting a substantial number of people. As such, construction odor impacts would be less than significant.

Land uses typically associated with objectionable odors include wastewater treatments plants, compost facilities, landfills, solid waste transfer stations, fiberglass manufacturing facilities, paint/coating operations (e.g., auto body shops), dairy farms, petroleum refineries, asphalt batch plants, chemical manufacturing, and food manufacturing facilities, as shown in Table 5-4, Odor Screening Distances, in Chapter 5 Project-level Air Quality Impacts, 2022 BAAQMD CEQA Guidelines.[14] The proposed project would involve the development of residences whose operations could lead to odors from associated laundry cleaning, vehicle exhaust, outdoor cooking, and waste disposal. However, such odors generated by project operation would be small in quantity and duration and likely not generate objectionable odors that may affect a substantial number of nearby receptors. As such, operation odor impacts would be less than significant.

[14] Bay Area Air Quality Management District (BAAQMD). 2022. BAAQMD CEQA Guidelines, Chapter 5 Project-level Air Quality Impacts, Table 5-4, Odor Screening Distances.

The proposed project, during operation, would also be an odor receptor. Using Google Maps, there are no odor generating sources identified within the associated screening distances as provided in the 2022 BAAQMD CEQA Guidelines. The odor impact for the project operation would be less than significant.

Recommended Mitigation

Standard Permit Conditions

AQ No. 1 The following measures shall be implemented during all phases of construction to control dust and exhaust at the project site:

- Water active construction areas at least twice daily or as often as needed to control dust emissions.
- Cover trucks hauling soil, sand, and other loose materials and/or ensure that all trucks hauling such materials maintain at least two feet of freeboard.
- Remove visible mud or dirt trackout onto adjacent public roads using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited.
- Enclose, cover, water twice daily or apply non-toxic soil binders to exposed stockpiles (dirt, sand, etc.).
- Pave new or improved roadways, driveways, and sidewalks as soon as possible.
- Lay building pads as soon as possible after grading unless seeding or soil binders are used.
- Replant vegetation in disturbed areas as quickly as possible.
- Install sandbags or other erosion control measures to prevent silt runoff to public roadways.
- Minimize idling times either by shutting off equipment when not in use or reducing the maximum idling time to 5 minutes (as required by the California Airborne Toxics Control Measure [ATCM], Title 13, Section 2485 of the California Code of Regulations [CCR]). Provide clear signage for construction workers at all access points.
- Maintain and property tune construction equipment in accordance with manufacturer's specifications. Check all equipment by a certified mechanic and record a determination of "running in proper condition" prior to operation.
- Post a publicly visible sign with the telephone number and person to contact at the lead agency regarding dust complaints.

Mitigation Measures

MM AIR-1 All off-road equipment equal to or greater than 25 horsepower shall meet either United States Environmental Protection Agency (EPA) or California Air Resources Board (ARB) Tier 4 Final off-road emission standards during all construction activities. The project applicant shall submit a construction management plan to the Director of Planning, Building and Code Enforcement or the Director's designee for review and approval prior to issuance of any grading and building permits.

The construction management plan shall demonstrate that the off-road equipment used on-site to construct the project would comply with Tier 4 Final off-road emission standards. Off-road equipment descriptions and information included in the construction management plan may include but are not limited to equipment type, equipment manufacturer, equipment identification number, engine model year, engine certification (Tier rating), horsepower, and engine serial number.

GREENHOUSE GAS EMISSIONS IMPACT ANALYSIS

Because BAAQMD's 2022 GHG significance thresholds are developed to be consistent with State climate goals, if a project incorporates all required design elements and therefore results in a less than significant impact under BAAQMD's GHG thresholds, it follows that the project would also be consistent with State and local policies for GHG emission reduction. Conversely, a project that does not include all design elements required under the BAAQMD GHG significance threshold would not be consistent with the State's climate goals, thereby resulting in a significant GHG impact. Accordingly, the analysis below addresses both Impact GHG-1 and Impact GHG-2.

According to CEQA Guidelines Appendix G, to determine whether impacts related to GHG emissions are significant environmental effects, the following questions are analyzed and evaluated.

Would the project result in:

Impact GHG-1	**Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?**
or	
Impact GHG-2	**Would the project conflict with any applicable plan, policy, or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases?**

Significant and Unavoidable. Both construction and operational activities have the potential to generate GHG emissions. The proposed project would generate GHG emissions during temporary (short-term) construction activities, such as site grading, operation of construction equipment, operation of on-site heavy-duty construction vehicles, hauling of materials to and from the project site, asphalt paving, and construction worker vehicle trips. Construction activities would vary over the duration of project construction.

Long-term operational GHG emissions would result from project-generated vehicular traffic, operation of any landscaping equipment, and off-site generation of electrical power over the life of the proposed project, the energy required to convey water to and wastewater from the project site, the emissions associated with the hauling and disposal of solid waste from the project site, and any fugitive refrigerants from air conditioning or refrigerators.

Global climate change is not confined to a particular project area and is generally accepted as the consequence of global industrialization over the last 200 years. A typical project, even a very large one, does not generate enough GHG emissions on its own to influence global climate change significantly; hence, the issue of global climate change is, by definition, a cumulative environmental impact. Therefore, this section measures the proposed project's incremental contribution to the cumulative environmental impact. The following is a discussion of the proposed project's contribution to GHG emissions during both the construction and operation phases. The proposed project is analyzed against BAAQMD's qualitative thresholds; therefore, the proposed project's GHG emissions quantified below are for informational purposes only.

Construction

At the time of this analysis, the construction of the proposed project was anticipated to begin in January 2025 and end in November 2027. The proposed project's construction emissions are presented in Table 12. As vehicle and equipment fuel efficiencies and emission control standards continue to incrementally improve with each year, project construction emissions are likely to decrease nominally from what is shown in Table 12 should the construction schedule move to later years. Therefore, the construction GHG emissions contained in Table 12 represent a conservative assessment of project construction emissions. CalEEMod outputs which detail the GHG emissions during each construction phase are provided in Attachment A. The proposed project would generate approximately 886 metric tons of carbon dioxide equivalents (MT CO_2e) during construction.

Table 13: Proposed Project Construction GHG Emissions

Construction Year	Total MT CO_2e per year (approx.)
2025	338
2026	302
2027	246
Entire Construction Duration (2025-2027)	
Total	**886**
Amortized over 30 years	***29.5***

Notes:
Because of rounding, total MT CO_2e may be marginally different from California Emissions Estimator Model (CalEEMod) output.
MT CO_2e = metric tons of carbon dioxide equivalents
Source: Attachment A

Attachment A includes detailed construction assumptions used in estimating the construction GHG emissions. The BAAQMD does not presently provide a construction-related GHG generation threshold but recommends that construction-generated GHGs be quantified and disclosed.

These consist of emissions from on-site operation of construction equipment, vendor and hauling truck trips, and worker trips. The BAAQMD does not presently provide a construction-related GHG emissions threshold. Considering GHG emissions from construction would be temporary and not represent recurring annual emissions, the proposed project would not conflict with reduction goals contained in SB 32 and AB 1279. Therefore, the proposed project would not present a potentially significant impact from construction-related GHG emissions.

Operation

Long-term, operational GHG emissions would result from project-generated vehicular traffic, operation of any landscaping equipment, off-site generation of electrical power over the life of the project, the energy required to convey water to and wastewater from the project site, and the emissions associated with the hauling and disposal of solid waste from the project site.

As with all residential projects within the City, the proposed project is subject to the GHG reduction strategies identified in the City's 2030 GHGRS Compliance Checklist. Although the project's proposed use is inconsistent with the site's General Plan designation, the proposed project would implement and comply with all relevant GHG reduction measures as determined by the City. A complete project comparison is included as Attachment B of this document. In summary, GHG reduction strategies to be incorporated into the proposed project include the following:

- **Zero-Net-Carbon Residential Construction:** The proposed project would comply with the City's reach code, would be designed to be all electric, and would not include natural gas infrastructure or appliances. The proposed project would include rooftop solar panels which would provide renewable energy on-site. As a residential development, the proposed project would be required to comply with the standards contained in the 2022 CBC, Title 24, Part 6, Subchapter 8, which includes rooftop solar panels.
- **Renewable Energy Development:** The proposed project would include rooftop solar panels. As a residential development, the proposed project would be required to comply with the standards contained in the 2022 CBC, Title 24, Part 6, Subchapter 8, which includes rooftop solar panels. Therefore, the proposed project would be compliant with this checklist item.
- **Zero Waste Goal:** The proposed project would be served by Republic Services, which provides organic, non-organic garbage, and recycling services, and GreenWaste Recovery would collect yard trimmings and provide street sweeping services. The proposed project would be required to divert at least 65 percent of waste generated during construction and demolition activities, in compliance with SB 1374 and California Green Building Standards Code (CALGreen) Sections 4.408, 5.408, 301.1.1, and 301.3.
- **Water Conservation:** The proposed project would include the installation of stormwater treatment chambers for the capture and treatment of stormwater. The treatment chambers would provide for improved on-site irrigation of the landscaping, thereby reducing water consumption.

As previously discussed, the BAAQMD's proposed 2022 GHG significance thresholds represent a method for determining whether the proposed project would be cumulatively considerable or whether the proposed project contributes to solving the cumulative problem of climate change, taking into consideration the State's long-term climate goal of carbon neutrality by 2045.

The proposed project is evaluated against the design elements in Criterion A of BAAQMD's 2022 GHG Significance thresholds:

> **All-electric design:** The proposed project would be an all-electric design and would therefore comply with this requirement.
>
> **Energy efficiency:** As demonstrated in the energy analysis below, the proposed project would not result in any wasteful, inefficient, or unnecessary energy usage; therefore, the proposed project is consistent with this design element.
>
> **VMT impact:** As detailed in the project-specific transportation study, residents of the proposed project would generate 13.51 VMT per capita daily as estimated by the City's VMT Evaluation Tool, which exceeds the residential threshold of 11.39 daily VMT per capita. The proposed project would implement a Transportation Demand Management (TDM) Plan, which would include a comprehensive list of TDM measures, including the following Tier 2 multimodal infrastructure improvements and Tier 4 programmatic TDM strategies aimed at reducing the project VMT impact to the extent possible:
>
> - Pedestrian Network Improvements
> - Traffic Calming Measures
> - Transit Access Improvements
> - School Pool Program
> - Voluntary Travel Behavior Change Program
>
> With the implementation of TDM mitigation measures above, the City's VMT Evaluation Tool estimates that impacts to VMT would be reduced to 12.7 VMT per capita. Because project VMT would remain above the City's threshold with mitigation, VMT impacts are considered significant and unavoidable. Therefore, the proposed project is not consistent with the third design element.
>
> **Tier 2 EV Charging Infrastructure:** The last design element relates to implementation of CALGreen Tier 2 level of EV charging infrastructure, which is beyond the mandatory CALGreen requirement of EV charging spaces. Tier 2 level of EV charging infrastructure for townhomes calls for a dedicated 208/240V branch circuit installed in raceway in each dwelling unit per CALGreen Section 4.106.4.1. The City's Reach Code also requires an EV-ready space provided for each dwelling unit with conduit sized for a 40-amp, 208/240-volt dedicated branch circuit for EV supply equipment that is terminated at a receptacle.[15] Therefore, compliance with the City's

[15] City of San José. Ordinance No. 30311. Website: https://www.sanjoseca.gov/home/showpublisheddocument/44078/637082139871830000. Accessed July 23, 2024.

Reach Code would satisfy CALGreen's Tier 2 EV charging requirement. The proposed project is consistent with this design element.

In summary, the proposed project would satisfy three of the four design elements as outlined in the BAAQMD GHG threshold Criterion A. Because the proposed project is inconsistent with the VMT design element, the proposed project would have a significant and unavoidable impact per BAAQMD GHG threshold Criterion A.

Recommended Mitigation

Standard Permit Conditions

None.

Mitigation Measures

None.

ENERGY IMPACT ANALYSIS

According to CEQA Guidelines Appendix G, to determine whether impacts related to energy are significant environmental effects, the following questions are analyzed and evaluated.

Would the project:

Impact ENER-1	**Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?**
or	
Impact ENER-2	**Conflict with or obstruct a State or local plan for renewable energy or energy efficiency?**

Construction Impacts

The construction of the proposed project would result in minor energy expenditures from diesel and gasoline utilized to fuel off-road construction equipment and construction vehicles traveling to and from the project site. Off-road construction equipment would consume an estimated 57,852 gallons of diesel. Vehicles used by workers, vendors, and haul trucks would consume an estimated 35,148 gallons of diesel and gasoline combined. Detailed energy calculations for construction are included in Attachment A.

Construction practices would comply with all local and State regulatory requirements related to equipment age, operation, and design. Adherence with BAAQMD Basic Construction Mitigation Measures would ensure that idling time of trucks are limited to 5 minutes. Construction equipment would be maintained and tuned according to manufacturer specifications, which would promote fuel

efficiency. Compliance with the ARB Regulation for In-use Off-road Diesel-fueled Fleets (Off-road Diesel Regulation) addresses unnecessary idling for off-road construction equipment, preventing the unnecessary or wasteful use of energy.

Operational Impacts

Operational design elements of the project incorporated for consistency with GHG reductions plans have the co-benefits of energy efficiency and reductions in fossil fuel consumption. The project is designed to be all-electric, eliminating natural gas usage. The 108 residential units would comply with Title 24, Part 6, Subchapter 8 of the CBC, which requires the installation of rooftop solar panels. In addition, all proposed indoor and outdoor lighting, including parking lot lighting, would be modern energy efficient lighting, as required under the CBC. The proposed project would also be required to comply with Title 24, Part 11, Chapter 4, of the CBC, which would include the installation of dedicated conduits for future EV charging stations at each of the proposed residential units.

The project would be compliant with all State and local regulations for renewable energy and energy efficiency. The project design will result in a decreasing reliance on fossil fuels and increasing reliance on renewable energy sources, and energy impacts from operation of the project would be less than significant.

Recommended Mitigation

Standard Permit Conditions

None.

Mitigation Measures

None.

CONCLUSION

Based on the project analysis described above, the proposed project would result in less than significant impacts to air quality after incorporation of Standard Permit Conditions AQ No. 1 and MM AIR-1.

The analysis further determined that the proposed project would have a significant contribution to GHG emissions and, as such, would conflict with State and regional plans adopted for the purpose of reducing GHG emissions.

The analysis also determined that the proposed project would not result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources during project construction or operation; nor would the proposed project conflict with or obstruct a State or local plan for renewable energy or energy efficiency.

Thank you for the opportunity to conduct an air quality and GHG emissions and energy impacts analysis. Please feel free to contact me (559.930.6191 or pault@fcs-intl.com) should you have any questions.

Sincerely,



Philip Ault, Director of Noise and Air Quality
FirstCarbon Solutions
2999 Oak Road, Suite 250
Walnut Creek, CA 94597

Attachment A: Air Quality Supporting Information and Modeling Results
Attachment B: Greenhouse Gas Reduction Strategy Checklist

FIRSTCARBON
SOLUTIONS
FCS INTERNATIONAL, INC.

Attachment A:
Air Quality Supporting Information and Modeling Results

Attachment A: Air Quality and Energy Supporting Information

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Mana Camden Residential Project

Asphalt Paving Construction Trips Calculation

Paved area (sf)	125,452
Asphalt volume (cube feet) assume 6 inch pavement	62,726
Asphalt volume (cy)	2,323
Capacity per vendor truck (CY per truck)	16
Trips	**290.40**
Days in paving phase	**20**
One-way Vendor Trips per day	**29**

Concrete area (sf)	
Concrete volume (cube feet) (assumeing 4 inch thick sidewalks)	-
Concrete volume (cy)	-
Capacity per concrete mixer truck (CY per truck)	8
Trips	**-**
Days in paving phase	**20**

Total Trips during Paving Phase	**29**

5670 Camden Avenue Residential Project Custom Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	5670 Camden Avenue Residential Project
Construction Start Date	1/6/2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.40
Precipitation (days)	35.4
Location	37.23521096747065, -121.90207990573734
County	Santa Clara
City	San Jose
Air District	Bay Area AQMD
Air Basin	San Francisco Bay Area
TAZ	1951
EDFZ	1
Electric Utility	San Jose Clean Energy
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.24

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description

Condo/Townhouse	108	Dwelling Unit	3.79	215,904	69,055	5,891	323	From Site Plans - Bldg Footprint = 94,844, Landscaping is defined by All Impervious Areas - Irrigated Landscaping = 63,164 SQft
Parking Lot	125	1000sqft	2.88	2.88	0.00	0.00	—	Total Impervious Area (220,296 SF) - BLdg Footprint (94,844 SF)
Other Asphalt Surfaces	7.41	1000sqft	0.17	0.00	0.00	0.00	—	Off-Site Improvement Along Camden Ave and Singletree Lane per PD

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.52	1.22	9.39	12.4	0.03	0.32	0.72	1.00	0.30	0.18	0.48	—	3,624	3,624	0.22	0.33	4.31	3,733
Mit.	0.87	0.72	9.65	13.5	0.03	0.11	0.72	0.80	0.11	0.18	0.28	—	3,624	3,624	0.22	0.33	4.31	3,733

% Reduced	43%	42%	-3%	-9%	—	66%	—	21%	64%	—	41%	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	154	154	31.7	30.8	0.05	1.37	7.81	9.18	1.26	3.97	5.23	—	5,434	5,434	0.23	0.33	0.11	5,454
Mit.	154	154	14.8	28.9	0.05	0.22	7.81	7.91	0.20	3.97	4.07	—	5,434	5,434	0.23	0.33	0.11	5,454
% Reduced	< 0.5%	< 0.5%	53%	6%	—	84%	—	14%	84%	—	22%	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.04	8.94	7.26	9.75	0.02	0.29	0.84	1.13	0.26	0.29	0.56	—	2,025	2,025	0.08	0.06	0.96	2,047
Mit.	8.75	8.71	5.66	10.2	0.02	0.06	0.84	0.90	0.06	0.29	0.35	—	2,025	2,025	0.08	0.06	0.96	2,047
% Reduced	3%	3%	22%	-5%	—	79%	—	20%	78%	—	37%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.65	1.63	1.33	1.78	< 0.005	0.05	0.15	0.21	0.05	0.05	0.10	—	335	335	0.01	0.01	0.16	339
Mit.	1.60	1.59	1.03	1.87	< 0.005	0.01	0.15	0.16	0.01	0.05	0.06	—	335	335	0.01	0.01	0.16	339
% Reduced	3%	3%	22%	-5%	—	79%	—	20%	78%	—	37%	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	1.17	0.98	7.35	12.4	0.02	0.28	0.72	1.00	0.26	0.17	0.43	—	2,584	2,584	0.09	0.08	3.46	2,614
2026	1.09	0.93	6.91	12.1	0.02	0.24	0.72	0.97	0.22	0.17	0.40	—	2,565	2,565	0.09	0.08	3.13	2,595

2027	1.52	1.22	9.39	11.9	0.03	0.32	0.72	0.99	0.30	0.18	0.48	—	3,624	3,624	0.22	0.33	4.31	3,733
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	4.00	3.37	31.7	30.8	0.05	1.37	7.81	9.18	1.26	3.97	5.23	—	5,434	5,434	0.23	0.20	0.09	5,454
2026	1.08	0.90	6.99	11.7	0.02	0.24	0.72	0.97	0.22	0.17	0.40	—	2,517	2,517	0.10	0.08	0.08	2,545
2027	154	154	9.53	11.6	0.03	0.32	0.72	0.99	0.30	0.18	0.48	—	3,616	3,616	0.22	0.33	0.11	3,720
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	1.04	0.88	7.26	9.75	0.02	0.29	0.84	1.13	0.26	0.29	0.56	—	2,025	2,025	0.08	0.06	0.95	2,047
2026	0.77	0.64	4.97	8.31	0.01	0.17	0.51	0.68	0.16	0.12	0.28	—	1,803	1,803	0.07	0.06	0.96	1,823
2027	9.04	8.94	3.89	6.46	0.01	0.13	0.40	0.52	0.12	0.10	0.21	—	1,468	1,468	0.06	0.06	0.72	1,488
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.19	0.16	1.33	1.78	< 0.005	0.05	0.15	0.21	0.05	0.05	0.10	—	335	335	0.01	0.01	0.16	339
2026	0.14	0.12	0.91	1.52	< 0.005	0.03	0.09	0.12	0.03	0.02	0.05	—	298	298	0.01	0.01	0.16	302
2027	1.65	1.63	0.71	1.18	< 0.005	0.02	0.07	0.10	0.02	0.02	0.04	—	243	243	0.01	0.01	0.12	246

2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.59	0.54	6.91	13.5	0.02	0.07	0.72	0.80	0.07	0.17	0.24	—	2,584	2,584	0.09	0.08	3.46	2,614
2026	0.56	0.52	6.86	13.3	0.02	0.07	0.72	0.80	0.07	0.17	0.24	—	2,565	2,565	0.09	0.08	3.13	2,595
2027	0.87	0.72	9.65	13.1	0.03	0.11	0.72	0.80	0.11	0.18	0.28	—	3,624	3,624	0.22	0.33	4.31	3,733
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.70	0.70	14.8	28.9	0.05	0.22	7.81	7.91	0.20	3.97	4.07	—	5,434	5,434	0.23	0.20	0.09	5,454

2026	0.55	0.49	6.93	12.8	0.02	0.07	0.72	0.80	0.07	0.17	0.24	—	2,517	2,517	0.10	0.08	0.08	2,545
2027	154	154	9.79	12.7	0.03	0.11	0.72	0.80	0.11	0.18	0.28	—	3,616	3,616	0.22	0.33	0.11	3,720
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.39	0.37	5.66	10.2	0.02	0.06	0.84	0.90	0.06	0.29	0.35	—	2,025	2,025	0.08	0.06	0.95	2,047
2026	0.39	0.35	4.93	9.15	0.01	0.05	0.51	0.56	0.05	0.12	0.17	—	1,803	1,803	0.07	0.06	0.96	1,823
2027	8.75	8.71	4.04	7.09	0.01	0.04	0.40	0.44	0.04	0.10	0.14	—	1,468	1,468	0.06	0.06	0.72	1,488
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.07	0.07	1.03	1.87	< 0.005	0.01	0.15	0.16	0.01	0.05	0.06	—	335	335	0.01	0.01	0.16	339
2026	0.07	0.06	0.90	1.67	< 0.005	0.01	0.09	0.10	0.01	0.02	0.03	—	298	298	0.01	0.01	0.16	302
2027	1.60	1.59	0.74	1.29	< 0.005	0.01	0.07	0.08	0.01	0.02	0.03	—	243	243	0.01	0.01	0.12	246

3. Construction Emissions Details

3.1. Demolition (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.86	2.40	22.2	19.9	0.03	0.92	—	0.92	0.84	—	0.84	—	3,425	3,425	0.14	0.03	—	3,437
Demolition	—	—	—	—	—	—	0.82	0.82	—	0.12	0.12	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.13	1.22	1.09	< 0.005	0.05	—	0.05	0.05	—	0.05	—	188	188	0.01	< 0.005	—	188
Demolition	—	—	—	—	—	—	0.04	0.04	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.22	0.20	< 0.005	0.01	—	0.01	0.01	—	0.01	—	31.1	31.1	< 0.005	< 0.005	—	31.2
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.05	0.53	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	119	119	< 0.005	0.01	0.01	121
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.11	0.02	1.36	0.64	0.01	0.02	0.27	0.29	0.01	0.07	0.09	—	1,032	1,032	0.09	0.16	0.06	1,083
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.60	6.60	< 0.005	< 0.005	0.01	6.69
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	—	56.5	56.5	< 0.005	0.01	0.05	59.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.09	1.09	< 0.005	< 0.005	< 0.005	1.11

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.36	9.36	< 0.005	< 0.005	0.01	9.83

3.2. Demolition (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.41	0.41	11.9	18.2	0.03	0.20	—	0.20	0.19	—	0.19	—	3,425	3,425	0.14	0.03	—	3,437
Demolition	—	—	—	—	—	—	0.82	0.82	—	0.12	0.12	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.65	1.00	< 0.005	0.01	—	0.01	0.01	—	0.01	—	188	188	0.01	< 0.005	—	188
Demolition	—	—	—	—	—	—	0.04	0.04	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.12	0.18	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	31.1	31.1	< 0.005	< 0.005	—	31.2
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.05	0.53	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	119	119	< 0.005	0.01	0.01	121
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.11	0.02	1.36	0.64	0.01	0.02	0.27	0.29	0.01	0.07	0.09	—	1,032	1,032	0.09	0.16	0.06	1,083
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.60	6.60	< 0.005	< 0.005	0.01	6.69
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	—	56.5	56.5	< 0.005	0.01	0.05	59.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.09	1.09	< 0.005	< 0.005	< 0.005	1.11
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.36	9.36	< 0.005	< 0.005	0.01	9.83

3.3. Site Preparation (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.94	3.31	31.6	30.2	0.05	1.37	—	1.37	1.26	—	1.26	—	5,295	5,295	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.87	0.83	< 0.005	0.04	—	0.04	0.03	—	0.03	—	145	145	0.01	< 0.005	—	146
Dust From Material Movement	—	—	—	—	—	—	0.21	0.21	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.16	0.15	< 0.005	0.01	—	0.01	0.01	—	0.01	—	24.0	24.0	< 0.005	< 0.005	—	24.1
Dust From Material Movement	—	—	—	—	—	—	0.04	0.04	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.05	0.61	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	139	139	< 0.005	0.01	0.02	141
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.85	3.85	< 0.005	< 0.005	0.01	3.90
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.64	0.64	< 0.005	< 0.005	< 0.005	0.65
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Site Preparation (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.64	0.64	14.7	28.3	0.05	0.10	—	0.10	0.10	—	0.10	—	5,295	5,295	0.21	0.04	—	5,314

Dust From Material Movement	—	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.40	0.78	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	145	145	0.01	< 0.005	—	146
Dust From Material Movement	—	—	—	—	—	—	0.21	0.21	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.07	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	24.0	24.0	< 0.005	< 0.005	—	24.1
Dust From Material Movement	—	—	—	—	—	—	0.04	0.04	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.05	0.61	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	139	139	< 0.005	0.01	0.02	141
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.85	3.85	< 0.005	< 0.005	0.01	3.90
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.64	0.64	< 0.005	< 0.005	< 0.005	0.65
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.07	1.74	16.3	17.9	0.03	0.72	—	0.72	0.66	—	0.66	—	2,959	2,959	0.12	0.02	—	2,970
Dust From Material Movement	—	—	—	—	—	—	2.76	2.76	—	1.34	1.34	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.10	0.89	0.98	< 0.005	0.04	—	0.04	0.04	—	0.04	—	162	162	0.01	< 0.005	—	163

Dust From Material Movement	—	—	—	—	—	—	0.15	0.15	—	0.07	0.07	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.16	0.18	< 0.005	0.01	—	0.01	0.01	—	0.01	—	26.8	26.8	< 0.005	< 0.005	—	26.9
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.05	0.53	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	119	119	< 0.005	0.01	0.01	121
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.03	0.01	0.34	0.16	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	262	262	0.02	0.04	0.01	274
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.60	6.60	< 0.005	< 0.005	0.01	6.69
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	14.3	14.3	< 0.005	< 0.005	0.01	15.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.09	1.09	< 0.005	< 0.005	< 0.005	1.11
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.37	2.37	< 0.005	< 0.005	< 0.005	2.49

3.6. Grading (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.39	0.39	10.3	17.8	0.03	0.08	—	0.08	0.08	—	0.08	—	2,959	2,959	0.12	0.02	—	2,970
Dust From Material Movement	—	—	—	—	—	—	2.76	2.76	—	1.34	1.34	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.56	0.97	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	162	162	0.01	< 0.005	—	163
Dust From Material Movement	—	—	—	—	—	—	0.15	0.15	—	0.07	0.07	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.10	0.18	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	26.8	26.8	< 0.005	< 0.005	—	26.9

Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.05	0.53	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	119	119	< 0.005	0.01	0.01	121
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.03	0.01	0.34	0.16	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	262	262	0.02	0.04	0.01	274
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.60	6.60	< 0.005	< 0.005	0.01	6.69
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	14.3	14.3	< 0.005	< 0.005	0.01	15.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.09	1.09	< 0.005	< 0.005	< 0.005	1.11
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.37	2.37	< 0.005	< 0.005	< 0.005	2.49

3.7. Building Construction (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.85	0.71	6.76	8.98	0.02	0.28	—	0.28	0.25	—	0.25	—	1,606	1,606	0.07	0.01	—	1,611
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.85	0.71	6.76	8.98	0.02	0.28	—	0.28	0.25	—	0.25	—	1,606	1,606	0.07	0.01	—	1,611
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.48	0.41	3.84	5.10	0.01	0.16	—	0.16	0.14	—	0.14	—	911	911	0.04	0.01	—	914
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.07	0.70	0.93	< 0.005	0.03	—	0.03	0.03	—	0.03	—	151	151	0.01	< 0.005	—	151
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.28	0.26	0.19	3.18	0.00	0.00	0.64	0.64	0.00	0.15	0.15	—	666	666	0.01	0.03	2.63	677
Vendor	0.03	0.01	0.40	0.19	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.03	—	311	311	0.02	0.04	0.83	326
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.26	0.25	0.24	2.72	0.00	0.00	0.64	0.64	0.00	0.15	0.15	—	617	617	0.02	0.03	0.07	626
Vendor	0.03	0.01	0.42	0.20	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.03	—	312	312	0.02	0.04	0.02	325
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.14	0.12	1.52	0.00	0.00	0.36	0.36	0.00	0.08	0.08	—	354	354	0.01	0.01	0.64	359
Vendor	0.02	0.01	0.23	0.11	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	177	177	0.01	0.03	0.20	185
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.28	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	58.6	58.6	< 0.005	< 0.005	0.11	59.5
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	29.3	29.3	< 0.005	< 0.005	0.03	30.6
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Building Construction (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.27	6.32	10.1	0.02	0.07	—	0.07	0.06	—	0.06	—	1,606	1,606	0.07	0.01	—	1,611
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.28	0.27	6.32	10.1	0.02	0.07	—	0.07	0.06	—	0.06	—	1,606	1,606	0.07	0.01	—	1,611
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.15	3.59	5.75	0.01	0.04	—	0.04	0.04	—	0.04	—	911	911	0.04	0.01	—	914
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.65	1.05	< 0.005	0.01	—	0.01	0.01	—	0.01	—	151	151	0.01	< 0.005	—	151
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.28	0.26	0.19	3.18	0.00	0.00	0.64	0.64	0.00	0.15	0.15	—	666	666	0.01	0.03	2.63	677
Vendor	0.03	0.01	0.40	0.19	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.03	—	311	311	0.02	0.04	0.83	326
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.26	0.25	0.24	2.72	0.00	0.00	0.64	0.64	0.00	0.15	0.15	—	617	617	0.02	0.03	0.07	626
Vendor	0.03	0.01	0.42	0.20	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.03	—	312	312	0.02	0.04	0.02	325
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.14	0.12	1.52	0.00	0.00	0.36	0.36	0.00	0.08	0.08	—	354	354	0.01	0.01	0.64	359
Vendor	0.02	0.01	0.23	0.11	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	177	177	0.01	0.03	0.20	185

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.28	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	58.6	58.6	< 0.005	< 0.005	0.11	59.5
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	29.3	29.3	< 0.005	< 0.005	0.03	30.6
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.81	0.68	6.37	8.94	0.02	0.24	—	0.24	0.22	—	0.22	—	1,605	1,605	0.07	0.01	—	1,611
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.81	0.68	6.37	8.94	0.02	0.24	—	0.24	0.22	—	0.22	—	1,605	1,605	0.07	0.01	—	1,611
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.58	0.48	4.55	6.39	0.01	0.17	—	0.17	0.16	—	0.16	—	1,147	1,147	0.05	0.01	—	1,151
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.11	0.09	0.83	1.17	< 0.005	0.03	—	0.03	0.03	—	0.03	—	190	190	0.01	< 0.005	—	190
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.25	0.25	0.16	2.96	0.00	0.00	0.64	0.64	0.00	0.15	0.15	—	654	654	0.01	0.03	2.39	664
Vendor	0.03	0.01	0.38	0.19	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.03	—	306	306	0.02	0.04	0.75	321
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.24	0.22	0.22	2.53	0.00	0.00	0.64	0.64	0.00	0.15	0.15	—	606	606	0.02	0.03	0.06	614
Vendor	0.03	0.01	0.40	0.19	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.03	—	306	306	0.02	0.04	0.02	320
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.15	0.14	1.79	0.00	0.00	0.45	0.45	0.00	0.11	0.11	—	437	437	0.01	0.02	0.74	444
Vendor	0.02	0.01	0.28	0.13	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	219	219	0.01	0.03	0.23	229
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.33	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	72.4	72.4	< 0.005	< 0.005	0.12	73.5
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	36.2	36.2	< 0.005	0.01	0.04	37.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Building Construction (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.27	6.32	10.1	0.02	0.07	—	0.07	0.06	—	0.06	—	1,605	1,605	0.07	0.01	—	1,611
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.27	6.32	10.1	0.02	0.07	—	0.07	0.06	—	0.06	—	1,605	1,605	0.07	0.01	—	1,611
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20	0.19	4.51	7.23	0.01	0.05	—	0.05	0.05	—	0.05	—	1,147	1,147	0.05	0.01	—	1,151
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.82	1.32	< 0.005	0.01	—	0.01	0.01	—	0.01	—	190	190	0.01	< 0.005	—	190
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.25	0.25	0.16	2.96	0.00	0.00	0.64	0.64	0.00	0.15	0.15	—	654	654	0.01	0.03	2.39	664
Vendor	0.03	0.01	0.38	0.19	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.03	—	306	306	0.02	0.04	0.75	321
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.24	0.22	0.22	2.53	0.00	0.00	0.64	0.64	0.00	0.15	0.15	—	606	606	0.02	0.03	0.06	614
Vendor	0.03	0.01	0.40	0.19	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.03	—	306	306	0.02	0.04	0.02	320
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.15	0.14	1.79	0.00	0.00	0.45	0.45	0.00	0.11	0.11	—	437	437	0.01	0.02	0.74	444
Vendor	0.02	0.01	0.28	0.13	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	219	219	0.01	0.03	0.23	229
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.33	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	72.4	72.4	< 0.005	< 0.005	0.12	73.5
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	36.2	36.2	< 0.005	0.01	0.04	37.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Building Construction (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.78	0.65	6.08	8.93	0.02	0.21	—	0.21	0.20	—	0.20	—	1,605	1,605	0.07	0.01	—	1,611
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.78	0.65	6.08	8.93	0.02	0.21	—	0.21	0.20	—	0.20	—	1,605	1,605	0.07	0.01	—	1,611
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.39	0.33	3.04	4.47	0.01	0.11	—	0.11	0.10	—	0.10	—	804	804	0.03	0.01	—	807
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.56	0.82	< 0.005	0.02	—	0.02	0.02	—	0.02	—	133	133	0.01	< 0.005	—	134
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.24	0.22	0.16	2.77	0.00	0.00	0.64	0.64	0.00	0.15	0.15	—	642	642	0.01	0.03	2.15	652
Vendor	0.03	0.01	0.36	0.18	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.03	—	300	300	0.02	0.04	0.66	314
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.23	0.21	0.19	2.36	0.00	0.00	0.64	0.64	0.00	0.15	0.15	—	595	595	0.01	0.03	0.06	603
Vendor	0.03	0.01	0.38	0.18	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.03	—	300	300	0.02	0.04	0.02	314
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.10	0.09	1.17	0.00	0.00	0.31	0.31	0.00	0.07	0.07	—	301	301	0.01	0.01	0.47	306
Vendor	0.01	< 0.005	0.19	0.09	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	150	150	0.01	0.02	0.14	157

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.21	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	49.9	49.9	< 0.005	< 0.005	0.08	50.6
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	24.9	24.9	< 0.005	< 0.005	0.02	26.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Building Construction (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.27	6.31	10.1	0.02	0.07	—	0.07	0.06	—	0.06	—	1,605	1,605	0.07	0.01	—	1,611
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.27	6.31	10.1	0.02	0.07	—	0.07	0.06	—	0.06	—	1,605	1,605	0.07	0.01	—	1,611
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.13	3.16	5.07	0.01	0.03	—	0.03	0.03	—	0.03	—	804	804	0.03	0.01	—	807
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.03	0.02	0.58	0.93	< 0.005	0.01	—	0.01	0.01	—	0.01	—	133	133	0.01	< 0.005	—	134
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.24	0.22	0.16	2.77	0.00	0.00	0.64	0.64	0.00	0.15	0.15	—	642	642	0.01	0.03	2.15	652
Vendor	0.03	0.01	0.36	0.18	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.03	—	300	300	0.02	0.04	0.66	314
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.23	0.21	0.19	2.36	0.00	0.00	0.64	0.64	0.00	0.15	0.15	—	595	595	0.01	0.03	0.06	603
Vendor	0.03	0.01	0.38	0.18	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.03	—	300	300	0.02	0.04	0.02	314
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.10	0.09	1.17	0.00	0.00	0.31	0.31	0.00	0.07	0.07	—	301	301	0.01	0.01	0.47	306
Vendor	0.01	< 0.005	0.19	0.09	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	150	150	0.01	0.02	0.14	157
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.21	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	49.9	49.9	< 0.005	< 0.005	0.08	50.6
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	24.9	24.9	< 0.005	< 0.005	0.02	26.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Paving (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.88	0.74	6.94	9.95	0.01	0.30	—	0.30	0.27	—	0.27	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.40	0.40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.88	0.74	6.94	9.95	0.01	0.30	—	0.30	0.27	—	0.27	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.40	0.40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.38	0.55	< 0.005	0.02	—	0.02	0.02	—	0.02	—	82.8	82.8	< 0.005	< 0.005	—	83.1
Paving	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	13.7	13.7	< 0.005	< 0.005	—	13.8
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.03	0.53	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	124	124	< 0.005	< 0.005	0.42	126
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.19	0.04	2.41	1.21	0.01	0.03	0.54	0.56	0.03	0.15	0.17	—	1,989	1,989	0.16	0.31	3.89	2,091
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.04	0.46	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	115	115	< 0.005	< 0.005	0.01	116
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.19	0.04	2.55	1.22	0.01	0.03	0.54	0.56	0.03	0.15	0.17	—	1,990	1,990	0.16	0.31	0.10	2,088
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.35	6.35	< 0.005	< 0.005	0.01	6.45
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.14	0.07	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	109	109	0.01	0.02	0.09	114
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.05	1.05	< 0.005	< 0.005	< 0.005	1.07
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	18.0	18.0	< 0.005	< 0.005	0.02	19.0

3.14. Paving (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.23	0.23	7.21	10.6	0.01	0.09	—	0.09	0.08	—	0.08	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.40	0.40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.23	7.21	10.6	0.01	0.09	—	0.09	0.08	—	0.08	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.40	0.40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.39	0.58	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	82.8	82.8	< 0.005	< 0.005	—	83.1
Paving	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.07	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	13.7	13.7	< 0.005	< 0.005	—	13.8
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.03	0.53	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	124	124	< 0.005	< 0.005	0.42	126
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.19	0.04	2.41	1.21	0.01	0.03	0.54	0.56	0.03	0.15	0.17	—	1,989	1,989	0.16	0.31	3.89	2,091
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.04	0.46	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	115	115	< 0.005	< 0.005	0.01	116
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.19	0.04	2.55	1.22	0.01	0.03	0.54	0.56	0.03	0.15	0.17	—	1,990	1,990	0.16	0.31	0.10	2,088
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.35	6.35	< 0.005	< 0.005	0.01	6.45
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.14	0.07	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	109	109	0.01	0.02	0.09	114
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.05	1.05	< 0.005	< 0.005	< 0.005	1.07
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	18.0	18.0	< 0.005	< 0.005	0.02	19.0

3.15. Architectural Coating (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.11	0.83	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134

Architectural	154	154	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.32	7.32	< 0.005	< 0.005	—	7.34
Architectural Coatings	8.43	8.43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.21	1.21	< 0.005	< 0.005	—	1.22
Architectural Coatings	1.54	1.54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.04	0.47	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	119	119	< 0.005	0.01	0.01	121
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.59	6.59	< 0.005	< 0.005	0.01	6.68
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.09	1.09	< 0.005	< 0.005	< 0.005	1.11
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.16. Architectural Coating (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	1.07	0.96	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	154	154	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.32	7.32	< 0.005	< 0.005	—	7.34
Architectural Coatings	8.43	8.43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.21	1.21	< 0.005	< 0.005	—	1.22
Architectural Coatings	1.54	1.54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.04	0.47	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	119	119	< 0.005	0.01	0.01	121
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.59	6.59	< 0.005	< 0.005	0.01	6.68
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.09	1.09	< 0.005	< 0.005	< 0.005	1.11
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	1/6/2025	1/31/2025	5.00	20.0	—
Site Preparation	Site Preparation	2/3/2025	2/14/2025	5.00	10.0	—
Grading	Grading	2/17/2025	3/14/2025	5.00	20.0	—
Building Construction	Building Construction	3/17/2025	9/13/2027	5.00	651	—
Paving	Paving	9/14/2027	10/11/2027	5.00	20.0	—
Architectural Coating	Architectural Coating	10/12/2027	11/8/2027	5.00	20.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Average	1.00	4.00	367	0.29
Building Construction	Forklifts	Diesel	Average	3.00	4.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	4.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	2.00	10.0	84.0	0.37
Building Construction	Welders	Diesel	Average	1.00	4.00	46.0	0.45
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Tier 4 Interim	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Tier 4 Interim	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Dozers	Diesel	Tier 4 Interim	2.00	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Interim	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Tier 4 Interim	1.00	8.00	36.0	0.38
Grading	Graders	Diesel	Tier 4 Interim	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Tier 4 Interim	1.00	8.00	367	0.40
Grading	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	3.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Tier 4 Interim	1.00	4.00	367	0.29
Building Construction	Forklifts	Diesel	Tier 4 Interim	3.00	4.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	4.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	2.00	10.0	84.0	0.37
Building Construction	Welders	Diesel	Tier 4 Interim	1.00	4.00	46.0	0.45
Paving	Pavers	Diesel	Tier 4 Interim	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Interim	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Tier 4 Interim	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Tier 4 Interim	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—

Demolition	Worker	15.0	11.7	LDA,LDT1,LDT2
Demolition	Vendor	—	8.40	HHDT,MHDT
Demolition	Hauling	14.4	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	11.7	LDA,LDT1,LDT2
Site Preparation	Vendor	—	8.40	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	15.0	11.7	LDA,LDT1,LDT2
Grading	Vendor	—	8.40	HHDT,MHDT
Grading	Hauling	3.65	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	77.8	11.7	LDA,LDT1,LDT2
Building Construction	Vendor	11.5	8.40	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	11.7	LDA,LDT1,LDT2
Paving	Vendor	—	8.40	HHDT,MHDT
Paving	Hauling	29.0	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	15.6	11.7	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	8.40	HHDT,MHDT

Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	11.7	LDA,LDT1,LDT2
Demolition	Vendor	—	8.40	HHDT,MHDT
Demolition	Hauling	14.4	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	11.7	LDA,LDT1,LDT2
Site Preparation	Vendor	—	8.40	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	15.0	11.7	LDA,LDT1,LDT2
Grading	Vendor	—	8.40	HHDT,MHDT
Grading	Hauling	3.65	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	77.8	11.7	LDA,LDT1,LDT2
Building Construction	Vendor	11.5	8.40	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	11.7	LDA,LDT1,LDT2

Paving	Vendor	—	8.40	HHDT,MHDT
Paving	Hauling	29.0	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	15.6	11.7	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	8.40	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	437,206	145,735	0.00	0.00	7,971

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	25,000	—

Site Preparation	0.00	0.00	15.0	0.00	—
Grading	0.00	579	20.0	0.00	—
Paving	0.00	0.00	0.00	0.00	3.05

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Condo/Townhouse	—	0%
Parking Lot	2.88	100%
Other Asphalt Surfaces	0.17	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2025	0.00	116	0.00	0.00
2026	0.00	116	0.00	0.00
2027	0.00	116	0.00	0.00

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	11.7	annual days of extreme heat
Extreme Precipitation	10.0	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	13.1	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	3	0	0	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	3	1	1	3
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	24.9
AQ-PM	13.5
AQ-DPM	14.2
Drinking Water	22.7

Lead Risk Housing	25.9
Pesticides	12.7
Toxic Releases	24.3
Traffic	26.3
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	16.8
Haz Waste Facilities/Generators	47.4
Impaired Water Bodies	12.5
Solid Waste	23.0
Sensitive Population	—
Asthma	6.74
Cardio-vascular	2.12
Low Birth Weights	51.0
Socioeconomic Factor Indicators	—
Education	13.1
Housing	49.7
Linguistic	55.1
Poverty	25.4
Unemployment	22.6

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	85.24316694
Employed	88.70781471

Median HI	86.1157449
Education	—
Bachelor's or higher	81.70152701
High school enrollment	100
Preschool enrollment	75.10586424
Transportation	—
Auto Access	92.6344155
Active commuting	43.60323367
Social	—
2-parent households	73.97664571
Voting	86.41088156
Neighborhood	—
Alcohol availability	57.73129732
Park access	81.35506224
Retail density	35.73720005
Supermarket access	29.18003336
Tree canopy	77.5439497
Housing	—
Homeownership	69.22879507
Housing habitability	75.42666496
Low-inc homeowner severe housing cost burden	64.1986398
Low-inc renter severe housing cost burden	49.67278327
Uncrowded housing	67.80443988
Health Outcomes	—
Insured adults	70.06287694
Arthritis	60.6
Asthma ER Admissions	88.6

High Blood Pressure	65.9
Cancer (excluding skin)	34.5
Asthma	65.7
Coronary Heart Disease	74.7
Chronic Obstructive Pulmonary Disease	76.7
Diagnosed Diabetes	82.1
Life Expectancy at Birth	66.2
Cognitively Disabled	85.7
Physically Disabled	84.3
Heart Attack ER Admissions	92.6
Mental Health Not Good	77.2
Chronic Kidney Disease	79.8
Obesity	72.3
Pedestrian Injuries	75.5
Physical Health Not Good	81.0
Stroke	84.7
Health Risk Behaviors	—
Binge Drinking	43.3
Current Smoker	82.0
No Leisure Time for Physical Activity	83.8
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	41.8
Elderly	58.6
English Speaking	53.0
Foreign-born	57.1

Outdoor Workers	57.8
Climate Change Adaptive Capacity	—
Impervious Surface Cover	48.8
Traffic Density	23.3
Traffic Access	54.4
Other Indices	—
Hardship	21.6
Other Decision Support	—
2016 Voting	89.2

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	6.00
Healthy Places Index Score for Project Location (b)	89.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Characteristics: Utility Information	Changes made to reflect San Jose Clean Energy as the electricity service provider and updated CO2 intensity factor to 116 lb/MWh per SJCE's 2022 power content label and the standard enrollment in Green Source energy mix. Because the GHG intensity is expressed in CO2e, which includes CH4 and N2O, they are zero'ed out
Land Use	based on applicant provided information
Construction: Construction Phases	building construction period increased from 230 to 651 days per total building construction schedule from site plan
Construction: Architectural Coatings	based on applicant provided information
Construction: Trips and VMT	added additional (29) paving vendor daily trips to account for vendor trips to bring in asphalt.
Construction: Off-Road Equipment	Building construction period as provided by applicant is more than double of CalEEMod default. Accordingly, equipment used in building construction are reduced by half to more accurately reflect equipment usage and associated emissions.
Construction: Electricity	Updated CO2 intensity factor to 116 lb/MWh per SJCE's 2022 power content label and the standard enrollment in Green Source energy mix. Because the GHG intensity is expressed in CO2e, which includes CH4 and N2O, they are zero'ed out

San Jose Camden Residential
Health Risk Assessment Inputs

Estimation of Annual Onsite Construction Emissions (Project Site) - PM10 Exhaust as DPM (Unmitigated)

Start of Construction	1/6/2025
End of Construction	11/8/2027
Net Work Days	741
Years	2.8
Total Working Hours	5,928

Construction Year	On-site Construction Activity	On-site PM10E (lbs)
2025	Demolition	18.35
2025	Site Preparation	13.66
2025	Grading	14.44
2025	Building Construction	57.08
2026	Building Construction	62.43
2027	Building Construction	38.79
2027	Paving	5.96
2027	Architectural Coating	0.38
Total PM Exhaust (On-site)		**211.09**

SITE_DPM	**Average (lb/hr)**	**0.0356**

San Jose Camden Residential
Health Risk Assessment Inputs

Estimation of Annual Onsite Construction Emissions (Project Site) - PM10 Exhaust as DPM (Tier 4)

Start of Construction	1/6/2025
End of Construction	11/8/2027
Net Work Days	741
Years	2.8
Total Working Hours	5,928

Construction Year	On-site Construction Activity	On-site PM10E (lbs)
2025	Demolition	4.02
2025	Site Preparation	1.00
2025	Grading	1.69
2025	Building Construction	13.94
2026	Building Construction	17.49
2027	Building Construction	12.22
2027	Paving	1.72
2027	Architectural Coating	0.61
Total PM Exhaust (On-site)		**52.69**

SITE_DPM	**Average (lb/hr)**	**0.0089**

San Jose Camden Residential
Health Risk Assessment Inputs

Estimation of Annual Offsite Construction Emissions (Project Site) - PM10 Exhaust

Start of Construction	1/6/2025
End of Construction	11/8/2027
Net Work Days	741
Years	2.8
Total Working Hours	5,928

Construction		Off-Site Diesel PM10 Exhaust (lbs)			
Year		Haul	Vendor	Worker	Total
2025	Demolition	-	-	0.38	0.38
2025	Site Preparation	-	-	-	-
2025	Grading	-	-	0.10	0.10
2025	Building Construction	-	0.89	-	0.89
2026	Building Construction	-	1.11	-	1.11
2027	Building Construction	-	0.78	-	0.78
2027	Paving	-	-	0.51	0.51
2027	Architectural Coating	-	-	-	-
		-	2.783	0.989	3.772

CalEEMod Default Distance (miles)	**20**	**8.4**	**11.7**	**NA**

Vehicle Travel Distances in the Construction HRA (miles)	**Haul**	**Vendor**	**Worker**
HAUL1_DPM	0.48	0.48	0.48
HAUL2_DPM	0.27	0.27	0.27

Distance TOTAL	**0.74**	**0.74**	**0.74**

Trip Distribution (percent)	**Haul**	**Vendor**	**Worker**
HAUL1_DPM	100%	100%	100%
HAUL2_DPM	100%	100%	100%

(conservatively assume 100 % of vehicles could go on any route)

Total DPM in lbs	**Haul**	**Vendor**	**Worker**	**Total (lbs)**
HAUL1_DPM	0.0000	0.1586	0.0405	0.1586
HAUL2_DPM	0.0000	0.0878	0.0224	0.0878
	0.0000	**0.2464**	**0**	0.2464

Hourly Rates	**Haul**	**Vendor**	**Worker**	**lb/hr**
HAUL1_DPM	0.00E+00	2.68E-05	6.83E-06	3.36E-05
HAUL2_DPM	0.00E+00	1.48E-05	3.78E-06	1.86E-05

San Jose Camden Residential
Health Risk Assessment Inputs

Estimation of Max Annual Onsite Construction Emissions (Project Site) - PM2.5 (Umitigated)

Max Year Start Date	1/6/2025
Max Year End Date	12/31/2025
Net Workdays in Max Yr	258
Hours in Max Year	2,064

Year	Activity	On-Site PM2.5 (lbs)	Phase Start Date	Phase End Date	Net Workdays	% in Max Year	Max Year Emissions (lb/yr)
2025	**Demolition**	**19.36**	**1/6/2025**	**4/11/2025**	**70**	**100%**	**19.36**
2025	**Site Preparation**	**51.96**	**4/14/2025**	**6/6/2025**	**40**	**100%**	**51.96**
2025	**Grading**	**40.00**	**6/9/2025**	**11/7/2025**	**110**	**100%**	**40.00**
2025	**Building Construction**	**52.52**	**11/10/2025**	**12/26/2025**	**35**	**100%**	**52.52**
2026	Building Construction	57.44	9/21/2026	12/31/2026	74	0%	**0.00**
2027	Building Construction	35.69	1/1/2027	12/31/2027	261	0%	**0.00**
2027	Paving	5.49	1/1/2028	12/31/2028	260	0%	**0.00**
2027	Architectural Coating	0.35	1/1/2029	12/31/2029	261	0%	**0.00**
	total	**262.80**					**163.84**

0.079	lb/hr

San Jose Camden Residential
Health Risk Assessment Inputs

Estimation of Max Annual Onsite Construction Emissions (Project Site) - PM2.5 (Tier 4)

Max Year Start Date	1/6/2025
Max Year End Date	12/31/2025
Net Workdays in Max Yr	258
Hours in Max Year	2,064

Year	Activity	On-Site PM2.5 (lbs)	Phase Start Date	Phase End Date	Net Workdays	% in Max Year	Max Year Emissions (lb/yr)
2025	**Demolition**	**6.27**	**1/6/2025**	**4/11/2025**	**70**	**100%**	**6.27**
2025	**Site Preparation**	**40.40**	**4/14/2025**	**6/6/2025**	**40**	**100%**	**40.40**
2025	**Grading**	**28.36**	**6/9/2025**	**11/7/2025**	**110**	**100%**	**28.36**
2025	**Building Construction**	**13.30**	**11/10/2025**	**12/26/2025**	**35**	**100%**	**13.30**
2026	Building Construction	16.68	9/21/2026	12/31/2026	74	0%	**0.00**
2027	Building Construction	11.66	1/1/2027	12/31/2027	261	0%	**0.00**
2027	Paving	1.62	1/1/2028	12/31/2028	260	0%	**0.00**
2027	Architectural Coating	0.56	1/1/2029	12/31/2029	261	0%	**0.00**
	total	**118.84**					**88.32**

0.043 lb/hr

San Jose Camden Residential
Health Risk Assessment Inputs

Offsite Construction Emissions - Max Year : PM2.5 Total (Exhaust, Road Dust, Brake Wear and Tire Wear)

Max Year Start Date	1/6/2025
Max Year End Date	12/31/2025
Net Workdays in Max Yr	258
Hours in Max Year	2,064

Construction	On-site Construction	Total Off-Site PM2.5				% in
Year	Activity	Haul	Vendor	Worker	Total	Max Year
2025	Demolition	0.57	-	1.69	**2.26**	100%
2025	Site Preparation	0.33	-	-	**0.33**	100%
2025	Grading	0.57	-	0.43	**1.00**	100%
2025	Building Construction	30.45	5.46	-	**35.92**	100%
2026	Building Construction	38.33	6.9	-	**45.2**	0%
2027	Building Construction	26.88	4.8	-	**31.7**	0%
2027	Paving	0.567	-	3.4	**4.0**	0%
2027	Architectural Coating	0.588	-	-	**0.6**	0%
	Total	98.29	17.15	5.53	120.97	

Construction	On-site Construction	Total Roadway PM2.5 in Max Year			
Year	Activity	Haul	Vendor	Worker	Total
2025	Demolition	**0.57**	**-**	**1.69**	**2.26**
2025	Site Preparation	**0.33**	**-**	**-**	**0.33**
2025	Grading	**0.57**	**-**	**0.43**	**1.00**
2025	Building Construction	**30.45**	**5.46**	**-**	**35.92**
		97.13	**5.46**	**2.12**	**39.50**

CalEEMod Default Distance (miles)	**20**	**8.4**	**11.7**	**NA**

Vehicle Travel Distances in the Construction HRA (miles)	Haul	Vendor	Worker
HAUL1_DPM	0.48	0.48	0.48
HAUL2_DPM	0.27	0.27	0.27

Distance TOTAL	**0.74**	**0.74**	**0.74**

Trip Distribution (percent)	Haul	Vendor	Worker
HAUL1_DPM	100%	100%	100%
HAUL2_DPM	100%	100%	100%

(conservatively assume 100 % of vehicles could go on any route)

Total DPM in lbs	Haul	Vendor	Worker	Total (lbs)
HAUL1_DPM	2.3257	0.3113	0.0868	2.7239
HAUL2_DPM	1.2874	0.1723	0.0481	1.5078
Total	**3.6131**	**0.48**	**0.13**	4.2316

Hourly Rates	Haul	Vendor	Worker	lb/hr
HAUL1_DPM	1.13E-03	1.51E-04	4.21E-05	1.32E-03
HAUL2_DPM	6.24E-04	8.35E-05	2.33E-05	7.31E-04

San Jose Camden Residential
Modeling Parameters for Construction HRA
Diesel Particulate Matter Emission Sources

Source ID	Modeled Source	Location Description	AERMOD Source Type	Size		Initial Source Release Parameters (m) Release Height	Initial Lateral Dimension	Initial Vertical Dimension	Emissions[4] (lb/hr)	AERMOD Source Emission Rate	
SITE_DPM	Site - Off-Road Equipment Diesel Exhaust1	Project Site - Construction Area	Area	27629	m2	5	—	1.4	0.0356	1.62E-07	g/m2-sec
SITE_DPM_T4	Site - Off-Road Equipment Diesel Exhaust Tier 41	Project Site - Construction Area	Area	27629	m2	5	—	1.4	0.0089	4.05E-08	g/m2-sec
HAUL1_DPM	Haul Road - On-Road Diesel Exhaust 2,3	Truck Route - Camden Avenue	Line-Volume	770.5	meters	3.40	12.09	3.16	3.4E-05	4.23E-06	g/s
HAUL2_DPM	Haul Road - On-Road Diesel Exhaust 2,4	Truck Route - Blossom Hill Road	Line-Volume	426.5	meters	3.40	6.98	3.16	1.9E-05	2.34E-06	g/s
SITE_PM25	Site[5] - PM2.5 Total (Exhaust + Dust from Material Movement)	Project Site - Construction Area	Area	27629	m2	5	—	1.4	0.0794	3.62E-07	g/m2-sec
SITE_PM25_T4	Site[5] - PM2.5 Total (with Tier 4)	Project Site - Construction Area	Area	27629	m2	5	—	1.4	0.0428	1.95E-07	g/m2-sec
HAUL1_PM25	Haul Road[5] - PM2.5 (Exhaust + Reentrained Road Dust)	Truck Route - Camden Avenue	Line-Volume	770.5	meters	3.40	12.09	3.16	1.3E-03	1.66E-04	g/s
HAUL2_PM25	Haul Road[5] - PM2.5 (Exhaust +Reentrained Road Dust)	Truck Route - Blossom Hill Road	Line-Volume	426.5	meters	3.40	6.98	3.16	7.3E-04	9.20E-05	g/s

1 Construction exhaust modeled as an area source. Release parameters for construction equipment DPM exhaust modeling from SCAQMD (2008) for gaseous exhaust from construction equipment.

2 Emissions for On-Road Mobile Sources (Vendor and Haul Diesel Exhaust) modeled only for roadways within 1,000 feet of the site within the modeling domain.

3 Parameters calculated as per US EPA Haul Road Workgroup Final Report released on March 2, 2012 which suggests the use of Adjacent Volume Sources to represent the haul road.

4 Emissions from CalEEModeling for Construction modeled during construction hours as included in Attachment A. See Note 2 above regarding roadway emission portion modeled.

5 Construction exhaust modeled as an area source. Modeled as per BAAQMD 2022 CEQA Guidelines which permits PM2.5 Dust to be modeled along with PM2.5Exhaust.

Variable Emission Factors: ALL Sources

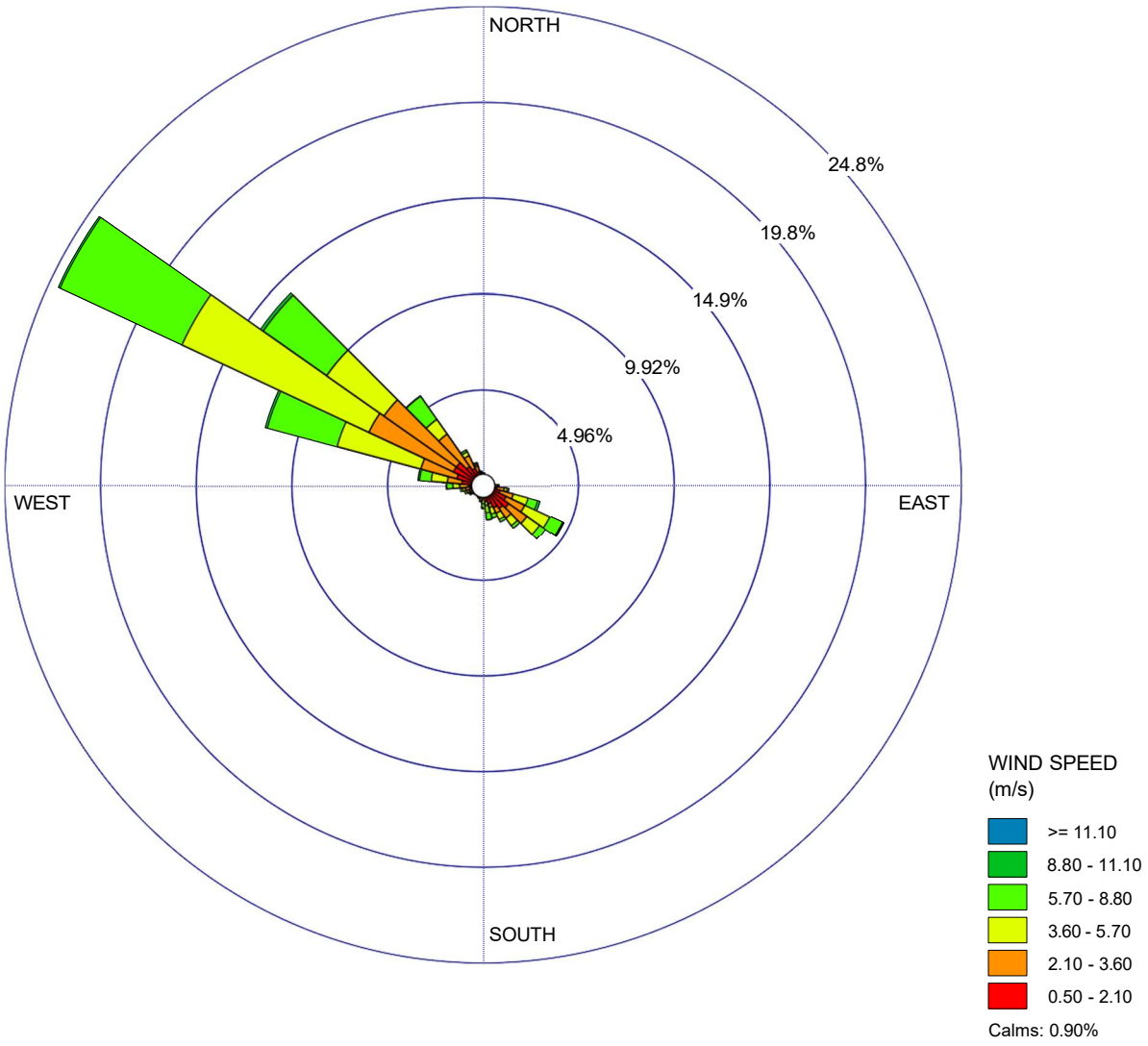
Monday - Friday						
1-6	0	0	0	0	0	0
7-12	0	0	1	1	1	1
13-18	0	1	1	1	1	0
19-24	0	0	0	0	0	0
Saturday						
1-6	0	0	0	0	0	0
7-12	0	0	0	0	0	0
13-18	0	0	0	0	0	0
19-24	0	0	0	0	0	0
Sunday						
1-6	0	0	0	0	0	0
7-12	0	0	0	0	0	0
13-18	0	0	0	0	0	0
19-24	0	0	0	0	0	0

WIND ROSE PLOT:

San Jose International Airport - KSJC
Wind Direction during Construction Hours

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:

Wind Rose is generated just for the hours with emissions when construction would occur or from 8 AM – 5 PM. This corresponds to the modeling hours in AERMOD.

DATA PERIOD:

Start Date: 1/1/2013 - 08:00
End Date: 12/31/2017 - 17:00

CALM WINDS:

0.90%

AVG. WIND SPEED:

3.77 m/s

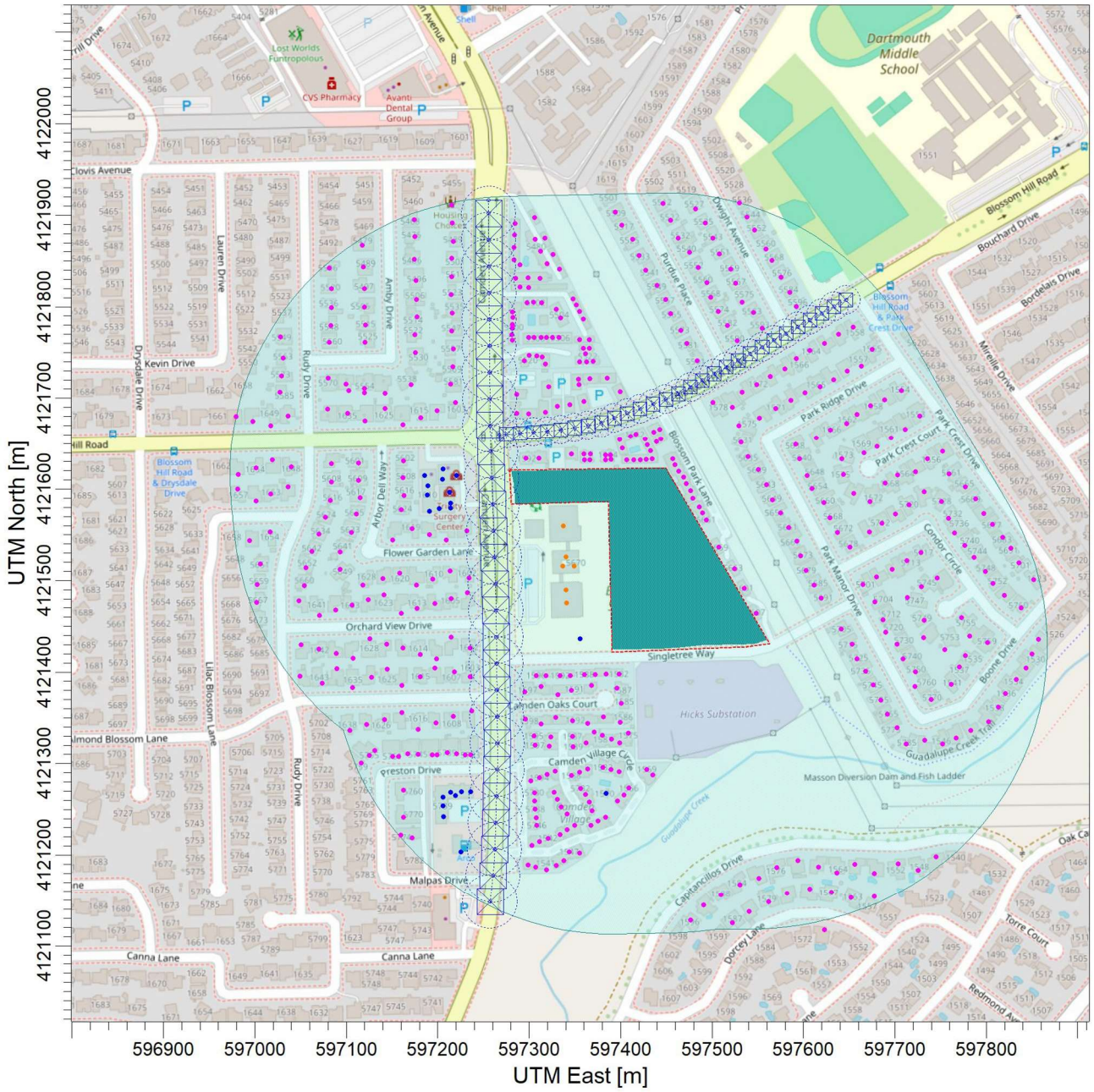
How to Read a Wind Rose Diagram

The wind rose above shows the general wind direction and speed for the meteorological data set used in the AERMOD modeling for the project.'

The circular format of the wind rose shows the direction the winds blew from and the length of each "spoke" around the circle shows how often the wind blew from that direction.

PROJECT TITLE:

Mana Camden Residential Project
Source and Receptor Locations



SOURCE LEGEND:

Site Boundary

Site

Volume Source

RECEPTOR LEGEND:

- Residential
- Non-Residential
- School

SCALE: 1:7,000

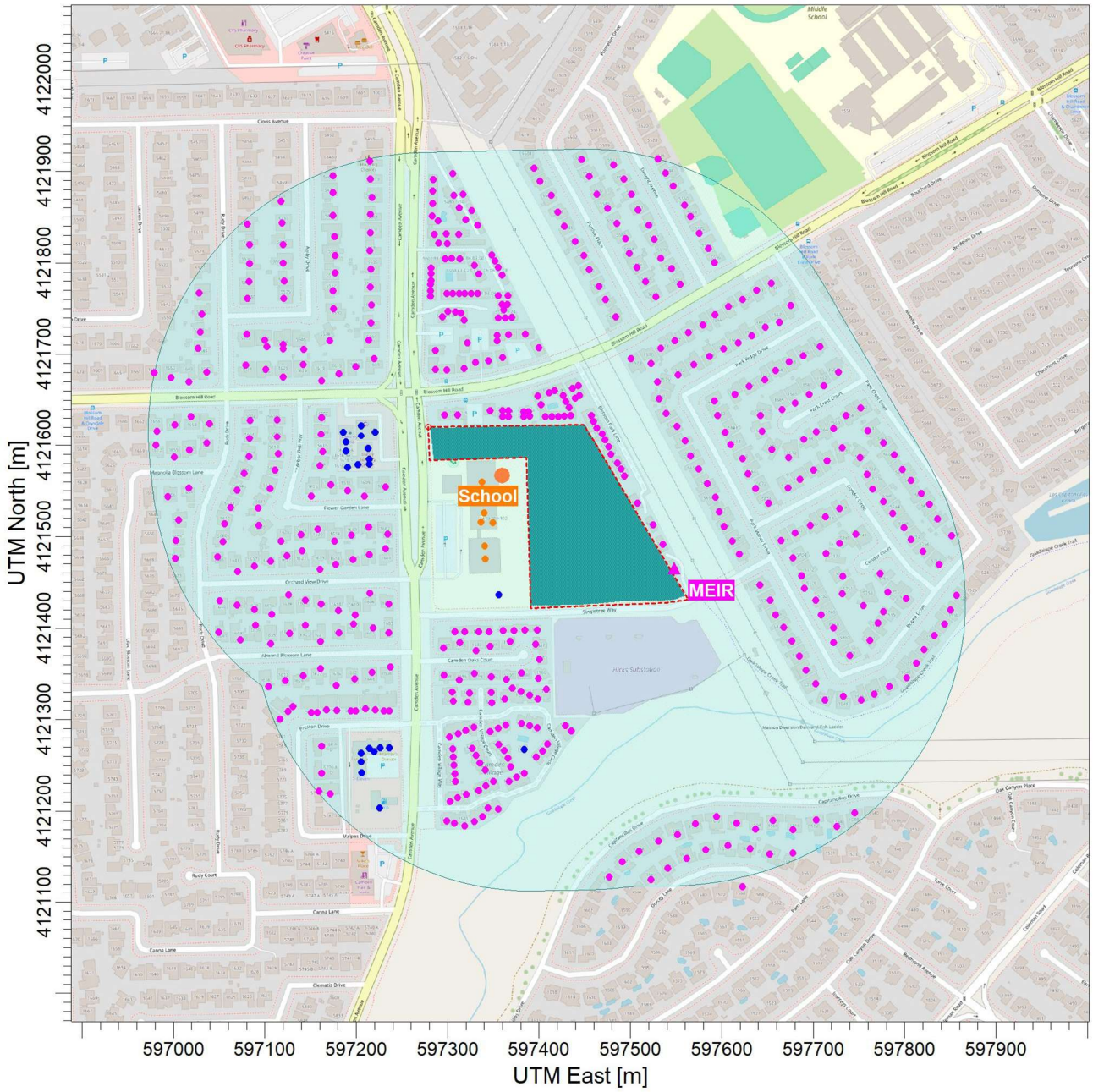
0 0.2 km

PROJECT NO.:

AERMOD View - Lakes Environmental Software

PROJECT TITLE:

Mana Camden Residential Project
Location of Maximum Exposed Receptor



SOURCE LEGEND:

Site Boundary -----

Site

RECEPTOR LEGEND:

Residential

Non-Residential

School

SENSITIVE RECEPTOR LEGEND:

MEIR = Maximally Exposed Individual Resident

SCALE: 1:7,000

0 0.2 km

PROJECT NO.:

AERMOD View - Lakes Environmental Software

Control Pathway

Dispersion Options

Titles

Mana Camden Residential
Construction HRA - DPM and PM2.5

Dispersion Options

☑ Regulatory Default ☐ Non-Default Options

Dispersion Coefficient

Urban

Population:
Name (Optional):
Roughness Length:

Output Type

☑ Concentration
☐ Total Deposition (Dry & Wet)
☐ Dry Deposition
☐ Wet Deposition

Plume Depletion

☐ Dry Removal
☐ Wet Removal

Output Warnings

☐ No Output Warnings
☐ Non-fatal Warnings for Non-sequential Met Data

Pollutant / Averaging Time / Terrain Options

Pollutant Type

PM10

Averaging Time Options

Hours

☐ 1	☐ 2	☐ 3	☐ 4	☐ 6	☐ 8	☐ 12	☐ 24

☐ Month ☑ Period ☐ Annual

Exponential Decay

Half-life of 4 hrs will be used
Optional terrain will be used

Terrain Height Options

☐ Flat ☑ Elevated

SO: Meters
RE: Meters
TG: Meters

Flagpole Receptors

☐ Yes ☑ No

Default Height = 0.00 m

Control Pathway

Optional Files

Re-Start File	Init File	Multi-Year Analyses	Event Input File	Error Listing File
☐	☐	☐	☐	■

Detailed Error Listing File

Filename: ConHRA.err

Source Pathway - Source Inputs

AERMOD

Source Pathway - Source Inputs

AERMOD

Polygon Area Sources

Source Type: AREA POLY

Source: SITEDPM

Base Elevation (Optional)	Release Height [m]	Emission Rate [g/ (s-m^2)]	Initial Vertical Dim. [m]	Number of Vertices (or sides)	X Coordinate for Vertices [m]	Y Coordinate for Vertices [m]
83.70	5.00	1.62E-7	1.40	8	597278.54	4121620.79
		1.62E-7			597280.21	4121583.30
		1.62E-7			597386.27	4121586.38
		1.62E-7			597390.53	4121421.91
		1.62E-7			597474.22	4121424.94
		1.62E-7			597538.21	4121427.31
		1.62E-7			597563.22	4121431.01
		1.62E-7			597449.03	4121623.30

Source Type: AREA POLY

Source: SITEPM25

Base Elevation (Optional)	Release Height [m]	Emission Rate [g/ (s-m^2)]	Initial Vertical Dim. [m]	Number of Vertices (or sides)	X Coordinate for Vertices [m]	Y Coordinate for Vertices [m]
83.70	5.00	3.62E-7	1.40	8	597278.54	4121620.79
		3.62E-7			597280.21	4121583.30
		3.62E-7			597386.27	4121586.38
		3.62E-7			597390.53	4121421.91
		3.62E-7			597474.22	4121424.94
		3.62E-7			597538.21	4121427.31
		3.62E-7			597563.22	4121431.01
		3.62E-7			597449.03	4121623.30

Source Pathway - Source Inputs

AERMOD

Source Type: AREA POLY
Source: SITEDPM_T4

Base Elevation (Optional)	Release Height [m]	Emission Rate [g/ (s-m^2)]	Initial Vertical Dim. [m]	Number of Vertices (or sides)	X Coordinate for Vertices [m]	Y Coordinate for Vertices [m]
83.70	5.00	4.06E-8	1.40	8	597278.54	4121620.79
		4.06E-8			597280.21	4121583.30
		4.06E-8			597386.27	4121586.38
		4.06E-8			597390.53	4121421.91
		4.06E-8			597474.22	4121424.94
		4.06E-8			597538.21	4121427.31
		4.06E-8			597563.22	4121431.01
		4.06E-8			597449.03	4121623.30

Source Type: AREA POLY
Source: SITEPM25_T4

Base Elevation (Optional)	Release Height [m]	Emission Rate [g/ (s-m^2)]	Initial Vertical Dim. [m]	Number of Vertices (or sides)	X Coordinate for Vertices [m]	Y Coordinate for Vertices [m]
83.70	5.00	1.96E-7	1.40	8	597278.54	4121620.79
		1.96E-7			597280.21	4121583.30
		1.96E-7			597386.27	4121586.38
		1.96E-7			597390.53	4121421.91
		1.96E-7			597474.22	4121424.94
		1.96E-7			597538.21	4121427.31
		1.96E-7			597563.22	4121431.01
		1.96E-7			597449.03	4121623.30

Source Pathway - Source Inputs

AERMOD

Line Volume Sources

Source Type: LINE VOLUME

Source: ROAD1_DPM (Camden Avenue)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
29.00	4.23E-6	Surface-Based	597255.48	4121916.73	80.59	3.40
			597257.11	4121670.39	83.34	3.40
			597263.64	4121474.62	85.97	3.40
			597265.27	4121304.95	88.15	3.40
			597262.01	4121194.01	89.29	3.40
			597257.11	4121146.70	89.90	3.40

Source Type: LINE VOLUME

Source: ROAD1_PM25 (Camden Avenue)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
29.00	0.00017	Surface-Based	597255.48	4121916.73	80.59	3.40
			597257.11	4121670.39	83.34	3.40
			597263.64	4121474.62	85.97	3.40
			597265.27	4121304.95	88.15	3.40
			597262.01	4121194.01	89.29	3.40
			597257.11	4121146.70	89.90	3.40

Source Type: LINE VOLUME

Source: ROAD2_DPM (Blossom Hill Road)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
15.00	2.34E-6	Surface-Based	597267.55	4121659.91	83.28	3.40
			597323.71	4121663.93	82.71	3.40
			597372.84	4121670.94	82.45	3.40
			597458.08	4121702.03	81.97	3.40
			597658.64	4121814.34	80.48	3.40

Source Pathway - Source Inputs

AERMOD

Source Type: LINE VOLUME
Source: ROAD2_PM25 (Blossom Hill Road)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
15.00	0.00009	Surface-Based	597267.55	4121659.91	83.28	3.40
			597323.71	4121663.93	82.71	3.40
			597372.84	4121670.94	82.45	3.40
			597458.08	4121702.03	81.97	3.40
			597658.64	4121814.34	80.48	3.40

Source Pathway - Source Inputs

AERMOD

Volume Sources Generated from Line Sources

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
ROAD2_DPM	L0000177	597275.03	4121660.45	83.06	3.40	8.37E-8	15.00	Surface-Based	6.98	3.16
	L0000178	597289.99	4121661.52	82.85	3.40	8.37E-8	15.00	Surface-Based	6.98	3.16
	L0000179	597304.95	4121662.59	82.78	3.40	8.37E-8	15.00	Surface-Based	6.98	3.16
	L0000180	597319.92	4121663.65	82.73	3.40	8.37E-8	15.00	Surface-Based	6.98	3.16
	L0000181	597334.79	4121665.51	82.67	3.40	8.37E-8	15.00	Surface-Based	6.98	3.16
	L0000182	597349.64	4121667.63	82.57	3.40	8.37E-8	15.00	Surface-Based	6.98	3.16
	L0000183	597364.49	4121669.75	82.49	3.40	8.37E-8	15.00	Surface-Based	6.98	3.16
	L0000184	597379.01	4121673.19	82.44	3.40	8.37E-8	15.00	Surface-Based	6.98	3.16
	L0000185	597393.10	4121678.33	82.35	3.40	8.37E-8	15.00	Surface-Based	6.98	3.16
	L0000186	597407.19	4121683.47	82.27	3.40	8.37E-8	15.00	Surface-Based	6.98	3.16
	L0000187	597421.29	4121688.61	82.20	3.40	8.37E-8	15.00	Surface-Based	6.98	3.16
	L0000188	597435.38	4121693.75	82.07	3.40	8.37E-8	15.00	Surface-Based	6.98	3.16
	L0000189	597449.47	4121698.89	82.03	3.40	8.37E-8	15.00	Surface-Based	6.98	3.16
	L0000190	597463.17	4121704.88	81.95	3.40	8.37E-8	15.00	Surface-Based	6.98	3.16
	L0000191	597476.26	4121712.21	81.86	3.40	8.37E-8	15.00	Surface-Based	6.98	3.16
	L0000192	597489.35	4121719.54	81.81	3.40	8.37E-8	15.00	Surface-Based	6.98	3.16
	L0000193	597502.43	4121726.87	81.73	3.40	8.37E-8	15.00	Surface-Based	6.98	3.16
	L0000194	597515.52	4121734.20	81.66	3.40	8.37E-8	15.00	Surface-Based	6.98	3.16
	L0000195	597528.61	4121741.53	81.61	3.40	8.37E-8	15.00	Surface-Based	6.98	3.16
	L0000196	597541.70	4121748.86	81.54	3.40	8.37E-8	15.00	Surface-Based	6.98	3.16
	L0000197	597554.78	4121756.19	81.41	3.40	8.37E-8	15.00	Surface-Based	6.98	3.16
	L0000198	597567.87	4121763.51	81.31	3.40	8.37E-8	15.00	Surface-Based	6.98	3.16
	L0000199	597580.96	4121770.84	81.23	3.40	8.37E-8	15.00	Surface-Based	6.98	3.16
	L0000200	597594.05	4121778.17	81.12	3.40	8.37E-8	15.00	Surface-Based	6.98	3.16

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
ROAD2_DPM	L0000201	597607.14	4121785.50	81.00	3.40	8.37E-8	15.00	Surface-Based	6.98	3.16
	L0000202	597620.22	4121792.83	80.89	3.40	8.37E-8	15.00	Surface-Based	6.98	3.16
	L0000203	597633.31	4121800.16	80.74	3.40	8.37E-8	15.00	Surface-Based	6.98	3.16
	L0000204	597646.40	4121807.49	80.60	3.40	8.37E-8	15.00	Surface-Based	6.98	3.16

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
ROAD1_DPM	L0000205	597255.58	4121902.23	80.71	3.40	1.57E-7	29.00	Surface-Based	13.49	3.16
	L0000206	597255.77	4121873.23	81.03	3.40	1.57E-7	29.00	Surface-Based	13.49	3.16
	L0000207	597255.96	4121844.23	81.32	3.40	1.57E-7	29.00	Surface-Based	13.49	3.16
	L0000208	597256.15	4121815.24	81.60	3.40	1.57E-7	29.00	Surface-Based	13.49	3.16
	L0000209	597256.35	4121786.24	81.89	3.40	1.57E-7	29.00	Surface-Based	13.49	3.16
	L0000210	597256.54	4121757.24	82.20	3.40	1.57E-7	29.00	Surface-Based	13.49	3.16
	L0000211	597256.73	4121728.24	82.48	3.40	1.57E-7	29.00	Surface-Based	13.49	3.16
	L0000212	597256.92	4121699.24	82.86	3.40	1.57E-7	29.00	Surface-Based	13.49	3.16
	L0000213	597257.12	4121670.24	83.34	3.40	1.57E-7	29.00	Surface-Based	13.49	3.16
	L0000214	597258.08	4121641.25	83.66	3.40	1.57E-7	29.00	Surface-Based	13.49	3.16
	L0000215	597259.05	4121612.27	84.09	3.40	1.57E-7	29.00	Surface-Based	13.49	3.16
	L0000216	597260.02	4121583.29	84.54	3.40	1.57E-7	29.00	Surface-Based	13.49	3.16
	L0000217	597260.98	4121554.30	84.94	3.40	1.57E-7	29.00	Surface-Based	13.49	3.16
	L0000218	597261.95	4121525.32	85.38	3.40	1.57E-7	29.00	Surface-Based	13.49	3.16
	L0000219	597262.91	4121496.34	85.74	3.40	1.57E-7	29.00	Surface-Based	13.49	3.16
	L0000220	597263.71	4121467.35	86.08	3.40	1.57E-7	29.00	Surface-Based	13.49	3.16
	L0000221	597263.99	4121438.35	86.44	3.40	1.57E-7	29.00	Surface-Based	13.49	3.16
	L0000222	597264.27	4121409.35	86.84	3.40	1.57E-7	29.00	Surface-Based	13.49	3.16
	L0000223	597264.54	4121380.35	87.29	3.40	1.57E-7	29.00	Surface-Based	13.49	3.16

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
ROAD1_DPM	L0000224	597264.82	4121351.35	87.72	3.40	1.57E-7	29.00	Surface-Based	13.49	3.16
	L0000225	597265.10	4121322.35	88.03	3.40	1.57E-7	29.00	Surface-Based	13.49	3.16
	L0000226	597264.93	4121293.36	88.23	3.40	1.57E-7	29.00	Surface-Based	13.49	3.16
	L0000227	597264.08	4121264.37	88.48	3.40	1.57E-7	29.00	Surface-Based	13.49	3.16
	L0000228	597263.22	4121235.39	88.77	3.40	1.57E-7	29.00	Surface-Based	13.49	3.16
	L0000229	597262.37	4121206.40	89.11	3.40	1.57E-7	29.00	Surface-Based	13.49	3.16
	L0000230	597260.30	4121177.49	89.45	3.40	1.57E-7	29.00	Surface-Based	13.49	3.16
	L0000231	597257.31	4121148.65	89.80	3.40	1.57E-7	29.00	Surface-Based	13.49	3.16

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
ROAD2_PM25	L0000232	597275.03	4121660.45	83.06	3.40	3.29E-6	15.00	Surface-Based	6.98	3.16
	L0000233	597289.99	4121661.52	82.85	3.40	3.29E-6	15.00	Surface-Based	6.98	3.16
	L0000234	597304.95	4121662.59	82.78	3.40	3.29E-6	15.00	Surface-Based	6.98	3.16
	L0000235	597319.92	4121663.65	82.73	3.40	3.29E-6	15.00	Surface-Based	6.98	3.16
	L0000236	597334.79	4121665.51	82.67	3.40	3.29E-6	15.00	Surface-Based	6.98	3.16
	L0000237	597349.64	4121667.63	82.57	3.40	3.29E-6	15.00	Surface-Based	6.98	3.16
	L0000238	597364.49	4121669.75	82.49	3.40	3.29E-6	15.00	Surface-Based	6.98	3.16
	L0000239	597379.01	4121673.19	82.44	3.40	3.29E-6	15.00	Surface-Based	6.98	3.16
	L0000240	597393.10	4121678.33	82.35	3.40	3.29E-6	15.00	Surface-Based	6.98	3.16
	L0000241	597407.19	4121683.47	82.27	3.40	3.29E-6	15.00	Surface-Based	6.98	3.16
	L0000242	597421.29	4121688.61	82.20	3.40	3.29E-6	15.00	Surface-Based	6.98	3.16
	L0000243	597435.38	4121693.75	82.07	3.40	3.29E-6	15.00	Surface-Based	6.98	3.16
	L0000244	597449.47	4121698.89	82.03	3.40	3.29E-6	15.00	Surface-Based	6.98	3.16
	L0000245	597463.17	4121704.88	81.95	3.40	3.29E-6	15.00	Surface-Based	6.98	3.16
	L0000246	597476.26	4121712.21	81.86	3.40	3.29E-6	15.00	Surface-Based	6.98	3.16

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
ROAD2_PM25	L0000247	597489.35	4121719.54	81.81	3.40	3.29E-6	15.00	Surface-Based	6.98	3.16
	L0000248	597502.43	4121726.87	81.73	3.40	3.29E-6	15.00	Surface-Based	6.98	3.16
	L0000249	597515.52	4121734.20	81.66	3.40	3.29E-6	15.00	Surface-Based	6.98	3.16
	L0000250	597528.61	4121741.53	81.61	3.40	3.29E-6	15.00	Surface-Based	6.98	3.16
	L0000251	597541.70	4121748.86	81.54	3.40	3.29E-6	15.00	Surface-Based	6.98	3.16
	L0000252	597554.78	4121756.19	81.41	3.40	3.29E-6	15.00	Surface-Based	6.98	3.16
	L0000253	597567.87	4121763.51	81.31	3.40	3.29E-6	15.00	Surface-Based	6.98	3.16
	L0000254	597580.96	4121770.84	81.23	3.40	3.29E-6	15.00	Surface-Based	6.98	3.16
	L0000255	597594.05	4121778.17	81.12	3.40	3.29E-6	15.00	Surface-Based	6.98	3.16
	L0000256	597607.14	4121785.50	81.00	3.40	3.29E-6	15.00	Surface-Based	6.98	3.16
	L0000257	597620.22	4121792.83	80.89	3.40	3.29E-6	15.00	Surface-Based	6.98	3.16
	L0000258	597633.31	4121800.16	80.74	3.40	3.29E-6	15.00	Surface-Based	6.98	3.16
	L0000259	597646.40	4121807.49	80.60	3.40	3.29E-6	15.00	Surface-Based	6.98	3.16

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
ROAD1_PM25	L0000260	597255.58	4121902.23	80.71	3.40	6.16E-6	29.00	Surface-Based	13.49	3.16
	L0000261	597255.77	4121873.23	81.03	3.40	6.16E-6	29.00	Surface-Based	13.49	3.16
	L0000262	597255.96	4121844.23	81.32	3.40	6.16E-6	29.00	Surface-Based	13.49	3.16
	L0000263	597256.15	4121815.24	81.60	3.40	6.16E-6	29.00	Surface-Based	13.49	3.16
	L0000264	597256.35	4121786.24	81.89	3.40	6.16E-6	29.00	Surface-Based	13.49	3.16
	L0000265	597256.54	4121757.24	82.20	3.40	6.16E-6	29.00	Surface-Based	13.49	3.16
	L0000266	597256.73	4121728.24	82.48	3.40	6.16E-6	29.00	Surface-Based	13.49	3.16
	L0000267	597256.92	4121699.24	82.86	3.40	6.16E-6	29.00	Surface-Based	13.49	3.16
	L0000268	597257.12	4121670.24	83.34	3.40	6.16E-6	29.00	Surface-Based	13.49	3.16
	L0000269	597258.08	4121641.25	83.66	3.40	6.16E-6	29.00	Surface-Based	13.49	3.16

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
ROAD1_PM25	L0000270	597259.05	4121612.27	84.09	3.40	6.16E-6	29.00	Surface-Based	13.49	3.16
	L0000271	597260.02	4121583.29	84.54	3.40	6.16E-6	29.00	Surface-Based	13.49	3.16
	L0000272	597260.98	4121554.30	84.94	3.40	6.16E-6	29.00	Surface-Based	13.49	3.16
	L0000273	597261.95	4121525.32	85.38	3.40	6.16E-6	29.00	Surface-Based	13.49	3.16
	L0000274	597262.91	4121496.34	85.74	3.40	6.16E-6	29.00	Surface-Based	13.49	3.16
	L0000275	597263.71	4121467.35	86.08	3.40	6.16E-6	29.00	Surface-Based	13.49	3.16
	L0000276	597263.99	4121438.35	86.44	3.40	6.16E-6	29.00	Surface-Based	13.49	3.16
	L0000277	597264.27	4121409.35	86.84	3.40	6.16E-6	29.00	Surface-Based	13.49	3.16
	L0000278	597264.54	4121380.35	87.29	3.40	6.16E-6	29.00	Surface-Based	13.49	3.16
	L0000279	597264.82	4121351.35	87.72	3.40	6.16E-6	29.00	Surface-Based	13.49	3.16
	L0000280	597265.10	4121322.35	88.03	3.40	6.16E-6	29.00	Surface-Based	13.49	3.16
	L0000281	597264.93	4121293.36	88.23	3.40	6.16E-6	29.00	Surface-Based	13.49	3.16
	L0000282	597264.08	4121264.37	88.48	3.40	6.16E-6	29.00	Surface-Based	13.49	3.16
	L0000283	597263.22	4121235.39	88.77	3.40	6.16E-6	29.00	Surface-Based	13.49	3.16
	L0000284	597262.37	4121206.40	89.11	3.40	6.16E-6	29.00	Surface-Based	13.49	3.16
	L0000285	597260.30	4121177.49	89.45	3.40	6.16E-6	29.00	Surface-Based	13.49	3.16
	L0000286	597257.31	4121148.65	89.80	3.40	6.16E-6	29.00	Surface-Based	13.49	3.16

Source Pathway

Building Downwash Information

Option not in use

Emission Rate Units for Output

For Concentration

Unit Factor:	1E6
Emission Unit Label:	GRAMS/SEC
Concentration Unit Label:	MICROGRAMS/M**3

Source Groups

Source Group ID: PM25_UM	List of Sources in Group (Source Range or Single Sources)
	ROAD2_PM25
	ROAD1_PM25
	SITEPM25

Source Group ID: PM25_T4	List of Sources in Group (Source Range or Single Sources)
	ROAD2_PM25
	ROAD1_PM25
	SITEPM25_T4

Source Group ID: DPM_UM	List of Sources in Group (Source Range or Single Sources)
	ROAD2_DPM
	ROAD1_DPM
	SITEDPM

Source Group ID: DPM_T4	List of Sources in Group (Source Range or Single Sources)
	ROAD2_DPM
	ROAD1_DPM
	SITEDPM_T4

Variable Emissions

Hour-of-Day / Day-of-Week Emission Rate Variation

Scenario: Scenario 1

Source ID: ROAD2_DPM

Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	0.00	0.00	1.00	1.00	1.00	1.00
	13 - 18	0.00	1.00	1.00	1.00	1.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Sunday								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID: ROAD1_DPM

Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	0.00	0.00	1.00	1.00	1.00	1.00
	13 - 18	0.00	1.00	1.00	1.00	1.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Sunday								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID: SITEDPM

Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	0.00	0.00	1.00	1.00	1.00	1.00
	13 - 18	0.00	1.00	1.00	1.00	1.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Sunday								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID: ROAD2_PM25

Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	0.00	0.00	1.00	1.00	1.00	1.00
	13 - 18	0.00	1.00	1.00	1.00	1.00	0.00

Scenario: Scenario 1

Source ID: ROAD2_PM25

	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Sunday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID: ROAD1_PM25

Weekdays							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	1.00	1.00	1.00	1.00
Day	13 - 18	0.00	1.00	1.00	1.00	1.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Sunday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID: SITEPM25

Weekdays							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	1.00	1.00	1.00	1.00
Day	13 - 18	0.00	1.00	1.00	1.00	1.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Sunday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID: SITEDPM_T4

Weekdays							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	1.00	1.00	1.00	1.00
Day	13 - 18	0.00	1.00	1.00	1.00	1.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Scenario: Scenario 1

Source ID: SITEDPM_T4

Sunday								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID: SITEPM25_T4

Weekdays							
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	0.00	0.00	1.00	1.00	1.00	1.00
	13 - 18	0.00	1.00	1.00	1.00	1.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday							
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Sunday							
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00

Receptor Pathway

Receptor Networks

Note: Terrain Elavations and Flagpole Heights for Network Grids are in Page RE2 - 1 (If applicable)
Generated Discrete Receptors for Multi-Tier (Risk) Grid and Receptor Locations for Fenceline Grid are in Page RE3 - 1 (If applicable)

Discrete Receptors

Discrete Cartesian Receptors

Record Number	X-Coordinate [m]	Y-Coordinate [m]	Group Name (Optional)	Terrain Elevations	Flagpole Heights [m] (Optional)
1	597214.99	4121910.94	MF	81.01	
2	597174.30	4121895.16	SF	80.92	
3	597174.78	4121876.95	SF	81.18	
4	597117.49	4121867.20	SF	81.30	
5	597215.50	4121891.56	SF	81.16	
6	597285.36	4121831.24	MF	81.12	
7	597355.16	4121795.13	MF	81.11	
8	597351.76	4121802.21	MF	81.09	
9	597348.22	4121808.41	MF	81.09	
10	597289.67	4121846.22	MF	81.04	
11	597333.00	4121841.31	MF	80.56	
12	597326.27	4121857.44	MF	80.45	
13	597316.91	4121875.17	MF	80.38	
14	597283.12	4121851.54	MF	81.01	
15	597283.26	4121865.07	MF	80.95	
16	597283.73	4121878.38	MF	80.69	
17	597284.24	4121891.33	MF	80.54	
18	597298.51	4121831.57	MF	81.10	
19	597306.39	4121873.93	MF	80.46	
20	597312.31	4121860.52	MF	80.59	
21	597319.49	4121847.16	MF	80.65	
22	597312.07	4121831.26	MF	81.09	
23	597299.58	4121821.27	MF	81.08	
24	597289.97	4121821.50	MF	81.08	
25	597359.22	4121786.73	MF	81.16	
26	597174.28	4121851.66	SF	81.43	
27	597118.70	4121843.71	SF	81.54	
28	597217.21	4121871.61	SF	81.46	
29	597176.06	4121828.78	SF	81.66	
30	597119.93	4121819.64	SF	81.81	

31	597281.31	4121763.58	MF	81.91
32	597281.25	4121769.45	MF	81.86
33	597281.43	4121776.73	MF	81.82
34	597281.62	4121780.91	MF	81.80
35	597281.92	4121788.59	MF	81.76
36	597281.79	4121794.57	MF	81.70
37	597215.34	4121853.34	SF	81.62
38	597297.44	4121804.57	MF	81.44
39	597304.54	4121804.89	MF	81.39
40	597313.26	4121804.69	MF	81.39
41	597329.33	4121797.60	MF	81.34
42	597334.14	4121787.94	MF	81.35
43	597119.87	4121799.65	SF	82.12
44	597176.61	4121808.22	SF	81.94
45	597365.97	4121764.41	MF	81.77
46	597355.12	4121764.29	MF	81.76
47	597332.49	4121766.83	MF	81.85
48	597325.65	4121766.75	MF	81.89
49	597081.14	4121842.72	SF	81.77
50	597318.63	4121766.61	MF	81.89
51	597312.80	4121766.60	MF	81.87
52	597305.30	4121766.69	MF	81.83
53	597299.18	4121766.65	MF	81.83
54	597394.20	4121903.56	SF	80.29
55	597215.30	4121832.76	SF	81.70
56	597446.30	4121912.80	SF	80.18
57	597177.12	4121788.83	SF	82.18
58	597120.97	4121780.28	SF	82.27
59	597401.13	4121889.33	SF	80.43
60	597294.38	4121741.29	MF	82.31
61	597300.07	4121746.76	MF	82.25
62	597308.18	4121746.47	MF	82.29
63	597314.20	4121745.02	MF	82.34
64	597317.75	4121737.73	MF	82.55
65	597083.51	4121819.85	SF	82.04
66	597174.71	4121769.37	SF	82.31
67	597361.29	4121748.78	MF	82.41
68	597355.06	4121739.94	MF	82.54

69	597362.76	4121739.86	MF	82.54
70	597369.95	4121740.38	MF	82.51
71	597365.47	4121754.88	MF	82.30
72	597359.34	4121754.98	MF	82.28
73	597454.64	4121894.68	SF	80.38
74	597214.65	4121813.35	SF	81.92
75	597120.30	4121761.46	SF	82.38
76	597413.31	4121873.94	SF	80.57
77	597481.79	4121907.20	SF	80.04
78	597175.22	4121749.98	SF	82.49
79	597463.00	4121875.26	SF	80.57
80	597420.34	4121855.79	SF	80.74
81	597215.76	4121793.39	SF	82.26
82	597492.66	4121891.77	SF	80.14
83	597530.03	4121913.72	SF	79.87
84	597083.47	4121799.28	SF	82.29
85	597170.86	4121715.18	SF	82.73
86	597475.19	4121859.86	SF	80.79
87	597427.29	4121840.25	SF	80.95
88	597500.96	4121874.96	SF	80.33
89	597538.30	4121898.22	SF	79.98
90	597142.34	4121705.60	SF	83.26
91	597215.10	4121773.97	SF	82.50
92	597082.81	4121779.86	SF	82.43
93	597439.52	4121823.55	SF	81.01
94	597027.94	4121767.23	SF	82.50
95	597507.95	4121858.12	SF	80.43
96	597546.52	4121884.03	SF	80.12
97	597484.80	4121843.09	SF	80.97
98	597119.88	4121710.89	SF	82.92
99	597216.81	4121754.03	SF	82.66
100	597449.09	4121808.08	SF	81.26
101	597520.18	4121841.41	SF	80.58
102	597558.85	4121863.40	SF	80.41
103	597494.40	4121826.32	SF	81.17
104	597080.96	4121761.00	SF	82.55
105	597099.79	4121715.64	SF	82.84
106	597030.91	4121743.79	SF	82.84

107	597454.74	4121792.52	SF	81.43
108	597525.82	4121825.84	SF	80.79
109	597565.74	4121850.48	SF	80.62
110	597498.75	4121810.71	SF	81.28
111	597216.15	4121734.61	SF	82.91
112	597080.23	4121722.18	SF	82.87
113	597465.68	4121774.47	SF	81.67
114	597029.08	4121724.35	SF	83.21
115	597507.01	4121795.22	SF	81.54
116	597532.92	4121805.08	SF	81.23
117	597575.38	4121832.40	SF	80.86
118	597213.72	4121715.73	SF	83.11
119	597472.61	4121760.24	SF	81.82
120	597516.58	4121779.75	SF	81.71
121	597545.00	4121793.61	SF	81.37
122	597584.99	4121815.63	SF	81.11
123	597027.20	4121706.66	SF	83.59
124	597527.49	4121763.01	SF	81.78
125	597483.59	4121740.89	SF	82.04
126	597554.61	4121776.83	SF	81.40
127	597591.94	4121800.09	SF	81.19
128	597113.24	4121628.42	SF	84.24
129	597162.18	4121630.71	SF	84.09
130	597083.86	4121627.64	SF	84.45
131	597442.91	4121665.82	MF	83.07
132	597161.68	4121612.54	SF	84.37
133	597083.41	4121607.52	SF	84.60
134	597113.26	4121609.29	SF	84.41
135	597436.40	4121662.77	MF	83.17
136	597457.09	4121633.33	MF	83.49
137	597163.18	4121592.96	SF	84.60
138	597082.48	4121587.38	SF	84.77
139	597114.73	4121590.69	SF	84.52
140	597459.44	4121627.00	MF	83.54
141	597463.40	4121619.55	MF	83.56
142	597160.16	4121577.67	SF	84.85
143	597077.09	4121569.09	SF	84.92
144	597110.79	4121572.93	SF	84.79

145	597469.01	4121612.94	MF	83.58
146	597471.96	4121605.78	MF	83.59
147	597531.52	4121651.57	SF	83.25
148	597105.45	4121552.68	SF	84.89
149	597069.73	4121550.75	SF	85.17
150	597476.36	4121598.36	MF	83.58
151	597539.15	4121635.40	SF	83.25
152	597591.78	4121649.24	SF	82.91
153	597478.70	4121590.25	MF	83.68
154	597550.65	4121621.29	SF	83.14
155	597595.49	4121632.97	SF	82.93
156	597092.79	4121531.25	SF	85.20
157	597062.39	4121531.91	SF	85.26
158	597485.83	4121580.27	MF	83.83
159	597559.60	4121604.50	SF	83.12
160	597489.63	4121573.73	MF	83.87
161	597603.82	4121614.85	SF	82.63
162	597093.30	4121512.13	SF	85.62
163	597565.92	4121588.30	SF	82.90
164	597493.57	4121566.36	MF	83.90
165	597005.78	4121518.16	SF	85.27
166	597056.01	4121514.09	SF	85.48
167	597609.43	4121600.59	SF	82.54
168	597574.80	4121574.12	SF	82.75
169	597507.35	4121536.52	MF	84.01
170	597002.67	4121495.82	SF	85.55
171	597622.27	4121585.21	SF	82.49
172	597054.08	4121494.41	SF	85.73
173	597759.44	4121616.55	SF	79.53
174	597583.74	4121557.99	SF	82.77
175	597524.51	4121512.67	MF	84.07
176	597776.82	4121602.60	SF	78.89
177	597592.64	4121543.16	SF	82.66
178	597001.96	4121476.01	SF	85.74
179	597628.61	4121568.35	SF	82.42
180	597788.30	4121589.15	SF	78.44
181	597337.24	4121559.95	ED	84.84
182	597339.98	4121525.89	ED	84.84

183	597349.04	4121515.60	ED	84.84
184	597336.57	4121515.86	ED	84.84
185	597636.88	4121552.85	SF	82.32
186	597797.22	4121573.67	SF	78.14
187	597597.00	4121526.90	SF	82.67
188	597806.71	4121561.48	SF	77.85
189	597650.99	4121536.38	SF	82.16
190	597602.65	4121511.33	SF	82.73
191	597818.20	4121547.38	SF	77.54
192	597611.58	4121495.20	SF	82.73
193	597827.03	4121535.17	SF	77.49
194	597619.16	4121480.99	SF	82.74
195	597664.90	4121495.63	SF	81.88
196	597835.95	4121519.69	SF	77.58
197	597677.83	4121476.66	SF	81.70
198	597641.55	4121447.35	SF	82.63
199	597680.05	4121503.90	SF	81.63
200	597672.14	4121553.32	SF	81.44
201	597696.84	4121512.53	SF	81.39
202	597685.62	4121562.85	SF	81.15
203	597687.18	4121457.26	SF	81.39
204	597713.28	4121521.81	SF	81.10
205	597653.04	4121430.58	SF	81.85
206	597700.40	4121573.06	SF	81.01
207	597728.41	4121530.72	SF	80.88
208	597715.19	4121582.63	SF	80.84
209	597689.83	4121443.57	SF	81.13
210	597235.97	4121269.19	CO-3	88.76
211	597731.83	4121596.82	SF	80.61
212	597225.79	4121269.05	CO-4	88.80
213	597658.55	4121414.76	SF	81.49
214	597751.09	4121586.20	SF	80.42
215	597326.98	4121268.69	MF	88.30
216	597305.72	4121268.45	MF	88.54
217	597702.61	4121430.81	SF	81.03
218	597214.01	4121269.00	CO-4	88.83
219	597355.98	4121272.90	MF	88.38
220	597758.77	4121568.06	SF	80.32

221	597330.78	4121260.77	MF	88.30
222	597235.90	4121309.46	MF	88.10
223	597305.80	4121259.12	MF	88.67
224	597205.42	4121263.61	CO-3	88.86
225	597667.73	4121400.64	SF	81.19
226	597230.08	4121309.43	MF	88.08
227	597361.72	4121266.33	MF	88.49
228	597765.09	4121551.86	SF	80.13
229	597334.92	4121253.01	MF	88.32
230	597220.77	4121310.62	MF	88.08
231	597306.69	4121250.30	MF	88.78
232	597205.55	4121253.83	CO-3	88.84
233	597210.15	4121311.79	MF	88.08
234	597365.70	4121258.09	MF	88.59
235	597776.57	4121538.41	SF	79.88
236	597708.60	4121414.60	SF	80.65
237	597341.17	4121245.32	MF	88.36
238	597199.35	4121309.67	MF	87.99
239	597307.92	4121240.84	MF	88.88
240	597746.17	4121502.71	SF	79.66
241	597193.80	4121309.52	MF	87.96
242	597368.73	4121248.67	MF	88.56
243	597786.72	4121525.58	SF	79.47
244	597205.99	4121242.20	CO-2	88.93
245	597728.76	4121493.07	SF	80.16
246	597676.38	4121385.83	SF	80.84
247	597178.41	4121310.20	MF	87.99
248	597308.47	4121232.66	MF	88.92
249	597713.69	4121481.54	SF	80.54
250	597167.42	4121310.57	MF	88.02
251	597798.91	4121510.19	SF	78.45
252	597732.01	4121456.81	SF	80.23
253	597157.03	4121308.00	MF	88.06
254	597722.38	4121400.56	SF	80.08
255	597731.54	4121437.81	SF	80.41
256	597150.58	4121308.04	MF	88.09
257	597807.12	4121496.65	SF	77.65
258	597754.47	4121424.33	SF	79.86

259	597130.87	4121314.58	MF	88.14
260	597225.45	4121203.43	CO-2	89.30
261	597773.16	4121459.54	SF	77.99
262	597684.69	4121369.58	SF	79.92
263	597125.19	4121309.13	MF	88.13
264	597819.89	4121483.89	SF	77.16
265	597781.55	4121439.46	SF	78.04
266	597116.49	4121300.51	MF	88.23
267	597801.37	4121432.13	SF	77.66
268	597837.93	4121469.96	SF	76.95
269	597721.84	4121384.17	SF	79.05
270	597162.17	4121271.30	MF	88.60
271	597691.71	4121353.96	SF	79.19
272	597739.89	4121369.91	SF	78.51
273	597162.23	4121241.55	MF	88.92
274	597171.62	4121219.16	MF	89.33
275	597159.33	4121221.70	MF	89.17
276	597702.40	4121339.03	SF	79.07
277	597712.71	4121321.31	SF	79.04
278	597212.98	4121596.32	CO-4	84.48
279	597305.73	4121897.48	MF	80.25
280	597355.60	4121436.22	CO-4	85.51
281	597102.33	4121708.76	SF	83.03
282	597120.02	4121705.99	SF	83.12
283	597851.50	4121501.10	SF	77.52
284	597856.89	4121435.90	SF	77.39
285	597850.11	4121420.00	SF	77.55
286	597843.32	4121404.76	SF	77.64
287	597832.54	4121392.02	SF	77.79
288	597776.88	4121418.05	SF	77.85
289	597821.17	4121376.66	SF	77.82
290	597770.67	4121405.77	SF	77.84
291	597298.81	4121189.36	MF	89.21
292	597813.05	4121362.03	SF	78.10
293	597302.67	4121210.90	MF	89.10
294	597307.23	4121186.79	MF	89.14
295	597802.35	4121346.03	SF	78.11
296	597311.07	4121214.72	MF	89.07

297	597761.69	4121386.54	SF	78.17
298	597318.76	4121183.82	MF	89.00
299	597782.98	4121336.34	SF	78.30
300	597320.46	4121218.57	MF	89.01
301	597329.43	4121188.68	MF	89.03
302	597766.84	4121328.06	SF	78.43
303	597745.12	4121197.96	SF	78.86
304	597338.12	4121194.15	MF	89.05
305	597752.32	4121321.32	SF	78.62
306	597333.76	4121222.53	MF	88.94
307	597343.75	4121203.80	MF	88.93
308	597732.74	4121325.45	SF	78.75
309	597341.48	4121227.65	MF	88.74
310	597725.64	4121183.56	SF	79.02
311	597355.24	4121202.14	MF	88.69
312	597349.86	4121232.45	MF	88.64
313	597703.31	4121190.26	SF	79.05
314	597751.91	4121641.57	SF	80.43
315	597727.48	4121680.38	SF	80.69
316	597367.36	4121232.59	MF	88.58
317	597707.10	4121708.65	SF	81.01
318	597675.15	4121753.65	SF	81.19
319	597375.41	4121237.39	MF	88.59
320	597677.59	4121180.12	SF	79.33
321	597735.78	4121632.95	SF	80.78
322	597688.77	4121698.32	SF	81.28
323	597677.38	4121154.50	SF	79.12
324	597711.51	4121665.87	SF	80.84
325	597663.11	4121735.30	SF	81.04
326	597654.22	4121777.98	SF	81.50
327	597383.64	4121241.70	MF	88.49
328	597673.30	4121692.01	SF	81.39
329	597647.55	4121729.64	SF	81.39
330	597638.07	4121770.35	SF	81.66
331	597396.51	4121259.35	MF	88.03
332	597655.98	4121190.01	SF	79.41
333	597722.41	4121618.84	SF	81.01
334	597658.51	4121682.45	SF	81.82

335	597695.72	4121656.61	SF	81.12
336	597632.76	4121720.08	SF	81.67
337	597622.64	4121760.11	SF	81.79
338	597647.00	4121672.32	SF	82.06
339	597652.05	4121153.42	SF	79.06
340	597607.13	4121752.50	SF	81.90
341	597403.92	4121265.83	MF	88.03
342	597636.81	4121180.30	SF	79.67
343	597702.87	4121615.70	SF	81.31
344	597680.29	4121646.70	SF	81.30
345	597617.91	4121712.48	SF	81.93
346	597592.32	4121743.59	SF	82.02
347	597409.06	4121273.21	MF	87.98
348	597629.53	4121665.31	SF	82.35
349	597435.20	4121287.68	MF	87.68
350	597630.74	4121159.28	SF	79.17
351	597601.72	4121706.16	SF	82.27
352	597579.54	4121732.11	SF	82.09
353	597616.31	4121186.84	SF	79.75
354	597622.82	4121117.91	SF	79.16
355	597689.36	4121606.83	SF	81.53
356	597614.05	4121656.38	SF	82.79
357	597428.71	4121293.82	MF	87.85
358	597666.07	4121639.78	SF	81.42
359	597586.24	4121697.89	SF	82.66
360	597563.40	4121723.83	SF	82.23
361	597383.79	4121267.40	CO	87.98
362	597606.75	4121162.85	SF	79.23
363	597569.46	4121688.93	SF	82.86
364	597548.59	4121714.92	SF	82.27
365	597593.88	4121193.88	SF	79.91
366	597672.89	4121586.41	SF	81.74
367	597641.88	4121633.07	SF	82.34
368	597552.09	4121677.99	SF	83.02
369	597533.11	4121706.65	SF	82.18
370	597286.43	4121704.17	MF	83.12
371	597286.53	4121683.38	MF	83.07
372	597299.17	4121683.23	MF	83.02

373	597321.23	4121712.51	MF	83.18
374	597317.86	4121684.63	MF	82.99
375	597330.62	4121691.43	MF	82.95
376	597344.40	4121693.37	MF	82.95
377	597359.94	4121696.38	MF	82.99
378	597354.34	4121714.88	MF	82.96
379	597354.00	4121720.68	MF	82.92
380	597366.48	4121721.45	MF	82.83
381	597384.98	4121721.87	MF	82.72
382	597399.74	4121707.07	MF	82.50
383	597408.22	4121333.29	MF	87.73
384	597582.19	4121158.09	SF	79.32
385	597643.65	4121615.76	SF	82.41
386	597529.40	4121670.18	SF	83.17
387	597522.43	4121689.99	SF	82.47
388	597570.90	4121186.46	SF	80.26
389	597654.66	4121595.10	SF	82.33
390	597398.68	4121322.89	MF	87.89
391	597500.69	4121695.31	SF	82.28
392	597398.21	4121291.11	MF	87.96
393	597389.74	4121326.58	MF	87.97
394	597561.65	4121148.18	SF	79.33
395	597389.45	4121293.60	MF	88.06
396	597551.51	4121174.67	SF	80.46
397	597380.13	4121331.24	MF	87.93
398	597427.69	4121632.86	MF	83.12
399	597416.78	4121660.68	MF	83.01
400	597426.51	4121655.17	MF	83.15
401	597429.13	4121648.78	MF	83.16
402	597432.79	4121641.90	MF	83.17
403	597421.30	4121632.30	MF	83.11
404	597434.76	4121633.17	MF	83.16
405	597414.22	4121632.28	MF	83.09
406	597406.53	4121632.01	MF	83.06
407	597401.86	4121645.27	MF	83.03
408	597398.78	4121654.58	MF	82.96
409	597411.03	4121658.32	MF	83.03
410	597380.72	4121295.98	MF	88.09

411	597398.08	4121397.86	MF	86.48
412	597370.88	4121334.59	MF	87.99
413	597540.51	4121137.88	SF	79.44
414	597383.34	4121631.98	MF	83.26
415	597383.31	4121637.31	MF	83.19
416	597389.40	4121632.61	MF	83.21
417	597388.65	4121637.17	MF	83.16
418	597363.76	4121294.06	MF	88.19
419	597530.71	4121167.25	SF	80.53
420	597384.36	4121397.93	MF	86.45
421	597400.44	4121366.00	SF	87.05
422	597362.36	4121322.90	MF	88.05
423	597360.20	4121632.21	MF	83.32
424	597366.70	4121638.29	MF	83.22
425	597359.87	4121638.85	MF	83.27
426	597366.56	4121632.25	MF	83.29
427	597399.35	4121345.34	SF	87.56
428	597355.17	4121290.89	MF	88.28
429	597372.23	4121397.32	MF	86.55
430	597396.08	4121382.26	SF	86.85
431	597347.27	4121329.65	MF	88.08
432	597522.10	4121125.22	SF	79.67
433	597346.14	4121638.66	MF	83.30
434	597380.87	4121351.40	SF	87.24
435	597346.12	4121286.88	MF	88.24
436	597509.61	4121156.40	SF	80.74
437	597360.31	4121397.29	MF	86.59
438	597368.19	4121385.45	SF	86.92
439	597348.22	4121318.53	MF	88.13
440	597310.62	4121634.10	MF	83.47
441	597364.05	4121344.08	SF	87.60
442	597328.32	4121291.97	MF	88.25
443	597345.01	4121396.39	MF	86.85
444	597346.41	4121380.28	SF	87.00
445	597323.73	4121329.35	MF	88.10
446	597296.46	4121633.94	MF	83.48
447	597347.29	4121347.23	SF	87.50
448	597319.58	4121288.47	MF	88.22

449	597490.83	4121144.96	SF	81.01
450	597333.92	4121396.09	MF	86.99
451	597331.17	4121375.29	SF	86.97
452	597322.03	4121319.15	MF	88.12
453	597329.20	4121350.68	SF	87.38
454	597311.17	4121284.64	MF	88.24
455	597318.38	4121396.24	MF	86.91
456	597312.93	4121384.31	SF	87.23
457	597305.06	4121330.16	MF	87.92
458	597312.70	4121343.70	SF	87.67
459	597301.94	4121281.45	MF	88.45
460	597476.60	4121128.31	SF	81.08
461	597307.71	4121396.38	MF	86.93
462	597295.42	4121378.28	SF	87.16
463	597306.31	4121320.04	MF	88.08
464	597295.89	4121348.49	SF	87.53
465	597232.16	4121486.68	SF	86.06
466	597535.15	4121491.78	MF	84.25
467	597234.27	4121502.92	SF	85.81
468	597235.30	4121426.24	SF	86.62
469	597235.51	4121395.16	SF	87.06
470	597219.55	4121695.31	SF	83.34
471	597231.70	4121554.43	SF	85.02
472	597237.31	4121357.54	SF	87.57
473	597205.20	4121610.57	CO	84.56
474	597220.62	4121614.77	CO-4	84.37
475	597205.55	4121621.83	CO-4	84.50
476	597214.44	4121480.32	SF	86.13
477	597213.56	4121510.58	SF	85.67
478	597214.87	4121438.05	SF	86.24
479	597218.09	4121400.49	SF	87.08
480	597548.54	4121464.55	MF	84.24
481	597217.20	4121351.46	SF	87.49
482	597199.22	4121686.54	SF	83.54
483	597209.07	4121544.15	SF	84.94
484	597196.70	4121474.94	SF	86.13
485	597185.52	4121614.61	CO-4	84.45
486	597214.18	4121584.85	CO-4	84.50

487	597214.01	4121579.16	CO-4	84.64
488	597188.98	4121603.51	CO-4	84.47
489	597188.74	4121593.44	CO-4	84.51
490	597190.61	4121575.81	CO-4	84.82
491	597201.64	4121578.66	CO-4	84.67
492	597194.52	4121501.58	SF	85.87
493	597198.61	4121414.53	SF	86.67
494	597196.97	4121404.24	SF	87.05
495	597197.99	4121344.81	SF	87.60
496	597190.78	4121550.04	SF	85.01
497	597177.24	4121469.54	SF	86.07
498	597176.56	4121495.22	SF	85.89
499	597180.51	4121419.42	SF	86.52
500	597180.89	4121395.27	SF	87.19
501	597181.22	4121679.01	SF	83.57
502	597178.33	4121337.59	SF	87.74
503	597161.56	4121426.16	SF	86.31
504	597162.04	4121671.45	SF	83.57
505	597171.98	4121556.90	SF	85.17
506	597160.23	4121464.43	SF	85.93
507	597158.09	4121507.97	SF	85.58
508	597160.91	4121385.36	SF	86.99
509	597160.62	4121355.63	SF	87.37
510	597150.75	4121544.56	SF	84.87
511	597140.82	4121484.74	SF	86.10
512	597139.63	4121502.08	SF	85.58
513	597144.02	4121430.80	SF	86.22
514	597219.40	4121265.07	CO-3	88.79
515	597144.47	4121403.43	SF	87.11
516	597142.19	4121689.14	SF	83.63
517	597141.97	4121348.12	SF	87.48
518	597123.82	4121479.14	SF	86.10
519	597117.76	4121495.13	SF	85.82
520	597125.62	4121436.21	SF	86.08
521	597127.28	4121394.11	SF	87.19
522	597120.25	4121675.04	SF	83.66
523	597122.27	4121342.93	SF	87.57
524	597106.09	4121473.27	SF	86.00

525	597107.40	4121415.33	SF	86.52	
526	597106.51	4121383.16	SF	86.92	
527	597101.23	4121683.35	SF	83.77	
528	597088.35	4121467.91	SF	85.93	
529	597103.82	4121336.55	SF	87.82	
530	597088.77	4121420.74	SF	86.32	
531	597089.75	4121403.58	SF	87.04	
532	597079.36	4121688.65	SF	83.67	
533	597070.38	4121461.79	SF	85.72	
534	597069.87	4121425.07	SF	86.13	
535	597073.28	4121387.58	SF	86.80	
536	597036.12	4121680.44	SF	83.87	
537	597048.15	4121477.86	SF	85.85	
538	597050.44	4121429.92	SF	86.03	
539	597049.47	4121395.84	SF	86.74	
540	597039.56	4121624.35	SF	84.45	
541	597017.02	4121669.94	SF	83.88	
542	597018.97	4121631.84	SF	84.38	
543	597036.43	4121602.62	SF	84.75	
544	596997.51	4121674.71	SF	83.87	
545	597017.49	4121594.70	SF	84.71	
546	597001.29	4121623.33	SF	84.48	
547	597016.59	4121553.08	SF	84.97	
548	597001.02	4121586.84	SF	84.57	
549	596993.98	4121543.82	SF	85.07	
550	596979.16	4121680.11	SF	83.83	
551	596980.90	4121599.91	SF	84.71	
552	596981.71	4121616.01	SF	84.50	
553	597439.36	4121652.16	MF	83.22	
554	597444.23	4121655.19	MF	83.19	
555	597340.42	4121489.96	ED	84.88	
556	597340.76	4121475.31	ED	84.85	

Plant Boundary Receptors

Receptor Groups

Record Number	Group ID	Group Description
1	GQ	
2	SF	
3	MF	
4	ED	
5	CO-3	
6	CO-4	
7	CO	
8	CO-2	
9	MI	

Meteorology Pathway

AERMOD

Met Input Data

Surface Met Data

Filename: ..\MET\SANJOSE13_17.SFC
Format Type: Default AERMET format

Profile Met Data

Filename: ..\MET\SANJOSE13_17.PFL
Format Type: Default AERMET format

Wind Speed

☐ Wind Speeds are Vector Mean (Not Scalar Means)

Wind Direction

Rotation Adjustment [deg]:

Potential Temperature Profile

Base Elevation above MSL (for Primary Met Tower): 15.50 [m]

Meteorological Station Data

Stations	Station No.	Year	X Coordinate [m]	Y Coordinate [m]	Station Name
Surface		2013			San Jose Intl Airport (KSJC)
Upper Air		2013			OAKLAND/WSO AP

Data Period

Data Period to Process

Start Date: 1/1/2013 Start Hour: 1 End Date: 12/31/2017 End Hour: 24

Wind Speed Categories

Stability Category	Wind Speed [m/s]	Stability Category	Wind Speed [m/s]
A	1.54	D	8.23
B	3.09	E	10.8
C	5.14	F	No Upper Bound

Results Summary

Mana Camden Residential
Construction HRA - DPM and PM2.5

PM10 - Concentration - Source Group: DPM_T4

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.02201	ug/m^3	597548.54	4121464.55	84.24	0.00	84.24	

PM10 - Concentration - Source Group: DPM_UM

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.08801	ug/m^3	597548.54	4121464.55	84.24	0.00	84.24	

PM10 - Concentration - Source Group: PM25_T4

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.10658	ug/m^3	597548.54	4121464.55	84.24	0.00	84.24	

PM10 - Concentration - Source Group: PM25_UM

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.19557	ug/m^3	597548.54	4121464.55	84.24	0.00	84.24	

Sensitive Receptor Summary

Mana Camden Residential
Construction HRA - DPM and PM2.5

PM10 - Concentration - Source Group: DPM_T4

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00864	ug/m^3	SCHOOL	597337.24	4121559.95	84.84	0.00	84.84	
PERIOD		0.02201	ug/m^3	MEIR	597548.54	4121464.55	84.24	0.00	84.24	

PM10 - Concentration - Source Group: DPM_UM

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.03450	ug/m^3	SCHOOL	597337.24	4121559.95	84.84	0.00	84.84	
PERIOD		0.08801	ug/m^3	MEIR	597548.54	4121464.55	84.24	0.00	84.24	

PM10 - Concentration - Source Group: PM25_T4

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.04261	ug/m^3	SCHOOL	597337.24	4121559.95	84.84	0.00	84.84	
PERIOD		0.10658	ug/m^3	MEIR	597548.54	4121464.55	84.24	0.00	84.24	

Sensitive Receptor Summary

Mana Camden Residential
Construction HRA - DPM and PM2.5

PM10 - Concentration - Source Group: PM25_UM

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.07747	ug/m^3	SCHOOL	597337.24	4121559.95	84.84	0.00	84.84	
PERIOD		0.19557	ug/m^3	MEIR	597548.54	4121464.55	84.24	0.00	84.24	

* MODELING OPTIONS USED: RegDFAULT CONC ELEV URBAN ADJ_U*
* PLOT FILE OF PERIOD VALUES AVERAGED ACROSS 0 YEARS FOR SOURCE GROUP: DPM_UM
* FOR A TOTAL OF 556 RECEPTORS.
* FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

* X	Y	AVERAGE CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM HRS	NET ID
597214.99000	4121910.94000	0.00119	81.01	81.01	0.00	PERIOD	DPM_UM	00043824	
597174.30000	4121895.16000	0.00127	80.92	80.92	0.00	PERIOD	DPM_UM	00043824	
597174.78000	4121876.95000	0.00142	81.18	81.18	0.00	PERIOD	DPM_UM	00043824	
597117.48000	4121867.20000	0.00143	81.30	81.30	0.00	PERIOD	DPM_UM	00043824	
597215.50000	4121891.56000	0.00134	81.16	81.16	0.00	PERIOD	DPM_UM	00043824	
597285.36000	4121831.24000	0.00210	81.12	81.12	0.00	PERIOD	DPM_UM	00043824	
597355.16000	4121795.13000	0.00274	81.11	81.11	0.00	PERIOD	DPM_UM	00043824	
597351.76000	4121802.21000	0.00259	81.09	81.09	0.00	PERIOD	DPM_UM	00043824	
597348.22000	4121808.41000	0.00247	81.09	81.09	0.00	PERIOD	DPM_UM	00043824	
597289.67000	4121846.22000	0.00189	81.04	81.04	0.00	PERIOD	DPM_UM	00043824	
597333.00000	4121841.31000	0.00193	80.56	80.56	0.00	PERIOD	DPM_UM	00043824	
597326.27000	4121857.44000	0.00173	80.45	80.45	0.00	PERIOD	DPM_UM	00043824	
597316.91000	4121875.17000	0.00155	80.38	80.38	0.00	PERIOD	DPM_UM	00043824	
597283.12000	4121851.54000	0.00180	81.01	81.01	0.00	PERIOD	DPM_UM	00043824	
597283.26000	4121865.07000	0.00164	80.95	80.95	0.00	PERIOD	DPM_UM	00043824	
597283.73000	4121878.38000	0.00151	80.69	80.69	0.00	PERIOD	DPM_UM	00043824	
597284.24000	4121891.33000	0.00140	80.54	80.54	0.00	PERIOD	DPM_UM	00043824	
597298.51000	4121831.57000	0.00209	81.10	81.10	0.00	PERIOD	DPM_UM	00043824	
597306.39000	4121873.93000	0.00156	80.46	80.46	0.00	PERIOD	DPM_UM	00043824	
597312.31000	4121860.52000	0.00170	80.59	80.59	0.00	PERIOD	DPM_UM	00043824	
597319.49000	4121847.16000	0.00186	80.65	80.65	0.00	PERIOD	DPM_UM	00043824	
597312.07000	4121831.26000	0.00210	81.09	81.09	0.00	PERIOD	DPM_UM	00043824	
597299.58000	4121821.27000	0.00227	81.08	81.08	0.00	PERIOD	DPM_UM	00043824	
597289.97000	4121821.50000	0.00226	81.08	81.08	0.00	PERIOD	DPM_UM	00043824	
597359.22000	4121786.73000	0.00294	81.16	81.16	0.00	PERIOD	DPM_UM	00043824	
597174.28000	4121851.66000	0.00166	81.43	81.43	0.00	PERIOD	DPM_UM	00043824	
597118.70000	4121843.71000	0.00163	81.54	81.54	0.00	PERIOD	DPM_UM	00043824	
597217.21000	4121871.61000	0.00151	81.46	81.46	0.00	PERIOD	DPM_UM	00043824	
597176.06000	4121828.78000	0.00194	81.66	81.66	0.00	PERIOD	DPM_UM	00043824	
597119.93000	4121819.64000	0.00187	81.81	81.81	0.00	PERIOD	DPM_UM	00043824	
597281.31000	4121763.58000	0.00375	81.91	81.91	0.00	PERIOD	DPM_UM	00043824	
597281.25000	4121769.45000	0.00355	81.86	81.86	0.00	PERIOD	DPM_UM	00043824	
597281.43000	4121776.73000	0.00330	81.82	81.82	0.00	PERIOD	DPM_UM	00043824	
597281.62000	4121780.91000	0.00317	81.80	81.80	0.00	PERIOD	DPM_UM	00043824	
597281.92000	4121788.59000	0.00296	81.76	81.76	0.00	PERIOD	DPM_UM	00043824	
597281.79000	4121794.57000	0.00281	81.70	81.70	0.00	PERIOD	DPM_UM	00043824	
597215.34000	4121853.34000	0.00170	81.62	81.62	0.00	PERIOD	DPM_UM	00043824	
597297.44000	4121804.57000	0.00259	81.44	81.44	0.00	PERIOD	DPM_UM	00043824	
597304.54000	4121804.89000	0.00259	81.39	81.39	0.00	PERIOD	DPM_UM	00043824	
597313.26000	4121804.69000	0.00259	81.39	81.39	0.00	PERIOD	DPM_UM	00043824	
597329.33000	4121797.60000	0.00273	81.34	81.34	0.00	PERIOD	DPM_UM	00043824	
597334.14000	4121787.94000	0.00297	81.35	81.35	0.00	PERIOD	DPM_UM	00043824	
597119.87000	4121799.65000	0.00209	82.12	82.12	0.00	PERIOD	DPM_UM	00043824	
597176.61000	4121808.22000	0.00223	81.94	81.94	0.00	PERIOD	DPM_UM	00043824	
597365.97000	4121764.41000	0.00360	81.77	81.77	0.00	PERIOD	DPM_UM	00043824	
597355.12000	4121764.29000	0.00366	81.76	81.76	0.00	PERIOD	DPM_UM	00043824	
597332.49000	4121766.83000	0.00363	81.85	81.85	0.00	PERIOD	DPM_UM	00043824	
597325.65000	4121766.75000	0.00365	81.89	81.89	0.00	PERIOD	DPM_UM	00043824	
597081.14000	4121842.71000	0.00154	81.77	81.77	0.00	PERIOD	DPM_UM	00043824	
597318.63000	4121766.61000	0.00367	81.89	81.89	0.00	PERIOD	DPM_UM	00043824	
597312.80000	4121766.60000	0.00367	81.87	81.87	0.00	PERIOD	DPM_UM	00043824	
597305.30000	4121766.69000	0.00367	81.83	81.83	0.00	PERIOD	DPM_UM	00043824	
597299.18000	4121766.65000	0.00367	81.83	81.83	0.00	PERIOD	DPM_UM	00043824	
597394.20000	4121903.56000	0.00122	80.29	80.29	0.00	PERIOD	DPM_UM	00043824	
597215.30000	4121832.76000	0.00197	81.70	81.70	0.00	PERIOD	DPM_UM	00043824	
597446.30000	4121912.80000	0.00100	80.18	80.18	0.00	PERIOD	DPM_UM	00043824	
597177.12000	4121788.83000	0.00255	82.18	82.18	0.00	PERIOD	DPM_UM	00043824	
597120.97000	4121780.28000	0.00231	82.27	82.27	0.00	PERIOD	DPM_UM	00043824	
597401.13000	4121889.33000	0.00130	80.43	80.43	0.00	PERIOD	DPM_UM	00043824	
597294.38000	4121741.29000	0.00481	82.31	82.31	0.00	PERIOD	DPM_UM	00043824	

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597300.07000 4121746.76000       0.00454    82.25    82.25     0.00  PERIOD  DPM_UM    00043824
597308.18000 4121746.47000       0.00456    82.29    82.29     0.00  PERIOD  DPM_UM    00043824
597314.20000 4121745.02000       0.00463    82.34    82.34     0.00  PERIOD  DPM_UM    00043824
597317.75000 4121737.73000       0.00504    82.55    82.55     0.00  PERIOD  DPM_UM    00043824
597083.51000 4121819.85000       0.00172    82.04    82.04     0.00  PERIOD  DPM_UM    00043824
597174.70000 4121769.37000       0.00290    82.31    82.31     0.00  PERIOD  DPM_UM    00043824
597361.29000 4121748.78000       0.00428    82.41    82.41     0.00  PERIOD  DPM_UM    00043824
597355.06000 4121739.94000       0.00477    82.54    82.54     0.00  PERIOD  DPM_UM    00043824
597362.76000 4121739.85000       0.00473    82.54    82.54     0.00  PERIOD  DPM_UM    00043824
597369.95000 4121740.38000       0.00465    82.51    82.51     0.00  PERIOD  DPM_UM    00043824
597365.47000 4121754.88000       0.00398    82.30    82.30     0.00  PERIOD  DPM_UM    00043824
597359.34000 4121754.98000       0.00401    82.28    82.28     0.00  PERIOD  DPM_UM    00043824
597454.64000 4121894.68000       0.00107    80.38    80.38     0.00  PERIOD  DPM_UM    00043824
597214.65000 4121813.35000       0.00226    81.92    81.92     0.00  PERIOD  DPM_UM    00043824
597120.30000 4121761.46000       0.00252    82.38    82.38     0.00  PERIOD  DPM_UM    00043824
597413.31000 4121873.94000       0.00139    80.57    80.57     0.00  PERIOD  DPM_UM    00043824
597481.79000 4121907.20000       0.00089    80.04    80.04     0.00  PERIOD  DPM_UM    00043824
597175.22000 4121749.98000       0.00331    82.49    82.49     0.00  PERIOD  DPM_UM    00043824
597463.00000 4121875.26000       0.00115    80.57    80.57     0.00  PERIOD  DPM_UM    00043824
597420.34000 4121855.79000       0.00153    80.74    80.74     0.00  PERIOD  DPM_UM    00043824
597215.76000 4121793.39000       0.00265    82.26    82.26     0.00  PERIOD  DPM_UM    00043824
597492.66000 4121891.77000       0.00091    80.14    80.14     0.00  PERIOD  DPM_UM    00043824
597530.03000 4121913.72000       0.00069    79.87    79.87     0.00  PERIOD  DPM_UM    00043824
597083.47000 4121799.27000       0.00188    82.29    82.29     0.00  PERIOD  DPM_UM    00043824
597170.86000 4121715.18000       0.00398    82.73    82.73     0.00  PERIOD  DPM_UM    00043824
597475.19000 4121859.86000       0.00119    80.79    80.79     0.00  PERIOD  DPM_UM    00043824
597427.29000 4121840.25000       0.00166    80.95    80.95     0.00  PERIOD  DPM_UM    00043824
597500.96000 4121874.96000       0.00096    80.33    80.33     0.00  PERIOD  DPM_UM    00043824
597538.30000 4121898.22000       0.00071    79.98    79.98     0.00  PERIOD  DPM_UM    00043824
597142.33000 4121705.60000       0.00343    83.26    83.26     0.00  PERIOD  DPM_UM    00043824
597215.10000 4121773.97000       0.00309    82.50    82.50     0.00  PERIOD  DPM_UM    00043824
597082.81000 4121779.86000       0.00203    82.43    82.43     0.00  PERIOD  DPM_UM    00043824
597439.52000 4121823.55000       0.00178    81.01    81.01     0.00  PERIOD  DPM_UM    00043824
597027.94000 4121767.23000       0.00166    82.50    82.50     0.00  PERIOD  DPM_UM    00043824
597507.95000 4121858.12000       0.00101    80.43    80.43     0.00  PERIOD  DPM_UM    00043824
597546.52000 4121884.03000       0.00073    80.12    80.12     0.00  PERIOD  DPM_UM    00043824
597484.80000 4121843.09000       0.00125    80.97    80.97     0.00  PERIOD  DPM_UM    00043824
597119.88000 4121710.89000       0.00293    82.92    82.92     0.00  PERIOD  DPM_UM    00043824
597216.81000 4121754.03000       0.00366    82.66    82.66     0.00  PERIOD  DPM_UM    00043824
597449.09000 4121808.08000       0.00191    81.26    81.26     0.00  PERIOD  DPM_UM    00043824
597520.18000 4121841.41000       0.00104    80.58    80.58     0.00  PERIOD  DPM_UM    00043824
597558.85000 4121863.40000       0.00075    80.41    80.41     0.00  PERIOD  DPM_UM    00043824
597494.40000 4121826.32000       0.00132    81.17    81.17     0.00  PERIOD  DPM_UM    00043824
597080.96000 4121761.00000       0.00214    82.55    82.55     0.00  PERIOD  DPM_UM    00043824
597099.79000 4121715.64000       0.00257    82.84    82.84     0.00  PERIOD  DPM_UM    00043824
597030.91000 4121743.79000       0.00172    82.84    82.84     0.00  PERIOD  DPM_UM    00043824
597454.74000 4121792.52000       0.00209    81.43    81.43     0.00  PERIOD  DPM_UM    00043824
597525.82000 4121825.84000       0.00110    80.79    80.79     0.00  PERIOD  DPM_UM    00043824
597565.73000 4121850.48000       0.00078    80.62    80.62     0.00  PERIOD  DPM_UM    00043824
597498.74000 4121810.71000       0.00142    81.28    81.28     0.00  PERIOD  DPM_UM    00043824
597216.15000 4121734.61000       0.00430    82.91    82.91     0.00  PERIOD  DPM_UM    00043824
597080.23000 4121722.18000       0.00227    82.87    82.87     0.00  PERIOD  DPM_UM    00043824
597465.68000 4121774.47000       0.00227    81.67    81.67     0.00  PERIOD  DPM_UM    00043824
597029.08000 4121724.35000       0.00169    83.21    83.21     0.00  PERIOD  DPM_UM    00043824
597507.01000 4121795.22000       0.00150    81.54    81.54     0.00  PERIOD  DPM_UM    00043824
597532.92000 4121805.08000       0.00120    81.23    81.23     0.00  PERIOD  DPM_UM    00043824
597575.38000 4121832.40000       0.00081    80.86    80.86     0.00  PERIOD  DPM_UM    00043824
597213.72000 4121715.73000       0.00498    83.11    83.11     0.00  PERIOD  DPM_UM    00043824
597472.61000 4121760.24000       0.00245    81.82    81.82     0.00  PERIOD  DPM_UM    00043824
597516.58000 4121779.75000       0.00157    81.71    81.71     0.00  PERIOD  DPM_UM    00043824
597545.00000 4121793.60000       0.00120    81.37    81.37     0.00  PERIOD  DPM_UM    00043824
597584.98000 4121815.63000       0.00085    81.11    81.11     0.00  PERIOD  DPM_UM    00043824
597027.20000 4121706.66000       0.00163    83.59    83.59     0.00  PERIOD  DPM_UM    00043824
597527.49000 4121763.01000       0.00166    81.78    81.78     0.00  PERIOD  DPM_UM    00043824
597483.59000 4121740.89000       0.00270    82.04    82.04     0.00  PERIOD  DPM_UM    00043824
597554.61000 4121776.83000       0.00128    81.40    81.40     0.00  PERIOD  DPM_UM    00043824
597591.94000 4121800.09000       0.00091    81.19    81.19     0.00  PERIOD  DPM_UM    00043824
597113.24000 4121628.42000       0.00227    84.24    84.24     0.00  PERIOD  DPM_UM    00043824
597162.18000 4121630.71000       0.00361    84.09    84.09     0.00  PERIOD  DPM_UM    00043824
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597083.86000 4121627.64000       0.00178    84.45    84.45     0.00  PERIOD  DPM_UM    00043824
597442.91000 4121665.82000       0.01000    83.07    83.07     0.00  PERIOD  DPM_UM    00043824
597161.68000 4121612.54000       0.00320    84.37    84.37     0.00  PERIOD  DPM_UM    00043824
597083.41000 4121607.52000       0.00158    84.60    84.60     0.00  PERIOD  DPM_UM    00043824
597113.26000 4121609.29000       0.00203    84.41    84.41     0.00  PERIOD  DPM_UM    00043824
597436.40000 4121662.77000       0.01132    83.17    83.17     0.00  PERIOD  DPM_UM    00043824
597457.09000 4121633.33000       0.01731    83.49    83.49     0.00  PERIOD  DPM_UM    00043824
597163.18000 4121592.96000       0.00284    84.60    84.60     0.00  PERIOD  DPM_UM    00043824
597082.48000 4121587.38000       0.00138    84.77    84.77     0.00  PERIOD  DPM_UM    00043824
597114.73000 4121590.69000       0.00182    84.52    84.52     0.00  PERIOD  DPM_UM    00043824
597459.44000 4121627.00000       0.01987    83.54    83.54     0.00  PERIOD  DPM_UM    00043824
597463.40000 4121619.55000       0.02377    83.56    83.56     0.00  PERIOD  DPM_UM    00043824
597160.16000 4121577.67000       0.00247    84.85    84.85     0.00  PERIOD  DPM_UM    00043824
597077.08000 4121569.09000       0.00117    84.92    84.92     0.00  PERIOD  DPM_UM    00043824
597110.79000 4121572.93000       0.00156    84.79    84.79     0.00  PERIOD  DPM_UM    00043824
597469.01000 4121612.94000       0.02804    83.58    83.58     0.00  PERIOD  DPM_UM    00043824
597471.96000 4121605.78000       0.03524    83.59    83.59     0.00  PERIOD  DPM_UM    00043824
597531.52000 4121651.57000       0.00478    83.25    83.25     0.00  PERIOD  DPM_UM    00043824
597105.45000 4121552.68000       0.00129    84.89    84.89     0.00  PERIOD  DPM_UM    00043824
597069.73000 4121550.75000       0.00097    85.17    85.17     0.00  PERIOD  DPM_UM    00043824
597476.36000 4121598.36000       0.04215    83.58    83.58     0.00  PERIOD  DPM_UM    00043824
597539.15000 4121635.40000       0.00566    83.25    83.25     0.00  PERIOD  DPM_UM    00043824
597591.78000 4121649.24000       0.00292    82.91    82.91     0.00  PERIOD  DPM_UM    00043824
597478.70000 4121590.25000       0.05165    83.68    83.68     0.00  PERIOD  DPM_UM    00043824
597550.65000 4121621.29000       0.00638    83.14    83.14     0.00  PERIOD  DPM_UM    00043824
597595.49000 4121632.97000       0.00347    82.93    82.93     0.00  PERIOD  DPM_UM    00043824
597092.79000 4121531.25000       0.00099    85.20    85.20     0.00  PERIOD  DPM_UM    00043824
597062.39000 4121531.91000       0.00081    85.26    85.26     0.00  PERIOD  DPM_UM    00043824
597485.83000 4121580.27000       0.05795    83.83    83.83     0.00  PERIOD  DPM_UM    00043824
597559.60000 4121604.50000       0.00796    83.12    83.12     0.00  PERIOD  DPM_UM    00043824
597489.63000 4121573.73000       0.06201    83.87    83.87     0.00  PERIOD  DPM_UM    00043824
597603.82000 4121614.85000       0.00416    82.63    82.63     0.00  PERIOD  DPM_UM    00043824
597093.30000 4121512.13000       0.00086    85.62    85.62     0.00  PERIOD  DPM_UM    00043824
597565.92000 4121588.30000       0.01021    82.90    82.90     0.00  PERIOD  DPM_UM    00043824
597493.57000 4121566.36000       0.06629    83.90    83.90     0.00  PERIOD  DPM_UM    00043824
597005.78000 4121518.16000       0.00052    85.27    85.27     0.00  PERIOD  DPM_UM    00043824
597056.01000 4121514.08000       0.00068    85.48    85.48     0.00  PERIOD  DPM_UM    00043824
597609.43000 4121600.59000       0.00492    82.54    82.54     0.00  PERIOD  DPM_UM    00043824
597574.80000 4121574.12000       0.01198    82.75    82.75     0.00  PERIOD  DPM_UM    00043824
597507.34000 4121536.52000       0.08083    84.01    84.01     0.00  PERIOD  DPM_UM    00043824
597002.67000 4121495.82000       0.00045    85.55    85.55     0.00  PERIOD  DPM_UM    00043824
597622.27000 4121585.21000       0.00554    82.49    82.49     0.00  PERIOD  DPM_UM    00043824
597054.08000 4121494.41000       0.00059    85.73    85.73     0.00  PERIOD  DPM_UM    00043824
597759.44000 4121616.55000       0.00146    79.53    79.53     0.00  PERIOD  DPM_UM    00043824
597583.74000 4121557.99000       0.01424    82.77    82.77     0.00  PERIOD  DPM_UM    00043824
597524.51000 4121512.67000       0.08179    84.07    84.07     0.00  PERIOD  DPM_UM    00043824
597776.82000 4121602.60000       0.00150    78.89    78.89     0.00  PERIOD  DPM_UM    00043824
597592.64000 4121543.16000       0.01609    82.66    82.66     0.00  PERIOD  DPM_UM    00043824
597001.96000 4121476.01000       0.00040    85.74    85.74     0.00  PERIOD  DPM_UM    00043824
597628.61000 4121568.35000       0.00679    82.42    82.42     0.00  PERIOD  DPM_UM    00043824
597788.30000 4121589.15000       0.00159    78.44    78.44     0.00  PERIOD  DPM_UM    00043824
597337.24000 4121559.95000       0.03450    84.84    84.84     0.00  PERIOD  DPM_UM    00043824
597339.98000 4121525.89000       0.01957    84.84    84.84     0.00  PERIOD  DPM_UM    00043824
597349.04000 4121515.60000       0.02064    84.84    84.84     0.00  PERIOD  DPM_UM    00043824
597336.57000 4121515.86000       0.01617    84.84    84.84     0.00  PERIOD  DPM_UM    00043824
597636.88000 4121552.85000       0.00788    82.32    82.32     0.00  PERIOD  DPM_UM    00043824
597797.22000 4121573.67000       0.00173    78.14    79.85     0.00  PERIOD  DPM_UM    00043824
597597.00000 4121526.90000       0.01938    82.67    82.67     0.00  PERIOD  DPM_UM    00043824
597806.71000 4121561.48000       0.00183    77.85    79.72     0.00  PERIOD  DPM_UM    00043824
597650.99000 4121536.38000       0.00855    82.16    82.16     0.00  PERIOD  DPM_UM    00043824
597602.65000 4121511.33000       0.02213    82.73    82.73     0.00  PERIOD  DPM_UM    00043824
597818.20000 4121547.38000       0.00195    77.54    77.54     0.00  PERIOD  DPM_UM    00043824
597611.58000 4121495.20000       0.02380    82.73    82.73     0.00  PERIOD  DPM_UM    00043824
597827.03000 4121535.17000       0.00207    77.49    77.49     0.00  PERIOD  DPM_UM    00043824
597619.16000 4121480.99000       0.02511    82.74    82.74     0.00  PERIOD  DPM_UM    00043824
597664.90000 4121495.63000       0.01222    81.88    81.88     0.00  PERIOD  DPM_UM    00043824
597835.95000 4121519.69000       0.00226    77.58    77.58     0.00  PERIOD  DPM_UM    00043824
597677.83000 4121476.65000       0.01297    81.70    81.70     0.00  PERIOD  DPM_UM    00043824
597641.55000 4121447.35000       0.02563    82.63    82.63     0.00  PERIOD  DPM_UM    00043824
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597680.05000 4121503.90000       0.00945    81.63    81.63     0.00  PERIOD  DPM_UM    00043824
597672.14000 4121553.32000       0.00545    81.44    81.44     0.00  PERIOD  DPM_UM    00043824
597696.83000 4121512.53000       0.00721    81.39    81.39     0.00  PERIOD  DPM_UM    00043824
597685.62000 4121562.85000       0.00425    81.15    81.15     0.00  PERIOD  DPM_UM    00043824
597687.18000 4121457.26000       0.01405    81.39    81.39     0.00  PERIOD  DPM_UM    00043824
597713.28000 4121521.81000       0.00555    81.10    81.10     0.00  PERIOD  DPM_UM    00043824
597653.04000 4121430.58000       0.02497    81.85    81.85     0.00  PERIOD  DPM_UM    00043824
597700.40000 4121573.06000       0.00331    81.01    81.01     0.00  PERIOD  DPM_UM    00043824
597728.41000 4121530.72000       0.00439    80.88    80.88     0.00  PERIOD  DPM_UM    00043824
597715.19000 4121582.63000       0.00266    80.84    80.84     0.00  PERIOD  DPM_UM    00043824
597689.83000 4121443.57000       0.01526    81.13    81.13     0.00  PERIOD  DPM_UM    00043824
597235.97000 4121269.19000       0.00041    88.76    88.76     0.00  PERIOD  DPM_UM    00043824
597731.83000 4121596.82000       0.00205    80.61    80.61     0.00  PERIOD  DPM_UM    00043824
597225.79000 4121269.05000       0.00040    88.80    88.80     0.00  PERIOD  DPM_UM    00043824
597658.55000 4121414.75000       0.02529    81.49    81.49     0.00  PERIOD  DPM_UM    00043824
597751.09000 4121586.20000       0.00203    80.42    80.42     0.00  PERIOD  DPM_UM    00043824
597326.97000 4121268.69000       0.00072    88.30    88.30     0.00  PERIOD  DPM_UM    00043824
597305.72000 4121268.45000       0.00064    88.54    88.54     0.00  PERIOD  DPM_UM    00043824
597702.61000 4121430.81000       0.01469    81.03    81.03     0.00  PERIOD  DPM_UM    00043824
597214.01000 4121269.00000       0.00037    88.83    88.83     0.00  PERIOD  DPM_UM    00043824
597355.98000 4121272.90000       0.00088    88.38    88.38     0.00  PERIOD  DPM_UM    00043824
597758.77000 4121568.06000       0.00232    80.32    80.32     0.00  PERIOD  DPM_UM    00043824
597330.78000 4121260.77000       0.00070    88.30    88.30     0.00  PERIOD  DPM_UM    00043824
597235.90000 4121309.46000       0.00053    88.10    88.10     0.00  PERIOD  DPM_UM    00043824
597305.80000 4121259.12000       0.00060    88.67    88.67     0.00  PERIOD  DPM_UM    00043824
597205.42000 4121263.61000       0.00034    88.86    88.86     0.00  PERIOD  DPM_UM    00043824
597667.73000 4121400.64000       0.02383    81.19    81.19     0.00  PERIOD  DPM_UM    00043824
597230.08000 4121309.43000       0.00051    88.08    88.08     0.00  PERIOD  DPM_UM    00043824
597361.72000 4121266.33000       0.00087    88.49    88.49     0.00  PERIOD  DPM_UM    00043824
597765.09000 4121551.86000       0.00263    80.13    80.13     0.00  PERIOD  DPM_UM    00043824
597334.92000 4121253.01000       0.00068    88.32    88.32     0.00  PERIOD  DPM_UM    00043824
597220.77000 4121310.62000       0.00048    88.08    88.08     0.00  PERIOD  DPM_UM    00043824
597306.69000 4121250.30000       0.00057    88.78    88.78     0.00  PERIOD  DPM_UM    00043824
597205.55000 4121253.83000       0.00033    88.84    88.84     0.00  PERIOD  DPM_UM    00043824
597210.15000 4121311.79000       0.00046    88.08    88.08     0.00  PERIOD  DPM_UM    00043824
597365.70000 4121258.09000       0.00084    88.59    88.59     0.00  PERIOD  DPM_UM    00043824
597776.57000 4121538.41000       0.00280    79.88    79.88     0.00  PERIOD  DPM_UM    00043824
597708.60000 4121414.60000       0.01523    80.65    80.65     0.00  PERIOD  DPM_UM    00043824
597341.17000 4121245.32000       0.00067    88.36    88.36     0.00  PERIOD  DPM_UM    00043824
597199.35000 4121309.67000       0.00043    87.99    87.99     0.00  PERIOD  DPM_UM    00043824
597307.92000 4121240.83000       0.00055    88.88    88.88     0.00  PERIOD  DPM_UM    00043824
597746.17000 4121502.71000       0.00514    79.66    79.66     0.00  PERIOD  DPM_UM    00043824
597193.80000 4121309.52000       0.00041    87.96    87.96     0.00  PERIOD  DPM_UM    00043824
597368.73000 4121248.67000       0.00080    88.56    88.56     0.00  PERIOD  DPM_UM    00043824
597786.72000 4121525.58000       0.00297    79.47    79.47     0.00  PERIOD  DPM_UM    00043824
597205.99000 4121242.20000       0.00031    88.93    88.93     0.00  PERIOD  DPM_UM    00043824
597728.76000 4121493.07000       0.00662    80.16    80.16     0.00  PERIOD  DPM_UM    00043824
597676.38000 4121385.83000       0.02217    80.84    80.84     0.00  PERIOD  DPM_UM    00043824
597178.41000 4121310.20000       0.00038    87.99    87.99     0.00  PERIOD  DPM_UM    00043824
597308.47000 4121232.66000       0.00053    88.92    88.92     0.00  PERIOD  DPM_UM    00043824
597713.69000 4121481.54000       0.00857    80.54    80.54     0.00  PERIOD  DPM_UM    00043824
597167.42000 4121310.57000       0.00036    88.02    88.02     0.00  PERIOD  DPM_UM    00043824
597798.91000 4121510.19000       0.00317    78.45    78.45     0.00  PERIOD  DPM_UM    00043824
597732.01000 4121456.81000       0.00909    80.23    80.23     0.00  PERIOD  DPM_UM    00043824
597157.03000 4121308.00000       0.00034    88.06    88.06     0.00  PERIOD  DPM_UM    00043824
597722.38000 4121400.56000       0.01430    80.08    80.08     0.00  PERIOD  DPM_UM    00043824
597731.54000 4121437.81000       0.01064    80.41    80.41     0.00  PERIOD  DPM_UM    00043824
597150.57000 4121308.04000       0.00033    88.09    88.09     0.00  PERIOD  DPM_UM    00043824
597807.12000 4121496.65000       0.00340    77.65    77.65     0.00  PERIOD  DPM_UM    00043824
597754.47000 4121424.33000       0.00955    79.86    79.86     0.00  PERIOD  DPM_UM    00043824
597130.87000 4121314.58000       0.00031    88.14    88.14     0.00  PERIOD  DPM_UM    00043824
597225.45000 4121203.42000       0.00030    89.30    89.30     0.00  PERIOD  DPM_UM    00043824
597773.16000 4121459.54000       0.00619    77.99    77.99     0.00  PERIOD  DPM_UM    00043824
597684.69000 4121369.58000       0.02022    79.92    79.92     0.00  PERIOD  DPM_UM    00043824
597125.19000 4121309.13000       0.00030    88.13    88.13     0.00  PERIOD  DPM_UM    00043824
597819.89000 4121483.89000       0.00349    77.16    77.16     0.00  PERIOD  DPM_UM    00043824
597781.55000 4121439.46000       0.00681    78.04    79.73     0.00  PERIOD  DPM_UM    00043824
597116.49000 4121300.51000       0.00027    88.23    88.23     0.00  PERIOD  DPM_UM    00043824
597801.37000 4121432.13000       0.00616    77.66    77.66     0.00  PERIOD  DPM_UM    00043824
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597837.93000	4121469.96000	0.00348	76.95	76.95	0.00	PERIOD	DPM_UM	00043824
597721.84000	4121384.17000	0.01501	79.05	79.05	0.00	PERIOD	DPM_UM	00043824
597162.17000	4121271.30000	0.00029	88.60	88.60	0.00	PERIOD	DPM_UM	00043824
597691.71000	4121353.96000	0.01836	79.19	79.19	0.00	PERIOD	DPM_UM	00043824
597739.89000	4121369.91000	0.01334	78.51	78.51	0.00	PERIOD	DPM_UM	00043824
597162.23000	4121241.55000	0.00025	88.92	88.92	0.00	PERIOD	DPM_UM	00043824
597171.62000	4121219.16000	0.00024	89.33	89.33	0.00	PERIOD	DPM_UM	00043824
597159.33000	4121221.70000	0.00023	89.17	89.17	0.00	PERIOD	DPM_UM	00043824
597702.40000	4121339.03000	0.01629	79.07	79.07	0.00	PERIOD	DPM_UM	00043824
597712.71000	4121321.31000	0.01428	79.04	79.04	0.00	PERIOD	DPM_UM	00043824
597212.98000	4121596.32000	0.00504	84.48	84.48	0.00	PERIOD	DPM_UM	00043824
597305.73000	4121897.48000	0.00135	80.25	80.25	0.00	PERIOD	DPM_UM	00043824
597355.60000	4121436.22000	0.00712	85.51	85.51	0.00	PERIOD	DPM_UM	00043824
597102.33000	4121708.76000	0.00262	83.03	83.03	0.00	PERIOD	DPM_UM	00043824
597120.02000	4121705.99000	0.00295	83.12	83.12	0.00	PERIOD	DPM_UM	00043824
597851.50000	4121501.10000	0.00243	77.52	77.52	0.00	PERIOD	DPM_UM	00043824
597856.89000	4121435.90000	0.00403	77.39	77.39	0.00	PERIOD	DPM_UM	00043824
597850.11000	4121420.00000	0.00472	77.55	77.55	0.00	PERIOD	DPM_UM	00043824
597843.32000	4121404.75000	0.00545	77.64	77.64	0.00	PERIOD	DPM_UM	00043824
597832.54000	4121392.02000	0.00631	77.79	77.79	0.00	PERIOD	DPM_UM	00043824
597776.88000	4121418.05000	0.00820	77.85	79.80	0.00	PERIOD	DPM_UM	00043824
597821.17000	4121376.66000	0.00733	77.82	77.82	0.00	PERIOD	DPM_UM	00043824
597770.67000	4121405.77000	0.00926	77.84	77.84	0.00	PERIOD	DPM_UM	00043824
597298.81000	4121189.35000	0.00041	89.21	89.21	0.00	PERIOD	DPM_UM	00043824
597813.05000	4121362.03000	0.00816	78.10	78.10	0.00	PERIOD	DPM_UM	00043824
597302.67000	4121210.90000	0.00046	89.10	89.10	0.00	PERIOD	DPM_UM	00043824
597307.23000	4121186.79000	0.00042	89.14	89.14	0.00	PERIOD	DPM_UM	00043824
597802.35000	4121346.03000	0.00905	78.11	78.11	0.00	PERIOD	DPM_UM	00043824
597311.07000	4121214.72000	0.00049	89.07	89.07	0.00	PERIOD	DPM_UM	00043824
597761.69000	4121386.54000	0.01085	78.17	78.17	0.00	PERIOD	DPM_UM	00043824
597318.76000	4121183.81000	0.00043	89.00	89.00	0.00	PERIOD	DPM_UM	00043824
597782.98000	4121336.34000	0.01026	78.30	78.30	0.00	PERIOD	DPM_UM	00043824
597320.45000	4121218.57000	0.00051	89.01	89.01	0.00	PERIOD	DPM_UM	00043824
597329.43000	4121188.68000	0.00046	89.03	89.03	0.00	PERIOD	DPM_UM	00043824
597766.84000	4121328.06000	0.01118	78.43	78.43	0.00	PERIOD	DPM_UM	00043824
597745.12000	4121197.96000	0.00557	78.86	78.86	0.00	PERIOD	DPM_UM	00043824
597338.12000	4121194.15000	0.00049	89.05	89.05	0.00	PERIOD	DPM_UM	00043824
597752.32000	4121321.32000	0.01190	78.62	78.62	0.00	PERIOD	DPM_UM	00043824
597333.76000	4121222.53000	0.00056	88.94	88.94	0.00	PERIOD	DPM_UM	00043824
597343.75000	4121203.80000	0.00053	88.93	88.93	0.00	PERIOD	DPM_UM	00043824
597732.74000	4121325.45000	0.01327	78.75	78.75	0.00	PERIOD	DPM_UM	00043824
597341.48000	4121227.65000	0.00060	88.74	88.74	0.00	PERIOD	DPM_UM	00043824
597725.64000	4121183.56000	0.00475	79.02	79.02	0.00	PERIOD	DPM_UM	00043824
597355.24000	4121202.14000	0.00055	88.69	88.69	0.00	PERIOD	DPM_UM	00043824
597349.86000	4121232.45000	0.00065	88.64	88.64	0.00	PERIOD	DPM_UM	00043824
597703.31000	4121190.26000	0.00476	79.05	79.05	0.00	PERIOD	DPM_UM	00043824
597751.91000	4121641.57000	0.00124	80.43	80.43	0.00	PERIOD	DPM_UM	00043824
597727.48000	4121680.38000	0.00105	80.69	80.69	0.00	PERIOD	DPM_UM	00043824
597367.36000	4121232.59000	0.00071	88.58	88.58	0.00	PERIOD	DPM_UM	00043824
597707.10000	4121708.65000	0.00095	81.01	81.01	0.00	PERIOD	DPM_UM	00043824
597675.15000	4121753.65000	0.00082	81.19	81.19	0.00	PERIOD	DPM_UM	00043824
597375.41000	4121237.39000	0.00077	88.59	88.59	0.00	PERIOD	DPM_UM	00043824
597677.59000	4121180.12000	0.00393	79.33	79.33	0.00	PERIOD	DPM_UM	00043824
597735.78000	4121632.95000	0.00144	80.78	80.78	0.00	PERIOD	DPM_UM	00043824
597688.77000	4121698.32000	0.00109	81.28	81.28	0.00	PERIOD	DPM_UM	00043824
597677.38000	4121154.50000	0.00305	79.12	79.12	0.00	PERIOD	DPM_UM	00043824
597711.51000	4121665.87000	0.00125	80.84	80.84	0.00	PERIOD	DPM_UM	00043824
597663.11000	4121735.30000	0.00096	81.04	81.04	0.00	PERIOD	DPM_UM	00043824
597654.22000	4121777.98000	0.00079	81.50	81.50	0.00	PERIOD	DPM_UM	00043824
597383.64000	4121241.70000	0.00084	88.49	88.49	0.00	PERIOD	DPM_UM	00043824
597673.30000	4121692.01000	0.00123	81.39	81.39	0.00	PERIOD	DPM_UM	00043824
597647.55000	4121729.64000	0.00107	81.39	81.39	0.00	PERIOD	DPM_UM	00043824
597638.06000	4121770.35000	0.00088	81.66	81.66	0.00	PERIOD	DPM_UM	00043824
597396.51000	4121259.35000	0.00106	88.03	88.03	0.00	PERIOD	DPM_UM	00043824
597655.98000	4121190.01000	0.00396	79.41	79.41	0.00	PERIOD	DPM_UM	00043824
597722.41000	4121618.84000	0.00175	81.01	81.01	0.00	PERIOD	DPM_UM	00043824
597658.51000	4121682.45000	0.00142	81.82	81.82	0.00	PERIOD	DPM_UM	00043824
597695.72000	4121656.61000	0.00144	81.12	81.12	0.00	PERIOD	DPM_UM	00043824
597632.76000	4121720.08000	0.00122	81.67	81.67	0.00	PERIOD	DPM_UM	00043824

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597622.64000 4121760.11000       0.00100    81.79    81.79     0.00  PERIOD  DPM_UM    00043824
597647.00000 4121672.32000       0.00163    82.06    82.06     0.00  PERIOD  DPM_UM    00043824
597652.05000 4121153.42000       0.00266    79.06    79.06     0.00  PERIOD  DPM_UM    00043824
597607.13000 4121752.50000       0.00113    81.90    81.90     0.00  PERIOD  DPM_UM    00043824
597403.92000 4121265.83000       0.00119    88.03    88.03     0.00  PERIOD  DPM_UM    00043824
597636.81000 4121180.30000       0.00324    79.67    79.67     0.00  PERIOD  DPM_UM    00043824
597702.86000 4121615.70000       0.00202    81.31    81.31     0.00  PERIOD  DPM_UM    00043824
597680.29000 4121646.70000       0.00171    81.30    81.30     0.00  PERIOD  DPM_UM    00043824
597617.91000 4121712.48000       0.00139    81.93    81.93     0.00  PERIOD  DPM_UM    00043824
597592.32000 4121743.59000       0.00130    82.02    82.02     0.00  PERIOD  DPM_UM    00043824
597409.06000 4121273.21000       0.00133    87.98    87.98     0.00  PERIOD  DPM_UM    00043824
597629.53000 4121665.31000       0.00192    82.35    82.35     0.00  PERIOD  DPM_UM    00043824
597435.19000 4121287.68000       0.00198    87.68    87.68     0.00  PERIOD  DPM_UM    00043824
597630.74000 4121159.27000       0.00251    79.17    79.17     0.00  PERIOD  DPM_UM    00043824
597601.72000 4121706.16000       0.00160    82.27    82.27     0.00  PERIOD  DPM_UM    00043824
597579.54000 4121732.11000       0.00151    82.09    82.09     0.00  PERIOD  DPM_UM    00043824
597616.31000 4121186.84000       0.00308    79.75    79.75     0.00  PERIOD  DPM_UM    00043824
597622.82000 4121117.91000       0.00162    79.16    79.16     0.00  PERIOD  DPM_UM    00043824
597689.36000 4121606.83000       0.00241    81.53    81.53     0.00  PERIOD  DPM_UM    00043824
597614.05000 4121656.38000       0.00231    82.79    82.79     0.00  PERIOD  DPM_UM    00043824
597428.71000 4121293.82000       0.00198    87.85    87.85     0.00  PERIOD  DPM_UM    00043824
597666.07000 4121639.77000       0.00197    81.42    81.42     0.00  PERIOD  DPM_UM    00043824
597586.24000 4121697.89000       0.00188    82.66    82.66     0.00  PERIOD  DPM_UM    00043824
597563.40000 4121723.83000       0.00177    82.23    82.23     0.00  PERIOD  DPM_UM    00043824
597383.79000 4121267.40000       0.00103    87.98    87.98     0.00  PERIOD  DPM_UM    00043824
597606.75000 4121162.85000       0.00225    79.23    79.23     0.00  PERIOD  DPM_UM    00043824
597569.46000 4121688.93000       0.00228    82.86    82.86     0.00  PERIOD  DPM_UM    00043824
597548.59000 4121714.92000       0.00210    82.27    82.27     0.00  PERIOD  DPM_UM    00043824
597593.88000 4121193.88000       0.00288    79.91    79.91     0.00  PERIOD  DPM_UM    00043824
597672.89000 4121586.41000       0.00347    81.74    81.74     0.00  PERIOD  DPM_UM    00043824
597641.88000 4121633.07000       0.00246    82.34    82.34     0.00  PERIOD  DPM_UM    00043824
597552.09000 4121677.98000       0.00289    83.02    83.02     0.00  PERIOD  DPM_UM    00043824
597533.11000 4121706.65000       0.00254    82.18    82.18     0.00  PERIOD  DPM_UM    00043824
597286.43000 4121704.17000       0.00747    83.12    83.12     0.00  PERIOD  DPM_UM    00043824
597286.53000 4121683.38000       0.00992    83.07    83.07     0.00  PERIOD  DPM_UM    00043824
597299.17000 4121683.23000       0.01034    83.02    83.02     0.00  PERIOD  DPM_UM    00043824
597321.23000 4121712.51000       0.00695    83.18    83.18     0.00  PERIOD  DPM_UM    00043824
597317.86000 4121684.63000       0.01045    82.99    82.99     0.00  PERIOD  DPM_UM    00043824
597330.62000 4121691.43000       0.00946    82.95    82.95     0.00  PERIOD  DPM_UM    00043824
597344.40000 4121693.37000       0.00914    82.95    82.95     0.00  PERIOD  DPM_UM    00043824
597359.94000 4121696.38000       0.00859    82.99    82.99     0.00  PERIOD  DPM_UM    00043824
597354.33000 4121714.88000       0.00657    82.96    82.96     0.00  PERIOD  DPM_UM    00043824
597354.00000 4121720.68000       0.00608    82.92    82.92     0.00  PERIOD  DPM_UM    00043824
597366.48000 4121721.45000       0.00591    82.83    82.83     0.00  PERIOD  DPM_UM    00043824
597384.98000 4121721.87000       0.00565    82.72    82.72     0.00  PERIOD  DPM_UM    00043824
597399.74000 4121707.07000       0.00660    82.50    82.50     0.00  PERIOD  DPM_UM    00043824
597408.21000 4121333.29000       0.00258    87.73    87.73     0.00  PERIOD  DPM_UM    00043824
597582.19000 4121158.09000       0.00182    79.32    79.32     0.00  PERIOD  DPM_UM    00043824
597643.65000 4121615.76000       0.00299    82.41    82.41     0.00  PERIOD  DPM_UM    00043824
597529.40000 4121670.18000       0.00383    83.17    83.17     0.00  PERIOD  DPM_UM    00043824
597522.43000 4121689.99000       0.00325    82.47    82.47     0.00  PERIOD  DPM_UM    00043824
597570.90000 4121186.46000       0.00226    80.26    80.26     0.00  PERIOD  DPM_UM    00043824
597654.66000 4121595.10000       0.00359    82.33    82.33     0.00  PERIOD  DPM_UM    00043824
597398.68000 4121322.89000       0.00202    87.89    87.89     0.00  PERIOD  DPM_UM    00043824
597500.69000 4121695.31000       0.00371    82.28    82.28     0.00  PERIOD  DPM_UM    00043824
597398.21000 4121291.11000       0.00143    87.96    87.96     0.00  PERIOD  DPM_UM    00043824
597389.74000 4121326.58000       0.00191    87.97    87.97     0.00  PERIOD  DPM_UM    00043824
597561.65000 4121148.18000       0.00144    79.33    79.33     0.00  PERIOD  DPM_UM    00043824
597389.45000 4121293.60000       0.00136    88.06    88.06     0.00  PERIOD  DPM_UM    00043824
597551.51000 4121174.67000       0.00173    80.46    80.46     0.00  PERIOD  DPM_UM    00043824
597380.13000 4121331.23000       0.00182    87.93    87.93     0.00  PERIOD  DPM_UM    00043824
597427.69000 4121632.86000       0.02515    83.12    83.12     0.00  PERIOD  DPM_UM    00043824
597416.78000 4121660.68000       0.01385    83.01    83.01     0.00  PERIOD  DPM_UM    00043824
597426.51000 4121655.17000       0.01459    83.15    83.15     0.00  PERIOD  DPM_UM    00043824
597429.13000 4121648.78000       0.01658    83.16    83.16     0.00  PERIOD  DPM_UM    00043824
597432.79000 4121641.90000       0.01897    83.17    83.17     0.00  PERIOD  DPM_UM    00043824
597421.30000 4121632.30000       0.02695    83.11    83.11     0.00  PERIOD  DPM_UM    00043824
597434.76000 4121633.17000       0.02317    83.16    83.16     0.00  PERIOD  DPM_UM    00043824
597414.22000 4121632.28000       0.02824    83.09    83.09     0.00  PERIOD  DPM_UM    00043824
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597406.53000 4121632.01000       0.02942    83.06    83.06     0.00  PERIOD  DPM_UM    00043824
597401.86000 4121645.27000       0.02181    83.03    83.03     0.00  PERIOD  DPM_UM    00043824
597398.78000 4121654.58000       0.01759    82.96    82.96     0.00  PERIOD  DPM_UM    00043824
597411.03000 4121658.32000       0.01516    83.03    83.03     0.00  PERIOD  DPM_UM    00043824
597380.72000 4121295.98000       0.00129    88.09    88.09     0.00  PERIOD  DPM_UM    00043824
597398.08000 4121397.86000       0.00720    86.48    86.48     0.00  PERIOD  DPM_UM    00043824
597370.88000 4121334.59000       0.00172    87.99    87.99     0.00  PERIOD  DPM_UM    00043824
597540.51000 4121137.88000       0.00114    79.44    79.44     0.00  PERIOD  DPM_UM    00043824
597383.34000 4121631.98000       0.03092    83.26    83.26     0.00  PERIOD  DPM_UM    00043824
597383.31000 4121637.31000       0.02757    83.19    83.19     0.00  PERIOD  DPM_UM    00043824
597389.40000 4121632.61000       0.03040    83.21    83.21     0.00  PERIOD  DPM_UM    00043824
597388.65000 4121637.17000       0.02752    83.16    83.16     0.00  PERIOD  DPM_UM    00043824
597363.76000 4121294.06000       0.00111    88.19    88.19     0.00  PERIOD  DPM_UM    00043824
597530.71000 4121167.25000       0.00139    80.53    80.53     0.00  PERIOD  DPM_UM    00043824
597384.36000 4121397.92000       0.00531    86.45    86.45     0.00  PERIOD  DPM_UM    00043824
597400.44000 4121366.00000       0.00385    87.05    87.05     0.00  PERIOD  DPM_UM    00043824
597362.36000 4121322.90000       0.00141    88.05    88.05     0.00  PERIOD  DPM_UM    00043824
597360.20000 4121632.21000       0.02995    83.32    83.32     0.00  PERIOD  DPM_UM    00043824
597366.70000 4121638.29000       0.02681    83.22    83.22     0.00  PERIOD  DPM_UM    00043824
597359.87000 4121638.85000       0.02630    83.27    83.27     0.00  PERIOD  DPM_UM    00043824
597366.56000 4121632.25000       0.03027    83.29    83.29     0.00  PERIOD  DPM_UM    00043824
597399.35000 4121345.34000       0.00272    87.56    87.56     0.00  PERIOD  DPM_UM    00043824
597355.17000 4121290.88000       0.00101    88.28    88.28     0.00  PERIOD  DPM_UM    00043824
597372.23000 4121397.32000       0.00421    86.55    86.55     0.00  PERIOD  DPM_UM    00043824
597396.08000 4121382.26000       0.00482    86.85    86.85     0.00  PERIOD  DPM_UM    00043824
597347.27000 4121329.65000       0.00132    88.08    88.08     0.00  PERIOD  DPM_UM    00043824
597522.10000 4121125.22000       0.00092    79.67    79.67     0.00  PERIOD  DPM_UM    00043824
597346.14000 4121638.66000       0.02570    83.30    83.30     0.00  PERIOD  DPM_UM    00043824
597380.87000 4121351.40000       0.00236    87.24    87.24     0.00  PERIOD  DPM_UM    00043824
597346.12000 4121286.88000       0.00092    88.24    88.24     0.00  PERIOD  DPM_UM    00043824
597509.61000 4121156.40000       0.00108    80.74    80.74     0.00  PERIOD  DPM_UM    00043824
597360.31000 4121397.29000       0.00348    86.59    86.59     0.00  PERIOD  DPM_UM    00043824
597368.19000 4121385.45000       0.00323    86.92    86.92     0.00  PERIOD  DPM_UM    00043824
597348.22000 4121318.53000       0.00120    88.13    88.13     0.00  PERIOD  DPM_UM    00043824
597310.62000 4121634.10000       0.02458    83.47    83.47     0.00  PERIOD  DPM_UM    00043824
597364.05000 4121344.08000       0.00179    87.60    87.60     0.00  PERIOD  DPM_UM    00043824
597328.32000 4121291.97000       0.00085    88.25    88.25     0.00  PERIOD  DPM_UM    00043824
597345.01000 4121396.38000       0.00276    86.85    86.85     0.00  PERIOD  DPM_UM    00043824
597346.41000 4121380.28000       0.00227    87.00    87.00     0.00  PERIOD  DPM_UM    00043824
597323.73000 4121329.35000       0.00109    88.10    88.10     0.00  PERIOD  DPM_UM    00043824
597296.46000 4121633.94000       0.02276    83.48    83.48     0.00  PERIOD  DPM_UM    00043824
597347.29000 4121347.23000       0.00157    87.50    87.50     0.00  PERIOD  DPM_UM    00043824
597319.58000 4121288.47000       0.00078    88.22    88.22     0.00  PERIOD  DPM_UM    00043824
597490.83000 4121144.96000       0.00087    81.01    81.01     0.00  PERIOD  DPM_UM    00043824
597333.92000 4121396.09000       0.00238    86.99    86.99     0.00  PERIOD  DPM_UM    00043824
597331.17000 4121375.29000       0.00181    86.97    86.97     0.00  PERIOD  DPM_UM    00043824
597322.03000 4121319.15000       0.00099    88.12    88.12     0.00  PERIOD  DPM_UM    00043824
597329.20000 4121350.68000       0.00138    87.38    87.38     0.00  PERIOD  DPM_UM    00043824
597311.17000 4121284.64000       0.00073    88.24    88.24     0.00  PERIOD  DPM_UM    00043824
597318.38000 4121396.24000       0.00201    86.91    86.91     0.00  PERIOD  DPM_UM    00043824
597312.93000 4121384.31000       0.00166    87.23    87.23     0.00  PERIOD  DPM_UM    00043824
597305.06000 4121330.16000       0.00096    87.92    87.92     0.00  PERIOD  DPM_UM    00043824
597312.70000 4121343.70000       0.00113    87.67    87.67     0.00  PERIOD  DPM_UM    00043824
597301.94000 4121281.45000       0.00068    88.45    88.45     0.00  PERIOD  DPM_UM    00043824
597476.60000 4121128.31000       0.00071    81.08    81.08     0.00  PERIOD  DPM_UM    00043824
597307.71000 4121396.38000       0.00180    86.93    86.93     0.00  PERIOD  DPM_UM    00043824
597295.42000 4121378.28000       0.00134    87.16    87.16     0.00  PERIOD  DPM_UM    00043824
597306.31000 4121320.04000       0.00089    88.08    88.08     0.00  PERIOD  DPM_UM    00043824
597295.89000 4121348.49000       0.00104    87.53    87.53     0.00  PERIOD  DPM_UM    00043824
597232.16000 4121486.68000       0.00228    86.06    86.06     0.00  PERIOD  DPM_UM    00043824
597535.15000 4121491.78000       0.08555    84.25    84.25     0.00  PERIOD  DPM_UM    00043824
597234.27000 4121502.92000       0.00280    85.81    85.81     0.00  PERIOD  DPM_UM    00043824
597235.30000 4121426.24000       0.00124    86.62    86.62     0.00  PERIOD  DPM_UM    00043824
597235.51000 4121395.16000       0.00095    87.06    87.06     0.00  PERIOD  DPM_UM    00043824
597219.55000 4121695.31000       0.00604    83.34    83.34     0.00  PERIOD  DPM_UM    00043824
597231.70000 4121554.43000       0.00443    85.02    85.02     0.00  PERIOD  DPM_UM    00043824
597237.31000 4121357.54000       0.00072    87.57    87.57     0.00  PERIOD  DPM_UM    00043824
597205.20000 4121610.57000       0.00516    84.56    84.56     0.00  PERIOD  DPM_UM    00043824
597220.62000 4121614.77000       0.00673    84.37    84.37     0.00  PERIOD  DPM_UM    00043824
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597205.55000 4121621.83000       0.00569    84.50    84.50     0.00  PERIOD  DPM_UM    00043824
597214.44000 4121480.32000       0.00176    86.13    86.13     0.00  PERIOD  DPM_UM    00043824
597213.56000 4121510.58000       0.00240    85.67    85.67     0.00  PERIOD  DPM_UM    00043824
597214.87000 4121438.05000       0.00116    86.24    86.24     0.00  PERIOD  DPM_UM    00043824
597218.09000 4121400.49000       0.00086    87.08    87.08     0.00  PERIOD  DPM_UM    00043824
597548.54000 4121464.55000       0.08801    84.24    84.24     0.00  PERIOD  DPM_UM    00043824
597217.20000 4121351.46000       0.00061    87.49    87.49     0.00  PERIOD  DPM_UM    00043824
597199.22000 4121686.54000       0.00554    83.54    83.54     0.00  PERIOD  DPM_UM    00043824
597209.07000 4121544.15000       0.00314    84.94    84.94     0.00  PERIOD  DPM_UM    00043824
597196.70000 4121474.94000       0.00140    86.13    86.13     0.00  PERIOD  DPM_UM    00043824
597185.52000 4121614.60000       0.00418    84.45    84.45     0.00  PERIOD  DPM_UM    00043824
597214.18000 4121584.85000       0.00464    84.50    84.50     0.00  PERIOD  DPM_UM    00043824
597214.01000 4121579.16000       0.00441    84.64    84.64     0.00  PERIOD  DPM_UM    00043824
597188.98000 4121603.51000       0.00401    84.47    84.47     0.00  PERIOD  DPM_UM    00043824
597188.74000 4121593.44000       0.00370    84.51    84.51     0.00  PERIOD  DPM_UM    00043824
597190.61000 4121575.81000       0.00330    84.82    84.82     0.00  PERIOD  DPM_UM    00043824
597201.64000 4121578.66000       0.00381    84.67    84.67     0.00  PERIOD  DPM_UM    00043824
597194.52000 4121501.58000       0.00180    85.87    85.87     0.00  PERIOD  DPM_UM    00043824
597198.60000 4121414.53000       0.00084    86.67    86.67     0.00  PERIOD  DPM_UM    00043824
597196.97000 4121404.24000       0.00076    87.05    87.05     0.00  PERIOD  DPM_UM    00043824
597197.99000 4121344.81000       0.00052    87.60    87.60     0.00  PERIOD  DPM_UM    00043824
597190.78000 4121550.04000       0.00271    85.01    85.01     0.00  PERIOD  DPM_UM    00043824
597177.24000 4121469.54000       0.00113    86.07    86.07     0.00  PERIOD  DPM_UM    00043824
597176.56000 4121495.22000       0.00143    85.89    85.89     0.00  PERIOD  DPM_UM    00043824
597180.51000 4121419.42000       0.00076    86.52    86.52     0.00  PERIOD  DPM_UM    00043824
597180.89000 4121395.27000       0.00064    87.19    87.19     0.00  PERIOD  DPM_UM    00043824
597181.22000 4121679.01000       0.00489    83.57    83.57     0.00  PERIOD  DPM_UM    00043824
597178.33000 4121337.59000       0.00044    87.74    87.74     0.00  PERIOD  DPM_UM    00043824
597161.56000 4121426.16000       0.00071    86.31    86.31     0.00  PERIOD  DPM_UM    00043824
597162.04000 4121671.44000       0.00414    83.57    83.57     0.00  PERIOD  DPM_UM    00043824
597171.98000 4121556.90000       0.00237    85.17    85.17     0.00  PERIOD  DPM_UM    00043824
597160.23000 4121464.42000       0.00094    85.93    85.93     0.00  PERIOD  DPM_UM    00043824
597158.09000 4121507.97000       0.00137    85.58    85.58     0.00  PERIOD  DPM_UM    00043824
597160.91000 4121385.35000       0.00054    86.99    86.99     0.00  PERIOD  DPM_UM    00043824
597160.62000 4121355.63000       0.00045    87.37    87.37     0.00  PERIOD  DPM_UM    00043824
597150.75000 4121544.56000       0.00177    84.87    84.87     0.00  PERIOD  DPM_UM    00043824
597140.82000 4121484.74000       0.00096    86.10    86.10     0.00  PERIOD  DPM_UM    00043824
597139.63000 4121502.08000       0.00112    85.58    85.58     0.00  PERIOD  DPM_UM    00043824
597144.02000 4121430.79000       0.00065    86.22    86.22     0.00  PERIOD  DPM_UM    00043824
597219.40000 4121265.07000       0.00037    88.79    88.79     0.00  PERIOD  DPM_UM    00043824
597144.47000 4121403.43000       0.00054    87.11    87.11     0.00  PERIOD  DPM_UM    00043824
597142.19000 4121689.14000       0.00351    83.63    83.63     0.00  PERIOD  DPM_UM    00043824
597141.97000 4121348.12000       0.00039    87.48    87.48     0.00  PERIOD  DPM_UM    00043824
597123.82000 4121479.13000       0.00081    86.10    86.10     0.00  PERIOD  DPM_UM    00043824
597117.76000 4121495.13000       0.00089    85.82    85.82     0.00  PERIOD  DPM_UM    00043824
597125.62000 4121436.21000       0.00060    86.08    86.08     0.00  PERIOD  DPM_UM    00043824
597127.28000 4121394.11000       0.00046    87.19    87.19     0.00  PERIOD  DPM_UM    00043824
597120.25000 4121675.04000       0.00291    83.66    83.66     0.00  PERIOD  DPM_UM    00043824
597122.27000 4121342.93000       0.00035    87.57    87.57     0.00  PERIOD  DPM_UM    00043824
597106.09000 4121473.27000       0.00069    86.00    86.00     0.00  PERIOD  DPM_UM    00043824
597107.40000 4121415.33000       0.00047    86.52    86.52     0.00  PERIOD  DPM_UM    00043824
597106.51000 4121383.16000       0.00039    86.92    86.92     0.00  PERIOD  DPM_UM    00043824
597101.23000 4121683.35000       0.00255    83.77    83.77     0.00  PERIOD  DPM_UM    00043824
597088.35000 4121467.91000       0.00060    85.93    85.93     0.00  PERIOD  DPM_UM    00043824
597103.81000 4121336.55000       0.00031    87.82    87.82     0.00  PERIOD  DPM_UM    00043824
597088.77000 4121420.74000       0.00044    86.32    86.32     0.00  PERIOD  DPM_UM    00043824
597089.75000 4121403.58000       0.00040    87.04    87.04     0.00  PERIOD  DPM_UM    00043824
597079.36000 4121688.65000       0.00220    83.67    83.67     0.00  PERIOD  DPM_UM    00043824
597070.38000 4121461.79000       0.00052    85.72    85.72     0.00  PERIOD  DPM_UM    00043824
597069.87000 4121425.06000       0.00041    86.13    86.13     0.00  PERIOD  DPM_UM    00043824
597073.28000 4121387.58000       0.00034    86.80    86.80     0.00  PERIOD  DPM_UM    00043824
597036.12000 4121680.44000       0.00161    83.87    83.87     0.00  PERIOD  DPM_UM    00043824
597048.15000 4121477.86000       0.00051    85.85    85.85     0.00  PERIOD  DPM_UM    00043824
597050.44000 4121429.92000       0.00039    86.03    86.03     0.00  PERIOD  DPM_UM    00043824
597049.47000 4121395.83000       0.00032    86.74    86.74     0.00  PERIOD  DPM_UM    00043824
597039.56000 4121624.35000       0.00127    84.45    84.45     0.00  PERIOD  DPM_UM    00043824
597017.02000 4121669.94000       0.00137    83.88    83.88     0.00  PERIOD  DPM_UM    00043824
597018.97000 4121631.84000       0.00116    84.38    84.38     0.00  PERIOD  DPM_UM    00043824
597036.43000 4121602.62000       0.00109    84.75    84.75     0.00  PERIOD  DPM_UM    00043824
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  596997.51000 4121674.71000       0.00124    83.87    83.87     0.00  PERIOD  DPM_UM    00043824
  597017.49000 4121594.69000       0.00092    84.71    84.71     0.00  PERIOD  DPM_UM    00043824
  597001.29000 4121623.33000       0.00099    84.48    84.48     0.00  PERIOD  DPM_UM    00043824
  597016.59000 4121553.08000       0.00070    84.97    84.97     0.00  PERIOD  DPM_UM    00043824
  597001.02000 4121586.83000       0.00079    84.57    84.57     0.00  PERIOD  DPM_UM    00043824
  596993.98000 4121543.82000       0.00058    85.07    85.07     0.00  PERIOD  DPM_UM    00043824
  596979.16000 4121680.10000       0.00113    83.83    83.83     0.00  PERIOD  DPM_UM    00043824
  596980.90000 4121599.91000       0.00076    84.71    84.71     0.00  PERIOD  DPM_UM    00043824
  596981.71000 4121616.01000       0.00084    84.50    84.50     0.00  PERIOD  DPM_UM    00043824
  597439.36000 4121652.16000       0.01380    83.22    83.22     0.00  PERIOD  DPM_UM    00043824
  597444.23000 4121655.19000       0.01222    83.19    83.19     0.00  PERIOD  DPM_UM    00043824
  597340.42000 4121489.96000       0.01302    84.88    84.88     0.00  PERIOD  DPM_UM    00043824
  597340.76000 4121475.31000       0.01088    84.85    84.85     0.00  PERIOD  DPM_UM    00043824
** CONCUNIT ug/m^3
** DEPUNIT g/m^2
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* MODELING OPTIONS USED: RegDFAULT CONC ELEV URBAN ADJ_U*
* PLOT FILE OF PERIOD VALUES AVERAGED ACROSS 0 YEARS FOR SOURCE GROUP: PM25_UM
* FOR A TOTAL OF 556 RECEPTORS.
* FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

* X	Y	AVERAGE CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM HRS	NET ID
597214.99000	4121910.94000	0.00317	81.01	81.01	0.00	PERIOD	PM25_UM	00043824	
597174.30000	4121895.16000	0.00312	80.92	80.92	0.00	PERIOD	PM25_UM	00043824	
597174.78000	4121876.95000	0.00346	81.18	81.18	0.00	PERIOD	PM25_UM	00043824	
597117.48000	4121867.20000	0.00335	81.30	81.30	0.00	PERIOD	PM25_UM	00043824	
597215.50000	4121891.56000	0.00357	81.16	81.16	0.00	PERIOD	PM25_UM	00043824	
597285.36000	4121831.24000	0.00639	81.12	81.12	0.00	PERIOD	PM25_UM	00043824	
597355.16000	4121795.13000	0.00680	81.11	81.11	0.00	PERIOD	PM25_UM	00043824	
597351.76000	4121802.21000	0.00646	81.09	81.09	0.00	PERIOD	PM25_UM	00043824	
597348.22000	4121808.41000	0.00620	81.09	81.09	0.00	PERIOD	PM25_UM	00043824	
597289.67000	4121846.22000	0.00573	81.04	81.04	0.00	PERIOD	PM25_UM	00043824	
597333.00000	4121841.31000	0.00502	80.56	80.56	0.00	PERIOD	PM25_UM	00043824	
597326.27000	4121857.44000	0.00456	80.45	80.45	0.00	PERIOD	PM25_UM	00043824	
597316.91000	4121875.17000	0.00413	80.38	80.38	0.00	PERIOD	PM25_UM	00043824	
597283.12000	4121851.54000	0.00523	81.01	81.01	0.00	PERIOD	PM25_UM	00043824	
597283.26000	4121865.07000	0.00453	80.95	80.95	0.00	PERIOD	PM25_UM	00043824	
597283.73000	4121878.38000	0.00431	80.69	80.69	0.00	PERIOD	PM25_UM	00043824	
597284.24000	4121891.33000	0.00437	80.54	80.54	0.00	PERIOD	PM25_UM	00043824	
597298.51000	4121831.57000	0.00600	81.10	81.10	0.00	PERIOD	PM25_UM	00043824	
597306.39000	4121873.93000	0.00436	80.46	80.46	0.00	PERIOD	PM25_UM	00043824	
597312.31000	4121860.52000	0.00469	80.59	80.59	0.00	PERIOD	PM25_UM	00043824	
597319.49000	4121847.16000	0.00501	80.65	80.65	0.00	PERIOD	PM25_UM	00043824	
597312.07000	4121831.26000	0.00572	81.09	81.09	0.00	PERIOD	PM25_UM	00043824	
597299.58000	4121821.27000	0.00638	81.08	81.08	0.00	PERIOD	PM25_UM	00043824	
597289.97000	4121821.50000	0.00662	81.08	81.08	0.00	PERIOD	PM25_UM	00043824	
597359.22000	4121786.73000	0.00724	81.16	81.16	0.00	PERIOD	PM25_UM	00043824	
597174.28000	4121851.66000	0.00402	81.43	81.43	0.00	PERIOD	PM25_UM	00043824	
597118.70000	4121843.71000	0.00381	81.54	81.54	0.00	PERIOD	PM25_UM	00043824	
597217.21000	4121871.61000	0.00404	81.46	81.46	0.00	PERIOD	PM25_UM	00043824	
597176.06000	4121828.78000	0.00465	81.66	81.66	0.00	PERIOD	PM25_UM	00043824	
597119.93000	4121819.64000	0.00435	81.81	81.81	0.00	PERIOD	PM25_UM	00043824	
597281.31000	4121763.58000	0.00975	81.91	81.91	0.00	PERIOD	PM25_UM	00043824	
597281.25000	4121769.45000	0.00943	81.86	81.86	0.00	PERIOD	PM25_UM	00043824	
597281.43000	4121776.73000	0.00847	81.82	81.82	0.00	PERIOD	PM25_UM	00043824	
597281.62000	4121780.91000	0.00820	81.80	81.80	0.00	PERIOD	PM25_UM	00043824	
597281.92000	4121788.59000	0.00784	81.76	81.76	0.00	PERIOD	PM25_UM	00043824	
597281.79000	4121794.57000	0.00765	81.70	81.70	0.00	PERIOD	PM25_UM	00043824	
597215.34000	4121853.34000	0.00446	81.62	81.62	0.00	PERIOD	PM25_UM	00043824	
597297.44000	4121804.57000	0.00721	81.44	81.44	0.00	PERIOD	PM25_UM	00043824	
597304.54000	4121804.89000	0.00703	81.39	81.39	0.00	PERIOD	PM25_UM	00043824	
597313.26000	4121804.69000	0.00687	81.39	81.39	0.00	PERIOD	PM25_UM	00043824	
597329.33000	4121797.60000	0.00700	81.34	81.34	0.00	PERIOD	PM25_UM	00043824	
597334.14000	4121787.94000	0.00749	81.35	81.35	0.00	PERIOD	PM25_UM	00043824	
597119.87000	4121799.65000	0.00483	82.12	82.12	0.00	PERIOD	PM25_UM	00043824	
597176.61000	4121808.22000	0.00531	81.94	81.94	0.00	PERIOD	PM25_UM	00043824	
597365.97000	4121764.41000	0.00878	81.77	81.77	0.00	PERIOD	PM25_UM	00043824	
597355.12000	4121764.29000	0.00895	81.76	81.76	0.00	PERIOD	PM25_UM	00043824	
597332.49000	4121766.83000	0.00906	81.85	81.85	0.00	PERIOD	PM25_UM	00043824	
597325.65000	4121766.75000	0.00917	81.89	81.89	0.00	PERIOD	PM25_UM	00043824	
597081.14000	4121842.71000	0.00355	81.77	81.77	0.00	PERIOD	PM25_UM	00043824	
597318.63000	4121766.61000	0.00929	81.89	81.89	0.00	PERIOD	PM25_UM	00043824	
597312.80000	4121766.60000	0.00939	81.87	81.87	0.00	PERIOD	PM25_UM	00043824	
597305.30000	4121766.69000	0.00952	81.83	81.83	0.00	PERIOD	PM25_UM	00043824	
597299.18000	4121766.65000	0.00965	81.83	81.83	0.00	PERIOD	PM25_UM	00043824	
597394.20000	4121903.56000	0.00288	80.29	80.29	0.00	PERIOD	PM25_UM	00043824	
597215.30000	4121832.76000	0.00506	81.70	81.70	0.00	PERIOD	PM25_UM	00043824	
597446.30000	4121912.80000	0.00236	80.18	80.18	0.00	PERIOD	PM25_UM	00043824	
597177.12000	4121788.83000	0.00604	82.18	82.18	0.00	PERIOD	PM25_UM	00043824	
597120.97000	4121780.28000	0.00534	82.27	82.27	0.00	PERIOD	PM25_UM	00043824	
597401.13000	4121889.33000	0.00310	80.43	80.43	0.00	PERIOD	PM25_UM	00043824	
597294.38000	4121741.29000	0.01238	82.31	82.31	0.00	PERIOD	PM25_UM	00043824	

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597300.07000 4121746.76000       0.01162    82.25    82.25     0.00  PERIOD  PM25_UM   00043824
597308.18000 4121746.47000       0.01150    82.29    82.29     0.00  PERIOD  PM25_UM   00043824
597314.20000 4121745.02000       0.01157    82.34    82.34     0.00  PERIOD  PM25_UM   00043824
597317.75000 4121737.73000       0.01246    82.55    82.55     0.00  PERIOD  PM25_UM   00043824
597083.51000 4121819.85000       0.00396    82.04    82.04     0.00  PERIOD  PM25_UM   00043824
597174.70000 4121769.37000       0.00682    82.31    82.31     0.00  PERIOD  PM25_UM   00043824
597361.29000 4121748.78000       0.01038    82.41    82.41     0.00  PERIOD  PM25_UM   00043824
597355.06000 4121739.94000       0.01155    82.54    82.54     0.00  PERIOD  PM25_UM   00043824
597362.76000 4121739.85000       0.01142    82.54    82.54     0.00  PERIOD  PM25_UM   00043824
597369.95000 4121740.38000       0.01121    82.51    82.51     0.00  PERIOD  PM25_UM   00043824
597365.47000 4121754.88000       0.00967    82.30    82.30     0.00  PERIOD  PM25_UM   00043824
597359.34000 4121754.98000       0.00976    82.28    82.28     0.00  PERIOD  PM25_UM   00043824
597454.64000 4121894.68000       0.00254    80.38    80.38     0.00  PERIOD  PM25_UM   00043824
597214.65000 4121813.35000       0.00573    81.92    81.92     0.00  PERIOD  PM25_UM   00043824
597120.30000 4121761.46000       0.00580    82.38    82.38     0.00  PERIOD  PM25_UM   00043824
597413.31000 4121873.94000       0.00332    80.57    80.57     0.00  PERIOD  PM25_UM   00043824
597481.79000 4121907.20000       0.00212    80.04    80.04     0.00  PERIOD  PM25_UM   00043824
597175.22000 4121749.98000       0.00774    82.49    82.49     0.00  PERIOD  PM25_UM   00043824
597463.00000 4121875.26000       0.00276    80.57    80.57     0.00  PERIOD  PM25_UM   00043824
597420.34000 4121855.79000       0.00367    80.74    80.74     0.00  PERIOD  PM25_UM   00043824
597215.76000 4121793.39000       0.00661    82.26    82.26     0.00  PERIOD  PM25_UM   00043824
597492.66000 4121891.77000       0.00220    80.14    80.14     0.00  PERIOD  PM25_UM   00043824
597530.03000 4121913.72000       0.00165    79.87    79.87     0.00  PERIOD  PM25_UM   00043824
597083.47000 4121799.27000       0.00433    82.29    82.29     0.00  PERIOD  PM25_UM   00043824
597170.86000 4121715.18000       0.00919    82.73    82.73     0.00  PERIOD  PM25_UM   00043824
597475.19000 4121859.86000       0.00288    80.79    80.79     0.00  PERIOD  PM25_UM   00043824
597427.29000 4121840.25000       0.00400    80.95    80.95     0.00  PERIOD  PM25_UM   00043824
597500.96000 4121874.96000       0.00233    80.33    80.33     0.00  PERIOD  PM25_UM   00043824
597538.30000 4121898.22000       0.00172    79.98    79.98     0.00  PERIOD  PM25_UM   00043824
597142.33000 4121705.60000       0.00787    83.26    83.26     0.00  PERIOD  PM25_UM   00043824
597215.10000 4121773.97000       0.00760    82.50    82.50     0.00  PERIOD  PM25_UM   00043824
597082.81000 4121779.86000       0.00464    82.43    82.43     0.00  PERIOD  PM25_UM   00043824
597439.52000 4121823.55000       0.00431    81.01    81.01     0.00  PERIOD  PM25_UM   00043824
597027.94000 4121767.23000       0.00379    82.50    82.50     0.00  PERIOD  PM25_UM   00043824
597507.95000 4121858.12000       0.00250    80.43    80.43     0.00  PERIOD  PM25_UM   00043824
597546.52000 4121884.03000       0.00179    80.12    80.12     0.00  PERIOD  PM25_UM   00043824
597484.80000 4121843.09000       0.00307    80.97    80.97     0.00  PERIOD  PM25_UM   00043824
597119.88000 4121710.89000       0.00671    82.92    82.92     0.00  PERIOD  PM25_UM   00043824
597216.81000 4121754.03000       0.00891    82.66    82.66     0.00  PERIOD  PM25_UM   00043824
597449.09000 4121808.08000       0.00465    81.26    81.26     0.00  PERIOD  PM25_UM   00043824
597520.18000 4121841.41000       0.00262    80.58    80.58     0.00  PERIOD  PM25_UM   00043824
597558.85000 4121863.40000       0.00192    80.41    80.41     0.00  PERIOD  PM25_UM   00043824
597494.40000 4121826.32000       0.00328    81.17    81.17     0.00  PERIOD  PM25_UM   00043824
597080.96000 4121761.00000       0.00488    82.55    82.55     0.00  PERIOD  PM25_UM   00043824
597099.79000 4121715.64000       0.00586    82.84    82.84     0.00  PERIOD  PM25_UM   00043824
597030.91000 4121743.79000       0.00391    82.84    82.84     0.00  PERIOD  PM25_UM   00043824
597454.74000 4121792.52000       0.00512    81.43    81.43     0.00  PERIOD  PM25_UM   00043824
597525.82000 4121825.84000       0.00284    80.79    80.79     0.00  PERIOD  PM25_UM   00043824
597565.73000 4121850.48000       0.00204    80.62    80.62     0.00  PERIOD  PM25_UM   00043824
597498.74000 4121810.71000       0.00359    81.28    81.28     0.00  PERIOD  PM25_UM   00043824
597216.15000 4121734.61000       0.01035    82.91    82.91     0.00  PERIOD  PM25_UM   00043824
597080.23000 4121722.18000       0.00518    82.87    82.87     0.00  PERIOD  PM25_UM   00043824
597465.68000 4121774.47000       0.00566    81.67    81.67     0.00  PERIOD  PM25_UM   00043824
597029.08000 4121724.35000       0.00385    83.21    83.21     0.00  PERIOD  PM25_UM   00043824
597507.01000 4121795.22000       0.00389    81.54    81.54     0.00  PERIOD  PM25_UM   00043824
597532.92000 4121805.08000       0.00323    81.23    81.23     0.00  PERIOD  PM25_UM   00043824
597575.38000 4121832.40000       0.00227    80.86    80.86     0.00  PERIOD  PM25_UM   00043824
597213.72000 4121715.73000       0.01182    83.11    83.11     0.00  PERIOD  PM25_UM   00043824
597472.61000 4121760.24000       0.00624    81.82    81.82     0.00  PERIOD  PM25_UM   00043824
597516.58000 4121779.75000       0.00429    81.71    81.71     0.00  PERIOD  PM25_UM   00043824
597545.00000 4121793.60000       0.00346    81.37    81.37     0.00  PERIOD  PM25_UM   00043824
597584.98000 4121815.63000       0.00261    81.11    81.11     0.00  PERIOD  PM25_UM   00043824
597027.20000 4121706.66000       0.00371    83.59    83.59     0.00  PERIOD  PM25_UM   00043824
597527.49000 4121763.01000       0.00500    81.78    81.78     0.00  PERIOD  PM25_UM   00043824
597483.59000 4121740.89000       0.00730    82.04    82.04     0.00  PERIOD  PM25_UM   00043824
597554.61000 4121776.83000       0.00416    81.40    81.40     0.00  PERIOD  PM25_UM   00043824
597591.94000 4121800.09000       0.00319    81.19    81.19     0.00  PERIOD  PM25_UM   00043824
597113.24000 4121628.42000       0.00521    84.24    84.24     0.00  PERIOD  PM25_UM   00043824
597162.18000 4121630.71000       0.00831    84.09    84.09     0.00  PERIOD  PM25_UM   00043824
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597083.86000 4121627.64000       0.00409    84.45    84.45     0.00  PERIOD  PM25_UM   00043824
597442.91000 4121665.82000       0.02419    83.07    83.07     0.00  PERIOD  PM25_UM   00043824
597161.68000 4121612.54000       0.00738    84.37    84.37     0.00  PERIOD  PM25_UM   00043824
597083.41000 4121607.52000       0.00363    84.60    84.60     0.00  PERIOD  PM25_UM   00043824
597113.26000 4121609.29000       0.00466    84.41    84.41     0.00  PERIOD  PM25_UM   00043824
597436.40000 4121662.77000       0.02712    83.17    83.17     0.00  PERIOD  PM25_UM   00043824
597457.09000 4121633.33000       0.03959    83.49    83.49     0.00  PERIOD  PM25_UM   00043824
597163.18000 4121592.96000       0.00658    84.60    84.60     0.00  PERIOD  PM25_UM   00043824
597082.48000 4121587.38000       0.00319    84.77    84.77     0.00  PERIOD  PM25_UM   00043824
597114.73000 4121590.69000       0.00421    84.52    84.52     0.00  PERIOD  PM25_UM   00043824
597459.44000 4121627.00000       0.04517    83.54    83.54     0.00  PERIOD  PM25_UM   00043824
597463.40000 4121619.55000       0.05372    83.56    83.56     0.00  PERIOD  PM25_UM   00043824
597160.16000 4121577.67000       0.00575    84.85    84.85     0.00  PERIOD  PM25_UM   00043824
597077.08000 4121569.09000       0.00272    84.92    84.92     0.00  PERIOD  PM25_UM   00043824
597110.79000 4121572.93000       0.00362    84.79    84.79     0.00  PERIOD  PM25_UM   00043824
597469.01000 4121612.94000       0.06311    83.58    83.58     0.00  PERIOD  PM25_UM   00043824
597471.96000 4121605.78000       0.07902    83.59    83.59     0.00  PERIOD  PM25_UM   00043824
597531.52000 4121651.57000       0.01152    83.25    83.25     0.00  PERIOD  PM25_UM   00043824
597105.45000 4121552.68000       0.00301    84.89    84.89     0.00  PERIOD  PM25_UM   00043824
597069.73000 4121550.75000       0.00227    85.17    85.17     0.00  PERIOD  PM25_UM   00043824
597476.36000 4121598.36000       0.09430    83.58    83.58     0.00  PERIOD  PM25_UM   00043824
597539.15000 4121635.40000       0.01333    83.25    83.25     0.00  PERIOD  PM25_UM   00043824
597591.78000 4121649.24000       0.00712    82.91    82.91     0.00  PERIOD  PM25_UM   00043824
597478.70000 4121590.25000       0.11532    83.68    83.68     0.00  PERIOD  PM25_UM   00043824
597550.65000 4121621.29000       0.01482    83.14    83.14     0.00  PERIOD  PM25_UM   00043824
597595.49000 4121632.97000       0.00826    82.93    82.93     0.00  PERIOD  PM25_UM   00043824
597092.79000 4121531.25000       0.00234    85.20    85.20     0.00  PERIOD  PM25_UM   00043824
597062.39000 4121531.91000       0.00190    85.26    85.26     0.00  PERIOD  PM25_UM   00043824
597485.83000 4121580.27000       0.12922    83.83    83.83     0.00  PERIOD  PM25_UM   00043824
597559.60000 4121604.50000       0.01823    83.12    83.12     0.00  PERIOD  PM25_UM   00043824
597489.63000 4121573.73000       0.13819    83.87    83.87     0.00  PERIOD  PM25_UM   00043824
597603.82000 4121614.85000       0.00974    82.63    82.63     0.00  PERIOD  PM25_UM   00043824
597093.30000 4121512.13000       0.00203    85.62    85.62     0.00  PERIOD  PM25_UM   00043824
597565.92000 4121588.30000       0.02317    82.90    82.90     0.00  PERIOD  PM25_UM   00043824
597493.57000 4121566.36000       0.14766    83.90    83.90     0.00  PERIOD  PM25_UM   00043824
597005.78000 4121518.16000       0.00123    85.27    85.27     0.00  PERIOD  PM25_UM   00043824
597056.01000 4121514.08000       0.00161    85.48    85.48     0.00  PERIOD  PM25_UM   00043824
597609.43000 4121600.59000       0.01138    82.54    82.54     0.00  PERIOD  PM25_UM   00043824
597574.80000 4121574.12000       0.02703    82.75    82.75     0.00  PERIOD  PM25_UM   00043824
597507.34000 4121536.52000       0.17980    84.01    84.01     0.00  PERIOD  PM25_UM   00043824
597002.67000 4121495.82000       0.00106    85.55    85.55     0.00  PERIOD  PM25_UM   00043824
597622.27000 4121585.21000       0.01271    82.49    82.49     0.00  PERIOD  PM25_UM   00043824
597054.08000 4121494.41000       0.00139    85.73    85.73     0.00  PERIOD  PM25_UM   00043824
597759.44000 4121616.55000       0.00351    79.53    79.53     0.00  PERIOD  PM25_UM   00043824
597583.74000 4121557.99000       0.03200    82.77    82.77     0.00  PERIOD  PM25_UM   00043824
597524.51000 4121512.67000       0.18187    84.07    84.07     0.00  PERIOD  PM25_UM   00043824
597776.82000 4121602.60000       0.00357    78.89    78.89     0.00  PERIOD  PM25_UM   00043824
597592.64000 4121543.16000       0.03607    82.66    82.66     0.00  PERIOD  PM25_UM   00043824
597001.96000 4121476.01000       0.00094    85.74    85.74     0.00  PERIOD  PM25_UM   00043824
597628.61000 4121568.35000       0.01543    82.42    82.42     0.00  PERIOD  PM25_UM   00043824
597788.30000 4121589.15000       0.00374    78.44    78.44     0.00  PERIOD  PM25_UM   00043824
597337.24000 4121559.95000       0.07747    84.84    84.84     0.00  PERIOD  PM25_UM   00043824
597339.98000 4121525.89000       0.04426    84.84    84.84     0.00  PERIOD  PM25_UM   00043824
597349.04000 4121515.60000       0.04657    84.84    84.84     0.00  PERIOD  PM25_UM   00043824
597336.57000 4121515.86000       0.03674    84.84    84.84     0.00  PERIOD  PM25_UM   00043824
597636.88000 4121552.85000       0.01782    82.32    82.32     0.00  PERIOD  PM25_UM   00043824
597797.22000 4121573.67000       0.00406    78.14    79.85     0.00  PERIOD  PM25_UM   00043824
597597.00000 4121526.90000       0.04334    82.67    82.67     0.00  PERIOD  PM25_UM   00043824
597806.71000 4121561.48000       0.00427    77.85    79.72     0.00  PERIOD  PM25_UM   00043824
597650.99000 4121536.38000       0.01929    82.16    82.16     0.00  PERIOD  PM25_UM   00043824
597602.65000 4121511.33000       0.04942    82.73    82.73     0.00  PERIOD  PM25_UM   00043824
597818.20000 4121547.38000       0.00452    77.54    77.54     0.00  PERIOD  PM25_UM   00043824
597611.58000 4121495.20000       0.05310    82.73    82.73     0.00  PERIOD  PM25_UM   00043824
597827.03000 4121535.17000       0.00478    77.49    77.49     0.00  PERIOD  PM25_UM   00043824
597619.16000 4121480.99000       0.05599    82.74    82.74     0.00  PERIOD  PM25_UM   00043824
597664.90000 4121495.63000       0.02738    81.88    81.88     0.00  PERIOD  PM25_UM   00043824
597835.95000 4121519.69000       0.00520    77.58    77.58     0.00  PERIOD  PM25_UM   00043824
597677.83000 4121476.65000       0.02901    81.70    81.70     0.00  PERIOD  PM25_UM   00043824
597641.55000 4121447.35000       0.05710    82.63    82.63     0.00  PERIOD  PM25_UM   00043824
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597680.05000 4121503.90000       0.02122    81.63    81.63     0.00  PERIOD  PM25_UM   00043824
597672.14000 4121553.32000       0.01239    81.44    81.44     0.00  PERIOD  PM25_UM   00043824
597696.83000 4121512.53000       0.01626    81.39    81.39     0.00  PERIOD  PM25_UM   00043824
597685.62000 4121562.85000       0.00972    81.15    81.15     0.00  PERIOD  PM25_UM   00043824
597687.18000 4121457.26000       0.03139    81.39    81.39     0.00  PERIOD  PM25_UM   00043824
597713.28000 4121521.81000       0.01255    81.10    81.10     0.00  PERIOD  PM25_UM   00043824
597653.04000 4121430.58000       0.05562    81.85    81.85     0.00  PERIOD  PM25_UM   00043824
597700.40000 4121573.06000       0.00765    81.01    81.01     0.00  PERIOD  PM25_UM   00043824
597728.41000 4121530.72000       0.00998    80.88    80.88     0.00  PERIOD  PM25_UM   00043824
597715.19000 4121582.63000       0.00619    80.84    80.84     0.00  PERIOD  PM25_UM   00043824
597689.83000 4121443.57000       0.03406    81.13    81.13     0.00  PERIOD  PM25_UM   00043824
597235.97000 4121269.19000       0.00149    88.76    88.76     0.00  PERIOD  PM25_UM   00043824
597731.83000 4121596.82000       0.00483    80.61    80.61     0.00  PERIOD  PM25_UM   00043824
597225.79000 4121269.05000       0.00154    88.80    88.80     0.00  PERIOD  PM25_UM   00043824
597658.55000 4121414.75000       0.05631    81.49    81.49     0.00  PERIOD  PM25_UM   00043824
597751.09000 4121586.20000       0.00476    80.42    80.42     0.00  PERIOD  PM25_UM   00043824
597326.97000 4121268.69000       0.00254    88.30    88.30     0.00  PERIOD  PM25_UM   00043824
597305.72000 4121268.45000       0.00275    88.54    88.54     0.00  PERIOD  PM25_UM   00043824
597702.61000 4121430.81000       0.03280    81.03    81.03     0.00  PERIOD  PM25_UM   00043824
597214.01000 4121269.00000       0.00131    88.83    88.83     0.00  PERIOD  PM25_UM   00043824
597355.98000 4121272.90000       0.00261    88.38    88.38     0.00  PERIOD  PM25_UM   00043824
597758.77000 4121568.06000       0.00539    80.32    80.32     0.00  PERIOD  PM25_UM   00043824
597330.78000 4121260.77000       0.00244    88.30    88.30     0.00  PERIOD  PM25_UM   00043824
597235.90000 4121309.46000       0.00205    88.10    88.10     0.00  PERIOD  PM25_UM   00043824
597305.80000 4121259.12000       0.00266    88.67    88.67     0.00  PERIOD  PM25_UM   00043824
597205.42000 4121263.61000       0.00117    88.86    88.86     0.00  PERIOD  PM25_UM   00043824
597667.73000 4121400.64000       0.05305    81.19    81.19     0.00  PERIOD  PM25_UM   00043824
597230.08000 4121309.43000       0.00187    88.08    88.08     0.00  PERIOD  PM25_UM   00043824
597361.72000 4121266.33000       0.00255    88.49    88.49     0.00  PERIOD  PM25_UM   00043824
597765.09000 4121551.86000       0.00607    80.13    80.13     0.00  PERIOD  PM25_UM   00043824
597334.92000 4121253.01000       0.00234    88.32    88.32     0.00  PERIOD  PM25_UM   00043824
597220.77000 4121310.62000       0.00166    88.08    88.08     0.00  PERIOD  PM25_UM   00043824
597306.69000 4121250.30000       0.00256    88.78    88.78     0.00  PERIOD  PM25_UM   00043824
597205.55000 4121253.83000       0.00114    88.84    88.84     0.00  PERIOD  PM25_UM   00043824
597210.15000 4121311.79000       0.00148    88.08    88.08     0.00  PERIOD  PM25_UM   00043824
597365.70000 4121258.09000       0.00245    88.59    88.59     0.00  PERIOD  PM25_UM   00043824
597776.57000 4121538.41000       0.00642    79.88    79.88     0.00  PERIOD  PM25_UM   00043824
597708.60000 4121414.60000       0.03398    80.65    80.65     0.00  PERIOD  PM25_UM   00043824
597341.17000 4121245.32000       0.00225    88.36    88.36     0.00  PERIOD  PM25_UM   00043824
597199.35000 4121309.67000       0.00132    87.99    87.99     0.00  PERIOD  PM25_UM   00043824
597307.92000 4121240.83000       0.00247    88.88    88.88     0.00  PERIOD  PM25_UM   00043824
597746.17000 4121502.71000       0.01161    79.66    79.66     0.00  PERIOD  PM25_UM   00043824
597193.80000 4121309.52000       0.00126    87.96    87.96     0.00  PERIOD  PM25_UM   00043824
597368.73000 4121248.67000       0.00234    88.56    88.56     0.00  PERIOD  PM25_UM   00043824
597786.72000 4121525.58000       0.00679    79.47    79.47     0.00  PERIOD  PM25_UM   00043824
597205.99000 4121242.20000       0.00110    88.93    88.93     0.00  PERIOD  PM25_UM   00043824
597728.76000 4121493.07000       0.01490    80.16    80.16     0.00  PERIOD  PM25_UM   00043824
597676.38000 4121385.83000       0.04936    80.84    80.84     0.00  PERIOD  PM25_UM   00043824
597178.41000 4121310.20000       0.00112    87.99    87.99     0.00  PERIOD  PM25_UM   00043824
597308.47000 4121232.66000       0.00240    88.92    88.92     0.00  PERIOD  PM25_UM   00043824
597713.69000 4121481.54000       0.01924    80.54    80.54     0.00  PERIOD  PM25_UM   00043824
597167.42000 4121310.57000       0.00103    88.02    88.02     0.00  PERIOD  PM25_UM   00043824
597798.91000 4121510.19000       0.00722    78.45    78.45     0.00  PERIOD  PM25_UM   00043824
597732.01000 4121456.81000       0.02038    80.23    80.23     0.00  PERIOD  PM25_UM   00043824
597157.03000 4121308.00000       0.00096    88.06    88.06     0.00  PERIOD  PM25_UM   00043824
597722.38000 4121400.56000       0.03190    80.08    80.08     0.00  PERIOD  PM25_UM   00043824
597731.54000 4121437.81000       0.02380    80.41    80.41     0.00  PERIOD  PM25_UM   00043824
597150.57000 4121308.04000       0.00092    88.09    88.09     0.00  PERIOD  PM25_UM   00043824
597807.12000 4121496.65000       0.00772    77.65    77.65     0.00  PERIOD  PM25_UM   00043824
597754.47000 4121424.33000       0.02135    79.86    79.86     0.00  PERIOD  PM25_UM   00043824
597130.87000 4121314.58000       0.00084    88.14    88.14     0.00  PERIOD  PM25_UM   00043824
597225.45000 4121203.42000       0.00129    89.30    89.30     0.00  PERIOD  PM25_UM   00043824
597773.16000 4121459.54000       0.01391    77.99    77.99     0.00  PERIOD  PM25_UM   00043824
597684.69000 4121369.58000       0.04502    79.92    79.92     0.00  PERIOD  PM25_UM   00043824
597125.19000 4121309.13000       0.00080    88.13    88.13     0.00  PERIOD  PM25_UM   00043824
597819.89000 4121483.89000       0.00791    77.16    77.16     0.00  PERIOD  PM25_UM   00043824
597781.55000 4121439.46000       0.01529    78.04    79.73     0.00  PERIOD  PM25_UM   00043824
597116.49000 4121300.51000       0.00073    88.23    88.23     0.00  PERIOD  PM25_UM   00043824
597801.37000 4121432.13000       0.01383    77.66    77.66     0.00  PERIOD  PM25_UM   00043824
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597837.93000 4121469.96000       0.00788    76.95    76.95     0.00  PERIOD  PM25_UM   00043824
597721.84000 4121384.17000       0.03346    79.05    79.05     0.00  PERIOD  PM25_UM   00043824
597162.17000 4121271.30000       0.00085    88.60    88.60     0.00  PERIOD  PM25_UM   00043824
597691.71000 4121353.96000       0.04089    79.19    79.19     0.00  PERIOD  PM25_UM   00043824
597739.89000 4121369.91000       0.02976    78.51    78.51     0.00  PERIOD  PM25_UM   00043824
597162.23000 4121241.55000       0.00075    88.92    88.92     0.00  PERIOD  PM25_UM   00043824
597171.62000 4121219.16000       0.00073    89.33    89.33     0.00  PERIOD  PM25_UM   00043824
597159.33000 4121221.70000       0.00068    89.17    89.17     0.00  PERIOD  PM25_UM   00043824
597702.40000 4121339.03000       0.03631    79.07    79.07     0.00  PERIOD  PM25_UM   00043824
597712.71000 4121321.31000       0.03183    79.04    79.04     0.00  PERIOD  PM25_UM   00043824
597212.98000 4121596.32000       0.01181    84.48    84.48     0.00  PERIOD  PM25_UM   00043824
597305.73000 4121897.48000       0.00357    80.25    80.25     0.00  PERIOD  PM25_UM   00043824
597355.60000 4121436.22000       0.01647    85.51    85.51     0.00  PERIOD  PM25_UM   00043824
597102.33000 4121708.76000       0.00598    83.03    83.03     0.00  PERIOD  PM25_UM   00043824
597120.02000 4121705.99000       0.00675    83.12    83.12     0.00  PERIOD  PM25_UM   00043824
597851.50000 4121501.10000       0.00556    77.52    77.52     0.00  PERIOD  PM25_UM   00043824
597856.89000 4121435.90000       0.00908    77.39    77.39     0.00  PERIOD  PM25_UM   00043824
597850.11000 4121420.00000       0.01062    77.55    77.55     0.00  PERIOD  PM25_UM   00043824
597843.32000 4121404.75000       0.01224    77.64    77.64     0.00  PERIOD  PM25_UM   00043824
597832.54000 4121392.02000       0.01414    77.79    77.79     0.00  PERIOD  PM25_UM   00043824
597776.88000 4121418.05000       0.01837    77.85    79.80     0.00  PERIOD  PM25_UM   00043824
597821.17000 4121376.66000       0.01640    77.82    77.82     0.00  PERIOD  PM25_UM   00043824
597770.67000 4121405.77000       0.02070    77.84    77.84     0.00  PERIOD  PM25_UM   00043824
597298.81000 4121189.35000       0.00228    89.21    89.21     0.00  PERIOD  PM25_UM   00043824
597813.05000 4121362.03000       0.01823    78.10    78.10     0.00  PERIOD  PM25_UM   00043824
597302.67000 4121210.90000       0.00235    89.10    89.10     0.00  PERIOD  PM25_UM   00043824
597307.23000 4121186.79000       0.00210    89.14    89.14     0.00  PERIOD  PM25_UM   00043824
597802.35000 4121346.03000       0.02021    78.11    78.11     0.00  PERIOD  PM25_UM   00043824
597311.07000 4121214.72000       0.00223    89.07    89.07     0.00  PERIOD  PM25_UM   00043824
597761.69000 4121386.54000       0.02422    78.17    78.17     0.00  PERIOD  PM25_UM   00043824
597318.76000 4121183.81000       0.00192    89.00    89.00     0.00  PERIOD  PM25_UM   00043824
597782.98000 4121336.34000       0.02289    78.30    78.30     0.00  PERIOD  PM25_UM   00043824
597320.45000 4121218.57000       0.00213    89.01    89.01     0.00  PERIOD  PM25_UM   00043824
597329.43000 4121188.68000       0.00185    89.03    89.03     0.00  PERIOD  PM25_UM   00043824
597766.84000 4121328.06000       0.02495    78.43    78.43     0.00  PERIOD  PM25_UM   00043824
597745.12000 4121197.96000       0.01247    78.86    78.86     0.00  PERIOD  PM25_UM   00043824
597338.12000 4121194.15000       0.00183    89.05    89.05     0.00  PERIOD  PM25_UM   00043824
597752.32000 4121321.32000       0.02655    78.62    78.62     0.00  PERIOD  PM25_UM   00043824
597333.76000 4121222.53000       0.00206    88.94    88.94     0.00  PERIOD  PM25_UM   00043824
597343.75000 4121203.80000       0.00188    88.93    88.93     0.00  PERIOD  PM25_UM   00043824
597732.74000 4121325.45000       0.02959    78.75    78.75     0.00  PERIOD  PM25_UM   00043824
597341.48000 4121227.65000       0.00208    88.74    88.74     0.00  PERIOD  PM25_UM   00043824
597725.64000 4121183.56000       0.01065    79.02    79.02     0.00  PERIOD  PM25_UM   00043824
597355.24000 4121202.14000       0.00185    88.69    88.69     0.00  PERIOD  PM25_UM   00043824
597349.86000 4121232.45000       0.00211    88.64    88.64     0.00  PERIOD  PM25_UM   00043824
597703.31000 4121190.26000       0.01069    79.05    79.05     0.00  PERIOD  PM25_UM   00043824
597751.91000 4121641.57000       0.00305    80.43    80.43     0.00  PERIOD  PM25_UM   00043824
597727.48000 4121680.38000       0.00270    80.69    80.69     0.00  PERIOD  PM25_UM   00043824
597367.36000 4121232.59000       0.00214    88.58    88.58     0.00  PERIOD  PM25_UM   00043824
597707.10000 4121708.65000       0.00259    81.01    81.01     0.00  PERIOD  PM25_UM   00043824
597675.15000 4121753.65000       0.00271    81.19    81.19     0.00  PERIOD  PM25_UM   00043824
597375.41000 4121237.39000       0.00223    88.59    88.59     0.00  PERIOD  PM25_UM   00043824
597677.59000 4121180.12000       0.00885    79.33    79.33     0.00  PERIOD  PM25_UM   00043824
597735.78000 4121632.95000       0.00350    80.78    80.78     0.00  PERIOD  PM25_UM   00043824
597688.77000 4121698.32000       0.00294    81.28    81.28     0.00  PERIOD  PM25_UM   00043824
597677.38000 4121154.50000       0.00689    79.12    79.12     0.00  PERIOD  PM25_UM   00043824
597711.51000 4121665.87000       0.00315    80.84    80.84     0.00  PERIOD  PM25_UM   00043824
597663.11000 4121735.30000       0.00296    81.04    81.04     0.00  PERIOD  PM25_UM   00043824
597654.22000 4121777.98000       0.00327    81.50    81.50     0.00  PERIOD  PM25_UM   00043824
597383.64000 4121241.70000       0.00235    88.49    88.49     0.00  PERIOD  PM25_UM   00043824
597673.30000 4121692.01000       0.00327    81.39    81.39     0.00  PERIOD  PM25_UM   00043824
597647.55000 4121729.64000       0.00325    81.39    81.39     0.00  PERIOD  PM25_UM   00043824
597638.06000 4121770.35000       0.00360    81.66    81.66     0.00  PERIOD  PM25_UM   00043824
597396.51000 4121259.35000       0.00279    88.03    88.03     0.00  PERIOD  PM25_UM   00043824
597655.98000 4121190.01000       0.00892    79.41    79.41     0.00  PERIOD  PM25_UM   00043824
597722.41000 4121618.84000       0.00419    81.01    81.01     0.00  PERIOD  PM25_UM   00043824
597658.51000 4121682.45000       0.00370    81.82    81.82     0.00  PERIOD  PM25_UM   00043824
597695.72000 4121656.61000       0.00361    81.12    81.12     0.00  PERIOD  PM25_UM   00043824
597632.76000 4121720.08000       0.00360    81.67    81.67     0.00  PERIOD  PM25_UM   00043824
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597622.64000 4121760.11000       0.00387    81.79    81.79     0.00  PERIOD  PM25_UM   00043824
597647.00000 4121672.32000       0.00418    82.06    82.06     0.00  PERIOD  PM25_UM   00043824
597652.05000 4121153.42000       0.00604    79.06    79.06     0.00  PERIOD  PM25_UM   00043824
597607.13000 4121752.50000       0.00421    81.90    81.90     0.00  PERIOD  PM25_UM   00043824
597403.92000 4121265.83000       0.00305    88.03    88.03     0.00  PERIOD  PM25_UM   00043824
597636.81000 4121180.30000       0.00732    79.67    79.67     0.00  PERIOD  PM25_UM   00043824
597702.86000 4121615.70000       0.00481    81.31    81.31     0.00  PERIOD  PM25_UM   00043824
597680.29000 4121646.70000       0.00420    81.30    81.30     0.00  PERIOD  PM25_UM   00043824
597617.91000 4121712.48000       0.00400    81.93    81.93     0.00  PERIOD  PM25_UM   00043824
597592.32000 4121743.59000       0.00458    82.02    82.02     0.00  PERIOD  PM25_UM   00043824
597409.06000 4121273.21000       0.00334    87.98    87.98     0.00  PERIOD  PM25_UM   00043824
597629.53000 4121665.31000       0.00484    82.35    82.35     0.00  PERIOD  PM25_UM   00043824
597435.19000 4121287.68000       0.00473    87.68    87.68     0.00  PERIOD  PM25_UM   00043824
597630.74000 4121159.27000       0.00570    79.17    79.17     0.00  PERIOD  PM25_UM   00043824
597601.72000 4121706.16000       0.00451    82.27    82.27     0.00  PERIOD  PM25_UM   00043824
597579.54000 4121732.11000       0.00496    82.09    82.09     0.00  PERIOD  PM25_UM   00043824
597616.31000 4121186.84000       0.00698    79.75    79.75     0.00  PERIOD  PM25_UM   00043824
597622.82000 4121117.91000       0.00372    79.16    79.16     0.00  PERIOD  PM25_UM   00043824
597689.36000 4121606.83000       0.00570    81.53    81.53     0.00  PERIOD  PM25_UM   00043824
597614.05000 4121656.38000       0.00572    82.79    82.79     0.00  PERIOD  PM25_UM   00043824
597428.71000 4121293.82000       0.00475    87.85    87.85     0.00  PERIOD  PM25_UM   00043824
597666.07000 4121639.77000       0.00480    81.42    81.42     0.00  PERIOD  PM25_UM   00043824
597586.24000 4121697.89000       0.00515    82.66    82.66     0.00  PERIOD  PM25_UM   00043824
597563.40000 4121723.83000       0.00559    82.23    82.23     0.00  PERIOD  PM25_UM   00043824
597383.79000 4121267.40000       0.00278    87.98    87.98     0.00  PERIOD  PM25_UM   00043824
597606.75000 4121162.85000       0.00513    79.23    79.23     0.00  PERIOD  PM25_UM   00043824
597569.46000 4121688.93000       0.00606    82.86    82.86     0.00  PERIOD  PM25_UM   00043824
597548.59000 4121714.92000       0.00633    82.27    82.27     0.00  PERIOD  PM25_UM   00043824
597593.88000 4121193.88000       0.00655    79.91    79.91     0.00  PERIOD  PM25_UM   00043824
597672.89000 4121586.41000       0.00805    81.74    81.74     0.00  PERIOD  PM25_UM   00043824
597641.88000 4121633.07000       0.00593    82.34    82.34     0.00  PERIOD  PM25_UM   00043824
597552.09000 4121677.98000       0.00744    83.02    83.02     0.00  PERIOD  PM25_UM   00043824
597533.11000 4121706.65000       0.00733    82.18    82.18     0.00  PERIOD  PM25_UM   00043824
597286.43000 4121704.17000       0.01826    83.12    83.12     0.00  PERIOD  PM25_UM   00043824
597286.53000 4121683.38000       0.02467    83.07    83.07     0.00  PERIOD  PM25_UM   00043824
597299.17000 4121683.23000       0.02534    83.02    83.02     0.00  PERIOD  PM25_UM   00043824
597321.23000 4121712.51000       0.01686    83.18    83.18     0.00  PERIOD  PM25_UM   00043824
597317.86000 4121684.63000       0.02531    82.99    82.99     0.00  PERIOD  PM25_UM   00043824
597330.62000 4121691.43000       0.02277    82.95    82.95     0.00  PERIOD  PM25_UM   00043824
597344.40000 4121693.37000       0.02195    82.95    82.95     0.00  PERIOD  PM25_UM   00043824
597359.94000 4121696.38000       0.02061    82.99    82.99     0.00  PERIOD  PM25_UM   00043824
597354.33000 4121714.88000       0.01578    82.96    82.96     0.00  PERIOD  PM25_UM   00043824
597354.00000 4121720.68000       0.01462    82.92    82.92     0.00  PERIOD  PM25_UM   00043824
597366.48000 4121721.45000       0.01419    82.83    82.83     0.00  PERIOD  PM25_UM   00043824
597384.98000 4121721.87000       0.01361    82.72    82.72     0.00  PERIOD  PM25_UM   00043824
597399.74000 4121707.07000       0.01608    82.50    82.50     0.00  PERIOD  PM25_UM   00043824
597408.21000 4121333.29000       0.00613    87.73    87.73     0.00  PERIOD  PM25_UM   00043824
597582.19000 4121158.09000       0.00420    79.32    79.32     0.00  PERIOD  PM25_UM   00043824
597643.65000 4121615.76000       0.00705    82.41    82.41     0.00  PERIOD  PM25_UM   00043824
597529.40000 4121670.18000       0.00960    83.17    83.17     0.00  PERIOD  PM25_UM   00043824
597522.43000 4121689.99000       0.00870    82.47    82.47     0.00  PERIOD  PM25_UM   00043824
597570.90000 4121186.46000       0.00518    80.26    80.26     0.00  PERIOD  PM25_UM   00043824
597654.66000 4121595.10000       0.00833    82.33    82.33     0.00  PERIOD  PM25_UM   00043824
597398.68000 4121322.89000       0.00492    87.89    87.89     0.00  PERIOD  PM25_UM   00043824
597500.69000 4121695.31000       0.01019    82.28    82.28     0.00  PERIOD  PM25_UM   00043824
597398.21000 4121291.11000       0.00361    87.96    87.96     0.00  PERIOD  PM25_UM   00043824
597389.74000 4121326.58000       0.00472    87.97    87.97     0.00  PERIOD  PM25_UM   00043824
597561.65000 4121148.18000       0.00337    79.33    79.33     0.00  PERIOD  PM25_UM   00043824
597389.45000 4121293.60000       0.00348    88.06    88.06     0.00  PERIOD  PM25_UM   00043824
597551.51000 4121174.67000       0.00402    80.46    80.46     0.00  PERIOD  PM25_UM   00043824
597380.13000 4121331.23000       0.00457    87.93    87.93     0.00  PERIOD  PM25_UM   00043824
597427.69000 4121632.86000       0.05720    83.12    83.12     0.00  PERIOD  PM25_UM   00043824
597416.78000 4121660.68000       0.03300    83.01    83.01     0.00  PERIOD  PM25_UM   00043824
597426.51000 4121655.17000       0.03429    83.15    83.15     0.00  PERIOD  PM25_UM   00043824
597429.13000 4121648.78000       0.03849    83.16    83.16     0.00  PERIOD  PM25_UM   00043824
597432.79000 4121641.90000       0.04361    83.17    83.17     0.00  PERIOD  PM25_UM   00043824
597421.30000 4121632.30000       0.06123    83.11    83.11     0.00  PERIOD  PM25_UM   00043824
597434.76000 4121633.17000       0.05275    83.16    83.16     0.00  PERIOD  PM25_UM   00043824
597414.22000 4121632.28000       0.06415    83.09    83.09     0.00  PERIOD  PM25_UM   00043824
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597406.53000 4121632.01000       0.06684    83.06    83.06     0.00  PERIOD  PM25_UM   00043824
597401.86000 4121645.27000       0.05036    83.03    83.03     0.00  PERIOD  PM25_UM   00043824
597398.78000 4121654.58000       0.04141    82.96    82.96     0.00  PERIOD  PM25_UM   00043824
597411.03000 4121658.32000       0.03594    83.03    83.03     0.00  PERIOD  PM25_UM   00043824
597380.72000 4121295.98000       0.00337    88.09    88.09     0.00  PERIOD  PM25_UM   00043824
597398.08000 4121397.86000       0.01643    86.48    86.48     0.00  PERIOD  PM25_UM   00043824
597370.88000 4121334.59000       0.00439    87.99    87.99     0.00  PERIOD  PM25_UM   00043824
597540.51000 4121137.88000       0.00271    79.44    79.44     0.00  PERIOD  PM25_UM   00043824
597383.34000 4121631.98000       0.07032    83.26    83.26     0.00  PERIOD  PM25_UM   00043824
597383.31000 4121637.31000       0.06308    83.19    83.19     0.00  PERIOD  PM25_UM   00043824
597389.40000 4121632.61000       0.06916    83.21    83.21     0.00  PERIOD  PM25_UM   00043824
597388.65000 4121637.17000       0.06291    83.16    83.16     0.00  PERIOD  PM25_UM   00043824
597363.76000 4121294.06000       0.00306    88.19    88.19     0.00  PERIOD  PM25_UM   00043824
597530.71000 4121167.25000       0.00326    80.53    80.53     0.00  PERIOD  PM25_UM   00043824
597384.36000 4121397.92000       0.01229    86.45    86.45     0.00  PERIOD  PM25_UM   00043824
597400.44000 4121366.00000       0.00897    87.05    87.05     0.00  PERIOD  PM25_UM   00043824
597362.36000 4121322.90000       0.00375    88.05    88.05     0.00  PERIOD  PM25_UM   00043824
597360.20000 4121632.21000       0.06836    83.32    83.32     0.00  PERIOD  PM25_UM   00043824
597366.70000 4121638.29000       0.06158    83.22    83.22     0.00  PERIOD  PM25_UM   00043824
597359.87000 4121638.85000       0.06055    83.27    83.27     0.00  PERIOD  PM25_UM   00043824
597366.56000 4121632.25000       0.06901    83.29    83.29     0.00  PERIOD  PM25_UM   00043824
597399.35000 4121345.34000       0.00648    87.56    87.56     0.00  PERIOD  PM25_UM   00043824
597355.17000 4121290.88000       0.00290    88.28    88.28     0.00  PERIOD  PM25_UM   00043824
597372.23000 4121397.32000       0.00990    86.55    86.55     0.00  PERIOD  PM25_UM   00043824
597396.08000 4121382.26000       0.01116    86.85    86.85     0.00  PERIOD  PM25_UM   00043824
597347.27000 4121329.65000       0.00366    88.08    88.08     0.00  PERIOD  PM25_UM   00043824
597522.10000 4121125.22000       0.00221    79.67    79.67     0.00  PERIOD  PM25_UM   00043824
597346.14000 4121638.66000       0.05932    83.30    83.30     0.00  PERIOD  PM25_UM   00043824
597380.87000 4121351.40000       0.00576    87.24    87.24     0.00  PERIOD  PM25_UM   00043824
597346.12000 4121286.88000       0.00278    88.24    88.24     0.00  PERIOD  PM25_UM   00043824
597509.61000 4121156.40000       0.00260    80.74    80.74     0.00  PERIOD  PM25_UM   00043824
597360.31000 4121397.29000       0.00836    86.59    86.59     0.00  PERIOD  PM25_UM   00043824
597368.19000 4121385.45000       0.00775    86.92    86.92     0.00  PERIOD  PM25_UM   00043824
597348.22000 4121318.53000       0.00340    88.13    88.13     0.00  PERIOD  PM25_UM   00043824
597310.62000 4121634.10000       0.05680    83.47    83.47     0.00  PERIOD  PM25_UM   00043824
597364.05000 4121344.08000       0.00459    87.60    87.60     0.00  PERIOD  PM25_UM   00043824
597328.32000 4121291.97000       0.00282    88.25    88.25     0.00  PERIOD  PM25_UM   00043824
597345.01000 4121396.38000       0.00688    86.85    86.85     0.00  PERIOD  PM25_UM   00043824
597346.41000 4121380.28000       0.00578    87.00    87.00     0.00  PERIOD  PM25_UM   00043824
597323.73000 4121329.35000       0.00342    88.10    88.10     0.00  PERIOD  PM25_UM   00043824
597296.46000 4121633.94000       0.05279    83.48    83.48     0.00  PERIOD  PM25_UM   00043824
597347.29000 4121347.23000       0.00423    87.50    87.50     0.00  PERIOD  PM25_UM   00043824
597319.58000 4121288.47000       0.00281    88.22    88.22     0.00  PERIOD  PM25_UM   00043824
597490.83000 4121144.96000       0.00215    81.01    81.01     0.00  PERIOD  PM25_UM   00043824
597333.92000 4121396.09000       0.00617    86.99    86.99     0.00  PERIOD  PM25_UM   00043824
597331.17000 4121375.29000       0.00494    86.97    86.97     0.00  PERIOD  PM25_UM   00043824
597322.03000 4121319.15000       0.00323    88.12    88.12     0.00  PERIOD  PM25_UM   00043824
597329.20000 4121350.68000       0.00400    87.38    87.38     0.00  PERIOD  PM25_UM   00043824
597311.17000 4121284.64000       0.00284    88.24    88.24     0.00  PERIOD  PM25_UM   00043824
597318.38000 4121396.24000       0.00556    86.91    86.91     0.00  PERIOD  PM25_UM   00043824
597312.93000 4121384.31000       0.00488    87.23    87.23     0.00  PERIOD  PM25_UM   00043824
597305.06000 4121330.16000       0.00351    87.92    87.92     0.00  PERIOD  PM25_UM   00043824
597312.70000 4121343.70000       0.00372    87.67    87.67     0.00  PERIOD  PM25_UM   00043824
597301.94000 4121281.45000       0.00294    88.45    88.45     0.00  PERIOD  PM25_UM   00043824
597476.60000 4121128.31000       0.00179    81.08    81.08     0.00  PERIOD  PM25_UM   00043824
597307.71000 4121396.38000       0.00531    86.93    86.93     0.00  PERIOD  PM25_UM   00043824
597295.42000 4121378.28000       0.00464    87.16    87.16     0.00  PERIOD  PM25_UM   00043824
597306.31000 4121320.04000       0.00334    88.08    88.08     0.00  PERIOD  PM25_UM   00043824
597295.89000 4121348.49000       0.00396    87.53    87.53     0.00  PERIOD  PM25_UM   00043824
597232.16000 4121486.68000       0.00593    86.06    86.06     0.00  PERIOD  PM25_UM   00043824
597535.15000 4121491.78000       0.19017    84.25    84.25     0.00  PERIOD  PM25_UM   00043824
597234.27000 4121502.92000       0.00683    85.81    85.81     0.00  PERIOD  PM25_UM   00043824
597235.30000 4121426.24000       0.00365    86.62    86.62     0.00  PERIOD  PM25_UM   00043824
597235.51000 4121395.16000       0.00300    87.06    87.06     0.00  PERIOD  PM25_UM   00043824
597219.55000 4121695.31000       0.01431    83.34    83.34     0.00  PERIOD  PM25_UM   00043824
597231.70000 4121554.43000       0.01048    85.02    85.02     0.00  PERIOD  PM25_UM   00043824
597237.31000 4121357.54000       0.00219    87.57    87.57     0.00  PERIOD  PM25_UM   00043824
597205.20000 4121610.57000       0.01199    84.56    84.56     0.00  PERIOD  PM25_UM   00043824
597220.62000 4121614.77000       0.01570    84.37    84.37     0.00  PERIOD  PM25_UM   00043824
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597205.55000 4121621.83000       0.01318    84.50    84.50     0.00  PERIOD  PM25_UM   00043824
597214.44000 4121480.32000       0.00446    86.13    86.13     0.00  PERIOD  PM25_UM   00043824
597213.56000 4121510.58000       0.00589    85.67    85.67     0.00  PERIOD  PM25_UM   00043824
597214.87000 4121438.05000       0.00312    86.24    86.24     0.00  PERIOD  PM25_UM   00043824
597218.09000 4121400.49000       0.00249    87.08    87.08     0.00  PERIOD  PM25_UM   00043824
597548.54000 4121464.55000       0.19557    84.24    84.24     0.00  PERIOD  PM25_UM   00043824
597217.20000 4121351.46000       0.00190    87.49    87.49     0.00  PERIOD  PM25_UM   00043824
597199.22000 4121686.54000       0.01286    83.54    83.54     0.00  PERIOD  PM25_UM   00043824
597209.07000 4121544.15000       0.00751    84.94    84.94     0.00  PERIOD  PM25_UM   00043824
597196.70000 4121474.94000       0.00351    86.13    86.13     0.00  PERIOD  PM25_UM   00043824
597185.52000 4121614.60000       0.00967    84.45    84.45     0.00  PERIOD  PM25_UM   00043824
597214.18000 4121584.85000       0.01092    84.50    84.50     0.00  PERIOD  PM25_UM   00043824
597214.01000 4121579.16000       0.01040    84.64    84.64     0.00  PERIOD  PM25_UM   00043824
597188.98000 4121603.51000       0.00929    84.47    84.47     0.00  PERIOD  PM25_UM   00043824
597188.74000 4121593.44000       0.00861    84.51    84.51     0.00  PERIOD  PM25_UM   00043824
597190.61000 4121575.81000       0.00773    84.82    84.82     0.00  PERIOD  PM25_UM   00043824
597201.64000 4121578.66000       0.00893    84.67    84.67     0.00  PERIOD  PM25_UM   00043824
597194.52000 4121501.58000       0.00437    85.87    85.87     0.00  PERIOD  PM25_UM   00043824
597198.60000 4121414.53000       0.00225    86.67    86.67     0.00  PERIOD  PM25_UM   00043824
597196.97000 4121404.24000       0.00207    87.05    87.05     0.00  PERIOD  PM25_UM   00043824
597197.99000 4121344.81000       0.00152    87.60    87.60     0.00  PERIOD  PM25_UM   00043824
597190.78000 4121550.04000       0.00641    85.01    85.01     0.00  PERIOD  PM25_UM   00043824
597177.24000 4121469.54000       0.00279    86.07    86.07     0.00  PERIOD  PM25_UM   00043824
597176.56000 4121495.22000       0.00346    85.89    85.89     0.00  PERIOD  PM25_UM   00043824
597180.51000 4121419.42000       0.00199    86.52    86.52     0.00  PERIOD  PM25_UM   00043824
597180.89000 4121395.27000       0.00172    87.19    87.19     0.00  PERIOD  PM25_UM   00043824
597181.22000 4121679.01000       0.01127    83.57    83.57     0.00  PERIOD  PM25_UM   00043824
597178.33000 4121337.59000       0.00126    87.74    87.74     0.00  PERIOD  PM25_UM   00043824
597161.56000 4121426.16000       0.00180    86.31    86.31     0.00  PERIOD  PM25_UM   00043824
597162.04000 4121671.44000       0.00949    83.57    83.57     0.00  PERIOD  PM25_UM   00043824
597171.98000 4121556.90000       0.00555    85.17    85.17     0.00  PERIOD  PM25_UM   00043824
597160.23000 4121464.42000       0.00233    85.93    85.93     0.00  PERIOD  PM25_UM   00043824
597158.09000 4121507.97000       0.00328    85.58    85.58     0.00  PERIOD  PM25_UM   00043824
597160.91000 4121385.35000       0.00141    86.99    86.99     0.00  PERIOD  PM25_UM   00043824
597160.62000 4121355.63000       0.00121    87.37    87.37     0.00  PERIOD  PM25_UM   00043824
597150.75000 4121544.56000       0.00416    84.87    84.87     0.00  PERIOD  PM25_UM   00043824
597140.82000 4121484.74000       0.00233    86.10    86.10     0.00  PERIOD  PM25_UM   00043824
597139.63000 4121502.08000       0.00267    85.58    85.58     0.00  PERIOD  PM25_UM   00043824
597144.02000 4121430.79000       0.00164    86.22    86.22     0.00  PERIOD  PM25_UM   00043824
597219.40000 4121265.07000       0.00139    88.79    88.79     0.00  PERIOD  PM25_UM   00043824
597144.47000 4121403.43000       0.00139    87.11    87.11     0.00  PERIOD  PM25_UM   00043824
597142.19000 4121689.14000       0.00802    83.63    83.63     0.00  PERIOD  PM25_UM   00043824
597141.97000 4121348.12000       0.00104    87.48    87.48     0.00  PERIOD  PM25_UM   00043824
597123.82000 4121479.13000       0.00197    86.10    86.10     0.00  PERIOD  PM25_UM   00043824
597117.76000 4121495.13000       0.00213    85.82    85.82     0.00  PERIOD  PM25_UM   00043824
597125.62000 4121436.21000       0.00150    86.08    86.08     0.00  PERIOD  PM25_UM   00043824
597127.28000 4121394.11000       0.00119    87.19    87.19     0.00  PERIOD  PM25_UM   00043824
597120.25000 4121675.04000       0.00664    83.66    83.66     0.00  PERIOD  PM25_UM   00043824
597122.27000 4121342.93000       0.00091    87.57    87.57     0.00  PERIOD  PM25_UM   00043824
597106.09000 4121473.27000       0.00168    86.00    86.00     0.00  PERIOD  PM25_UM   00043824
597107.40000 4121415.33000       0.00119    86.52    86.52     0.00  PERIOD  PM25_UM   00043824
597106.51000 4121383.16000       0.00100    86.92    86.92     0.00  PERIOD  PM25_UM   00043824
597101.23000 4121683.35000       0.00582    83.77    83.77     0.00  PERIOD  PM25_UM   00043824
597088.35000 4121467.91000       0.00145    85.93    85.93     0.00  PERIOD  PM25_UM   00043824
597103.81000 4121336.55000       0.00080    87.82    87.82     0.00  PERIOD  PM25_UM   00043824
597088.77000 4121420.74000       0.00110    86.32    86.32     0.00  PERIOD  PM25_UM   00043824
597089.75000 4121403.58000       0.00101    87.04    87.04     0.00  PERIOD  PM25_UM   00043824
597079.36000 4121688.65000       0.00502    83.67    83.67     0.00  PERIOD  PM25_UM   00043824
597070.38000 4121461.79000       0.00126    85.72    85.72     0.00  PERIOD  PM25_UM   00043824
597069.87000 4121425.06000       0.00102    86.13    86.13     0.00  PERIOD  PM25_UM   00043824
597073.28000 4121387.58000       0.00086    86.80    86.80     0.00  PERIOD  PM25_UM   00043824
597036.12000 4121680.44000       0.00367    83.87    83.87     0.00  PERIOD  PM25_UM   00043824
597048.15000 4121477.86000       0.00122    85.85    85.85     0.00  PERIOD  PM25_UM   00043824
597050.44000 4121429.92000       0.00095    86.03    86.03     0.00  PERIOD  PM25_UM   00043824
597049.47000 4121395.83000       0.00080    86.74    86.74     0.00  PERIOD  PM25_UM   00043824
597039.56000 4121624.35000       0.00292    84.45    84.45     0.00  PERIOD  PM25_UM   00043824
597017.02000 4121669.94000       0.00312    83.88    83.88     0.00  PERIOD  PM25_UM   00043824
597018.97000 4121631.84000       0.00265    84.38    84.38     0.00  PERIOD  PM25_UM   00043824
597036.43000 4121602.62000       0.00252    84.75    84.75     0.00  PERIOD  PM25_UM   00043824
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  596997.51000 4121674.71000       0.00282    83.87    83.87     0.00  PERIOD  PM25_UM   00043824
  597017.49000 4121594.69000       0.00213    84.71    84.71     0.00  PERIOD  PM25_UM   00043824
  597001.29000 4121623.33000       0.00226    84.48    84.48     0.00  PERIOD  PM25_UM   00043824
  597016.59000 4121553.08000       0.00163    84.97    84.97     0.00  PERIOD  PM25_UM   00043824
  597001.02000 4121586.83000       0.00183    84.57    84.57     0.00  PERIOD  PM25_UM   00043824
  596993.98000 4121543.82000       0.00135    85.07    85.07     0.00  PERIOD  PM25_UM   00043824
  596979.16000 4121680.10000       0.00258    83.83    83.83     0.00  PERIOD  PM25_UM   00043824
  596980.90000 4121599.91000       0.00175    84.71    84.71     0.00  PERIOD  PM25_UM   00043824
  596981.71000 4121616.01000       0.00193    84.50    84.50     0.00  PERIOD  PM25_UM   00043824
  597439.36000 4121652.16000       0.03228    83.22    83.22     0.00  PERIOD  PM25_UM   00043824
  597444.23000 4121655.19000       0.02879    83.19    83.19     0.00  PERIOD  PM25_UM   00043824
  597340.42000 4121489.96000       0.02972    84.88    84.88     0.00  PERIOD  PM25_UM   00043824
  597340.76000 4121475.31000       0.02496    84.85    84.85     0.00  PERIOD  PM25_UM   00043824
** CONCUNIT ug/m^3
** DEPUNIT g/m^2
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* MODELING OPTIONS USED: RegDFAULT CONC ELEV URBAN ADJ_U*
* PLOT FILE OF PERIOD VALUES AVERAGED ACROSS 0 YEARS FOR SOURCE GROUP: DPM_T4
* FOR A TOTAL OF 556 RECEPTORS.
* FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

* X	Y	AVERAGE CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM HRS	NET ID
597214.99000	4121910.94000	0.00031	81.01	81.01	0.00	PERIOD	DPM_T4	00043824	
597174.30000	4121895.16000	0.00032	80.92	80.92	0.00	PERIOD	DPM_T4	00043824	
597174.78000	4121876.95000	0.00036	81.18	81.18	0.00	PERIOD	DPM_T4	00043824	
597117.48000	4121867.20000	0.00036	81.30	81.30	0.00	PERIOD	DPM_T4	00043824	
597215.50000	4121891.56000	0.00035	81.16	81.16	0.00	PERIOD	DPM_T4	00043824	
597285.36000	4121831.24000	0.00056	81.12	81.12	0.00	PERIOD	DPM_T4	00043824	
597355.16000	4121795.13000	0.00070	81.11	81.11	0.00	PERIOD	DPM_T4	00043824	
597351.76000	4121802.21000	0.00066	81.09	81.09	0.00	PERIOD	DPM_T4	00043824	
597348.22000	4121808.41000	0.00063	81.09	81.09	0.00	PERIOD	DPM_T4	00043824	
597289.67000	4121846.22000	0.00050	81.04	81.04	0.00	PERIOD	DPM_T4	00043824	
597333.00000	4121841.31000	0.00050	80.56	80.56	0.00	PERIOD	DPM_T4	00043824	
597326.27000	4121857.44000	0.00045	80.45	80.45	0.00	PERIOD	DPM_T4	00043824	
597316.91000	4121875.17000	0.00040	80.38	80.38	0.00	PERIOD	DPM_T4	00043824	
597283.12000	4121851.54000	0.00048	81.01	81.01	0.00	PERIOD	DPM_T4	00043824	
597283.26000	4121865.07000	0.00043	80.95	80.95	0.00	PERIOD	DPM_T4	00043824	
597283.73000	4121878.38000	0.00040	80.69	80.69	0.00	PERIOD	DPM_T4	00043824	
597284.24000	4121891.33000	0.00038	80.54	80.54	0.00	PERIOD	DPM_T4	00043824	
597298.51000	4121831.57000	0.00055	81.10	81.10	0.00	PERIOD	DPM_T4	00043824	
597306.39000	4121873.93000	0.00041	80.46	80.46	0.00	PERIOD	DPM_T4	00043824	
597312.31000	4121860.52000	0.00044	80.59	80.59	0.00	PERIOD	DPM_T4	00043824	
597319.49000	4121847.16000	0.00048	80.65	80.65	0.00	PERIOD	DPM_T4	00043824	
597312.07000	4121831.26000	0.00055	81.09	81.09	0.00	PERIOD	DPM_T4	00043824	
597299.58000	4121821.27000	0.00059	81.08	81.08	0.00	PERIOD	DPM_T4	00043824	
597289.97000	4121821.50000	0.00060	81.08	81.08	0.00	PERIOD	DPM_T4	00043824	
597359.22000	4121786.73000	0.00075	81.16	81.16	0.00	PERIOD	DPM_T4	00043824	
597174.28000	4121851.66000	0.00042	81.43	81.43	0.00	PERIOD	DPM_T4	00043824	
597118.70000	4121843.71000	0.00041	81.54	81.54	0.00	PERIOD	DPM_T4	00043824	
597217.21000	4121871.61000	0.00039	81.46	81.46	0.00	PERIOD	DPM_T4	00043824	
597176.06000	4121828.78000	0.00049	81.66	81.66	0.00	PERIOD	DPM_T4	00043824	
597119.93000	4121819.64000	0.00047	81.81	81.81	0.00	PERIOD	DPM_T4	00043824	
597281.31000	4121763.58000	0.00097	81.91	81.91	0.00	PERIOD	DPM_T4	00043824	
597281.25000	4121769.45000	0.00092	81.86	81.86	0.00	PERIOD	DPM_T4	00043824	
597281.43000	4121776.73000	0.00085	81.82	81.82	0.00	PERIOD	DPM_T4	00043824	
597281.62000	4121780.91000	0.00082	81.80	81.80	0.00	PERIOD	DPM_T4	00043824	
597281.92000	4121788.59000	0.00077	81.76	81.76	0.00	PERIOD	DPM_T4	00043824	
597281.79000	4121794.57000	0.00073	81.70	81.70	0.00	PERIOD	DPM_T4	00043824	
597215.34000	4121853.34000	0.00044	81.62	81.62	0.00	PERIOD	DPM_T4	00043824	
597297.44000	4121804.57000	0.00068	81.44	81.44	0.00	PERIOD	DPM_T4	00043824	
597304.54000	4121804.89000	0.00067	81.39	81.39	0.00	PERIOD	DPM_T4	00043824	
597313.26000	4121804.69000	0.00067	81.39	81.39	0.00	PERIOD	DPM_T4	00043824	
597329.33000	4121797.60000	0.00070	81.34	81.34	0.00	PERIOD	DPM_T4	00043824	
597334.14000	4121787.94000	0.00076	81.35	81.35	0.00	PERIOD	DPM_T4	00043824	
597119.87000	4121799.65000	0.00053	82.12	82.12	0.00	PERIOD	DPM_T4	00043824	
597176.61000	4121808.22000	0.00056	81.94	81.94	0.00	PERIOD	DPM_T4	00043824	
597365.97000	4121764.41000	0.00092	81.77	81.77	0.00	PERIOD	DPM_T4	00043824	
597355.12000	4121764.29000	0.00093	81.76	81.76	0.00	PERIOD	DPM_T4	00043824	
597332.49000	4121766.83000	0.00093	81.85	81.85	0.00	PERIOD	DPM_T4	00043824	
597325.65000	4121766.75000	0.00093	81.89	81.89	0.00	PERIOD	DPM_T4	00043824	
597081.14000	4121842.71000	0.00039	81.77	81.77	0.00	PERIOD	DPM_T4	00043824	
597318.63000	4121766.61000	0.00094	81.89	81.89	0.00	PERIOD	DPM_T4	00043824	
597312.80000	4121766.60000	0.00094	81.87	81.87	0.00	PERIOD	DPM_T4	00043824	
597305.30000	4121766.69000	0.00095	81.83	81.83	0.00	PERIOD	DPM_T4	00043824	
597299.18000	4121766.65000	0.00095	81.83	81.83	0.00	PERIOD	DPM_T4	00043824	
597394.20000	4121903.56000	0.00031	80.29	80.29	0.00	PERIOD	DPM_T4	00043824	
597215.30000	4121832.76000	0.00051	81.70	81.70	0.00	PERIOD	DPM_T4	00043824	
597446.30000	4121912.80000	0.00025	80.18	80.18	0.00	PERIOD	DPM_T4	00043824	
597177.12000	4121788.83000	0.00065	82.18	82.18	0.00	PERIOD	DPM_T4	00043824	
597120.97000	4121780.28000	0.00058	82.27	82.27	0.00	PERIOD	DPM_T4	00043824	
597401.13000	4121889.33000	0.00033	80.43	80.43	0.00	PERIOD	DPM_T4	00043824	
597294.38000	4121741.29000	0.00124	82.31	82.31	0.00	PERIOD	DPM_T4	00043824	

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597300.07000 4121746.76000       0.00117    82.25    82.25     0.00  PERIOD  DPM_T4    00043824
597308.18000 4121746.47000       0.00117    82.29    82.29     0.00  PERIOD  DPM_T4    00043824
597314.20000 4121745.02000       0.00118    82.34    82.34     0.00  PERIOD  DPM_T4    00043824
597317.75000 4121737.73000       0.00128    82.55    82.55     0.00  PERIOD  DPM_T4    00043824
597083.51000 4121819.85000       0.00043    82.04    82.04     0.00  PERIOD  DPM_T4    00043824
597174.70000 4121769.37000       0.00073    82.31    82.31     0.00  PERIOD  DPM_T4    00043824
597361.29000 4121748.78000       0.00109    82.41    82.41     0.00  PERIOD  DPM_T4    00043824
597355.06000 4121739.94000       0.00121    82.54    82.54     0.00  PERIOD  DPM_T4    00043824
597362.76000 4121739.85000       0.00120    82.54    82.54     0.00  PERIOD  DPM_T4    00043824
597369.95000 4121740.38000       0.00118    82.51    82.51     0.00  PERIOD  DPM_T4    00043824
597365.47000 4121754.88000       0.00101    82.30    82.30     0.00  PERIOD  DPM_T4    00043824
597359.34000 4121754.98000       0.00102    82.28    82.28     0.00  PERIOD  DPM_T4    00043824
597454.64000 4121894.68000       0.00027    80.38    80.38     0.00  PERIOD  DPM_T4    00043824
597214.65000 4121813.35000       0.00058    81.92    81.92     0.00  PERIOD  DPM_T4    00043824
597120.30000 4121761.46000       0.00063    82.38    82.38     0.00  PERIOD  DPM_T4    00043824
597413.31000 4121873.94000       0.00035    80.57    80.57     0.00  PERIOD  DPM_T4    00043824
597481.79000 4121907.20000       0.00023    80.04    80.04     0.00  PERIOD  DPM_T4    00043824
597175.22000 4121749.98000       0.00084    82.49    82.49     0.00  PERIOD  DPM_T4    00043824
597463.00000 4121875.26000       0.00029    80.57    80.57     0.00  PERIOD  DPM_T4    00043824
597420.34000 4121855.79000       0.00039    80.74    80.74     0.00  PERIOD  DPM_T4    00043824
597215.76000 4121793.39000       0.00068    82.26    82.26     0.00  PERIOD  DPM_T4    00043824
597492.66000 4121891.77000       0.00023    80.14    80.14     0.00  PERIOD  DPM_T4    00043824
597530.03000 4121913.72000       0.00017    79.87    79.87     0.00  PERIOD  DPM_T4    00043824
597083.47000 4121799.27000       0.00047    82.29    82.29     0.00  PERIOD  DPM_T4    00043824
597170.86000 4121715.18000       0.00100    82.73    82.73     0.00  PERIOD  DPM_T4    00043824
597475.19000 4121859.86000       0.00030    80.79    80.79     0.00  PERIOD  DPM_T4    00043824
597427.29000 4121840.25000       0.00042    80.95    80.95     0.00  PERIOD  DPM_T4    00043824
597500.96000 4121874.96000       0.00024    80.33    80.33     0.00  PERIOD  DPM_T4    00043824
597538.30000 4121898.22000       0.00018    79.98    79.98     0.00  PERIOD  DPM_T4    00043824
597142.33000 4121705.60000       0.00086    83.26    83.26     0.00  PERIOD  DPM_T4    00043824
597215.10000 4121773.97000       0.00079    82.50    82.50     0.00  PERIOD  DPM_T4    00043824
597082.81000 4121779.86000       0.00051    82.43    82.43     0.00  PERIOD  DPM_T4    00043824
597439.52000 4121823.55000       0.00045    81.01    81.01     0.00  PERIOD  DPM_T4    00043824
597027.94000 4121767.23000       0.00042    82.50    82.50     0.00  PERIOD  DPM_T4    00043824
597507.95000 4121858.12000       0.00026    80.43    80.43     0.00  PERIOD  DPM_T4    00043824
597546.52000 4121884.03000       0.00019    80.12    80.12     0.00  PERIOD  DPM_T4    00043824
597484.80000 4121843.09000       0.00032    80.97    80.97     0.00  PERIOD  DPM_T4    00043824
597119.88000 4121710.89000       0.00074    82.92    82.92     0.00  PERIOD  DPM_T4    00043824
597216.81000 4121754.03000       0.00093    82.66    82.66     0.00  PERIOD  DPM_T4    00043824
597449.09000 4121808.08000       0.00048    81.26    81.26     0.00  PERIOD  DPM_T4    00043824
597520.18000 4121841.41000       0.00027    80.58    80.58     0.00  PERIOD  DPM_T4    00043824
597558.85000 4121863.40000       0.00019    80.41    80.41     0.00  PERIOD  DPM_T4    00043824
597494.40000 4121826.32000       0.00034    81.17    81.17     0.00  PERIOD  DPM_T4    00043824
597080.96000 4121761.00000       0.00054    82.55    82.55     0.00  PERIOD  DPM_T4    00043824
597099.79000 4121715.64000       0.00065    82.84    82.84     0.00  PERIOD  DPM_T4    00043824
597030.91000 4121743.79000       0.00043    82.84    82.84     0.00  PERIOD  DPM_T4    00043824
597454.74000 4121792.52000       0.00053    81.43    81.43     0.00  PERIOD  DPM_T4    00043824
597525.82000 4121825.84000       0.00028    80.79    80.79     0.00  PERIOD  DPM_T4    00043824
597565.73000 4121850.48000       0.00020    80.62    80.62     0.00  PERIOD  DPM_T4    00043824
597498.74000 4121810.71000       0.00036    81.28    81.28     0.00  PERIOD  DPM_T4    00043824
597216.15000 4121734.61000       0.00109    82.91    82.91     0.00  PERIOD  DPM_T4    00043824
597080.23000 4121722.18000       0.00057    82.87    82.87     0.00  PERIOD  DPM_T4    00043824
597465.68000 4121774.47000       0.00058    81.67    81.67     0.00  PERIOD  DPM_T4    00043824
597029.08000 4121724.35000       0.00042    83.21    83.21     0.00  PERIOD  DPM_T4    00043824
597507.01000 4121795.22000       0.00039    81.54    81.54     0.00  PERIOD  DPM_T4    00043824
597532.92000 4121805.08000       0.00031    81.23    81.23     0.00  PERIOD  DPM_T4    00043824
597575.38000 4121832.40000       0.00021    80.86    80.86     0.00  PERIOD  DPM_T4    00043824
597213.72000 4121715.73000       0.00126    83.11    83.11     0.00  PERIOD  DPM_T4    00043824
597472.61000 4121760.24000       0.00063    81.82    81.82     0.00  PERIOD  DPM_T4    00043824
597516.58000 4121779.75000       0.00041    81.71    81.71     0.00  PERIOD  DPM_T4    00043824
597545.00000 4121793.60000       0.00032    81.37    81.37     0.00  PERIOD  DPM_T4    00043824
597584.98000 4121815.63000       0.00023    81.11    81.11     0.00  PERIOD  DPM_T4    00043824
597027.20000 4121706.66000       0.00041    83.59    83.59     0.00  PERIOD  DPM_T4    00043824
597527.49000 4121763.01000       0.00044    81.78    81.78     0.00  PERIOD  DPM_T4    00043824
597483.59000 4121740.89000       0.00070    82.04    82.04     0.00  PERIOD  DPM_T4    00043824
597554.61000 4121776.83000       0.00035    81.40    81.40     0.00  PERIOD  DPM_T4    00043824
597591.94000 4121800.09000       0.00025    81.19    81.19     0.00  PERIOD  DPM_T4    00043824
597113.24000 4121628.42000       0.00057    84.24    84.24     0.00  PERIOD  DPM_T4    00043824
597162.18000 4121630.71000       0.00091    84.09    84.09     0.00  PERIOD  DPM_T4    00043824
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597083.86000 4121627.64000       0.00045    84.45    84.45     0.00  PERIOD  DPM_T4    00043824
597442.91000 4121665.82000       0.00254    83.07    83.07     0.00  PERIOD  DPM_T4    00043824
597161.68000 4121612.54000       0.00081    84.37    84.37     0.00  PERIOD  DPM_T4    00043824
597083.41000 4121607.52000       0.00040    84.60    84.60     0.00  PERIOD  DPM_T4    00043824
597113.26000 4121609.29000       0.00051    84.41    84.41     0.00  PERIOD  DPM_T4    00043824
597436.40000 4121662.77000       0.00287    83.17    83.17     0.00  PERIOD  DPM_T4    00043824
597457.09000 4121633.33000       0.00435    83.49    83.49     0.00  PERIOD  DPM_T4    00043824
597163.18000 4121592.96000       0.00072    84.60    84.60     0.00  PERIOD  DPM_T4    00043824
597082.48000 4121587.38000       0.00035    84.77    84.77     0.00  PERIOD  DPM_T4    00043824
597114.73000 4121590.69000       0.00046    84.52    84.52     0.00  PERIOD  DPM_T4    00043824
597459.44000 4121627.00000       0.00499    83.54    83.54     0.00  PERIOD  DPM_T4    00043824
597463.40000 4121619.55000       0.00596    83.56    83.56     0.00  PERIOD  DPM_T4    00043824
597160.16000 4121577.67000       0.00062    84.85    84.85     0.00  PERIOD  DPM_T4    00043824
597077.08000 4121569.09000       0.00030    84.92    84.92     0.00  PERIOD  DPM_T4    00043824
597110.79000 4121572.93000       0.00039    84.79    84.79     0.00  PERIOD  DPM_T4    00043824
597469.01000 4121612.94000       0.00703    83.58    83.58     0.00  PERIOD  DPM_T4    00043824
597471.96000 4121605.78000       0.00883    83.59    83.59     0.00  PERIOD  DPM_T4    00043824
597531.52000 4121651.57000       0.00121    83.25    83.25     0.00  PERIOD  DPM_T4    00043824
597105.45000 4121552.68000       0.00033    84.89    84.89     0.00  PERIOD  DPM_T4    00043824
597069.73000 4121550.75000       0.00025    85.17    85.17     0.00  PERIOD  DPM_T4    00043824
597476.36000 4121598.36000       0.01055    83.58    83.58     0.00  PERIOD  DPM_T4    00043824
597539.15000 4121635.40000       0.00143    83.25    83.25     0.00  PERIOD  DPM_T4    00043824
597591.78000 4121649.24000       0.00074    82.91    82.91     0.00  PERIOD  DPM_T4    00043824
597478.70000 4121590.25000       0.01293    83.68    83.68     0.00  PERIOD  DPM_T4    00043824
597550.65000 4121621.29000       0.00161    83.14    83.14     0.00  PERIOD  DPM_T4    00043824
597595.49000 4121632.97000       0.00088    82.93    82.93     0.00  PERIOD  DPM_T4    00043824
597092.79000 4121531.25000       0.00025    85.20    85.20     0.00  PERIOD  DPM_T4    00043824
597062.39000 4121531.91000       0.00020    85.26    85.26     0.00  PERIOD  DPM_T4    00043824
597485.83000 4121580.27000       0.01450    83.83    83.83     0.00  PERIOD  DPM_T4    00043824
597559.60000 4121604.50000       0.00200    83.12    83.12     0.00  PERIOD  DPM_T4    00043824
597489.63000 4121573.73000       0.01551    83.87    83.87     0.00  PERIOD  DPM_T4    00043824
597603.82000 4121614.85000       0.00105    82.63    82.63     0.00  PERIOD  DPM_T4    00043824
597093.30000 4121512.13000       0.00022    85.62    85.62     0.00  PERIOD  DPM_T4    00043824
597565.92000 4121588.30000       0.00256    82.90    82.90     0.00  PERIOD  DPM_T4    00043824
597493.57000 4121566.36000       0.01658    83.90    83.90     0.00  PERIOD  DPM_T4    00043824
597005.78000 4121518.16000       0.00013    85.27    85.27     0.00  PERIOD  DPM_T4    00043824
597056.01000 4121514.08000       0.00017    85.48    85.48     0.00  PERIOD  DPM_T4    00043824
597609.43000 4121600.59000       0.00124    82.54    82.54     0.00  PERIOD  DPM_T4    00043824
597574.80000 4121574.12000       0.00300    82.75    82.75     0.00  PERIOD  DPM_T4    00043824
597507.34000 4121536.52000       0.02022    84.01    84.01     0.00  PERIOD  DPM_T4    00043824
597002.67000 4121495.82000       0.00011    85.55    85.55     0.00  PERIOD  DPM_T4    00043824
597622.27000 4121585.21000       0.00139    82.49    82.49     0.00  PERIOD  DPM_T4    00043824
597054.08000 4121494.41000       0.00015    85.73    85.73     0.00  PERIOD  DPM_T4    00043824
597759.44000 4121616.55000       0.00037    79.53    79.53     0.00  PERIOD  DPM_T4    00043824
597583.74000 4121557.99000       0.00357    82.77    82.77     0.00  PERIOD  DPM_T4    00043824
597524.51000 4121512.67000       0.02046    84.07    84.07     0.00  PERIOD  DPM_T4    00043824
597776.82000 4121602.60000       0.00038    78.89    78.89     0.00  PERIOD  DPM_T4    00043824
597592.64000 4121543.16000       0.00403    82.66    82.66     0.00  PERIOD  DPM_T4    00043824
597001.96000 4121476.01000       0.00010    85.74    85.74     0.00  PERIOD  DPM_T4    00043824
597628.61000 4121568.35000       0.00170    82.42    82.42     0.00  PERIOD  DPM_T4    00043824
597788.30000 4121589.15000       0.00040    78.44    78.44     0.00  PERIOD  DPM_T4    00043824
597337.24000 4121559.95000       0.00864    84.84    84.84     0.00  PERIOD  DPM_T4    00043824
597339.98000 4121525.89000       0.00491    84.84    84.84     0.00  PERIOD  DPM_T4    00043824
597349.04000 4121515.60000       0.00518    84.84    84.84     0.00  PERIOD  DPM_T4    00043824
597336.57000 4121515.86000       0.00406    84.84    84.84     0.00  PERIOD  DPM_T4    00043824
597636.88000 4121552.85000       0.00198    82.32    82.32     0.00  PERIOD  DPM_T4    00043824
597797.22000 4121573.67000       0.00044    78.14    79.85     0.00  PERIOD  DPM_T4    00043824
597597.00000 4121526.90000       0.00485    82.67    82.67     0.00  PERIOD  DPM_T4    00043824
597806.71000 4121561.48000       0.00046    77.85    79.72     0.00  PERIOD  DPM_T4    00043824
597650.99000 4121536.38000       0.00214    82.16    82.16     0.00  PERIOD  DPM_T4    00043824
597602.65000 4121511.33000       0.00554    82.73    82.73     0.00  PERIOD  DPM_T4    00043824
597818.20000 4121547.38000       0.00049    77.54    77.54     0.00  PERIOD  DPM_T4    00043824
597611.58000 4121495.20000       0.00596    82.73    82.73     0.00  PERIOD  DPM_T4    00043824
597827.03000 4121535.17000       0.00052    77.49    77.49     0.00  PERIOD  DPM_T4    00043824
597619.16000 4121480.99000       0.00628    82.74    82.74     0.00  PERIOD  DPM_T4    00043824
597664.90000 4121495.63000       0.00306    81.88    81.88     0.00  PERIOD  DPM_T4    00043824
597835.95000 4121519.69000       0.00057    77.58    77.58     0.00  PERIOD  DPM_T4    00043824
597677.83000 4121476.65000       0.00325    81.70    81.70     0.00  PERIOD  DPM_T4    00043824
597641.55000 4121447.35000       0.00641    82.63    82.63     0.00  PERIOD  DPM_T4    00043824
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597680.05000 4121503.90000       0.00237    81.63    81.63     0.00  PERIOD  DPM_T4    00043824
597672.14000 4121553.32000       0.00137    81.44    81.44     0.00  PERIOD  DPM_T4    00043824
597696.83000 4121512.53000       0.00181    81.39    81.39     0.00  PERIOD  DPM_T4    00043824
597685.62000 4121562.85000       0.00107    81.15    81.15     0.00  PERIOD  DPM_T4    00043824
597687.18000 4121457.26000       0.00352    81.39    81.39     0.00  PERIOD  DPM_T4    00043824
597713.28000 4121521.81000       0.00139    81.10    81.10     0.00  PERIOD  DPM_T4    00043824
597653.04000 4121430.58000       0.00625    81.85    81.85     0.00  PERIOD  DPM_T4    00043824
597700.40000 4121573.06000       0.00083    81.01    81.01     0.00  PERIOD  DPM_T4    00043824
597728.41000 4121530.72000       0.00110    80.88    80.88     0.00  PERIOD  DPM_T4    00043824
597715.19000 4121582.63000       0.00067    80.84    80.84     0.00  PERIOD  DPM_T4    00043824
597689.83000 4121443.57000       0.00382    81.13    81.13     0.00  PERIOD  DPM_T4    00043824
597235.97000 4121269.19000       0.00011    88.76    88.76     0.00  PERIOD  DPM_T4    00043824
597731.83000 4121596.82000       0.00052    80.61    80.61     0.00  PERIOD  DPM_T4    00043824
597225.79000 4121269.05000       0.00011    88.80    88.80     0.00  PERIOD  DPM_T4    00043824
597658.55000 4121414.75000       0.00633    81.49    81.49     0.00  PERIOD  DPM_T4    00043824
597751.09000 4121586.20000       0.00051    80.42    80.42     0.00  PERIOD  DPM_T4    00043824
597326.97000 4121268.69000       0.00020    88.30    88.30     0.00  PERIOD  DPM_T4    00043824
597305.72000 4121268.45000       0.00019    88.54    88.54     0.00  PERIOD  DPM_T4    00043824
597702.61000 4121430.81000       0.00368    81.03    81.03     0.00  PERIOD  DPM_T4    00043824
597214.01000 4121269.00000       0.00010    88.83    88.83     0.00  PERIOD  DPM_T4    00043824
597355.98000 4121272.90000       0.00023    88.38    88.38     0.00  PERIOD  DPM_T4    00043824
597758.77000 4121568.06000       0.00059    80.32    80.32     0.00  PERIOD  DPM_T4    00043824
597330.78000 4121260.77000       0.00019    88.30    88.30     0.00  PERIOD  DPM_T4    00043824
597235.90000 4121309.46000       0.00015    88.10    88.10     0.00  PERIOD  DPM_T4    00043824
597305.80000 4121259.12000       0.00018    88.67    88.67     0.00  PERIOD  DPM_T4    00043824
597205.42000 4121263.61000       0.00009    88.86    88.86     0.00  PERIOD  DPM_T4    00043824
597667.73000 4121400.64000       0.00596    81.19    81.19     0.00  PERIOD  DPM_T4    00043824
597230.08000 4121309.43000       0.00014    88.08    88.08     0.00  PERIOD  DPM_T4    00043824
597361.72000 4121266.33000       0.00023    88.49    88.49     0.00  PERIOD  DPM_T4    00043824
597765.09000 4121551.86000       0.00066    80.13    80.13     0.00  PERIOD  DPM_T4    00043824
597334.92000 4121253.01000       0.00019    88.32    88.32     0.00  PERIOD  DPM_T4    00043824
597220.77000 4121310.62000       0.00013    88.08    88.08     0.00  PERIOD  DPM_T4    00043824
597306.69000 4121250.30000       0.00017    88.78    88.78     0.00  PERIOD  DPM_T4    00043824
597205.55000 4121253.83000       0.00009    88.84    88.84     0.00  PERIOD  DPM_T4    00043824
597210.15000 4121311.79000       0.00012    88.08    88.08     0.00  PERIOD  DPM_T4    00043824
597365.70000 4121258.09000       0.00022    88.59    88.59     0.00  PERIOD  DPM_T4    00043824
597776.57000 4121538.41000       0.00070    79.88    79.88     0.00  PERIOD  DPM_T4    00043824
597708.60000 4121414.60000       0.00381    80.65    80.65     0.00  PERIOD  DPM_T4    00043824
597341.17000 4121245.32000       0.00018    88.36    88.36     0.00  PERIOD  DPM_T4    00043824
597199.35000 4121309.67000       0.00011    87.99    87.99     0.00  PERIOD  DPM_T4    00043824
597307.92000 4121240.83000       0.00016    88.88    88.88     0.00  PERIOD  DPM_T4    00043824
597746.17000 4121502.71000       0.00129    79.66    79.66     0.00  PERIOD  DPM_T4    00043824
597193.80000 4121309.52000       0.00011    87.96    87.96     0.00  PERIOD  DPM_T4    00043824
597368.73000 4121248.67000       0.00021    88.56    88.56     0.00  PERIOD  DPM_T4    00043824
597786.72000 4121525.58000       0.00075    79.47    79.47     0.00  PERIOD  DPM_T4    00043824
597205.99000 4121242.20000       0.00009    88.93    88.93     0.00  PERIOD  DPM_T4    00043824
597728.76000 4121493.07000       0.00166    80.16    80.16     0.00  PERIOD  DPM_T4    00043824
597676.38000 4121385.83000       0.00555    80.84    80.84     0.00  PERIOD  DPM_T4    00043824
597178.41000 4121310.20000       0.00010    87.99    87.99     0.00  PERIOD  DPM_T4    00043824
597308.47000 4121232.66000       0.00016    88.92    88.92     0.00  PERIOD  DPM_T4    00043824
597713.69000 4121481.54000       0.00215    80.54    80.54     0.00  PERIOD  DPM_T4    00043824
597167.42000 4121310.57000       0.00010    88.02    88.02     0.00  PERIOD  DPM_T4    00043824
597798.91000 4121510.19000       0.00080    78.45    78.45     0.00  PERIOD  DPM_T4    00043824
597732.01000 4121456.81000       0.00228    80.23    80.23     0.00  PERIOD  DPM_T4    00043824
597157.03000 4121308.00000       0.00009    88.06    88.06     0.00  PERIOD  DPM_T4    00043824
597722.38000 4121400.56000       0.00358    80.08    80.08     0.00  PERIOD  DPM_T4    00043824
597731.54000 4121437.81000       0.00266    80.41    80.41     0.00  PERIOD  DPM_T4    00043824
597150.57000 4121308.04000       0.00009    88.09    88.09     0.00  PERIOD  DPM_T4    00043824
597807.12000 4121496.65000       0.00085    77.65    77.65     0.00  PERIOD  DPM_T4    00043824
597754.47000 4121424.33000       0.00239    79.86    79.86     0.00  PERIOD  DPM_T4    00043824
597130.87000 4121314.58000       0.00008    88.14    88.14     0.00  PERIOD  DPM_T4    00043824
597225.45000 4121203.42000       0.00009    89.30    89.30     0.00  PERIOD  DPM_T4    00043824
597773.16000 4121459.54000       0.00155    77.99    77.99     0.00  PERIOD  DPM_T4    00043824
597684.69000 4121369.58000       0.00506    79.92    79.92     0.00  PERIOD  DPM_T4    00043824
597125.19000 4121309.13000       0.00008    88.13    88.13     0.00  PERIOD  DPM_T4    00043824
597819.89000 4121483.89000       0.00088    77.16    77.16     0.00  PERIOD  DPM_T4    00043824
597781.55000 4121439.46000       0.00171    78.04    79.73     0.00  PERIOD  DPM_T4    00043824
597116.49000 4121300.51000       0.00007    88.23    88.23     0.00  PERIOD  DPM_T4    00043824
597801.37000 4121432.13000       0.00154    77.66    77.66     0.00  PERIOD  DPM_T4    00043824
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597837.93000 4121469.96000       0.00087    76.95    76.95     0.00  PERIOD  DPM_T4    00043824
597721.84000 4121384.17000       0.00375    79.05    79.05     0.00  PERIOD  DPM_T4    00043824
597162.17000 4121271.30000       0.00008    88.60    88.60     0.00  PERIOD  DPM_T4    00043824
597691.71000 4121353.96000       0.00459    79.19    79.19     0.00  PERIOD  DPM_T4    00043824
597739.89000 4121369.91000       0.00334    78.51    78.51     0.00  PERIOD  DPM_T4    00043824
597162.23000 4121241.55000       0.00007    88.92    88.92     0.00  PERIOD  DPM_T4    00043824
597171.62000 4121219.16000       0.00006    89.33    89.33     0.00  PERIOD  DPM_T4    00043824
597159.33000 4121221.70000       0.00006    89.17    89.17     0.00  PERIOD  DPM_T4    00043824
597702.40000 4121339.03000       0.00408    79.07    79.07     0.00  PERIOD  DPM_T4    00043824
597712.71000 4121321.31000       0.00357    79.04    79.04     0.00  PERIOD  DPM_T4    00043824
597212.98000 4121596.32000       0.00127    84.48    84.48     0.00  PERIOD  DPM_T4    00043824
597305.73000 4121897.48000       0.00035    80.25    80.25     0.00  PERIOD  DPM_T4    00043824
597355.60000 4121436.22000       0.00179    85.51    85.51     0.00  PERIOD  DPM_T4    00043824
597102.33000 4121708.76000       0.00066    83.03    83.03     0.00  PERIOD  DPM_T4    00043824
597120.02000 4121705.99000       0.00074    83.12    83.12     0.00  PERIOD  DPM_T4    00043824
597851.50000 4121501.10000       0.00061    77.52    77.52     0.00  PERIOD  DPM_T4    00043824
597856.89000 4121435.90000       0.00101    77.39    77.39     0.00  PERIOD  DPM_T4    00043824
597850.11000 4121420.00000       0.00118    77.55    77.55     0.00  PERIOD  DPM_T4    00043824
597843.32000 4121404.75000       0.00137    77.64    77.64     0.00  PERIOD  DPM_T4    00043824
597832.54000 4121392.02000       0.00158    77.79    77.79     0.00  PERIOD  DPM_T4    00043824
597776.88000 4121418.05000       0.00205    77.85    79.80     0.00  PERIOD  DPM_T4    00043824
597821.17000 4121376.66000       0.00184    77.82    77.82     0.00  PERIOD  DPM_T4    00043824
597770.67000 4121405.77000       0.00232    77.84    77.84     0.00  PERIOD  DPM_T4    00043824
597298.81000 4121189.35000       0.00013    89.21    89.21     0.00  PERIOD  DPM_T4    00043824
597813.05000 4121362.03000       0.00204    78.10    78.10     0.00  PERIOD  DPM_T4    00043824
597302.67000 4121210.90000       0.00014    89.10    89.10     0.00  PERIOD  DPM_T4    00043824
597307.23000 4121186.79000       0.00013    89.14    89.14     0.00  PERIOD  DPM_T4    00043824
597802.35000 4121346.03000       0.00226    78.11    78.11     0.00  PERIOD  DPM_T4    00043824
597311.07000 4121214.72000       0.00014    89.07    89.07     0.00  PERIOD  DPM_T4    00043824
597761.69000 4121386.54000       0.00271    78.17    78.17     0.00  PERIOD  DPM_T4    00043824
597318.76000 4121183.81000       0.00013    89.00    89.00     0.00  PERIOD  DPM_T4    00043824
597782.98000 4121336.34000       0.00257    78.30    78.30     0.00  PERIOD  DPM_T4    00043824
597320.45000 4121218.57000       0.00015    89.01    89.01     0.00  PERIOD  DPM_T4    00043824
597329.43000 4121188.68000       0.00013    89.03    89.03     0.00  PERIOD  DPM_T4    00043824
597766.84000 4121328.06000       0.00280    78.43    78.43     0.00  PERIOD  DPM_T4    00043824
597745.12000 4121197.96000       0.00140    78.86    78.86     0.00  PERIOD  DPM_T4    00043824
597338.12000 4121194.15000       0.00014    89.05    89.05     0.00  PERIOD  DPM_T4    00043824
597752.32000 4121321.32000       0.00298    78.62    78.62     0.00  PERIOD  DPM_T4    00043824
597333.76000 4121222.53000       0.00016    88.94    88.94     0.00  PERIOD  DPM_T4    00043824
597343.75000 4121203.80000       0.00015    88.93    88.93     0.00  PERIOD  DPM_T4    00043824
597732.74000 4121325.45000       0.00332    78.75    78.75     0.00  PERIOD  DPM_T4    00043824
597341.48000 4121227.65000       0.00016    88.74    88.74     0.00  PERIOD  DPM_T4    00043824
597725.64000 4121183.56000       0.00119    79.02    79.02     0.00  PERIOD  DPM_T4    00043824
597355.24000 4121202.14000       0.00015    88.69    88.69     0.00  PERIOD  DPM_T4    00043824
597349.86000 4121232.45000       0.00018    88.64    88.64     0.00  PERIOD  DPM_T4    00043824
597703.31000 4121190.26000       0.00119    79.05    79.05     0.00  PERIOD  DPM_T4    00043824
597751.91000 4121641.57000       0.00032    80.43    80.43     0.00  PERIOD  DPM_T4    00043824
597727.48000 4121680.38000       0.00027    80.69    80.69     0.00  PERIOD  DPM_T4    00043824
597367.36000 4121232.59000       0.00019    88.58    88.58     0.00  PERIOD  DPM_T4    00043824
597707.10000 4121708.65000       0.00025    81.01    81.01     0.00  PERIOD  DPM_T4    00043824
597675.15000 4121753.65000       0.00022    81.19    81.19     0.00  PERIOD  DPM_T4    00043824
597375.41000 4121237.39000       0.00020    88.59    88.59     0.00  PERIOD  DPM_T4    00043824
597677.59000 4121180.12000       0.00099    79.33    79.33     0.00  PERIOD  DPM_T4    00043824
597735.78000 4121632.95000       0.00037    80.78    80.78     0.00  PERIOD  DPM_T4    00043824
597688.77000 4121698.32000       0.00028    81.28    81.28     0.00  PERIOD  DPM_T4    00043824
597677.38000 4121154.50000       0.00076    79.12    79.12     0.00  PERIOD  DPM_T4    00043824
597711.51000 4121665.87000       0.00032    80.84    80.84     0.00  PERIOD  DPM_T4    00043824
597663.11000 4121735.30000       0.00026    81.04    81.04     0.00  PERIOD  DPM_T4    00043824
597654.22000 4121777.98000       0.00023    81.50    81.50     0.00  PERIOD  DPM_T4    00043824
597383.64000 4121241.70000       0.00022    88.49    88.49     0.00  PERIOD  DPM_T4    00043824
597673.30000 4121692.01000       0.00032    81.39    81.39     0.00  PERIOD  DPM_T4    00043824
597647.55000 4121729.64000       0.00028    81.39    81.39     0.00  PERIOD  DPM_T4    00043824
597638.06000 4121770.35000       0.00025    81.66    81.66     0.00  PERIOD  DPM_T4    00043824
597396.51000 4121259.35000       0.00027    88.03    88.03     0.00  PERIOD  DPM_T4    00043824
597655.98000 4121190.01000       0.00099    79.41    79.41     0.00  PERIOD  DPM_T4    00043824
597722.41000 4121618.84000       0.00044    81.01    81.01     0.00  PERIOD  DPM_T4    00043824
597658.51000 4121682.45000       0.00037    81.82    81.82     0.00  PERIOD  DPM_T4    00043824
597695.72000 4121656.61000       0.00037    81.12    81.12     0.00  PERIOD  DPM_T4    00043824
597632.76000 4121720.08000       0.00032    81.67    81.67     0.00  PERIOD  DPM_T4    00043824
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597622.64000 4121760.11000       0.00028    81.79    81.79     0.00  PERIOD  DPM_T4    00043824
597647.00000 4121672.32000       0.00042    82.06    82.06     0.00  PERIOD  DPM_T4    00043824
597652.05000 4121153.42000       0.00067    79.06    79.06     0.00  PERIOD  DPM_T4    00043824
597607.13000 4121752.50000       0.00032    81.90    81.90     0.00  PERIOD  DPM_T4    00043824
597403.92000 4121265.83000       0.00031    88.03    88.03     0.00  PERIOD  DPM_T4    00043824
597636.81000 4121180.30000       0.00081    79.67    79.67     0.00  PERIOD  DPM_T4    00043824
597702.86000 4121615.70000       0.00051    81.31    81.31     0.00  PERIOD  DPM_T4    00043824
597680.29000 4121646.70000       0.00043    81.30    81.30     0.00  PERIOD  DPM_T4    00043824
597617.91000 4121712.48000       0.00037    81.93    81.93     0.00  PERIOD  DPM_T4    00043824
597592.32000 4121743.59000       0.00036    82.02    82.02     0.00  PERIOD  DPM_T4    00043824
597409.06000 4121273.21000       0.00034    87.98    87.98     0.00  PERIOD  DPM_T4    00043824
597629.53000 4121665.31000       0.00049    82.35    82.35     0.00  PERIOD  DPM_T4    00043824
597435.19000 4121287.68000       0.00050    87.68    87.68     0.00  PERIOD  DPM_T4    00043824
597630.74000 4121159.27000       0.00063    79.17    79.17     0.00  PERIOD  DPM_T4    00043824
597601.72000 4121706.16000       0.00042    82.27    82.27     0.00  PERIOD  DPM_T4    00043824
597579.54000 4121732.11000       0.00041    82.09    82.09     0.00  PERIOD  DPM_T4    00043824
597616.31000 4121186.84000       0.00077    79.75    79.75     0.00  PERIOD  DPM_T4    00043824
597622.82000 4121117.91000       0.00041    79.16    79.16     0.00  PERIOD  DPM_T4    00043824
597689.36000 4121606.83000       0.00061    81.53    81.53     0.00  PERIOD  DPM_T4    00043824
597614.05000 4121656.38000       0.00059    82.79    82.79     0.00  PERIOD  DPM_T4    00043824
597428.71000 4121293.82000       0.00050    87.85    87.85     0.00  PERIOD  DPM_T4    00043824
597666.07000 4121639.77000       0.00050    81.42    81.42     0.00  PERIOD  DPM_T4    00043824
597586.24000 4121697.89000       0.00049    82.66    82.66     0.00  PERIOD  DPM_T4    00043824
597563.40000 4121723.83000       0.00048    82.23    82.23     0.00  PERIOD  DPM_T4    00043824
597383.79000 4121267.40000       0.00027    87.98    87.98     0.00  PERIOD  DPM_T4    00043824
597606.75000 4121162.85000       0.00057    79.23    79.23     0.00  PERIOD  DPM_T4    00043824
597569.46000 4121688.93000       0.00059    82.86    82.86     0.00  PERIOD  DPM_T4    00043824
597548.59000 4121714.92000       0.00056    82.27    82.27     0.00  PERIOD  DPM_T4    00043824
597593.88000 4121193.88000       0.00072    79.91    79.91     0.00  PERIOD  DPM_T4    00043824
597672.89000 4121586.41000       0.00088    81.74    81.74     0.00  PERIOD  DPM_T4    00043824
597641.88000 4121633.07000       0.00063    82.34    82.34     0.00  PERIOD  DPM_T4    00043824
597552.09000 4121677.98000       0.00074    83.02    83.02     0.00  PERIOD  DPM_T4    00043824
597533.11000 4121706.65000       0.00067    82.18    82.18     0.00  PERIOD  DPM_T4    00043824
597286.43000 4121704.17000       0.00190    83.12    83.12     0.00  PERIOD  DPM_T4    00043824
597286.53000 4121683.38000       0.00253    83.07    83.07     0.00  PERIOD  DPM_T4    00043824
597299.17000 4121683.23000       0.00263    83.02    83.02     0.00  PERIOD  DPM_T4    00043824
597321.23000 4121712.51000       0.00177    83.18    83.18     0.00  PERIOD  DPM_T4    00043824
597317.86000 4121684.63000       0.00266    82.99    82.99     0.00  PERIOD  DPM_T4    00043824
597330.62000 4121691.43000       0.00240    82.95    82.95     0.00  PERIOD  DPM_T4    00043824
597344.40000 4121693.37000       0.00232    82.95    82.95     0.00  PERIOD  DPM_T4    00043824
597359.94000 4121696.38000       0.00218    82.99    82.99     0.00  PERIOD  DPM_T4    00043824
597354.33000 4121714.88000       0.00167    82.96    82.96     0.00  PERIOD  DPM_T4    00043824
597354.00000 4121720.68000       0.00154    82.92    82.92     0.00  PERIOD  DPM_T4    00043824
597366.48000 4121721.45000       0.00150    82.83    82.83     0.00  PERIOD  DPM_T4    00043824
597384.98000 4121721.87000       0.00143    82.72    82.72     0.00  PERIOD  DPM_T4    00043824
597399.74000 4121707.07000       0.00168    82.50    82.50     0.00  PERIOD  DPM_T4    00043824
597408.21000 4121333.29000       0.00065    87.73    87.73     0.00  PERIOD  DPM_T4    00043824
597582.19000 4121158.09000       0.00046    79.32    79.32     0.00  PERIOD  DPM_T4    00043824
597643.65000 4121615.76000       0.00076    82.41    82.41     0.00  PERIOD  DPM_T4    00043824
597529.40000 4121670.18000       0.00098    83.17    83.17     0.00  PERIOD  DPM_T4    00043824
597522.43000 4121689.99000       0.00084    82.47    82.47     0.00  PERIOD  DPM_T4    00043824
597570.90000 4121186.46000       0.00057    80.26    80.26     0.00  PERIOD  DPM_T4    00043824
597654.66000 4121595.10000       0.00090    82.33    82.33     0.00  PERIOD  DPM_T4    00043824
597398.68000 4121322.89000       0.00051    87.89    87.89     0.00  PERIOD  DPM_T4    00043824
597500.69000 4121695.31000       0.00097    82.28    82.28     0.00  PERIOD  DPM_T4    00043824
597398.21000 4121291.11000       0.00037    87.96    87.96     0.00  PERIOD  DPM_T4    00043824
597389.74000 4121326.58000       0.00049    87.97    87.97     0.00  PERIOD  DPM_T4    00043824
597561.65000 4121148.18000       0.00036    79.33    79.33     0.00  PERIOD  DPM_T4    00043824
597389.45000 4121293.60000       0.00035    88.06    88.06     0.00  PERIOD  DPM_T4    00043824
597551.51000 4121174.67000       0.00044    80.46    80.46     0.00  PERIOD  DPM_T4    00043824
597380.13000 4121331.23000       0.00047    87.93    87.93     0.00  PERIOD  DPM_T4    00043824
597427.69000 4121632.86000       0.00632    83.12    83.12     0.00  PERIOD  DPM_T4    00043824
597416.78000 4121660.68000       0.00351    83.01    83.01     0.00  PERIOD  DPM_T4    00043824
597426.51000 4121655.17000       0.00369    83.15    83.15     0.00  PERIOD  DPM_T4    00043824
597429.13000 4121648.78000       0.00418    83.16    83.16     0.00  PERIOD  DPM_T4    00043824
597432.79000 4121641.90000       0.00477    83.17    83.17     0.00  PERIOD  DPM_T4    00043824
597421.30000 4121632.30000       0.00677    83.11    83.11     0.00  PERIOD  DPM_T4    00043824
597434.76000 4121633.17000       0.00582    83.16    83.16     0.00  PERIOD  DPM_T4    00043824
597414.22000 4121632.28000       0.00709    83.09    83.09     0.00  PERIOD  DPM_T4    00043824
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597406.53000 4121632.01000       0.00739    83.06    83.06     0.00  PERIOD  DPM_T4    00043824
597401.86000 4121645.27000       0.00549    83.03    83.03     0.00  PERIOD  DPM_T4    00043824
597398.78000 4121654.58000       0.00445    82.96    82.96     0.00  PERIOD  DPM_T4    00043824
597411.03000 4121658.32000       0.00384    83.03    83.03     0.00  PERIOD  DPM_T4    00043824
597380.72000 4121295.98000       0.00033    88.09    88.09     0.00  PERIOD  DPM_T4    00043824
597398.08000 4121397.86000       0.00181    86.48    86.48     0.00  PERIOD  DPM_T4    00043824
597370.88000 4121334.59000       0.00044    87.99    87.99     0.00  PERIOD  DPM_T4    00043824
597540.51000 4121137.88000       0.00029    79.44    79.44     0.00  PERIOD  DPM_T4    00043824
597383.34000 4121631.98000       0.00776    83.26    83.26     0.00  PERIOD  DPM_T4    00043824
597383.31000 4121637.31000       0.00693    83.19    83.19     0.00  PERIOD  DPM_T4    00043824
597389.40000 4121632.61000       0.00763    83.21    83.21     0.00  PERIOD  DPM_T4    00043824
597388.65000 4121637.17000       0.00692    83.16    83.16     0.00  PERIOD  DPM_T4    00043824
597363.76000 4121294.06000       0.00029    88.19    88.19     0.00  PERIOD  DPM_T4    00043824
597530.71000 4121167.25000       0.00035    80.53    80.53     0.00  PERIOD  DPM_T4    00043824
597384.36000 4121397.92000       0.00134    86.45    86.45     0.00  PERIOD  DPM_T4    00043824
597400.44000 4121366.00000       0.00097    87.05    87.05     0.00  PERIOD  DPM_T4    00043824
597362.36000 4121322.90000       0.00037    88.05    88.05     0.00  PERIOD  DPM_T4    00043824
597360.20000 4121632.21000       0.00753    83.32    83.32     0.00  PERIOD  DPM_T4    00043824
597366.70000 4121638.29000       0.00675    83.22    83.22     0.00  PERIOD  DPM_T4    00043824
597359.87000 4121638.85000       0.00662    83.27    83.27     0.00  PERIOD  DPM_T4    00043824
597366.56000 4121632.25000       0.00760    83.29    83.29     0.00  PERIOD  DPM_T4    00043824
597399.35000 4121345.34000       0.00069    87.56    87.56     0.00  PERIOD  DPM_T4    00043824
597355.17000 4121290.88000       0.00027    88.28    88.28     0.00  PERIOD  DPM_T4    00043824
597372.23000 4121397.32000       0.00106    86.55    86.55     0.00  PERIOD  DPM_T4    00043824
597396.08000 4121382.26000       0.00121    86.85    86.85     0.00  PERIOD  DPM_T4    00043824
597347.27000 4121329.65000       0.00034    88.08    88.08     0.00  PERIOD  DPM_T4    00043824
597522.10000 4121125.22000       0.00023    79.67    79.67     0.00  PERIOD  DPM_T4    00043824
597346.14000 4121638.66000       0.00647    83.30    83.30     0.00  PERIOD  DPM_T4    00043824
597380.87000 4121351.40000       0.00060    87.24    87.24     0.00  PERIOD  DPM_T4    00043824
597346.12000 4121286.88000       0.00024    88.24    88.24     0.00  PERIOD  DPM_T4    00043824
597509.61000 4121156.40000       0.00027    80.74    80.74     0.00  PERIOD  DPM_T4    00043824
597360.31000 4121397.29000       0.00088    86.59    86.59     0.00  PERIOD  DPM_T4    00043824
597368.19000 4121385.45000       0.00082    86.92    86.92     0.00  PERIOD  DPM_T4    00043824
597348.22000 4121318.53000       0.00032    88.13    88.13     0.00  PERIOD  DPM_T4    00043824
597310.62000 4121634.10000       0.00619    83.47    83.47     0.00  PERIOD  DPM_T4    00043824
597364.05000 4121344.08000       0.00046    87.60    87.60     0.00  PERIOD  DPM_T4    00043824
597328.32000 4121291.97000       0.00023    88.25    88.25     0.00  PERIOD  DPM_T4    00043824
597345.01000 4121396.38000       0.00070    86.85    86.85     0.00  PERIOD  DPM_T4    00043824
597346.41000 4121380.28000       0.00058    87.00    87.00     0.00  PERIOD  DPM_T4    00043824
597323.73000 4121329.35000       0.00029    88.10    88.10     0.00  PERIOD  DPM_T4    00043824
597296.46000 4121633.94000       0.00574    83.48    83.48     0.00  PERIOD  DPM_T4    00043824
597347.29000 4121347.23000       0.00041    87.50    87.50     0.00  PERIOD  DPM_T4    00043824
597319.58000 4121288.47000       0.00022    88.22    88.22     0.00  PERIOD  DPM_T4    00043824
597490.83000 4121144.96000       0.00022    81.01    81.01     0.00  PERIOD  DPM_T4    00043824
597333.92000 4121396.09000       0.00061    86.99    86.99     0.00  PERIOD  DPM_T4    00043824
597331.17000 4121375.29000       0.00047    86.97    86.97     0.00  PERIOD  DPM_T4    00043824
597322.03000 4121319.15000       0.00027    88.12    88.12     0.00  PERIOD  DPM_T4    00043824
597329.20000 4121350.68000       0.00036    87.38    87.38     0.00  PERIOD  DPM_T4    00043824
597311.17000 4121284.64000       0.00021    88.24    88.24     0.00  PERIOD  DPM_T4    00043824
597318.38000 4121396.24000       0.00052    86.91    86.91     0.00  PERIOD  DPM_T4    00043824
597312.93000 4121384.31000       0.00044    87.23    87.23     0.00  PERIOD  DPM_T4    00043824
597305.06000 4121330.16000       0.00027    87.92    87.92     0.00  PERIOD  DPM_T4    00043824
597312.70000 4121343.70000       0.00031    87.67    87.67     0.00  PERIOD  DPM_T4    00043824
597301.94000 4121281.45000       0.00020    88.45    88.45     0.00  PERIOD  DPM_T4    00043824
597476.60000 4121128.31000       0.00018    81.08    81.08     0.00  PERIOD  DPM_T4    00043824
597307.71000 4121396.38000       0.00048    86.93    86.93     0.00  PERIOD  DPM_T4    00043824
597295.42000 4121378.28000       0.00037    87.16    87.16     0.00  PERIOD  DPM_T4    00043824
597306.31000 4121320.04000       0.00025    88.08    88.08     0.00  PERIOD  DPM_T4    00043824
597295.89000 4121348.49000       0.00029    87.53    87.53     0.00  PERIOD  DPM_T4    00043824
597232.16000 4121486.68000       0.00059    86.06    86.06     0.00  PERIOD  DPM_T4    00043824
597535.15000 4121491.78000       0.02139    84.25    84.25     0.00  PERIOD  DPM_T4    00043824
597234.27000 4121502.92000       0.00071    85.81    85.81     0.00  PERIOD  DPM_T4    00043824
597235.30000 4121426.24000       0.00033    86.62    86.62     0.00  PERIOD  DPM_T4    00043824
597235.51000 4121395.16000       0.00026    87.06    87.06     0.00  PERIOD  DPM_T4    00043824
597219.55000 4121695.31000       0.00153    83.34    83.34     0.00  PERIOD  DPM_T4    00043824
597231.70000 4121554.43000       0.00112    85.02    85.02     0.00  PERIOD  DPM_T4    00043824
597237.31000 4121357.54000       0.00019    87.57    87.57     0.00  PERIOD  DPM_T4    00043824
597205.20000 4121610.57000       0.00130    84.56    84.56     0.00  PERIOD  DPM_T4    00043824
597220.62000 4121614.77000       0.00170    84.37    84.37     0.00  PERIOD  DPM_T4    00043824
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597205.55000 4121621.83000       0.00143    84.50    84.50     0.00  PERIOD  DPM_T4    00043824
597214.44000 4121480.32000       0.00045    86.13    86.13     0.00  PERIOD  DPM_T4    00043824
597213.56000 4121510.58000       0.00061    85.67    85.67     0.00  PERIOD  DPM_T4    00043824
597214.87000 4121438.05000       0.00030    86.24    86.24     0.00  PERIOD  DPM_T4    00043824
597218.09000 4121400.49000       0.00023    87.08    87.08     0.00  PERIOD  DPM_T4    00043824
597548.54000 4121464.55000       0.02201    84.24    84.24     0.00  PERIOD  DPM_T4    00043824
597217.20000 4121351.46000       0.00016    87.49    87.49     0.00  PERIOD  DPM_T4    00043824
597199.22000 4121686.54000       0.00140    83.54    83.54     0.00  PERIOD  DPM_T4    00043824
597209.07000 4121544.15000       0.00080    84.94    84.94     0.00  PERIOD  DPM_T4    00043824
597196.70000 4121474.94000       0.00036    86.13    86.13     0.00  PERIOD  DPM_T4    00043824
597185.52000 4121614.60000       0.00105    84.45    84.45     0.00  PERIOD  DPM_T4    00043824
597214.18000 4121584.85000       0.00117    84.50    84.50     0.00  PERIOD  DPM_T4    00043824
597214.01000 4121579.16000       0.00111    84.64    84.64     0.00  PERIOD  DPM_T4    00043824
597188.98000 4121603.51000       0.00101    84.47    84.47     0.00  PERIOD  DPM_T4    00043824
597188.74000 4121593.44000       0.00093    84.51    84.51     0.00  PERIOD  DPM_T4    00043824
597190.61000 4121575.81000       0.00083    84.82    84.82     0.00  PERIOD  DPM_T4    00043824
597201.64000 4121578.66000       0.00096    84.67    84.67     0.00  PERIOD  DPM_T4    00043824
597194.52000 4121501.58000       0.00046    85.87    85.87     0.00  PERIOD  DPM_T4    00043824
597198.60000 4121414.53000       0.00022    86.67    86.67     0.00  PERIOD  DPM_T4    00043824
597196.97000 4121404.24000       0.00020    87.05    87.05     0.00  PERIOD  DPM_T4    00043824
597197.99000 4121344.81000       0.00014    87.60    87.60     0.00  PERIOD  DPM_T4    00043824
597190.78000 4121550.04000       0.00069    85.01    85.01     0.00  PERIOD  DPM_T4    00043824
597177.24000 4121469.54000       0.00029    86.07    86.07     0.00  PERIOD  DPM_T4    00043824
597176.56000 4121495.22000       0.00036    85.89    85.89     0.00  PERIOD  DPM_T4    00043824
597180.51000 4121419.42000       0.00020    86.52    86.52     0.00  PERIOD  DPM_T4    00043824
597180.89000 4121395.27000       0.00017    87.19    87.19     0.00  PERIOD  DPM_T4    00043824
597181.22000 4121679.01000       0.00123    83.57    83.57     0.00  PERIOD  DPM_T4    00043824
597178.33000 4121337.59000       0.00012    87.74    87.74     0.00  PERIOD  DPM_T4    00043824
597161.56000 4121426.16000       0.00018    86.31    86.31     0.00  PERIOD  DPM_T4    00043824
597162.04000 4121671.44000       0.00104    83.57    83.57     0.00  PERIOD  DPM_T4    00043824
597171.98000 4121556.90000       0.00060    85.17    85.17     0.00  PERIOD  DPM_T4    00043824
597160.23000 4121464.42000       0.00024    85.93    85.93     0.00  PERIOD  DPM_T4    00043824
597158.09000 4121507.97000       0.00035    85.58    85.58     0.00  PERIOD  DPM_T4    00043824
597160.91000 4121385.35000       0.00014    86.99    86.99     0.00  PERIOD  DPM_T4    00043824
597160.62000 4121355.63000       0.00012    87.37    87.37     0.00  PERIOD  DPM_T4    00043824
597150.75000 4121544.56000       0.00045    84.87    84.87     0.00  PERIOD  DPM_T4    00043824
597140.82000 4121484.74000       0.00025    86.10    86.10     0.00  PERIOD  DPM_T4    00043824
597139.63000 4121502.08000       0.00028    85.58    85.58     0.00  PERIOD  DPM_T4    00043824
597144.02000 4121430.79000       0.00017    86.22    86.22     0.00  PERIOD  DPM_T4    00043824
597219.40000 4121265.07000       0.00010    88.79    88.79     0.00  PERIOD  DPM_T4    00043824
597144.47000 4121403.43000       0.00014    87.11    87.11     0.00  PERIOD  DPM_T4    00043824
597142.19000 4121689.14000       0.00088    83.63    83.63     0.00  PERIOD  DPM_T4    00043824
597141.97000 4121348.12000       0.00010    87.48    87.48     0.00  PERIOD  DPM_T4    00043824
597123.82000 4121479.13000       0.00021    86.10    86.10     0.00  PERIOD  DPM_T4    00043824
597117.76000 4121495.13000       0.00023    85.82    85.82     0.00  PERIOD  DPM_T4    00043824
597125.62000 4121436.21000       0.00015    86.08    86.08     0.00  PERIOD  DPM_T4    00043824
597127.28000 4121394.11000       0.00012    87.19    87.19     0.00  PERIOD  DPM_T4    00043824
597120.25000 4121675.04000       0.00073    83.66    83.66     0.00  PERIOD  DPM_T4    00043824
597122.27000 4121342.93000       0.00009    87.57    87.57     0.00  PERIOD  DPM_T4    00043824
597106.09000 4121473.27000       0.00018    86.00    86.00     0.00  PERIOD  DPM_T4    00043824
597107.40000 4121415.33000       0.00012    86.52    86.52     0.00  PERIOD  DPM_T4    00043824
597106.51000 4121383.16000       0.00010    86.92    86.92     0.00  PERIOD  DPM_T4    00043824
597101.23000 4121683.35000       0.00064    83.77    83.77     0.00  PERIOD  DPM_T4    00043824
597088.35000 4121467.91000       0.00015    85.93    85.93     0.00  PERIOD  DPM_T4    00043824
597103.81000 4121336.55000       0.00008    87.82    87.82     0.00  PERIOD  DPM_T4    00043824
597088.77000 4121420.74000       0.00011    86.32    86.32     0.00  PERIOD  DPM_T4    00043824
597089.75000 4121403.58000       0.00010    87.04    87.04     0.00  PERIOD  DPM_T4    00043824
597079.36000 4121688.65000       0.00055    83.67    83.67     0.00  PERIOD  DPM_T4    00043824
597070.38000 4121461.79000       0.00013    85.72    85.72     0.00  PERIOD  DPM_T4    00043824
597069.87000 4121425.06000       0.00011    86.13    86.13     0.00  PERIOD  DPM_T4    00043824
597073.28000 4121387.58000       0.00009    86.80    86.80     0.00  PERIOD  DPM_T4    00043824
597036.12000 4121680.44000       0.00040    83.87    83.87     0.00  PERIOD  DPM_T4    00043824
597048.15000 4121477.86000       0.00013    85.85    85.85     0.00  PERIOD  DPM_T4    00043824
597050.44000 4121429.92000       0.00010    86.03    86.03     0.00  PERIOD  DPM_T4    00043824
597049.47000 4121395.83000       0.00008    86.74    86.74     0.00  PERIOD  DPM_T4    00043824
597039.56000 4121624.35000       0.00032    84.45    84.45     0.00  PERIOD  DPM_T4    00043824
597017.02000 4121669.94000       0.00034    83.88    83.88     0.00  PERIOD  DPM_T4    00043824
597018.97000 4121631.84000       0.00029    84.38    84.38     0.00  PERIOD  DPM_T4    00043824
597036.43000 4121602.62000       0.00028    84.75    84.75     0.00  PERIOD  DPM_T4    00043824
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  596997.51000 4121674.71000       0.00031    83.87    83.87     0.00  PERIOD  DPM_T4    00043824
  597017.49000 4121594.69000       0.00023    84.71    84.71     0.00  PERIOD  DPM_T4    00043824
  597001.29000 4121623.33000       0.00025    84.48    84.48     0.00  PERIOD  DPM_T4    00043824
  597016.59000 4121553.08000       0.00018    84.97    84.97     0.00  PERIOD  DPM_T4    00043824
  597001.02000 4121586.83000       0.00020    84.57    84.57     0.00  PERIOD  DPM_T4    00043824
  596993.98000 4121543.82000       0.00015    85.07    85.07     0.00  PERIOD  DPM_T4    00043824
  596979.16000 4121680.10000       0.00028    83.83    83.83     0.00  PERIOD  DPM_T4    00043824
  596980.90000 4121599.91000       0.00019    84.71    84.71     0.00  PERIOD  DPM_T4    00043824
  596981.71000 4121616.01000       0.00021    84.50    84.50     0.00  PERIOD  DPM_T4    00043824
  597439.36000 4121652.16000       0.00348    83.22    83.22     0.00  PERIOD  DPM_T4    00043824
  597444.23000 4121655.19000       0.00309    83.19    83.19     0.00  PERIOD  DPM_T4    00043824
  597340.42000 4121489.96000       0.00327    84.88    84.88     0.00  PERIOD  DPM_T4    00043824
  597340.76000 4121475.31000       0.00274    84.85    84.85     0.00  PERIOD  DPM_T4    00043824
** CONCUNIT ug/m^3
** DEPUNIT g/m^2
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* MODELING OPTIONS USED: RegDFAULT CONC ELEV URBAN ADJ_U*
* PLOT FILE OF PERIOD VALUES AVERAGED ACROSS 0 YEARS FOR SOURCE GROUP: PM25_T4
* FOR A TOTAL OF 556 RECEPTORS.
* FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

* X	Y	AVERAGE CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM HRS	NET ID
597214.99000	4121910.94000	0.00198	81.01	81.01	0.00	PERIOD	PM25_T4	00043824	
597174.30000	4121895.16000	0.00184	80.92	80.92	0.00	PERIOD	PM25_T4	00043824	
597174.78000	4121876.95000	0.00203	81.18	81.18	0.00	PERIOD	PM25_T4	00043824	
597117.48000	4121867.20000	0.00191	81.30	81.30	0.00	PERIOD	PM25_T4	00043824	
597215.50000	4121891.56000	0.00224	81.16	81.16	0.00	PERIOD	PM25_T4	00043824	
597285.36000	4121831.24000	0.00431	81.12	81.12	0.00	PERIOD	PM25_T4	00043824	
597355.16000	4121795.13000	0.00405	81.11	81.11	0.00	PERIOD	PM25_T4	00043824	
597351.76000	4121802.21000	0.00387	81.09	81.09	0.00	PERIOD	PM25_T4	00043824	
597348.22000	4121808.41000	0.00372	81.09	81.09	0.00	PERIOD	PM25_T4	00043824	
597289.67000	4121846.22000	0.00386	81.04	81.04	0.00	PERIOD	PM25_T4	00043824	
597333.00000	4121841.31000	0.00309	80.56	80.56	0.00	PERIOD	PM25_T4	00043824	
597326.27000	4121857.44000	0.00283	80.45	80.45	0.00	PERIOD	PM25_T4	00043824	
597316.91000	4121875.17000	0.00258	80.38	80.38	0.00	PERIOD	PM25_T4	00043824	
597283.12000	4121851.54000	0.00344	81.01	81.01	0.00	PERIOD	PM25_T4	00043824	
597283.26000	4121865.07000	0.00290	80.95	80.95	0.00	PERIOD	PM25_T4	00043824	
597283.73000	4121878.38000	0.00281	80.69	80.69	0.00	PERIOD	PM25_T4	00043824	
597284.24000	4121891.33000	0.00299	80.54	80.54	0.00	PERIOD	PM25_T4	00043824	
597298.51000	4121831.57000	0.00392	81.10	81.10	0.00	PERIOD	PM25_T4	00043824	
597306.39000	4121873.93000	0.00280	80.46	80.46	0.00	PERIOD	PM25_T4	00043824	
597312.31000	4121860.52000	0.00299	80.59	80.59	0.00	PERIOD	PM25_T4	00043824	
597319.49000	4121847.16000	0.00315	80.65	80.65	0.00	PERIOD	PM25_T4	00043824	
597312.07000	4121831.26000	0.00363	81.09	81.09	0.00	PERIOD	PM25_T4	00043824	
597299.58000	4121821.27000	0.00412	81.08	81.08	0.00	PERIOD	PM25_T4	00043824	
597289.97000	4121821.50000	0.00438	81.08	81.08	0.00	PERIOD	PM25_T4	00043824	
597359.22000	4121786.73000	0.00429	81.16	81.16	0.00	PERIOD	PM25_T4	00043824	
597174.28000	4121851.66000	0.00234	81.43	81.43	0.00	PERIOD	PM25_T4	00043824	
597118.70000	4121843.71000	0.00216	81.54	81.54	0.00	PERIOD	PM25_T4	00043824	
597217.21000	4121871.61000	0.00253	81.46	81.46	0.00	PERIOD	PM25_T4	00043824	
597176.06000	4121828.78000	0.00270	81.66	81.66	0.00	PERIOD	PM25_T4	00043824	
597119.93000	4121819.64000	0.00246	81.81	81.81	0.00	PERIOD	PM25_T4	00043824	
597281.31000	4121763.58000	0.00600	81.91	81.91	0.00	PERIOD	PM25_T4	00043824	
597281.25000	4121769.45000	0.00589	81.86	81.86	0.00	PERIOD	PM25_T4	00043824	
597281.43000	4121776.73000	0.00517	81.82	81.82	0.00	PERIOD	PM25_T4	00043824	
597281.62000	4121780.91000	0.00503	81.80	81.80	0.00	PERIOD	PM25_T4	00043824	
597281.92000	4121788.59000	0.00488	81.76	81.76	0.00	PERIOD	PM25_T4	00043824	
597281.79000	4121794.57000	0.00484	81.70	81.70	0.00	PERIOD	PM25_T4	00043824	
597215.34000	4121853.34000	0.00275	81.62	81.62	0.00	PERIOD	PM25_T4	00043824	
597297.44000	4121804.57000	0.00462	81.44	81.44	0.00	PERIOD	PM25_T4	00043824	
597304.54000	4121804.89000	0.00445	81.39	81.39	0.00	PERIOD	PM25_T4	00043824	
597313.26000	4121804.69000	0.00429	81.39	81.39	0.00	PERIOD	PM25_T4	00043824	
597329.33000	4121797.60000	0.00426	81.34	81.34	0.00	PERIOD	PM25_T4	00043824	
597334.14000	4121787.94000	0.00452	81.35	81.35	0.00	PERIOD	PM25_T4	00043824	
597119.87000	4121799.65000	0.00272	82.12	82.12	0.00	PERIOD	PM25_T4	00043824	
597176.61000	4121808.22000	0.00307	81.94	81.94	0.00	PERIOD	PM25_T4	00043824	
597365.97000	4121764.41000	0.00515	81.77	81.77	0.00	PERIOD	PM25_T4	00043824	
597355.12000	4121764.29000	0.00527	81.76	81.76	0.00	PERIOD	PM25_T4	00043824	
597332.49000	4121766.83000	0.00541	81.85	81.85	0.00	PERIOD	PM25_T4	00043824	
597325.65000	4121766.75000	0.00551	81.89	81.89	0.00	PERIOD	PM25_T4	00043824	
597081.14000	4121842.71000	0.00200	81.77	81.77	0.00	PERIOD	PM25_T4	00043824	
597318.63000	4121766.61000	0.00562	81.89	81.89	0.00	PERIOD	PM25_T4	00043824	
597312.80000	4121766.60000	0.00571	81.87	81.87	0.00	PERIOD	PM25_T4	00043824	
597305.30000	4121766.69000	0.00585	81.83	81.83	0.00	PERIOD	PM25_T4	00043824	
597299.18000	4121766.65000	0.00598	81.83	81.83	0.00	PERIOD	PM25_T4	00043824	
597394.20000	4121903.56000	0.00165	80.29	80.29	0.00	PERIOD	PM25_T4	00043824	
597215.30000	4121832.76000	0.00309	81.70	81.70	0.00	PERIOD	PM25_T4	00043824	
597446.30000	4121912.80000	0.00135	80.18	80.18	0.00	PERIOD	PM25_T4	00043824	
597177.12000	4121788.83000	0.00347	82.18	82.18	0.00	PERIOD	PM25_T4	00043824	
597120.97000	4121780.28000	0.00300	82.27	82.27	0.00	PERIOD	PM25_T4	00043824	
597401.13000	4121889.33000	0.00179	80.43	80.43	0.00	PERIOD	PM25_T4	00043824	
597294.38000	4121741.29000	0.00757	82.31	82.31	0.00	PERIOD	PM25_T4	00043824	

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597300.07000 4121746.76000       0.00707    82.25    82.25     0.00  PERIOD  PM25_T4   00043824
597308.18000 4121746.47000       0.00693    82.29    82.29     0.00  PERIOD  PM25_T4   00043824
597314.20000 4121745.02000       0.00693    82.34    82.34     0.00  PERIOD  PM25_T4   00043824
597317.75000 4121737.73000       0.00740    82.55    82.55     0.00  PERIOD  PM25_T4   00043824
597083.51000 4121819.85000       0.00223    82.04    82.04     0.00  PERIOD  PM25_T4   00043824
597174.70000 4121769.37000       0.00389    82.31    82.31     0.00  PERIOD  PM25_T4   00043824
597361.29000 4121748.78000       0.00607    82.41    82.41     0.00  PERIOD  PM25_T4   00043824
597355.06000 4121739.94000       0.00675    82.54    82.54     0.00  PERIOD  PM25_T4   00043824
597362.76000 4121739.85000       0.00666    82.54    82.54     0.00  PERIOD  PM25_T4   00043824
597369.95000 4121740.38000       0.00654    82.51    82.51     0.00  PERIOD  PM25_T4   00043824
597365.47000 4121754.88000       0.00566    82.30    82.30     0.00  PERIOD  PM25_T4   00043824
597359.34000 4121754.98000       0.00572    82.28    82.28     0.00  PERIOD  PM25_T4   00043824
597454.64000 4121894.68000       0.00146    80.38    80.38     0.00  PERIOD  PM25_T4   00043824
597214.65000 4121813.35000       0.00346    81.92    81.92     0.00  PERIOD  PM25_T4   00043824
597120.30000 4121761.46000       0.00326    82.38    82.38     0.00  PERIOD  PM25_T4   00043824
597413.31000 4121873.94000       0.00192    80.57    80.57     0.00  PERIOD  PM25_T4   00043824
597481.79000 4121907.20000       0.00122    80.04    80.04     0.00  PERIOD  PM25_T4   00043824
597175.22000 4121749.98000       0.00440    82.49    82.49     0.00  PERIOD  PM25_T4   00043824
597463.00000 4121875.26000       0.00160    80.57    80.57     0.00  PERIOD  PM25_T4   00043824
597420.34000 4121855.79000       0.00213    80.74    80.74     0.00  PERIOD  PM25_T4   00043824
597215.76000 4121793.39000       0.00395    82.26    82.26     0.00  PERIOD  PM25_T4   00043824
597492.66000 4121891.77000       0.00128    80.14    80.14     0.00  PERIOD  PM25_T4   00043824
597530.03000 4121913.72000       0.00096    79.87    79.87     0.00  PERIOD  PM25_T4   00043824
597083.47000 4121799.27000       0.00243    82.29    82.29     0.00  PERIOD  PM25_T4   00043824
597170.86000 4121715.18000       0.00518    82.73    82.73     0.00  PERIOD  PM25_T4   00043824
597475.19000 4121859.86000       0.00168    80.79    80.79     0.00  PERIOD  PM25_T4   00043824
597427.29000 4121840.25000       0.00233    80.95    80.95     0.00  PERIOD  PM25_T4   00043824
597500.96000 4121874.96000       0.00137    80.33    80.33     0.00  PERIOD  PM25_T4   00043824
597538.30000 4121898.22000       0.00101    79.98    79.98     0.00  PERIOD  PM25_T4   00043824
597142.33000 4121705.60000       0.00440    83.26    83.26     0.00  PERIOD  PM25_T4   00043824
597215.10000 4121773.97000       0.00449    82.50    82.50     0.00  PERIOD  PM25_T4   00043824
597082.81000 4121779.86000       0.00260    82.43    82.43     0.00  PERIOD  PM25_T4   00043824
597439.52000 4121823.55000       0.00252    81.01    81.01     0.00  PERIOD  PM25_T4   00043824
597027.94000 4121767.23000       0.00211    82.50    82.50     0.00  PERIOD  PM25_T4   00043824
597507.95000 4121858.12000       0.00148    80.43    80.43     0.00  PERIOD  PM25_T4   00043824
597546.52000 4121884.03000       0.00106    80.12    80.12     0.00  PERIOD  PM25_T4   00043824
597484.80000 4121843.09000       0.00181    80.97    80.97     0.00  PERIOD  PM25_T4   00043824
597119.88000 4121710.89000       0.00375    82.92    82.92     0.00  PERIOD  PM25_T4   00043824
597216.81000 4121754.03000       0.00523    82.66    82.66     0.00  PERIOD  PM25_T4   00043824
597449.09000 4121808.08000       0.00273    81.26    81.26     0.00  PERIOD  PM25_T4   00043824
597520.18000 4121841.41000       0.00158    80.58    80.58     0.00  PERIOD  PM25_T4   00043824
597558.85000 4121863.40000       0.00117    80.41    80.41     0.00  PERIOD  PM25_T4   00043824
597494.40000 4121826.32000       0.00196    81.17    81.17     0.00  PERIOD  PM25_T4   00043824
597080.96000 4121761.00000       0.00273    82.55    82.55     0.00  PERIOD  PM25_T4   00043824
597099.79000 4121715.64000       0.00327    82.84    82.84     0.00  PERIOD  PM25_T4   00043824
597030.91000 4121743.79000       0.00218    82.84    82.84     0.00  PERIOD  PM25_T4   00043824
597454.74000 4121792.52000       0.00303    81.43    81.43     0.00  PERIOD  PM25_T4   00043824
597525.82000 4121825.84000       0.00174    80.79    80.79     0.00  PERIOD  PM25_T4   00043824
597565.73000 4121850.48000       0.00126    80.62    80.62     0.00  PERIOD  PM25_T4   00043824
597498.74000 4121810.71000       0.00217    81.28    81.28     0.00  PERIOD  PM25_T4   00043824
597216.15000 4121734.61000       0.00602    82.91    82.91     0.00  PERIOD  PM25_T4   00043824
597080.23000 4121722.18000       0.00289    82.87    82.87     0.00  PERIOD  PM25_T4   00043824
597465.68000 4121774.47000       0.00339    81.67    81.67     0.00  PERIOD  PM25_T4   00043824
597029.08000 4121724.35000       0.00214    83.21    83.21     0.00  PERIOD  PM25_T4   00043824
597507.01000 4121795.22000       0.00239    81.54    81.54     0.00  PERIOD  PM25_T4   00043824
597532.92000 4121805.08000       0.00204    81.23    81.23     0.00  PERIOD  PM25_T4   00043824
597575.38000 4121832.40000       0.00146    80.86    80.86     0.00  PERIOD  PM25_T4   00043824
597213.72000 4121715.73000       0.00681    83.11    83.11     0.00  PERIOD  PM25_T4   00043824
597472.61000 4121760.24000       0.00379    81.82    81.82     0.00  PERIOD  PM25_T4   00043824
597516.58000 4121779.75000       0.00272    81.71    81.71     0.00  PERIOD  PM25_T4   00043824
597545.00000 4121793.60000       0.00226    81.37    81.37     0.00  PERIOD  PM25_T4   00043824
597584.98000 4121815.63000       0.00177    81.11    81.11     0.00  PERIOD  PM25_T4   00043824
597027.20000 4121706.66000       0.00206    83.59    83.59     0.00  PERIOD  PM25_T4   00043824
597527.49000 4121763.01000       0.00336    81.78    81.78     0.00  PERIOD  PM25_T4   00043824
597483.59000 4121740.89000       0.00461    82.04    82.04     0.00  PERIOD  PM25_T4   00043824
597554.61000 4121776.83000       0.00291    81.40    81.40     0.00  PERIOD  PM25_T4   00043824
597591.94000 4121800.09000       0.00230    81.19    81.19     0.00  PERIOD  PM25_T4   00043824
597113.24000 4121628.42000       0.00291    84.24    84.24     0.00  PERIOD  PM25_T4   00043824
597162.18000 4121630.71000       0.00466    84.09    84.09     0.00  PERIOD  PM25_T4   00043824
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597083.86000 4121627.64000       0.00229    84.45    84.45     0.00  PERIOD  PM25_T4   00043824
597442.91000 4121665.82000       0.01413    83.07    83.07     0.00  PERIOD  PM25_T4   00043824
597161.68000 4121612.54000       0.00415    84.37    84.37     0.00  PERIOD  PM25_T4   00043824
597083.41000 4121607.52000       0.00204    84.60    84.60     0.00  PERIOD  PM25_T4   00043824
597113.26000 4121609.29000       0.00262    84.41    84.41     0.00  PERIOD  PM25_T4   00043824
597436.40000 4121662.77000       0.01573    83.17    83.17     0.00  PERIOD  PM25_T4   00043824
597457.09000 4121633.33000       0.02211    83.49    83.49     0.00  PERIOD  PM25_T4   00043824
597163.18000 4121592.96000       0.00371    84.60    84.60     0.00  PERIOD  PM25_T4   00043824
597082.48000 4121587.38000       0.00180    84.77    84.77     0.00  PERIOD  PM25_T4   00043824
597114.73000 4121590.69000       0.00237    84.52    84.52     0.00  PERIOD  PM25_T4   00043824
597459.44000 4121627.00000       0.02510    83.54    83.54     0.00  PERIOD  PM25_T4   00043824
597463.40000 4121619.55000       0.02971    83.56    83.56     0.00  PERIOD  PM25_T4   00043824
597160.16000 4121577.67000       0.00326    84.85    84.85     0.00  PERIOD  PM25_T4   00043824
597077.08000 4121569.09000       0.00154    84.92    84.92     0.00  PERIOD  PM25_T4   00043824
597110.79000 4121572.93000       0.00205    84.79    84.79     0.00  PERIOD  PM25_T4   00043824
597469.01000 4121612.94000       0.03478    83.58    83.58     0.00  PERIOD  PM25_T4   00043824
597471.96000 4121605.78000       0.04341    83.59    83.59     0.00  PERIOD  PM25_T4   00043824
597531.52000 4121651.57000       0.00671    83.25    83.25     0.00  PERIOD  PM25_T4   00043824
597105.45000 4121552.68000       0.00171    84.89    84.89     0.00  PERIOD  PM25_T4   00043824
597069.73000 4121550.75000       0.00129    85.17    85.17     0.00  PERIOD  PM25_T4   00043824
597476.36000 4121598.36000       0.05169    83.58    83.58     0.00  PERIOD  PM25_T4   00043824
597539.15000 4121635.40000       0.00762    83.25    83.25     0.00  PERIOD  PM25_T4   00043824
597591.78000 4121649.24000       0.00418    82.91    82.91     0.00  PERIOD  PM25_T4   00043824
597478.70000 4121590.25000       0.06310    83.68    83.68     0.00  PERIOD  PM25_T4   00043824
597550.65000 4121621.29000       0.00838    83.14    83.14     0.00  PERIOD  PM25_T4   00043824
597595.49000 4121632.97000       0.00477    82.93    82.93     0.00  PERIOD  PM25_T4   00043824
597092.79000 4121531.25000       0.00134    85.20    85.20     0.00  PERIOD  PM25_T4   00043824
597062.39000 4121531.91000       0.00108    85.26    85.26     0.00  PERIOD  PM25_T4   00043824
597485.83000 4121580.27000       0.07063    83.83    83.83     0.00  PERIOD  PM25_T4   00043824
597559.60000 4121604.50000       0.01019    83.12    83.12     0.00  PERIOD  PM25_T4   00043824
597489.63000 4121573.73000       0.07550    83.87    83.87     0.00  PERIOD  PM25_T4   00043824
597603.82000 4121614.85000       0.00554    82.63    82.63     0.00  PERIOD  PM25_T4   00043824
597093.30000 4121512.13000       0.00117    85.62    85.62     0.00  PERIOD  PM25_T4   00043824
597565.92000 4121588.30000       0.01285    82.90    82.90     0.00  PERIOD  PM25_T4   00043824
597493.57000 4121566.36000       0.08063    83.90    83.90     0.00  PERIOD  PM25_T4   00043824
597005.78000 4121518.16000       0.00070    85.27    85.27     0.00  PERIOD  PM25_T4   00043824
597056.01000 4121514.08000       0.00092    85.48    85.48     0.00  PERIOD  PM25_T4   00043824
597609.43000 4121600.59000       0.00641    82.54    82.54     0.00  PERIOD  PM25_T4   00043824
597574.80000 4121574.12000       0.01493    82.75    82.75     0.00  PERIOD  PM25_T4   00043824
597507.34000 4121536.52000       0.09807    84.01    84.01     0.00  PERIOD  PM25_T4   00043824
597002.67000 4121495.82000       0.00061    85.55    85.55     0.00  PERIOD  PM25_T4   00043824
597622.27000 4121585.21000       0.00711    82.49    82.49     0.00  PERIOD  PM25_T4   00043824
597054.08000 4121494.41000       0.00080    85.73    85.73     0.00  PERIOD  PM25_T4   00043824
597759.44000 4121616.55000       0.00204    79.53    79.53     0.00  PERIOD  PM25_T4   00043824
597583.74000 4121557.99000       0.01761    82.77    82.77     0.00  PERIOD  PM25_T4   00043824
597524.51000 4121512.67000       0.09917    84.07    84.07     0.00  PERIOD  PM25_T4   00043824
597776.82000 4121602.60000       0.00206    78.89    78.89     0.00  PERIOD  PM25_T4   00043824
597592.64000 4121543.16000       0.01981    82.66    82.66     0.00  PERIOD  PM25_T4   00043824
597001.96000 4121476.01000       0.00055    85.74    85.74     0.00  PERIOD  PM25_T4   00043824
597628.61000 4121568.35000       0.00858    82.42    82.42     0.00  PERIOD  PM25_T4   00043824
597788.30000 4121589.15000       0.00215    78.44    78.44     0.00  PERIOD  PM25_T4   00043824
597337.24000 4121559.95000       0.04261    84.84    84.84     0.00  PERIOD  PM25_T4   00043824
597339.98000 4121525.89000       0.02450    84.84    84.84     0.00  PERIOD  PM25_T4   00043824
597349.04000 4121515.60000       0.02571    84.84    84.84     0.00  PERIOD  PM25_T4   00043824
597336.57000 4121515.86000       0.02042    84.84    84.84     0.00  PERIOD  PM25_T4   00043824
597636.88000 4121552.85000       0.00986    82.32    82.32     0.00  PERIOD  PM25_T4   00043824
597797.22000 4121573.67000       0.00231    78.14    79.85     0.00  PERIOD  PM25_T4   00043824
597597.00000 4121526.90000       0.02375    82.67    82.67     0.00  PERIOD  PM25_T4   00043824
597806.71000 4121561.48000       0.00242    77.85    79.72     0.00  PERIOD  PM25_T4   00043824
597650.99000 4121536.38000       0.01065    82.16    82.16     0.00  PERIOD  PM25_T4   00043824
597602.65000 4121511.33000       0.02705    82.73    82.73     0.00  PERIOD  PM25_T4   00043824
597818.20000 4121547.38000       0.00255    77.54    77.54     0.00  PERIOD  PM25_T4   00043824
597611.58000 4121495.20000       0.02904    82.73    82.73     0.00  PERIOD  PM25_T4   00043824
597827.03000 4121535.17000       0.00269    77.49    77.49     0.00  PERIOD  PM25_T4   00043824
597619.16000 4121480.99000       0.03060    82.74    82.74     0.00  PERIOD  PM25_T4   00043824
597664.90000 4121495.63000       0.01503    81.88    81.88     0.00  PERIOD  PM25_T4   00043824
597835.95000 4121519.69000       0.00291    77.58    77.58     0.00  PERIOD  PM25_T4   00043824
597677.83000 4121476.65000       0.01590    81.70    81.70     0.00  PERIOD  PM25_T4   00043824
597641.55000 4121447.35000       0.03119    82.63    82.63     0.00  PERIOD  PM25_T4   00043824
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597680.05000 4121503.90000       0.01167    81.63    81.63     0.00  PERIOD  PM25_T4   00043824
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597696.83000 4121512.53000       0.00897    81.39    81.39     0.00  PERIOD  PM25_T4   00043824
597685.62000 4121562.85000       0.00544    81.15    81.15     0.00  PERIOD  PM25_T4   00043824
597687.18000 4121457.26000       0.01719    81.39    81.39     0.00  PERIOD  PM25_T4   00043824
597713.28000 4121521.81000       0.00695    81.10    81.10     0.00  PERIOD  PM25_T4   00043824
597653.04000 4121430.58000       0.03038    81.85    81.85     0.00  PERIOD  PM25_T4   00043824
597700.40000 4121573.06000       0.00430    81.01    81.01     0.00  PERIOD  PM25_T4   00043824
597728.41000 4121530.72000       0.00555    80.88    80.88     0.00  PERIOD  PM25_T4   00043824
597715.19000 4121582.63000       0.00351    80.84    80.84     0.00  PERIOD  PM25_T4   00043824
597689.83000 4121443.57000       0.01864    81.13    81.13     0.00  PERIOD  PM25_T4   00043824
597235.97000 4121269.19000       0.00108    88.76    88.76     0.00  PERIOD  PM25_T4   00043824
597731.83000 4121596.82000       0.00277    80.61    80.61     0.00  PERIOD  PM25_T4   00043824
597225.79000 4121269.05000       0.00116    88.80    88.80     0.00  PERIOD  PM25_T4   00043824
597658.55000 4121414.75000       0.03074    81.49    81.49     0.00  PERIOD  PM25_T4   00043824
597751.09000 4121586.20000       0.00271    80.42    80.42     0.00  PERIOD  PM25_T4   00043824
597326.97000 4121268.69000       0.00184    88.30    88.30     0.00  PERIOD  PM25_T4   00043824
597305.72000 4121268.45000       0.00214    88.54    88.54     0.00  PERIOD  PM25_T4   00043824
597702.61000 4121430.81000       0.01794    81.03    81.03     0.00  PERIOD  PM25_T4   00043824
597214.01000 4121269.00000       0.00095    88.83    88.83     0.00  PERIOD  PM25_T4   00043824
597355.98000 4121272.90000       0.00174    88.38    88.38     0.00  PERIOD  PM25_T4   00043824
597758.77000 4121568.06000       0.00305    80.32    80.32     0.00  PERIOD  PM25_T4   00043824
597330.78000 4121260.77000       0.00176    88.30    88.30     0.00  PERIOD  PM25_T4   00043824
597235.90000 4121309.46000       0.00154    88.10    88.10     0.00  PERIOD  PM25_T4   00043824
597305.80000 4121259.12000       0.00209    88.67    88.67     0.00  PERIOD  PM25_T4   00043824
597205.42000 4121263.61000       0.00084    88.86    88.86     0.00  PERIOD  PM25_T4   00043824
597667.73000 4121400.64000       0.02897    81.19    81.19     0.00  PERIOD  PM25_T4   00043824
597230.08000 4121309.43000       0.00138    88.08    88.08     0.00  PERIOD  PM25_T4   00043824
597361.72000 4121266.33000       0.00168    88.49    88.49     0.00  PERIOD  PM25_T4   00043824
597765.09000 4121551.86000       0.00341    80.13    80.13     0.00  PERIOD  PM25_T4   00043824
597334.92000 4121253.01000       0.00168    88.32    88.32     0.00  PERIOD  PM25_T4   00043824
597220.77000 4121310.62000       0.00119    88.08    88.08     0.00  PERIOD  PM25_T4   00043824
597306.69000 4121250.30000       0.00202    88.78    88.78     0.00  PERIOD  PM25_T4   00043824
597205.55000 4121253.83000       0.00082    88.84    88.84     0.00  PERIOD  PM25_T4   00043824
597210.15000 4121311.79000       0.00103    88.08    88.08     0.00  PERIOD  PM25_T4   00043824
597365.70000 4121258.09000       0.00161    88.59    88.59     0.00  PERIOD  PM25_T4   00043824
597776.57000 4121538.41000       0.00360    79.88    79.88     0.00  PERIOD  PM25_T4   00043824
597708.60000 4121414.60000       0.01858    80.65    80.65     0.00  PERIOD  PM25_T4   00043824
597341.17000 4121245.32000       0.00159    88.36    88.36     0.00  PERIOD  PM25_T4   00043824
597199.35000 4121309.67000       0.00090    87.99    87.99     0.00  PERIOD  PM25_T4   00043824
597307.92000 4121240.83000       0.00195    88.88    88.88     0.00  PERIOD  PM25_T4   00043824
597746.17000 4121502.71000       0.00642    79.66    79.66     0.00  PERIOD  PM25_T4   00043824
597193.80000 4121309.52000       0.00085    87.96    87.96     0.00  PERIOD  PM25_T4   00043824
597368.73000 4121248.67000       0.00155    88.56    88.56     0.00  PERIOD  PM25_T4   00043824
597786.72000 4121525.58000       0.00379    79.47    79.47     0.00  PERIOD  PM25_T4   00043824
597205.99000 4121242.20000       0.00080    88.93    88.93     0.00  PERIOD  PM25_T4   00043824
597728.76000 4121493.07000       0.00822    80.16    80.16     0.00  PERIOD  PM25_T4   00043824
597676.38000 4121385.83000       0.02695    80.84    80.84     0.00  PERIOD  PM25_T4   00043824
597178.41000 4121310.20000       0.00074    87.99    87.99     0.00  PERIOD  PM25_T4   00043824
597308.47000 4121232.66000       0.00190    88.92    88.92     0.00  PERIOD  PM25_T4   00043824
597713.69000 4121481.54000       0.01057    80.54    80.54     0.00  PERIOD  PM25_T4   00043824
597167.42000 4121310.57000       0.00067    88.02    88.02     0.00  PERIOD  PM25_T4   00043824
597798.91000 4121510.19000       0.00402    78.45    78.45     0.00  PERIOD  PM25_T4   00043824
597732.01000 4121456.81000       0.01118    80.23    80.23     0.00  PERIOD  PM25_T4   00043824
597157.03000 4121308.00000       0.00062    88.06    88.06     0.00  PERIOD  PM25_T4   00043824
597722.38000 4121400.56000       0.01744    80.08    80.08     0.00  PERIOD  PM25_T4   00043824
597731.54000 4121437.81000       0.01304    80.41    80.41     0.00  PERIOD  PM25_T4   00043824
597150.57000 4121308.04000       0.00059    88.09    88.09     0.00  PERIOD  PM25_T4   00043824
597807.12000 4121496.65000       0.00429    77.65    77.65     0.00  PERIOD  PM25_T4   00043824
597754.47000 4121424.33000       0.01170    79.86    79.86     0.00  PERIOD  PM25_T4   00043824
597130.87000 4121314.58000       0.00053    88.14    88.14     0.00  PERIOD  PM25_T4   00043824
597225.45000 4121203.42000       0.00101    89.30    89.30     0.00  PERIOD  PM25_T4   00043824
597773.16000 4121459.54000       0.00766    77.99    77.99     0.00  PERIOD  PM25_T4   00043824
597684.69000 4121369.58000       0.02459    79.92    79.92     0.00  PERIOD  PM25_T4   00043824
597125.19000 4121309.13000       0.00050    88.13    88.13     0.00  PERIOD  PM25_T4   00043824
597819.89000 4121483.89000       0.00439    77.16    77.16     0.00  PERIOD  PM25_T4   00043824
597781.55000 4121439.46000       0.00840    78.04    79.73     0.00  PERIOD  PM25_T4   00043824
597116.49000 4121300.51000       0.00046    88.23    88.23     0.00  PERIOD  PM25_T4   00043824
597801.37000 4121432.13000       0.00760    77.66    77.66     0.00  PERIOD  PM25_T4   00043824
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597837.93000 4121469.96000       0.00437    76.95    76.95     0.00  PERIOD  PM25_T4   00043824
597721.84000 4121384.17000       0.01829    79.05    79.05     0.00  PERIOD  PM25_T4   00043824
597162.17000 4121271.30000       0.00056    88.60    88.60     0.00  PERIOD  PM25_T4   00043824
597691.71000 4121353.96000       0.02233    79.19    79.19     0.00  PERIOD  PM25_T4   00043824
597739.89000 4121369.91000       0.01627    78.51    78.51     0.00  PERIOD  PM25_T4   00043824
597162.23000 4121241.55000       0.00050    88.92    88.92     0.00  PERIOD  PM25_T4   00043824
597171.62000 4121219.16000       0.00050    89.33    89.33     0.00  PERIOD  PM25_T4   00043824
597159.33000 4121221.70000       0.00045    89.17    89.17     0.00  PERIOD  PM25_T4   00043824
597702.40000 4121339.03000       0.01983    79.07    79.07     0.00  PERIOD  PM25_T4   00043824
597712.71000 4121321.31000       0.01739    79.04    79.04     0.00  PERIOD  PM25_T4   00043824
597212.98000 4121596.32000       0.00673    84.48    84.48     0.00  PERIOD  PM25_T4   00043824
597305.73000 4121897.48000       0.00223    80.25    80.25     0.00  PERIOD  PM25_T4   00043824
597355.60000 4121436.22000       0.00930    85.51    85.51     0.00  PERIOD  PM25_T4   00043824
597102.33000 4121708.76000       0.00334    83.03    83.03     0.00  PERIOD  PM25_T4   00043824
597120.02000 4121705.99000       0.00377    83.12    83.12     0.00  PERIOD  PM25_T4   00043824
597851.50000 4121501.10000       0.00310    77.52    77.52     0.00  PERIOD  PM25_T4   00043824
597856.89000 4121435.90000       0.00501    77.39    77.39     0.00  PERIOD  PM25_T4   00043824
597850.11000 4121420.00000       0.00585    77.55    77.55     0.00  PERIOD  PM25_T4   00043824
597843.32000 4121404.75000       0.00673    77.64    77.64     0.00  PERIOD  PM25_T4   00043824
597832.54000 4121392.02000       0.00776    77.79    77.79     0.00  PERIOD  PM25_T4   00043824
597776.88000 4121418.05000       0.01007    77.85    79.80     0.00  PERIOD  PM25_T4   00043824
597821.17000 4121376.66000       0.00899    77.82    77.82     0.00  PERIOD  PM25_T4   00043824
597770.67000 4121405.77000       0.01134    77.84    77.84     0.00  PERIOD  PM25_T4   00043824
597298.81000 4121189.35000       0.00190    89.21    89.21     0.00  PERIOD  PM25_T4   00043824
597813.05000 4121362.03000       0.00999    78.10    78.10     0.00  PERIOD  PM25_T4   00043824
597302.67000 4121210.90000       0.00192    89.10    89.10     0.00  PERIOD  PM25_T4   00043824
597307.23000 4121186.79000       0.00171    89.14    89.14     0.00  PERIOD  PM25_T4   00043824
597802.35000 4121346.03000       0.01106    78.11    78.11     0.00  PERIOD  PM25_T4   00043824
597311.07000 4121214.72000       0.00177    89.07    89.07     0.00  PERIOD  PM25_T4   00043824
597761.69000 4121386.54000       0.01326    78.17    78.17     0.00  PERIOD  PM25_T4   00043824
597318.76000 4121183.81000       0.00151    89.00    89.00     0.00  PERIOD  PM25_T4   00043824
597782.98000 4121336.34000       0.01252    78.30    78.30     0.00  PERIOD  PM25_T4   00043824
597320.45000 4121218.57000       0.00164    89.01    89.01     0.00  PERIOD  PM25_T4   00043824
597329.43000 4121188.68000       0.00141    89.03    89.03     0.00  PERIOD  PM25_T4   00043824
597766.84000 4121328.06000       0.01364    78.43    78.43     0.00  PERIOD  PM25_T4   00043824
597745.12000 4121197.96000       0.00684    78.86    78.86     0.00  PERIOD  PM25_T4   00043824
597338.12000 4121194.15000       0.00136    89.05    89.05     0.00  PERIOD  PM25_T4   00043824
597752.32000 4121321.32000       0.01451    78.62    78.62     0.00  PERIOD  PM25_T4   00043824
597333.76000 4121222.53000       0.00152    88.94    88.94     0.00  PERIOD  PM25_T4   00043824
597343.75000 4121203.80000       0.00136    88.93    88.93     0.00  PERIOD  PM25_T4   00043824
597732.74000 4121325.45000       0.01617    78.75    78.75     0.00  PERIOD  PM25_T4   00043824
597341.48000 4121227.65000       0.00149    88.74    88.74     0.00  PERIOD  PM25_T4   00043824
597725.64000 4121183.56000       0.00585    79.02    79.02     0.00  PERIOD  PM25_T4   00043824
597355.24000 4121202.14000       0.00130    88.69    88.69     0.00  PERIOD  PM25_T4   00043824
597349.86000 4121232.45000       0.00148    88.64    88.64     0.00  PERIOD  PM25_T4   00043824
597703.31000 4121190.26000       0.00587    79.05    79.05     0.00  PERIOD  PM25_T4   00043824
597751.91000 4121641.57000       0.00180    80.43    80.43     0.00  PERIOD  PM25_T4   00043824
597727.48000 4121680.38000       0.00165    80.69    80.69     0.00  PERIOD  PM25_T4   00043824
597367.36000 4121232.59000       0.00144    88.58    88.58     0.00  PERIOD  PM25_T4   00043824
597707.10000 4121708.65000       0.00164    81.01    81.01     0.00  PERIOD  PM25_T4   00043824
597675.15000 4121753.65000       0.00190    81.19    81.19     0.00  PERIOD  PM25_T4   00043824
597375.41000 4121237.39000       0.00147    88.59    88.59     0.00  PERIOD  PM25_T4   00043824
597677.59000 4121180.12000       0.00488    79.33    79.33     0.00  PERIOD  PM25_T4   00043824
597735.78000 4121632.95000       0.00205    80.78    80.78     0.00  PERIOD  PM25_T4   00043824
597688.77000 4121698.32000       0.00185    81.28    81.28     0.00  PERIOD  PM25_T4   00043824
597677.38000 4121154.50000       0.00381    79.12    79.12     0.00  PERIOD  PM25_T4   00043824
597711.51000 4121665.87000       0.00190    80.84    80.84     0.00  PERIOD  PM25_T4   00043824
597663.11000 4121735.30000       0.00201    81.04    81.04     0.00  PERIOD  PM25_T4   00043824
597654.22000 4121777.98000       0.00251    81.50    81.50     0.00  PERIOD  PM25_T4   00043824
597383.64000 4121241.70000       0.00151    88.49    88.49     0.00  PERIOD  PM25_T4   00043824
597673.30000 4121692.01000       0.00204    81.39    81.39     0.00  PERIOD  PM25_T4   00043824
597647.55000 4121729.64000       0.00220    81.39    81.39     0.00  PERIOD  PM25_T4   00043824
597638.06000 4121770.35000       0.00275    81.66    81.66     0.00  PERIOD  PM25_T4   00043824
597396.51000 4121259.35000       0.00173    88.03    88.03     0.00  PERIOD  PM25_T4   00043824
597655.98000 4121190.01000       0.00492    79.41    79.41     0.00  PERIOD  PM25_T4   00043824
597722.41000 4121618.84000       0.00243    81.01    81.01     0.00  PERIOD  PM25_T4   00043824
597658.51000 4121682.45000       0.00228    81.82    81.82     0.00  PERIOD  PM25_T4   00043824
597695.72000 4121656.61000       0.00216    81.12    81.12     0.00  PERIOD  PM25_T4   00043824
597632.76000 4121720.08000       0.00239    81.67    81.67     0.00  PERIOD  PM25_T4   00043824
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597622.64000 4121760.11000       0.00290    81.79    81.79     0.00  PERIOD  PM25_T4   00043824
597647.00000 4121672.32000       0.00254    82.06    82.06     0.00  PERIOD  PM25_T4   00043824
597652.05000 4121153.42000       0.00335    79.06    79.06     0.00  PERIOD  PM25_T4   00043824
597607.13000 4121752.50000       0.00311    81.90    81.90     0.00  PERIOD  PM25_T4   00043824
597403.92000 4121265.83000       0.00186    88.03    88.03     0.00  PERIOD  PM25_T4   00043824
597636.81000 4121180.30000       0.00405    79.67    79.67     0.00  PERIOD  PM25_T4   00043824
597702.86000 4121615.70000       0.00278    81.31    81.31     0.00  PERIOD  PM25_T4   00043824
597680.29000 4121646.70000       0.00248    81.30    81.30     0.00  PERIOD  PM25_T4   00043824
597617.91000 4121712.48000       0.00262    81.93    81.93     0.00  PERIOD  PM25_T4   00043824
597592.32000 4121743.59000       0.00332    82.02    82.02     0.00  PERIOD  PM25_T4   00043824
597409.06000 4121273.21000       0.00201    87.98    87.98     0.00  PERIOD  PM25_T4   00043824
597629.53000 4121665.31000       0.00292    82.35    82.35     0.00  PERIOD  PM25_T4   00043824
597435.19000 4121287.68000       0.00274    87.68    87.68     0.00  PERIOD  PM25_T4   00043824
597630.74000 4121159.27000       0.00317    79.17    79.17     0.00  PERIOD  PM25_T4   00043824
597601.72000 4121706.16000       0.00292    82.27    82.27     0.00  PERIOD  PM25_T4   00043824
597579.54000 4121732.11000       0.00348    82.09    82.09     0.00  PERIOD  PM25_T4   00043824
597616.31000 4121186.84000       0.00387    79.75    79.75     0.00  PERIOD  PM25_T4   00043824
597622.82000 4121117.91000       0.00209    79.16    79.16     0.00  PERIOD  PM25_T4   00043824
597689.36000 4121606.83000       0.00327    81.53    81.53     0.00  PERIOD  PM25_T4   00043824
597614.05000 4121656.38000       0.00340    82.79    82.79     0.00  PERIOD  PM25_T4   00043824
597428.71000 4121293.82000       0.00275    87.85    87.85     0.00  PERIOD  PM25_T4   00043824
597666.07000 4121639.77000       0.00282    81.42    81.42     0.00  PERIOD  PM25_T4   00043824
597586.24000 4121697.89000       0.00328    82.66    82.66     0.00  PERIOD  PM25_T4   00043824
597563.40000 4121723.83000       0.00384    82.23    82.23     0.00  PERIOD  PM25_T4   00043824
597383.79000 4121267.40000       0.00175    87.98    87.98     0.00  PERIOD  PM25_T4   00043824
597606.75000 4121162.85000       0.00286    79.23    79.23     0.00  PERIOD  PM25_T4   00043824
597569.46000 4121688.93000       0.00378    82.86    82.86     0.00  PERIOD  PM25_T4   00043824
597548.59000 4121714.92000       0.00425    82.27    82.27     0.00  PERIOD  PM25_T4   00043824
597593.88000 4121193.88000       0.00364    79.91    79.91     0.00  PERIOD  PM25_T4   00043824
597672.89000 4121586.41000       0.00455    81.74    81.74     0.00  PERIOD  PM25_T4   00043824
597641.88000 4121633.07000       0.00345    82.34    82.34     0.00  PERIOD  PM25_T4   00043824
597552.09000 4121677.98000       0.00454    83.02    83.02     0.00  PERIOD  PM25_T4   00043824
597533.11000 4121706.65000       0.00481    82.18    82.18     0.00  PERIOD  PM25_T4   00043824
597286.43000 4121704.17000       0.01075    83.12    83.12     0.00  PERIOD  PM25_T4   00043824
597286.53000 4121683.38000       0.01471    83.07    83.07     0.00  PERIOD  PM25_T4   00043824
597299.17000 4121683.23000       0.01495    83.02    83.02     0.00  PERIOD  PM25_T4   00043824
597321.23000 4121712.51000       0.00988    83.18    83.18     0.00  PERIOD  PM25_T4   00043824
597317.86000 4121684.63000       0.01480    82.99    82.99     0.00  PERIOD  PM25_T4   00043824
597330.62000 4121691.43000       0.01325    82.95    82.95     0.00  PERIOD  PM25_T4   00043824
597344.40000 4121693.37000       0.01275    82.95    82.95     0.00  PERIOD  PM25_T4   00043824
597359.94000 4121696.38000       0.01197    82.99    82.99     0.00  PERIOD  PM25_T4   00043824
597354.33000 4121714.88000       0.00917    82.96    82.96     0.00  PERIOD  PM25_T4   00043824
597354.00000 4121720.68000       0.00850    82.92    82.92     0.00  PERIOD  PM25_T4   00043824
597366.48000 4121721.45000       0.00825    82.83    82.83     0.00  PERIOD  PM25_T4   00043824
597384.98000 4121721.87000       0.00792    82.72    82.72     0.00  PERIOD  PM25_T4   00043824
597399.74000 4121707.07000       0.00944    82.50    82.50     0.00  PERIOD  PM25_T4   00043824
597408.21000 4121333.29000       0.00353    87.73    87.73     0.00  PERIOD  PM25_T4   00043824
597582.19000 4121158.09000       0.00236    79.32    79.32     0.00  PERIOD  PM25_T4   00043824
597643.65000 4121615.76000       0.00404    82.41    82.41     0.00  PERIOD  PM25_T4   00043824
597529.40000 4121670.18000       0.00576    83.17    83.17     0.00  PERIOD  PM25_T4   00043824
597522.43000 4121689.99000       0.00545    82.47    82.47     0.00  PERIOD  PM25_T4   00043824
597570.90000 4121186.46000       0.00290    80.26    80.26     0.00  PERIOD  PM25_T4   00043824
597654.66000 4121595.10000       0.00472    82.33    82.33     0.00  PERIOD  PM25_T4   00043824
597398.68000 4121322.89000       0.00289    87.89    87.89     0.00  PERIOD  PM25_T4   00043824
597500.69000 4121695.31000       0.00649    82.28    82.28     0.00  PERIOD  PM25_T4   00043824
597398.21000 4121291.11000       0.00218    87.96    87.96     0.00  PERIOD  PM25_T4   00043824
597389.74000 4121326.58000       0.00280    87.97    87.97     0.00  PERIOD  PM25_T4   00043824
597561.65000 4121148.18000       0.00191    79.33    79.33     0.00  PERIOD  PM25_T4   00043824
597389.45000 4121293.60000       0.00212    88.06    88.06     0.00  PERIOD  PM25_T4   00043824
597551.51000 4121174.67000       0.00227    80.46    80.46     0.00  PERIOD  PM25_T4   00043824
597380.13000 4121331.23000       0.00274    87.93    87.93     0.00  PERIOD  PM25_T4   00043824
597427.69000 4121632.86000       0.03181    83.12    83.12     0.00  PERIOD  PM25_T4   00043824
597416.78000 4121660.68000       0.01905    83.01    83.01     0.00  PERIOD  PM25_T4   00043824
597426.51000 4121655.17000       0.01959    83.15    83.15     0.00  PERIOD  PM25_T4   00043824
597429.13000 4121648.78000       0.02178    83.16    83.16     0.00  PERIOD  PM25_T4   00043824
597432.79000 4121641.90000       0.02447    83.17    83.17     0.00  PERIOD  PM25_T4   00043824
597421.30000 4121632.30000       0.03402    83.11    83.11     0.00  PERIOD  PM25_T4   00043824
597434.76000 4121633.17000       0.02936    83.16    83.16     0.00  PERIOD  PM25_T4   00043824
597414.22000 4121632.28000       0.03564    83.09    83.09     0.00  PERIOD  PM25_T4   00043824
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597406.53000 4121632.01000       0.03712    83.06    83.06     0.00  PERIOD  PM25_T4   00043824
597401.86000 4121645.27000       0.02836    83.03    83.03     0.00  PERIOD  PM25_T4   00043824
597398.78000 4121654.58000       0.02369    82.96    82.96     0.00  PERIOD  PM25_T4   00043824
597411.03000 4121658.32000       0.02066    83.03    83.03     0.00  PERIOD  PM25_T4   00043824
597380.72000 4121295.98000       0.00208    88.09    88.09     0.00  PERIOD  PM25_T4   00043824
597398.08000 4121397.86000       0.00916    86.48    86.48     0.00  PERIOD  PM25_T4   00043824
597370.88000 4121334.59000       0.00266    87.99    87.99     0.00  PERIOD  PM25_T4   00043824
597540.51000 4121137.88000       0.00156    79.44    79.44     0.00  PERIOD  PM25_T4   00043824
597383.34000 4121631.98000       0.03911    83.26    83.26     0.00  PERIOD  PM25_T4   00043824
597383.31000 4121637.31000       0.03525    83.19    83.19     0.00  PERIOD  PM25_T4   00043824
597389.40000 4121632.61000       0.03846    83.21    83.21     0.00  PERIOD  PM25_T4   00043824
597388.65000 4121637.17000       0.03513    83.16    83.16     0.00  PERIOD  PM25_T4   00043824
597363.76000 4121294.06000       0.00195    88.19    88.19     0.00  PERIOD  PM25_T4   00043824
597530.71000 4121167.25000       0.00186    80.53    80.53     0.00  PERIOD  PM25_T4   00043824
597384.36000 4121397.92000       0.00694    86.45    86.45     0.00  PERIOD  PM25_T4   00043824
597400.44000 4121366.00000       0.00510    87.05    87.05     0.00  PERIOD  PM25_T4   00043824
597362.36000 4121322.90000       0.00234    88.05    88.05     0.00  PERIOD  PM25_T4   00043824
597360.20000 4121632.21000       0.03812    83.32    83.32     0.00  PERIOD  PM25_T4   00043824
597366.70000 4121638.29000       0.03453    83.22    83.22     0.00  PERIOD  PM25_T4   00043824
597359.87000 4121638.85000       0.03400    83.27    83.27     0.00  PERIOD  PM25_T4   00043824
597366.56000 4121632.25000       0.03846    83.29    83.29     0.00  PERIOD  PM25_T4   00043824
597399.35000 4121345.34000       0.00374    87.56    87.56     0.00  PERIOD  PM25_T4   00043824
597355.17000 4121290.88000       0.00190    88.28    88.28     0.00  PERIOD  PM25_T4   00043824
597372.23000 4121397.32000       0.00567    86.55    86.55     0.00  PERIOD  PM25_T4   00043824
597396.08000 4121382.26000       0.00630    86.85    86.85     0.00  PERIOD  PM25_T4   00043824
597347.27000 4121329.65000       0.00235    88.08    88.08     0.00  PERIOD  PM25_T4   00043824
597522.10000 4121125.22000       0.00129    79.67    79.67     0.00  PERIOD  PM25_T4   00043824
597346.14000 4121638.66000       0.03339    83.30    83.30     0.00  PERIOD  PM25_T4   00043824
597380.87000 4121351.40000       0.00339    87.24    87.24     0.00  PERIOD  PM25_T4   00043824
597346.12000 4121286.88000       0.00187    88.24    88.24     0.00  PERIOD  PM25_T4   00043824
597509.61000 4121156.40000       0.00151    80.74    80.74     0.00  PERIOD  PM25_T4   00043824
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597368.19000 4121385.45000       0.00450    86.92    86.92     0.00  PERIOD  PM25_T4   00043824
597348.22000 4121318.53000       0.00220    88.13    88.13     0.00  PERIOD  PM25_T4   00043824
597310.62000 4121634.10000       0.03200    83.47    83.47     0.00  PERIOD  PM25_T4   00043824
597364.05000 4121344.08000       0.00279    87.60    87.60     0.00  PERIOD  PM25_T4   00043824
597328.32000 4121291.97000       0.00199    88.25    88.25     0.00  PERIOD  PM25_T4   00043824
597345.01000 4121396.38000       0.00411    86.85    86.85     0.00  PERIOD  PM25_T4   00043824
597346.41000 4121380.28000       0.00351    87.00    87.00     0.00  PERIOD  PM25_T4   00043824
597323.73000 4121329.35000       0.00235    88.10    88.10     0.00  PERIOD  PM25_T4   00043824
597296.46000 4121633.94000       0.02984    83.48    83.48     0.00  PERIOD  PM25_T4   00043824
597347.29000 4121347.23000       0.00266    87.50    87.50     0.00  PERIOD  PM25_T4   00043824
597319.58000 4121288.47000       0.00204    88.22    88.22     0.00  PERIOD  PM25_T4   00043824
597490.83000 4121144.96000       0.00127    81.01    81.01     0.00  PERIOD  PM25_T4   00043824
597333.92000 4121396.09000       0.00378    86.99    86.99     0.00  PERIOD  PM25_T4   00043824
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597322.03000 4121319.15000       0.00226    88.12    88.12     0.00  PERIOD  PM25_T4   00043824
597329.20000 4121350.68000       0.00263    87.38    87.38     0.00  PERIOD  PM25_T4   00043824
597311.17000 4121284.64000       0.00214    88.24    88.24     0.00  PERIOD  PM25_T4   00043824
597318.38000 4121396.24000       0.00356    86.91    86.91     0.00  PERIOD  PM25_T4   00043824
597312.93000 4121384.31000       0.00324    87.23    87.23     0.00  PERIOD  PM25_T4   00043824
597305.06000 4121330.16000       0.00258    87.92    87.92     0.00  PERIOD  PM25_T4   00043824
597312.70000 4121343.70000       0.00261    87.67    87.67     0.00  PERIOD  PM25_T4   00043824
597301.94000 4121281.45000       0.00230    88.45    88.45     0.00  PERIOD  PM25_T4   00043824
597476.60000 4121128.31000       0.00108    81.08    81.08     0.00  PERIOD  PM25_T4   00043824
597307.71000 4121396.38000       0.00353    86.93    86.93     0.00  PERIOD  PM25_T4   00043824
597295.42000 4121378.28000       0.00333    87.16    87.16     0.00  PERIOD  PM25_T4   00043824
597306.31000 4121320.04000       0.00247    88.08    88.08     0.00  PERIOD  PM25_T4   00043824
597295.89000 4121348.49000       0.00295    87.53    87.53     0.00  PERIOD  PM25_T4   00043824
597232.16000 4121486.68000       0.00365    86.06    86.06     0.00  PERIOD  PM25_T4   00043824
597535.15000 4121491.78000       0.10366    84.25    84.25     0.00  PERIOD  PM25_T4   00043824
597234.27000 4121502.92000       0.00402    85.81    85.81     0.00  PERIOD  PM25_T4   00043824
597235.30000 4121426.24000       0.00243    86.62    86.62     0.00  PERIOD  PM25_T4   00043824
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597219.55000 4121695.31000       0.00823    83.34    83.34     0.00  PERIOD  PM25_T4   00043824
597231.70000 4121554.43000       0.00602    85.02    85.02     0.00  PERIOD  PM25_T4   00043824
597237.31000 4121357.54000       0.00149    87.57    87.57     0.00  PERIOD  PM25_T4   00043824
597205.20000 4121610.57000       0.00678    84.56    84.56     0.00  PERIOD  PM25_T4   00043824
597220.62000 4121614.77000       0.00892    84.37    84.37     0.00  PERIOD  PM25_T4   00043824
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597205.55000 4121621.83000       0.00744    84.50    84.50     0.00  PERIOD  PM25_T4   00043824
597214.44000 4121480.32000       0.00270    86.13    86.13     0.00  PERIOD  PM25_T4   00043824
597213.56000 4121510.58000       0.00348    85.67    85.67     0.00  PERIOD  PM25_T4   00043824
597214.87000 4121438.05000       0.00196    86.24    86.24     0.00  PERIOD  PM25_T4   00043824
597218.09000 4121400.49000       0.00163    87.08    87.08     0.00  PERIOD  PM25_T4   00043824
597548.54000 4121464.55000       0.10658    84.24    84.24     0.00  PERIOD  PM25_T4   00043824
597217.20000 4121351.46000       0.00130    87.49    87.49     0.00  PERIOD  PM25_T4   00043824
597199.22000 4121686.54000       0.00727    83.54    83.54     0.00  PERIOD  PM25_T4   00043824
597209.07000 4121544.15000       0.00434    84.94    84.94     0.00  PERIOD  PM25_T4   00043824
597196.70000 4121474.94000       0.00210    86.13    86.13     0.00  PERIOD  PM25_T4   00043824
597185.52000 4121614.60000       0.00545    84.45    84.45     0.00  PERIOD  PM25_T4   00043824
597214.18000 4121584.85000       0.00624    84.50    84.50     0.00  PERIOD  PM25_T4   00043824
597214.01000 4121579.16000       0.00596    84.64    84.64     0.00  PERIOD  PM25_T4   00043824
597188.98000 4121603.51000       0.00525    84.47    84.47     0.00  PERIOD  PM25_T4   00043824
597188.74000 4121593.44000       0.00488    84.51    84.51     0.00  PERIOD  PM25_T4   00043824
597190.61000 4121575.81000       0.00440    84.82    84.82     0.00  PERIOD  PM25_T4   00043824
597201.64000 4121578.66000       0.00509    84.67    84.67     0.00  PERIOD  PM25_T4   00043824
597194.52000 4121501.58000       0.00257    85.87    85.87     0.00  PERIOD  PM25_T4   00043824
597198.60000 4121414.53000       0.00141    86.67    86.67     0.00  PERIOD  PM25_T4   00043824
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597197.99000 4121344.81000       0.00101    87.60    87.60     0.00  PERIOD  PM25_T4   00043824
597190.78000 4121550.04000       0.00367    85.01    85.01     0.00  PERIOD  PM25_T4   00043824
597177.24000 4121469.54000       0.00166    86.07    86.07     0.00  PERIOD  PM25_T4   00043824
597176.56000 4121495.22000       0.00203    85.89    85.89     0.00  PERIOD  PM25_T4   00043824
597180.51000 4121419.42000       0.00123    86.52    86.52     0.00  PERIOD  PM25_T4   00043824
597180.89000 4121395.27000       0.00108    87.19    87.19     0.00  PERIOD  PM25_T4   00043824
597181.22000 4121679.01000       0.00633    83.57    83.57     0.00  PERIOD  PM25_T4   00043824
597178.33000 4121337.59000       0.00082    87.74    87.74     0.00  PERIOD  PM25_T4   00043824
597161.56000 4121426.16000       0.00109    86.31    86.31     0.00  PERIOD  PM25_T4   00043824
597162.04000 4121671.44000       0.00531    83.57    83.57     0.00  PERIOD  PM25_T4   00043824
597171.98000 4121556.90000       0.00316    85.17    85.17     0.00  PERIOD  PM25_T4   00043824
597160.23000 4121464.42000       0.00138    85.93    85.93     0.00  PERIOD  PM25_T4   00043824
597158.09000 4121507.97000       0.00190    85.58    85.58     0.00  PERIOD  PM25_T4   00043824
597160.91000 4121385.35000       0.00088    86.99    86.99     0.00  PERIOD  PM25_T4   00043824
597160.62000 4121355.63000       0.00077    87.37    87.37     0.00  PERIOD  PM25_T4   00043824
597150.75000 4121544.56000       0.00237    84.87    84.87     0.00  PERIOD  PM25_T4   00043824
597140.82000 4121484.74000       0.00136    86.10    86.10     0.00  PERIOD  PM25_T4   00043824
597139.63000 4121502.08000       0.00155    85.58    85.58     0.00  PERIOD  PM25_T4   00043824
597144.02000 4121430.79000       0.00098    86.22    86.22     0.00  PERIOD  PM25_T4   00043824
597219.40000 4121265.07000       0.00103    88.79    88.79     0.00  PERIOD  PM25_T4   00043824
597144.47000 4121403.43000       0.00085    87.11    87.11     0.00  PERIOD  PM25_T4   00043824
597142.19000 4121689.14000       0.00448    83.63    83.63     0.00  PERIOD  PM25_T4   00043824
597141.97000 4121348.12000       0.00065    87.48    87.48     0.00  PERIOD  PM25_T4   00043824
597123.82000 4121479.13000       0.00115    86.10    86.10     0.00  PERIOD  PM25_T4   00043824
597117.76000 4121495.13000       0.00124    85.82    85.82     0.00  PERIOD  PM25_T4   00043824
597125.62000 4121436.21000       0.00089    86.08    86.08     0.00  PERIOD  PM25_T4   00043824
597127.28000 4121394.11000       0.00072    87.19    87.19     0.00  PERIOD  PM25_T4   00043824
597120.25000 4121675.04000       0.00371    83.66    83.66     0.00  PERIOD  PM25_T4   00043824
597122.27000 4121342.93000       0.00056    87.57    87.57     0.00  PERIOD  PM25_T4   00043824
597106.09000 4121473.27000       0.00098    86.00    86.00     0.00  PERIOD  PM25_T4   00043824
597107.40000 4121415.33000       0.00071    86.52    86.52     0.00  PERIOD  PM25_T4   00043824
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597101.23000 4121683.35000       0.00324    83.77    83.77     0.00  PERIOD  PM25_T4   00043824
597088.35000 4121467.91000       0.00084    85.93    85.93     0.00  PERIOD  PM25_T4   00043824
597103.81000 4121336.55000       0.00049    87.82    87.82     0.00  PERIOD  PM25_T4   00043824
597088.77000 4121420.74000       0.00065    86.32    86.32     0.00  PERIOD  PM25_T4   00043824
597089.75000 4121403.58000       0.00060    87.04    87.04     0.00  PERIOD  PM25_T4   00043824
597079.36000 4121688.65000       0.00280    83.67    83.67     0.00  PERIOD  PM25_T4   00043824
597070.38000 4121461.79000       0.00073    85.72    85.72     0.00  PERIOD  PM25_T4   00043824
597069.87000 4121425.06000       0.00060    86.13    86.13     0.00  PERIOD  PM25_T4   00043824
597073.28000 4121387.58000       0.00052    86.80    86.80     0.00  PERIOD  PM25_T4   00043824
597036.12000 4121680.44000       0.00204    83.87    83.87     0.00  PERIOD  PM25_T4   00043824
597048.15000 4121477.86000       0.00070    85.85    85.85     0.00  PERIOD  PM25_T4   00043824
597050.44000 4121429.92000       0.00056    86.03    86.03     0.00  PERIOD  PM25_T4   00043824
597049.47000 4121395.83000       0.00047    86.74    86.74     0.00  PERIOD  PM25_T4   00043824
597039.56000 4121624.35000       0.00163    84.45    84.45     0.00  PERIOD  PM25_T4   00043824
597017.02000 4121669.94000       0.00174    83.88    83.88     0.00  PERIOD  PM25_T4   00043824
597018.97000 4121631.84000       0.00148    84.38    84.38     0.00  PERIOD  PM25_T4   00043824
597036.43000 4121602.62000       0.00142    84.75    84.75     0.00  PERIOD  PM25_T4   00043824
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  596997.51000 4121674.71000       0.00157    83.87    83.87     0.00  PERIOD  PM25_T4   00043824
  597017.49000 4121594.69000       0.00120    84.71    84.71     0.00  PERIOD  PM25_T4   00043824
  597001.29000 4121623.33000       0.00127    84.48    84.48     0.00  PERIOD  PM25_T4   00043824
  597016.59000 4121553.08000       0.00093    84.97    84.97     0.00  PERIOD  PM25_T4   00043824
  597001.02000 4121586.83000       0.00103    84.57    84.57     0.00  PERIOD  PM25_T4   00043824
  596993.98000 4121543.82000       0.00077    85.07    85.07     0.00  PERIOD  PM25_T4   00043824
  596979.16000 4121680.10000       0.00144    83.83    83.83     0.00  PERIOD  PM25_T4   00043824
  596980.90000 4121599.91000       0.00098    84.71    84.71     0.00  PERIOD  PM25_T4   00043824
  596981.71000 4121616.01000       0.00108    84.50    84.50     0.00  PERIOD  PM25_T4   00043824
  597439.36000 4121652.16000       0.01837    83.22    83.22     0.00  PERIOD  PM25_T4   00043824
  597444.23000 4121655.19000       0.01648    83.19    83.19     0.00  PERIOD  PM25_T4   00043824
  597340.42000 4121489.96000       0.01657    84.88    84.88     0.00  PERIOD  PM25_T4   00043824
  597340.76000 4121475.31000       0.01398    84.85    84.85     0.00  PERIOD  PM25_T4   00043824
** CONCUNIT ug/m^3
** DEPUNIT g/m^2
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HEALTH RISK ASSESSMENT CALCULATIONS

The HRA was conducted utilizing the CARB's Hot Spots Analysis and Reporting Program Version 2 (HARP2) to automatically calculate risks for the projects using OEHHA promulgated cancer potency and reference exposure levels. (HARP2) is the recommended model for calculating and presenting HRA results because it follows the district's risk assessment guidance methodology and is consistent with the Air District's Regulation 2-5. Since AERMOD was run with project emission rates to directly calculate potential DPM and PM2.5 concentrations, the Health Risk Assessment Standalone Tool (RAST) version of HARP2 was used.

The HRA follows BAAQMD CEQA Guidelines based on OEHHA Guidance. This risk assessment intake methodology addresses children's greater sensitivity and health impacts from early exposure to carcinogenic compounds. The chemical intake or dose describing the frequency and duration of the exposure is estimated using receptor's breathing rates, exposure duration, and exposure frequency. The calculations include the use of age-specific weighting factors, breathing rates, fraction of time at home, and reduced exposure durations.

These factors are described below, followed by a summary of the HARP2 HRA inputs and cancer and noncancer risk results for selected for each receptor group (i.e., resident, off-site worker, and student).

Age Sensitivity Factors – Studies have shown that young animals are more sensitive than adult animals to exposure to many carcinogens (OEHHA, 2009). Therefore, OEHHA developed age sensitivity factors (ASFs) to account for the increased sensitivity to carcinogens during early-in-life exposures. Accordingly, the cancer risk methodology applies different ASFs by age groups. The ASFs utilized a 10-fold multiplier in sensitivity for the third trimester and infants less than age 2, a 3-fold increase in sensitivity for children ages 2 to 16 years old, and a sensitivity factor of 1 for ages 16 and older.

Daily breathing rates (age-specific daily air intake) – For residential receptors, the HRA utilizes the 95th percentile breathing rates for the most sensitive age groups (less than 2 years of age) and 80th percentile for all other age groups. This approach jointly developed by ARB and CAPCOA[1] and adopted by BAAQMD[2] is referred to as the "Risk Management Policy" and was developed to consider the new science in risk assessment while providing a reasonable estimate of potential cancer risk for risk management decisions. The HRA uses 95th percentile 8-hour breathing rates for moderate intensity activities for worker and student exposure.[3]

Time at home – The time at home applies only applies to residential receptors. Residents are assumed to be at home 350 days per year, which assumes individuals are away for approximately 2 weeks of

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1 California Air Resources Board (ARB) and California Air Pollution Control Officers Association (CAPCOA). 2015. Risk Management Guidance for Stationary Sources of Air Toxics. July 23. Website: https://ww2.arb.ca.gov/sites/default/files/classic/toxics/rma/rmgssat.pdf. Accessed April 8, 2024.

2 Bay Area Air Quality Management District (BAAQMD). 2022. California Environmental Quality Act – Air Quality Guidelines Appendix E: Recommended Methods for Screening and Modeling Local Risks and Hazards. Website: https://www.baaqmd.gov/~/media/files/planning-and-research/ceqa/ceqa-guidelines-2022/appendix-e-recommended-methods-for-screening-and-modeling-local-risks-and-hazards_final-pdf.pdf?rev=b8917a27345a4a629fc18fc8650951e4&sc_lang=en. Accessed March 7, 2024.

3 Office of Environmental Health Hazard Assessment (OEHHA). 2015. The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments. Website: https://oehha.ca.gov/media/downloads/crnr/2015guidancemanual.pdf. Accessed March 29, 2024.

vacation. The fraction of time at home refers to the estimated amount of time residents stay at home during these 350 days. The HRA assumes 100 percent time at home for receptors under age 16 to address exposures at local schools close to emitting sources. Even though infants and children may not be at their residence all the time, they are likely to remain in the neighborhood (at schools or neighbors) and would be exposed to similar levels of the pollutants.

Exposure Duration - OEHHA 2015 guidelines specify a 30-year residential exposure duration for estimating cancer risk at the maximum exposed individual resident (MEIR). This is based on studies showing that 30 years is a reasonable estimate of the 90th to 95th percentile of residency duration in the population. However, risk assessors can use other exposure durations with proper justification and documentation. For example, short-term projects (e.g., construction projects) can now be evaluated for as short a duration as 6 months.

Residential Cancer Risk

Cancer risk for individual resident receptors exposed to "Diesel Particulate Exhaust" (DPM) were calculated utilizing the "Risk Management Policy" option for inhalation, specifying that residents spend 100% time at home for ages less than 16 years old. Consistent with OEHHA guidance, the start of residential exposure was assumed to occur in the third trimester (-0.25 years) to accommodate the increased susceptibility of exposures in early life. The residential exposure starts with the unborn child at the third trimester (when construction begins) and continues until the child is 2.55 years of age. Because there are no significant sources of TAC emissions during operations, the exposure assessment is limited to the duration of the proposed project construction or 2.8 years.

Student Cancer Risk

Student cancer risk and chronic hazards were determined for the Beacon School (a non-Public School serving grades 6-12) which is located immediately to the West of the Project site. The student risk calculations utilized a starting exposure age appropriate to 6th grade students (assumed 11 years) and a project specific exposure duration of 2.8 years.

Cancer risks utilized the HARP2 (OEHHA) value for the 95th percentile 8-hour breathing rates for moderate activity for students from ages 2-16 or a breathing rate is 520 (L/kg-hr). This is consistent with BAAQMD recommended exposure values for students.

Student exposures occur only when the non-continuous construction sources are emitting and thus students similarly inhale air with concentrations that are higher than AERMOD predicted long-term average concentrations.

The worker adjustment factor (WAF) is used to determine the long-term concentration the student is breathing while at school. Therefore, the long-term concentration is adjusted so it is based only on the hours when the student is present. For this project, assuming the emitting source and student's schedules are the same, the adjustment factor is 4.2 = (24 hours per day/8 hours per shift)x(7 days in a week/5 days in a work week).

Noncancer Chronic Health Risks

Chronic RELs are used to assess not only residential health impacts, but also student health impacts.

Potential chronic noncancer health impacts use the long-term annual average concentration regardless of the emitting facility's schedule. As per OEHHA guidance, no adjustment factors were used to adjust this concentration for students.

HARP2 Inputs and Results

HARP2 Output files are included to document the HRA exposure parameters and risk results.

The following Scenarios were run in HARP-RAST using the concentrations of the DPM from AERMOD results at each receptor.

- MEIR Cancer Risk - Unmitigated
- MEIR Non-Cancer Chronic Hazard Index - Unmitigated
- School (Student) Cancer Risk – Unmitigated
- School (Student) Non-Cancer Chronic Hazard Index – Unmitigated
- MEIR Cancer Risk – Tier 4 Offroad Equipment
- MEIR Non-Cancer Chronic Hazard Index - Tier 4 Offroad Equipment
- School (Student) Cancer Risk – Tier 4 Offroad Equipment
- School (Student) Non-Cancer Chronic Hazard Index - Tier 4 Offroad Equipment

GLCs loaded successfully
Pollutants loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: Cancer
Calculation Method: HighEnd

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 2.55

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 2
2<9 Years Bin: 0.55
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: RMP

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|
Calculating cancer risk
Cancer risk saved to: F:\Jobs\59490001\ConHRA\HARP\MEIRCancerUMCancerRisk.csv
HRA ran successfully

UTME	UTMN	Pollutant	Conc (ug/m3)	Risk	Scenario	Inhalation Risk
597548.54	4121464.55	DieselExhPM	0.08801	3.1488e-05	2.55YrCancerRMP_Inh	3.1488e-05

GLCs loaded successfully
Pollutants loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Worker
Scenario: NCChronic
Calculation Method: HighEnd

****
EXPOSURE DURATION PARAMETERS FOR CANCER
Exposure duration are only adjusted for cancer assessments

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: RMP

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
NOTE: Exposure duration (i.e., start age, end age, ED, & FAH) are only adjusted for cancer assessments.

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|
Calculating chronic risk
Chronic risk saved to: F:\Jobs\59490001\ConHRA\HARP\MEIRChronicUMNCChronicRisk.csv
HRA ran successfully

UTME	UTMN	Pollutant	Conc (ug/m3)	CV	CNS	IMMUN	KIDNEY	GILV	REPRO	RESP	SKIN	EYE	B/T	ENDO	BLOOD	ODOR	GEN
597548.54	4121464.55	DieselExhPM	0.08801	0.0	0.0	0.0	0.0	0.0	0.0	0.017602	0.0	0.0	0.0	0.0	0.0	0.0	0.0

GLCs loaded successfully
Pollutants loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Worker
Scenario: Cancer
Calculation Method: HighEnd

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 11
Total Exposure Duration: 2.8

Exposure Duration Bin Distribution
3rd Trimester Bin: 0
0<2 Years Bin: 0
2<9 Years Bin: 0
2<16 Years Bin: 2.8
16<30 Years Bin: 0
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: Moderate8HR

Worker Adjustment Factors
NOTE: The worker adjustment factors below are only used for cancer assessments. However, the GLC adjustment factor is also applied to 8-hr noncancer chronic assessments.
Worker adjustments factors enabled: YES
GLC adjustment factor: 4.2
Exposure frequency: 250

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

****
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05
Soil mixing depth (m): 0.01
Dermal climate: Mixed

****

TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|
Calculating cancer risk
Cancer risk saved to: F:\Jobs\59490001\ConHRA\HARP\StudentCancerUMCancerRisk.csv
HRA ran successfully

*HARP - HRACalc v22118 6/7/2024 12:44:44 PM -
Cancer Risk - Input File: F:\Jobs\59490001\ConHRA\HARP\StudentCancerUMHRAInput.hra

UTME	UTMN	Pollutant	Conc (ug/m3)	Risk	Scenario	Inhalation Risk
597337.24	4121559.95	DieselExhPM	0.0345	6.8123e-06	2.8YrCancerHighEnd_InhSoilDerm	6.8123e-06

GLCs loaded successfully
Pollutants loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Worker
Scenario: NCChronic
Calculation Method: HighEnd

****
EXPOSURE DURATION PARAMETERS FOR CANCER
Exposure duration are only adjusted for cancer assessments

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: Moderate8HR

Worker Adjustment Factors
NOTE: The worker adjustment factors below are only used for cancer assessments. However, the GLC adjustment factor is also applied to 8-hr noncancer chronic assessments.
Worker adjustments factors enabled: YES
GLC adjustment factor: 4.2
Exposure frequency: 250

Fraction at time at home
NOTE: Exposure duration (i.e., start age, end age, ED, & FAH) are only adjusted for cancer assessments.

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|
Calculating chronic risk
Chronic risk saved to: F:\Jobs\59490001\ConHRA\HARP\StudentChronicUMNCChronicRisk.csv
HRA ran successfully

UTME	UTMN	Pollutant	Conc (ug/m3)	CV	CNS	IMMUN	KIDNEY	GILV	REPRO	RESP	SKIN	EYE	B/T	ENDO	BLOOD	ODOR	GEN
597337.24	4121559.95	DieselExhPM	0.0345	0.0	0.0	0.0	0.0	0.0	0.0	0.0069	0.0	0.0	0.0	0.0	0.0	0.0	0.0

GLCs loaded successfully
Pollutants loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: Cancer
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 2.55

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 2
2<9 Years Bin: 0.55
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: ON

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|
Calculating cancer risk
Cancer risk saved to: F:\Jobs\59490001\ConHRA\HARP\MEIRCancerT4CancerRisk.csv
HRA ran successfully

UTME	UTMN	Pollutant	Conc (ug/m3)	Risk	Scenario	Inhalation Risk
597548.54	4121464.55	DieselExhPM	0.02201	8.0006e-06	2.55YrCancerDerived_Inh_FAH16to70	8.0006e-06

GLCs loaded successfully
Pollutants loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: NCChronic
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER
Exposure duration are only adjusted for cancer assessments

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
NOTE: Exposure duration (i.e., start age, end age, ED, & FAH) are only adjusted for cancer assessments.

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|
Calculating chronic risk
Chronic risk saved to: F:\Jobs\59490001\ConHRA\HARP\MEIRChronicT4NCChronicRisk.csv
HRA ran successfully

UTME	UTMN	Pollutant	Conc (ug/m3)	CV	CNS	IMMUN	KIDNEY	GILV	REPRO	RESP	SKIN	EYE	B/T	ENDO	BLOOD	ODOR	GEN
597548.54	4121464.55	DieselExhPM	0.02201	0.0	0.0	0.0	0.0	0.0	0.0	0.004402	0.0	0.0	0.0	0.0	0.0	0.0	0.0

GLCs loaded successfully
Pollutants loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Worker
Scenario: Cancer
Calculation Method: HighEnd

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 11
Total Exposure Duration: 2.8

Exposure Duration Bin Distribution
3rd Trimester Bin: 0
0<2 Years Bin: 0
2<9 Years Bin: 0
2<16 Years Bin: 2.8
16<30 Years Bin: 0
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: Moderate8HR

Worker Adjustment Factors
NOTE: The worker adjustment factors below are only used for cancer assessments. However, the GLC adjustment factor is also applied to 8-hr noncancer chronic assessments.
Worker adjustments factors enabled: YES
GLC adjustment factor: 4.2
Exposure frequency: 250

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|
Calculating cancer risk
Cancer risk saved to: F:\Jobs\59490001\ConHRA\HARP\StudentCancerT4CancerRisk.csv
HRA ran successfully

UTME	UTMN	Pollutant	Conc (ug/m3)	Risk	Scenario	Inhalation Risk
597337.24	4121559.95	DieselExhPM	0.00864	1.706e-06	2.8YrCancerHighEnd_Inh	1.706e-06

UTME	UTMN	Pollutant	Conc (ug/m3)	CV	CNS	IMMUN	KIDNEY	GILV	REPRO	RESP	SKIN	EYE	B/T	ENDO	BLOOD	ODOR	GEN
597337.24	4121559.95	DieselExhPM	0.00864	0.0	0.0	0.0	0.0	0.0	0.0	0.001728	0.0	0.0	0.0	0.0	0.0	0.0	0.0

GLCs loaded successfully
Pollutants loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Worker
Scenario: NCChronic
Calculation Method: HighEnd

****
EXPOSURE DURATION PARAMETERS FOR CANCER
Exposure duration are only adjusted for cancer assessments

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: Moderate8HR

Worker Adjustment Factors
NOTE: The worker adjustment factors below are only used for cancer assessments. However, the GLC adjustment factor is also applied to 8-hr noncancer chronic assessments.
Worker adjustments factors enabled: YES
GLC adjustment factor: 4.2
Exposure frequency: 250

Fraction at time at home
NOTE: Exposure duration (i.e., start age, end age, ED, & FAH) are only adjusted for cancer assessments.

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|
Calculating chronic risk
Chronic risk saved to: F:\Jobs\59490001\ConHRA\HARP\StudentChronicT4NCChronicRisk.csv
HRA ran successfully

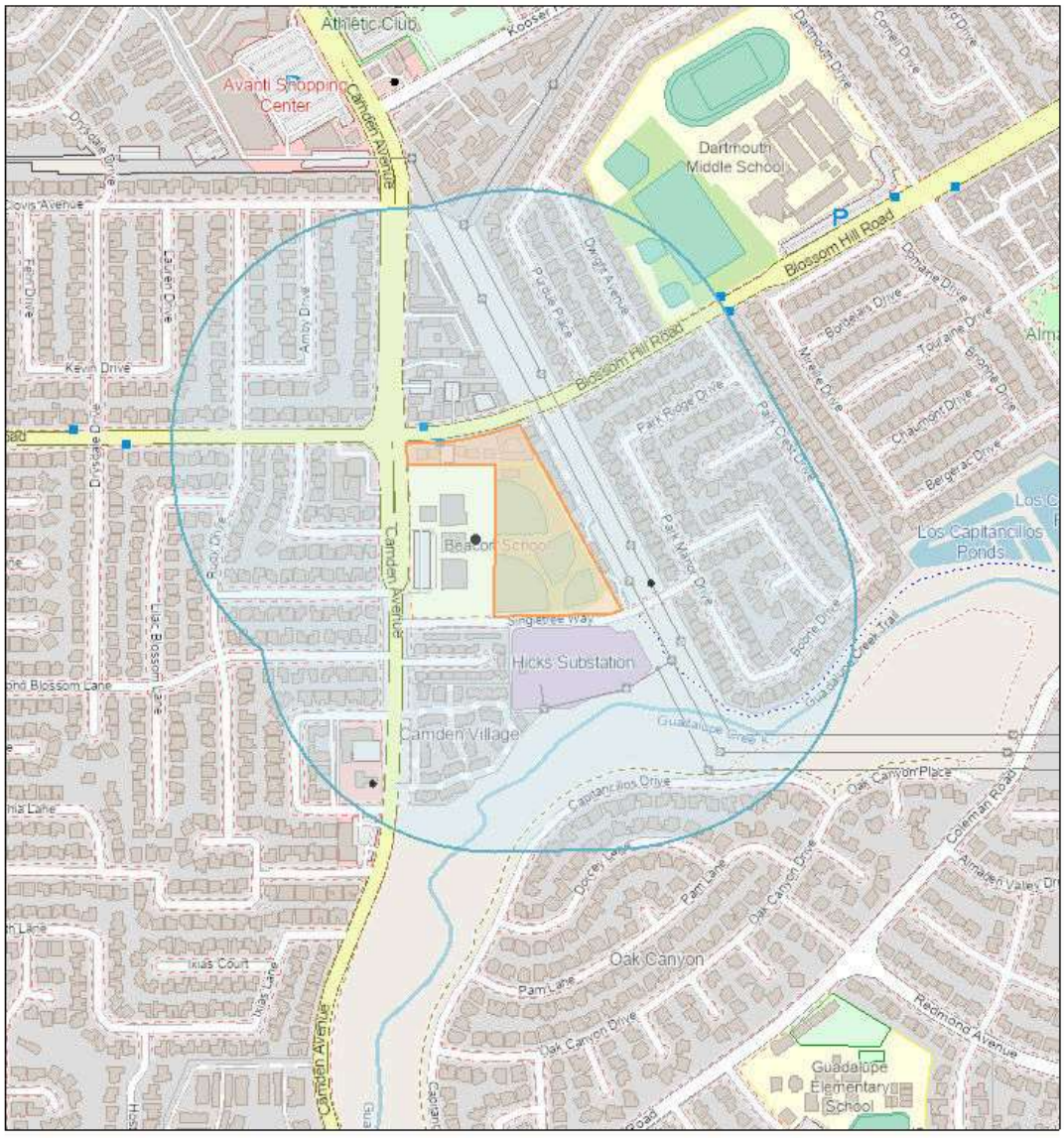
UTME	UTMN	Pollutant	Conc (ug/m3)	CV	CNS	IMMUN	KIDNEY	GILV	REPRO	RESP	SKIN	EYE	B/T	ENDO	BLOOD	ODOR	GEN
597337.24	4121559.95	DieselExhPM	0.00864	0.0	0.0	0.0	0.0	0.0	0.0	0.001728	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Screening Report - Mana Camden Residential Project

Area of Interest (AOI) Information

Area : 6,317,232.98 ft²

Apr 30 2024 8:09:27 Pacific Daylight Time



Summary

Name	Count	Area(ft²)	Length(ft)
Permitted Stationary Sources	2	N/A	N/A

Permitted Stationary Sources

#	Facility_I	Facility_N	Address	City	State
1	15104	Verizon Wireless - Camden & Hicks	1552 Singletree Way	San Jose	CA
2	110679	ARCO Facility #02155	5755 Camden Ave	San Jose	CA

#	Zip	County	Latitude	Longitude	Details
1	95118	Santa Clara	37.234646	-121.899749	Generator
2	95124	Santa Clara	37.232300	-121.903825	Gas Dispensing Facility

#	NAICS	NAICS_Sect	NAICS_Subs	NAICS_Indu	Cancer_Ris
1	517210	Information	Telecommunications	Wireless Telecommunications Carriers (except Satellite)	0.613000
2	447110	Retail Trade	Gasoline Stations	Gasoline Stations with Convenience Stores	19.116000

#	Chronic_Ha	PM25	Count
1	0.002000	0.001000	1
2	0.083000	0.000000	1

NOTE: A larger buffer than 1000 feet may be warranted depending on proximity to significant sources.

UTMX	UTMY	Road Cancer Risk	Road Chronic HI	Road PM2.5	Rail Cancer Risk	Rail Chronic HI	Rail PM2.5	
597337	4121560	16.89332	0.050443	0.268864	0	0	0	School
597549	4121465	4.074124	0.015214	0.108385	0	0	0	MEIR

Data Provided By: BAAQMD as raster file (.tif) datasets
Roadway Screening Tool - Cancer Risk Last Updated December 8 2022
Roadway Screening Tool - Chronic Hazard Last Updated December 8 2022
Roadway Screening Tool - PM2.5 Last Updated December 8 2022
Rail Screening Tool - Cancer Risk Last Updated May 9 2024
Rail Screening Tool - Chronic Hazard Last Updated May 9 2024
Rail Screening Tool - PM2.5 Last Updated May 9 2024

UTMX	UTMY	Road Cancer Risk	Road Chronic HI	Road PM2.5	Rail Cancer Risk	Rail Chronic HI	Rail PM2.5
597504.8	4121442	4.8613	0.021811	0.180156	0	0	0
597473	4121440	5.588454	0.024053	0.193233	0	0	0
597440.5	4121438	6.509475	0.027633	0.217923	0	0	0
597408.1	4121437	6.509475	0.027633	0.217923	0	0	0
597401.1	4121460	6.036223	0.020982	0.137395	0	0	0
597444.9	4121462	5.1529	0.018349	0.12416	0	0	0
597479.9	4121477	5.1529	0.018349	0.12416	0	0	0
597497.9	4121471	4.419468	0.015958	0.109711	0	0	0
597522.3	4121471	4.419468	0.015958	0.109711	0	0	0
597503.3	4121498	4.419468	0.015958	0.109711	0	0	0
597478.7	4121500	5.1529	0.018349	0.12416	0	0	0
597455.4	4121486	5.1529	0.018349	0.12416	0	0	0
597454.6	4121511	5.497599	0.019022	0.125096	0	0	0
597478.3	4121523	5.497599	0.019022	0.125096	0	0	0
597433	4121482	6.036223	0.020982	0.137395	0	0	0
597431.8	4121516	6.474964	0.021724	0.137518	0	0	0
597454.2	4121535	5.497599	0.019022	0.125096	0	0	0
597407.7	4121484	6.036223	0.020982	0.137395	0	0	0
597407.3	4121508	6.036223	0.020982	0.137395	0	0	0
597478.3	4121546	5.497599	0.019022	0.125096	0	0	0
597454.6	4121562	6.103487	0.020851	0.135631	0	0	0
597439.1	4121588	7.264871	0.023574	0.144623	0	0	0
597431.2	4121565	7.264871	0.023574	0.144623	0	0	0
597432.2	4121542	6.474964	0.021724	0.137518	0	0	0
597406.9	4121530	6.474964	0.021724	0.137518	0	0	0
597406.3	4121554	6.474964	0.021724	0.137518	0	0	0
597405.5	4121577	7.264871	0.023574	0.144623	0	0	0
597434.5	4121611	8.627515	0.02755	0.163953	0	0	0
597396.9	4121610	8.627515	0.02755	0.163953	0	0	0
597364.8	4121609	11.87622	0.035699	0.199069	0	0	0
597333	4121609	21.98926	0.060796	0.304475	0	0	0
597299.7	4121609	16.89332	0.050443	0.268864	0	0	0

Data Provided By: BAAQMD as raster file (.tif) datasets
Roadway Screening Tool - Cancer Risk Last Updated December 8 2022
Roadway Screening Tool - Chronic Hazard Last Updated December 8 2022
Roadway Screening Tool - PM2.5 Last Updated December 8 2022
Rail Screening Tool - Cancer Risk Last Updated May 9 2024
Rail Screening Tool - Chronic Hazard Last Updated May 9 2024
Rail Screening Tool - PM2.5 Last Updated May 9 2024

5670 Camden Avenue Residential Project ***Energy Calculations Summary***

Summary of Fossil Fuel Energy Use During Construction

Construction equipment fuel	57,852	gallons (diesel)
Construction vehicle fuel	35,148	gallons (gasoline, diesel)
Total construction fuel	**93,000**	**gallons (gasoline, diesel)**

Summary of Energy Use During Construction - Electricity

Year	kWh per Year
2025	0
2026	0
2027	0

5670 Camden Avenue Residential Project ***Energy Calculations Summary***

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor	PhaseDays	FuelConsumption
Demolition	Concrete/Industrial Saws	Diesel	Average	1	8	33	0.73	20	208.1
Demolition	Excavators	Diesel	Average	3	8	36	0.38	20	354.6
Demolition	Rubber Tired Dozers	Diesel	Average	2	8	367	0.4	20	2536.7
Site Preparation	Rubber Tired Dozers	Diesel	Average	3	8	367	0.4	10	1902.5
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4	8	84	0.37	10	537.1
Grading	Excavators	Diesel	Average	1	8	36	0.38	20	118.2
Grading	Graders	Diesel	Average	1	8	148	0.41	20	524.3
Grading	Rubber Tired Dozers	Diesel	Average	1	8	367	0.4	20	1268.4
Grading	Tractors/Loaders/Backhoes	Diesel	Average	3	8	84	0.37	20	805.6
Building Construction	Cranes	Diesel	Average	1	4	367	0.29	651	14965.8
Building Construction	Forklifts	Diesel	Average	3	4	82	0.2	651	6918.3
Building Construction	Generator Sets	Diesel	Average	1	4	14	0.74	651	1456.8
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	2	10	84	0.37	651	21851.7
Building Construction	Welders	Diesel	Average	1	4	46	0.45	651	2910.8
Paving	Pavers	Diesel	Average	2	8	81	0.42	20	587.9
Paving	Paving Equipment	Diesel	Average	2	8	89	0.36	20	553.7
Paving	Rollers	Diesel	Average	2	8	36	0.38	20	236.4
Architectural Coating	Air Compressors	Diesel	Average	1	6	37	0.48	20	115.1

ARB 2021, Low Emission Diesel (LED) Study: Biodiesel and Renewable Diesel Emissions in Legacy and New Technology Diesel Engines, November 2021
Average Value for CARB Reference Fuel - Nonroad Transient Cycle - BSFC = 0.054 gal/bhp-hr

Energy Calculations

5670 Camden Avenue Residential Project ***Summary***

Energy Calculations - Construction Vehicle Fuel

Source: AQ/GHG Appendix, CalEEMod Output, EMFAC2021 v1.0.2

Vehicle Type	Total VMT (mi)	mi/gal	gal	Vehicle Cat
Worker	608,501	26.90	22,619	LDA,LDT1,LDT2
Vendor	63,136	6.76	9,333	HHDT,MHDT
Hauling	18,820	5.89	3,196	HHDT
Onsite truck	0	5.89	0	HHDT
	690,457		**35,148**	**gallons**
	Combined VMT			

Note: Fuel Economy Factors are from EMFAC2021 for: Santa Clara

FIRSTCARBON
SOLUTIONS
FCS INTERNATIONAL, INC.

Attachment B:
Greenhouse Gas Reduction Strategy Checklist

CITY OF SAN JOSE GHGRS PROJECT COMPLIANCE CHECKLIST ATTACHMENT FOR THE 5670 CAMDEN AVENUE RESIDENTIAL PROJECT

Table A: General Plan Consistency

1) Consistency with the Land Use/Transportation Diagram (Land Use and Density)

Not Consistent. The project site is designated Public/Quasi Public (PQP) under the Envision San José 2040 General Plan and is zoned Multiple Residence (R-M) by the San José Zoning Ordinance. The PQP land use designation designates public land uses, including schools, colleges, corporation yards, homeless shelters, permanent supporting housing, libraries, fire stations, water treatment facilities, convention centers, museums, governmental offices, and airports. It also incorporates various private uses, such as private schools, daycare centers, hospitals, and public utilities. Residential uses are not allowed in this category, but the applicant is proposing to amend the General Plan Land Use Designation to Mixed Use Neighborhood, which does allow for residential development. The R-M zoning district is intended to reserve land for the construction, use and occupancy of higher density residential development and higher density residential-commercial mixed-use development.

The proposed project includes the demolition of the existing sports fields, associated structures, and improvements, and develop 108 townhouse units spread over 32 buildings. Twenty of the buildings would contain three units (3-plex), while the other 12 buildings would contain four units (4-plex).

As a low-density residential townhome development, the proposed project would not be consistent with the existing land use or zoning designations for the site. Therefore, the proposed project would not be compliant with this checklist item.

2) Implementation of Green Building Measures

MS-2.2: Encourage maximized use of on-site generation of renewable energy for all new and existing buildings.

Consistent. The proposed project would include rooftop solar panels as required by Title 24, Part 6, Subchapter 8 of the California Building Code. Therefore, the proposed project would be compliant with this checklist item.

MS-2.3: Encourage consideration of solar orientation, including building placement, landscaping, design and construction techniques for new construction to minimize energy consumption.

Consistent. The proposed project would include rooftop solar panels. As a residential development, the proposed project would be required to comply with the standards contained in the 2022 CBC, Title 24, Part 6, Subchapter 8, which includes rooftop solar panels. Therefore, the proposed project would be compliant with this checklist item.

MS-2.7: Encourage the installation of solar panels or other clean energy power generation sources over parking areas.

Consistent. The proposed project would include rooftop solar panels. As a residential development, the proposed project would be required to comply with the standards contained in the 2022 CBC, Title 24, Part 6, Subchapter 8, which includes rooftop solar panels. Therefore, the proposed project would be compliant with this checklist item.

MS-2.11: Require new development to incorporate green building practices, including those required by the Green Building Ordinance. Specifically, target reduced energy use through construction techniques (e.g., design of building envelopes and systems to maximize energy performance), through architectural design (e.g., design to maximize cross ventilation and interior daylight) and through site design techniques (e.g., orienting buildings on sites to maximize the effectiveness of passive solar design).

Consistent. The proposed project would include green building design features such as, providing outdoor lighting and new light fixtures that would comply with the San José Outdoor Lighting Policy, including lighting for pedestrian walkways and building exteriors, security lighting, and parking garage lighting. Furthermore, the proposed project would include rooftop solar panels consistent with the standards contained in the 2022 CBC, Title 24, Part 6, Subchapter 8. Therefore, the proposed project would be compliant with this checklist item.

MS-16.2: Promote neighborhood-based distributed clean/renewable energy generation to improve local energy security and to reduce the amount of energy wasted in transmitting electricity over long distances.

Consistent. The proposed project would include rooftop solar panels which would provide renewable energy on-site. As a low-rise residential development, the proposed project would be required to comply with the standards contained in the 2022 CBC, Title 24, Part 6, Subchapter 8, which includes rooftop solar panels. Therefore, the proposed project would be compliant with this checklist item.

3) Pedestrian, Bicycle & Transit Site Design Measures

CD-2.1: Promote the Circulation Goals and Policies in the Envision San José 2040 General Plan. Create streets that promote pedestrian and bicycle transportation by following applicable goals and policies in the Circulation section of the Envision San José 2040 General Plan.

Consistent. Currently, there are no existing bicycle lanes adjacent to the project site. The nearest bicycle route is a Bike Lane on Coleman Road approximately 0.55 miles south of the project site. This bike lane connects to an off-street bike path and other bike lanes in the City's network. In accordance with the City's Municipal Code Chapter 20.90, the proposed project would provide twenty-eight bicycle parking spaces. Common areas would also include bicycle racks and bicycle lockers. Sidewalks would also be provided on Camden Avenue and Singletree Lane.

Therefore, the proposed project would be compliant with this checklist item.

CD-2.5: Integrate Green Building Goals and Policies of the Envision San José 2040 General Plan into site design to create healthful environments. Consider factors such as shaded parking areas, pedestrian

connections, minimization of impervious surfaces, incorporation of stormwater treatment measures, appropriate building orientations, etc.

Consistent. In accordance with the City's Reach Code, the proposed project would include an all-electric design and would not include natural gas hook-ups or infrastructure. In addition, the proposed project would incorporate landscaping through the preservation of 11 existing trees on-site and the planting of 111 new trees, consistent with the City's plant palette and low water irrigation requirements.

Continuous sidewalks are currently provided along both Singletree Way, Camden Avenue, and Blossom Hill Road and throughout the residential neighborhoods surrounding the project site. The proposed project would include two stormwater treatment chambers within the site.

Therefore, the proposed project would be compliant with this checklist item.

CD-2.11: Within the Downtown and Urban Village Overlay areas, consistent with the minimum density requirements of the pertaining Land Use/Transportation Diagram designation, avoid the construction of surface parking lots except as an interim use, so that long-term development of the site will result in a cohesive urban form. In these areas, whenever possible, use structured parking, rather than surface parking, to fulfill parking requirements. Encourage the incorporation of alternative uses, such as parks, above parking structures.

Not Applicable. The project site is not located in the Downtown and Urban Village Overlay area.

CD-3.2: Prioritize pedestrian and bicycle connections to transit, community facilities (including schools), commercial areas, and other areas serving daily needs. Ensure that the design of new facilities can accommodate significant anticipated future increases in bicycle and pedestrian activity.

Consistent. The proposed project would include twenty-eight bicycle parking spaces along with 7 bicycle lockers. In addition, bicycle racks, and bicycle lockers would be located in common areas, which would encourage the use of alternative modes of transportation such as bicycles.

Bus transit services in the vicinity of the project site are provided by Santa Clara Valley Transportation Authority (VTA). Two bus stops part of route 27 are located within a short walking distance of the site, both along Blossom Hill Road. Bus route 64B is also located approximately 1 mile east of the site. The proposed project is in proximity to existing transit and would be compliant with this checklist item.

CD-3.4: Encourage pedestrian cross-access connections between adjacent properties and require pedestrian and bicycle connections to streets and other public spaces, with particular attention and priority given to providing convenient access to transit facilities. Provide pedestrian and vehicular connections with cross-access easements within and between new and existing developments to encourage walking and minimize interruptions by parking areas and curb cuts.

Consistent. Continuous sidewalks are currently provided along both Singletree Way, Camden Avenue, and Blossom Hill Road and throughout the residential neighborhoods surrounding the project site. The proposed project would include sidewalk improvements along Camden Avenue and Singletree Lane. In addition, the proposed project would not disrupt existing bicycle facilities or create conflicts with future bicycle facilities. Therefore, the proposed project would encourage pedestrian cross-access connections and would be compliant with this checklist item.

LU-3.5: Balance the need for parking to support a thriving Downtown with the need to minimize the impacts of parking upon a vibrant pedestrian and transit oriented urban environment. Provide for the needs of bicyclists and pedestrians, including adequate bicycle parking areas and design measures to promote bicyclist and pedestrian safety.

Not Applicable. The proposed project would not be located in Downtown. Therefore, This measure is not applicable to the proposed project.

TR-2.8: Require new development to provide on-site facilities such as bicycle storage and showers, provide connections to existing and planned facilities, dedicate land to expand existing facilities or provide new facilities such as sidewalks and/or bicycle lanes/paths, or share in the cost of improvements.

Consistent. The proposed project is a residential townhome development and would include twenty-eight bicycle parking spaces, as well as bicycle racks, and bicycle lockers in common areas. Sidewalk improvements are proposed along Camden Avenue and Singletree Lane.

TR-7.1: Require large employers to develop TDM programs to reduce the vehicle trips and vehicle miles generated by their employees through the use of shuttles, provision for car-sharing, bicycle sharing, carpool, parking strategies, transit incentives and other measures.

Not applicable. The proposed project would be residential in nature and would not result in permanent employment.

TR-8.5: Promote participation in car share programs to minimize the need for parking spaces in new and existing development.

Not Applicable. As a residential development the proposed project would not promote car share programs.

4) Water Conservation and Urban Forestry Measures

MS-3.1: Require water-efficient landscaping, which conforms to the State's Model Water Efficient Landscape Ordinance, for all new commercial, institutional, industrial and developer-installed residential development unless for recreation needs or other area functions.

Consistent. The proposed project would include a combination of trees, shrubs, groundcover, and turf, which would be installed along setbacks and in common areas on the project site consistent with the City's plant palette and low water irrigation requirements. Therefore, the proposed project would be compliant with this checklist item.

MS-3.2: Promote the use of green building technology or techniques that can help reduce the depletion of the City's potable water supply, as building codes permit. For example, promote the use of captured rainwater, graywater, or recycled water as the preferred source for non-potable water needs such as irrigation and building cooling, consistent with Building Codes or other regulations.

Consistent. The proposed project would include new appliances consistent with the California Building Code and City of San Jose requirements which would reduce potable water demand. The proposed project would include two stormwater treatment chambers within the site. Therefore, the proposed project would be compliant with this checklist item.

MS-19.4: Require the use of recycled water wherever feasible and cost-effective to serve existing and new development.

Not applicable. The proposed project would not include recycled water systems; however, the proposed project would comply with all mandatory regulations enforced by the City.

MS-21.3: Ensure that San José's Community Forest is comprised of species that have low water requirements and are well adapted to its Mediterranean climate. Select and plant diverse species to prevent monocultures that are vulnerable to pest invasions. Furthermore, consider the appropriate placement of tree species and their lifespan to ensure the perpetuation of the Community Forest.

Consistent. The proposed project would include a combination of trees, shrubs, groundcover, and turf, which would be installed along setbacks and in common areas on the project site consistent with the City's plant palette and low water irrigation requirements. Therefore, the proposed project would be compliant with this checklist item.

MS-26.1: As a condition of new development, require the planting and maintenance of both street trees and trees on private property to achieve a level of tree coverage in compliance with and that implements City laws, policies or guidelines.

Consistent. See Response to MS-21.3.

ER-8.7: Encourage stormwater reuse for beneficial uses in existing infrastructure and future development through the installation of rain barrels, cisterns, or other water storage and reuse facilities.

Not Applicable. Not proposed as part of the project. The project would include drought-tolerant landscaping consistent with City laws, policies, and guidelines. The proposed project would include two stormwater treatment chambers within the site. The treatment chambers would capture stormwater runoff from the site and provide for improved on-site irrigation of the landscaping, thereby reducing water consumption.

Table B: 2030 Greenhouse Gas Reduction Strategy Compliance

Part 1: Residential Projects Only

Zero Net Carbon Residential Construction.

Compliant. The proposed project would comply with the City's reach code and would be designed to be all-electric and would not include natural gas infrastructure or appliances. The proposed project would include rooftop solar panels which would provide renewable energy on-site. As a residential development, the proposed project would be required to comply with the standards contained in the 2022 CBC, Title 24, Part 6, Subchapter 8, which includes rooftop solar panels.

Part 2: Residential and Non-Residential Projects

Renewable Energy Development

Compliant. The proposed project would include rooftop solar panels. As a residential development, the proposed project would be required to comply with the standards contained in the 2022 CBC, Title 24,

Part 6, Subchapter 8, which includes rooftop solar panels. Therefore, the proposed project would be compliant with this checklist item.

Building Retrofits – Natural Gas

Not applicable. The proposed project would involve the new development of residences and would not constitute a renovation. Nonetheless, the proposed project would include an all-electric design and would not include natural gas hook-ups or infrastructure.

Zero Waste Goal

Compliant. The proposed project would be served by Republic Services, which provides organic, non-organic garbage and recycling services, and GreenWaste Recovery would collect yard trimmings and provide street sweeping services. The proposed project would be required to divert at least 65 percent of waste generated during construction and demolition activities, in compliance with SB 1374 and CALGreen Sections 4.408, 5.408, 301.1.1, and 301.3.

Caltrain Modernization

Not applicable. The proposed project is not located within 0.5 mile radius of the nearest Caltrain station. However, the proposed project is within walking distance to nearby bus stations.

Water Conservation

Compliant. The proposed project would include the installation of stormwater treatment chambers for the capture and treatment of stormwater. The treatment chambers would provide for improved on-site irrigation of the landscaping, thereby reducing water consumption.