GOOGLE MIDDLEFIELD PARK MASTER PLAN AIR QUALITY ASSESSMENT

Mountain View, California

April 20, 2022

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INTRODUCTION

The purpose of this report is to address air quality and community health risk impacts associated with the proposed mixed-use Google Middlefield Park Master Plan project located in Mountain View, California. The air quality impacts from this project would be associated with demolition of the existing land uses, construction of the new buildings and infrastructure, and operation of the project. Air pollutants associated with construction and operation of the project were predicted using appropriate models. In addition, the potential project health risk impacts (includes construction and operation) and the impact of existing toxic air contaminant (TAC) sources affecting the nearby and proposed sensitive receptors were evaluated. The analysis was conducted following guidance provided by the Bay Area Air Quality Management District (BAAQMD).[1]

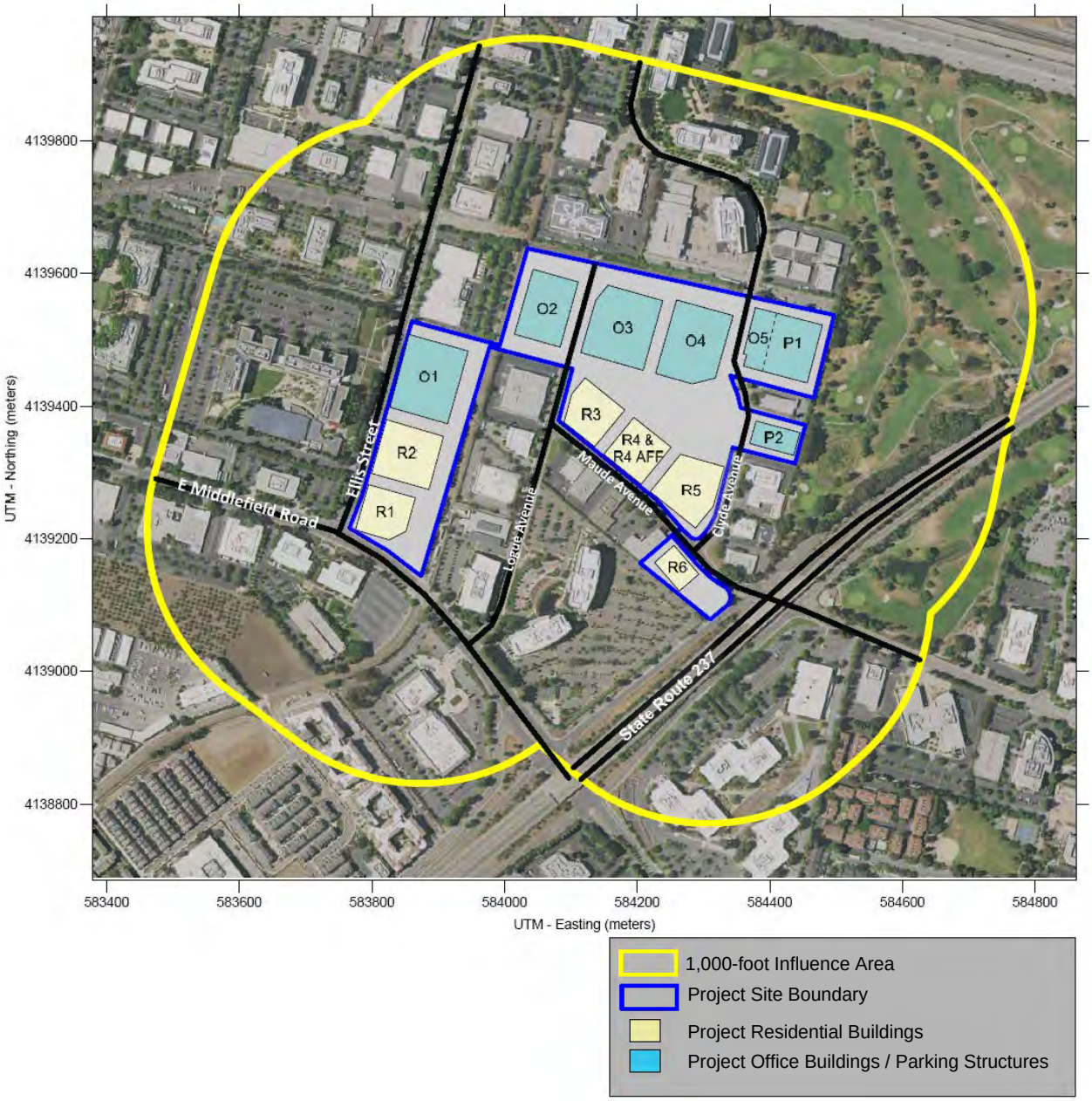
PROJECT DESCRIPTION

The proposed Middlefield Park Master Plan (MPMP) area is located to the northeast of the Ellis Street and East Middlefield Road intersection, within the Mixed-Use Character Area of the East Whisman Precise Plan (EWPP). Figure 1 shows the MPMP. The MPMP area totals approximately 40 acres and consists of 14 parcels. Implementation of the proposed MPMP would allow for the demolition of the existing improvements (i.e., approximately 684,646 square feet of office uses, related surface parking areas, and landscaping) and development of:

- Five office buildings totaling 1,317,000 square feet of office uses (see buildings O1 through O5 on Figure 1) and resulting in 632,355 square feet of net new office square footage;
- Two affordable residential buildings (see buildings R4 AFF and R6 AFF) and five residential mixed-use buildings (R1 through R5) with a total of up to 1,900 residential units (including up to 380 affordable units in Building R4 AFF and Building R6 AFF), up to 30,000 square feet of ground floor retail space, and 20,000 square feet of community/civic uses (see buildings R1 through R5 on Figure 1);
- Two parking structures for shared district parking within MPMP (see buildings P1 and P2 on Figure 1);
- Dedication of land for three new public parks totaling approximately 7.28 acres (see Maude Park, Canopy Walk, and Gateway Park) and a 2.87-acre privately owned and publicly accessible park developed by the applicant (see Ellis Park). In total, this is up to 10.15 acres of park open space within the MPMP; and
- New vehicular circulation, including up to six private streets and a modification to Logue Avenue (a public street), new on-street and off-street bicycle and pedestrian improvements, and new landscaping and trees.
- As a project option, the applicant is considering development of a private district utilities system with underground utility lines to serve some buildings within the MPMP with water, wastewater, recycled water, thermal energy (heating and cooling), and electric power (refer to Section 1.2.6). If the District Utilities System Option is selected, one of the office building (O1) would contain a 45,000 square foot Central Utility Plant (CUP).

[1] Bay Area Air Quality Management District, 2017. *CEQA Air Quality Guidelines*, May. Web: https://www.baaqmd.gov/~/media/files/planning-and-research/ceqa/ceqa_guidelines_may2017-pdf.pdf?la=en

Figure 1. Google MPMP and 1,000-foot Area



In addition to the improvements identified, the project includes a Vesting Tentative Map to create up to 18 lots, up to 1,900 condominium lots, and up to 140 vertical lots within the MPMP, as well as a Development Agreement to grant implementation of entitlements over a 20-year period. Other aspects of the MPMP include green building and emissions reduction features; construction activities; heritage trees and landscaping; site access, circulation, and parking; and Transportation Demand Management (TDM) plan – all of which are described below.

Master Plan Buildings

A summary of the proposed buildings is included in Table 1. The maximum building heights would range from 60 to 125 feet. The maximum excavation depth would range from 20 to 50 feet. Parking for all of the office and residential buildings would be provided in surface, above ground, and/or below ground parking facilities.

Parks and Open Space

The MPMP includes a network of privately-owned publicly accessible open space, dedicated public space, and private open space. Four parks (Ellis Park, Maude Park, Canopy Walk, and Gateway Park, totaling up to 10.15 acres) are planned within the MPMP as described below. In particular, the land dedicated to the City as Canopy Walk is anticipated for a future bicycle/pedestrian overcrossing of the VTA light rail line. The overcrossing would be located adjacent to the northeast corner of Building O1 and would connect the existing Hetch-Hetchy/TOD Trail from Stevens Creek through the master plan area into Sunnyvale via Maude Avenue. The MPMP also includes 2.23 acres of private open space around the buildings that would consists of landscaping.

Utilities

The preferred option for the proposed project is to connect to existing utility lines in Ellis Street, East Middlefield Road, Logue Avenue, Maude Avenue, and Clyde Avenue for water, stormwater, wastewater, and stormwater service. The project would connect to the existing electrical transmission infrastructure for electrical service. Ground floor commercial areas of Buildings R1 and R2 would connect to existing PG&E natural gas lines in Ellis Street. The remaining residential and commercial buildings in the MPMP area would be 100 percent electric. Based on the anticipated increase in load demand for the project, PG&E will extend 12kV underground circuits to the project site via a connection at Ellis Street for distribution to the rest of the MPMP. A private nitrogen gas line that runs through the project site will be relocated during project construction. Additionally, the project would include undergrounding of some existing electrical utility lines within the project boundaries.

Alternatively, the project has a design option to construct a private district utility system with underground utility lines to serve some buildings within the MPMP with water, wastewater, recycled water, thermal energy (heating and cooling), and electric power. The District Utility System would include four components: 1) a central utilities plant (CUP), 2) temporary air sourced heat pump (ASHP), 3) district distribution system, and 4) microgrid system. These components are described in detail below.

Table 1. Proposed MPMP Buildings

Building	Uses	Gross SF	Units	Vehicle Parking Provided
O1	Office	441,939	--	450 spaces (two levels below ground)
O2	Office	190,000	--	250 spaces (one level above ground)
O3	Office	310,000	--	150 spaces (one level above ground)
O4	Office	292,212	--	150 spaces (one level above ground)
O5/P1	Office	82,849	--	1,364 spaces (one level below, four above ground)
P2	Community/ Civic[2]	4,000	--	300 spaces (four levels above ground)
R1	Residential	320,000	400	354 spaces (one below ground, one above ground)
	Retail	18,308	--	
R2	Residential	363,000	450	337 spaces (one level below, one level above ground)
	Retail	4,200	--	
	Community/ Civic	8,434	--	
R3	Residential	263,000	270	244 spaces (one level below ground, one level above ground)
	Retail	2,877	--	
	Community/Civic	1,666	--	
R4 AFF	Residential (Affordable)	190,000	210	168 spaces (one level below ground and one level above ground)
R4	Residential	95,000	90	92 spaces (one level below ground, one level above ground)
	Retail	1,955	--	
	Community/Civic	1,666	--	
R5	Residential	340,000	310	311 spaces (one level below ground, one level above ground)
	Retail	2,660	--	
	Community/Civic	3,234	--	
R6 AFF	Residential (affordable)	155,000	170	136 spaces (one level below ground, one level above ground)
Fairchild Barns in Ellis Park	Community/ Civic	1,000	--	N/A
--	Office	1,317,000	--	--
--	Community/ Civic	20,000	--	--
--	Residential	1,726,000	1,900	--
--	Retail	30,000	--	--

[2] Civic/community space would include uses such as community meeting space or space occupied by non-profit organizations.

Central Utility Plant

With this alternative, the MPMP would include an approximately 45,000-square foot CUP, which would provide wastewater treatment, recycled water production, heating, and cooling for the majority of the buildings within the MPMP.[3] The CUP would be located within Building O1 either at ground level or in one of the below ground parking levels. Cooling towers would be constructed on the rooftop of Building O1 to provide the additional heat rejection for the CUP. The air source heat pumps installed initially on the rooftops at R1/R2 in Phase I will be relocated to the rooftop of O1 in Phase II and would be 10 feet in height, and the rooftop open cooling towers would be approximately 20 feet in height and have a maximum screenwall height of approximately 130 feet above ground level.

Wastewater Treatment Plant and Recycled Water Generation

Under the District Utilities Systems option, the CUP would include a wastewater treatment plant that would have capacity to treat an average weather flow of approximately 250,000 gallons of wastewater per day. The proposed wastewater treatment plant would only serve wastewater generated by the connected buildings in the MPMP.

It is estimated that full build out of the MPMP would generate approximately 231,170 gallons per day of wastewater, which is 18,830 gallons per day in excess of the treatment capacity of the proposed wastewater treatment plant.

When the treatment plant has reached its daily capacity or in the event that the on-site treatment plant is offline, the excess wastewater generated by the MPMP would be discharged to the City's municipal wastewater conveyance system and treated at the Palo Alto Regional Water Quality Control Plant (RWQCP) via existing sanitary sewer lines located in Ellis Street. Solids produced by the wastewater treatment plan on the project site would either be managed on-site, hauled to a disposal facility or combined with excess wastewater generated by the MPMP and discharged through the City's municipal wastewater conveyance system.

Wastewater generated by the MPMP would be conveyed via gravity from each building through a series of sanitary sewer lines within the MPMP area to the proposed CUP/wastewater treatment plant. Once at the wastewater treatment plant, wastewater would undergo a multi-step treatment process including screening, primary filtration, secondary biological treatment, tertiary treatment, and disinfection to remove solids, pollutants, and harmful pathogens.

Recycled water produced by the wastewater treatment plant would achieve recycled water standards as described under Title 22 of the California Code of Regulations and would be used for non-potable demands on-site including toilet flushing, cooling, and irrigation. Excess recycled water generated at the CUP would be stored in multiple tanks totaling 125,000 gallons within the basement of Building O1 and could be made available to adjacent properties outside of the MPMP area or open spaces within the MPMP area in order to further reduce potable water use.

[3] Building R4 AFF and R6 AFF would be served by municipal utilities under the District Utilities System option.

Appropriate measures and technology solutions would be designed and implemented to ensure objectionable odors generated by the wastewater treatment plant are within the Bay Area Air Quality Management District (BAAQMD) compliance limits and do not impact the public. Odor controls would be designed using the best available technology and consistent with regulatory requirements. The most odorous processes resulting in the production of hydrogen sulfide and ammonia would be enclosed and critically controlled. The project would also include regular monitoring of complaints and reporting on the success of odor controls to regulatory agencies. Specific solutions may include:

- Active ventilation (foul air blowers) to odor control units (e.g., carbon absorption, biofiltration, or ammonia scrubbers);
- House odorous processes in a ventilated enclosure;
- Wastewater screenings and grit would be washed, dewatered, and compacted before being stored in enclosed, odor-proof refuse containers;
- Haul any stored residuals off-site at regular intervals; and
- Ferrous chloride injection for hydrogen sulfide removal in primary sedimentation tanks to chemically enhanced primary treatment as needed for odor control at specific wastewater treatments processes.

Buildings R4 AFF and R6 AFF would not be served by the on-site wastewater treatment plant and would connect directly to the City's municipal wastewater conveyance system. All other buildings within the proposed MPMP would be served by the on-site wastewater treatment plant and have a backup connection to the City's municipal wastewater conveyance system, which could be used as a primary connection should future owners or building occupants choose not to operate the on-site wastewater treatment plant. Wastewater would be collected at each building via a low-pressure sewer network and routed to the wastewater treatment plant within the CUP. The wastewater treatment plant would be installed in Phase II of construction. During Phase I of construction, a temporary connection to the municipal sewer system will be required.

Building Heating and Cooling

Heating and cooling for all MPMP buildings would be provided by geothermal energy and a combination of heat recovery chillers, air source heat pumps and cooling towers. The geothermal system would include tubing installed within dedicated bores under the various buildings connected to pipes in the district utility distribution system, through which water circulates below the ground surface (BGS). Because ground temperatures remain relatively stable throughout the year, water within the pipes underground is warmer or cooler than the average air temperature, when water is circulated through the pipes from beneath the ground throughout the building, it provides a passive warming or cooling effect in the building. The ASHP would be located on the roof of Building O1 and would distribute hot or chilled water to the various buildings. Heat recovery chillers would be located in a mechanical room within the Building O1.

Construction of the geothermal system would include drilling and installation of the vertical geo bores beneath each of the proposed MPMP buildings and connection of the distribution system. It is estimated that approximately 2,820 vertical bores of six inches in diameter and spaced 18 feet apart would be drilled approximately 85 to 110 feet BGS of each proposed building.

A temporary set of ASHP units would be installed on the rooftop of Buildings R1 and R2 to provide temporary heating and cooling for buildings R1 and R2 prior to construction of the CUP (which is to be constructed in Phase II). Those ASHP would then be transferred to the rooftop of Building O1 during Phase II of construction.

Microgrid System

The proposed MPMP buildings, with the exception of R1 and R2, would be all electric – no natural gas would be used. Natural gas connections would be provided in the ground floors of Building R1 and R2 only for commercial/restaurant uses.[4]

It is estimated that the MPMP would use a total of approximately 35,700,000 kWh per year of electricity. Approximately 20 percent of the electricity demand for the proposed MPMP would be generated on-site by rooftop photovoltaic panels located on each of the proposed buildings under the project without District Utilities System Option. Under the District Utilities System Option, a greater rooftop surface area would be available for photovoltaic panels because mechanical equipment for building heating and cooling which is traditionally located on the roof would be located in the CUP under this project option, allowing for maximum solar generation on-site. Under the project with District Utilities System Option, approximately 30 percent (or 10.7 million kWh per year) of the electricity demand for the proposed project would be generated on-site by rooftop photovoltaic panels located on each of the proposed buildings. The project's remaining electricity demand (under either option) would be supplied by the PG&E distribution network. Solar energy generated on-site would be stored within on-site battery storage units. The battery units would be located within the CUP either in the basement of Building O1 or in an enclosure adjacent to the building at grade and would be pad-mounted and seismically restrained on the finished grade/floor per manufacturer recommendations and include proper catchment systems designed for protection from coolant leakage and fire.[5]

District Distribution System and Building Connections

In order to transport wastewater, recycled water, hot and chilled water, and electricity to each of the buildings and parks in the Master Plan, a district distribution system consisting of underground cabling and a series of below ground insulated pipes ranging from four to 16 inches in diameter, would be constructed. The underground cabling and pipes would connect and provide service between the buildings, CUP, and microgrid system. Additionally, each building would include a connection room with pumping and energy transfer equipment for the thermal network as well as break-out tank and backflow preventers for the recycled water supply. Each connection room will also include metering and control equipment to track overall consumption, monitor efficiency and enable integrated control.

[4] Per Municipal Code Chapters 8, 14, and 24, all new construction buildings are required to be electric. Natural gas may be used for commercial spaces with specialized equipment that cannot operate with electric service (e.g., a restaurant with a pizza oven) subject to City approval.

[5] Battery space selection and design shall be coordinated with the City Fire Marshal's office for fire hazard protection.

Emergency Generators

The MPMP would include 11 emergency back-up generators located within the basements of Buildings R1 through R3, R4/R4 AFF, R5, R6 AFF, and O1 through O5. All generators would be diesel powered. The seven generators located within the proposed residential buildings would have a power rating of 500 kilowatts (kW) and the generators within the proposed office buildings would have a power rating of 900 kW.

Green Building and Emissions Reduction Features

Consistent with the Development Standards and Bonus FAR Standards for non-residential development projects within the EWPP area, the proposed office buildings would meet the intent of Leadership in Energy and Environmental Design (LEED) Platinum. Residential buildings requesting Bonus FAR would achieve the equivalent of a GreenPoint rating of 120 points or better. In addition to the Green Building standards required by the EWPP, the preferred project would also incorporate the following green building features:

Photovoltaic System: At least 50 percent of the rooftops of each building within the MPMP area would be equipped with rooftop photovoltaic systems. It is estimated that approximately 20 percent of the MPMP's electricity demand would be provided by solar power generated on-site.

Water Efficient Landscaping: Water efficient irrigation systems would support native, drought tolerant plants compatible with recycled water through the MPMP area.

If the District Utilities System is selected, the project would also include the following green building measures:

Geothermal System: The MPMP would include a district thermal system which would provide heating and cooling to the proposed buildings via a closed loop system to optimize efficiency as described above.

Microgrid System: Each building would be equipped with a rooftop photovoltaic system. Solar energy generated on-site would be transported via electric lines below ground to the battery units in Building O1.

Water Efficient Building Systems: The MPMP would include an on-site wastewater treatment plant which would supply recycled water to the project. All buildings will be dual plumbed, served by recycled water supplies for mechanical operations, irrigation, and toilet flushing.

To meet current building requirements, residential units would include heating and ventilation, air conditioning (HAVAC) systems with enhanced filtration that is rated MERV13 or greater.

Construction Activities and Phasing

Construction activities associated with the MPMP would include demolition, site preparation, grading and excavation, building construction, architectural coatings, paving, and landscaping. The build out of the MPMP would occur over four phases and take a total of approximately eight years and five months. The maximum depth of excavation required would range from five- to 50-feet BGS for the proposed buildings and 85 to 110 feet BGS for geothermal bores under the District Utilities System Option. Approximately 749,423 cubic yards of soil would be exported from the site to accommodate the proposed below ground parking, building foundations and footings, and utilities. If the District Utilities System Option is selected, the project would require export of up to 789,423 cubic yards of soil to accommodate the below ground parking, building foundations and footings, and utilities (including geo bores). Construction staging and parking would primarily occur on-site, with the exception of Phase I construction, when two parcels located at 405 Clyde Avenue and 580 Clyde Avenue, adjacent to the project site, would be used for construction staging and parking.

Transportation Demand Management

The EWPP requires office and R&D projects with new construction or additions greater than 10,000 square feet provide a TDM plan with programs and measures to reduce vehicle trips. Pursuant to the Precise Plan, the proposed project is required to incorporate the following TDM measures:

Nonresidential TDM Requirements

- **TDM Plan Site Requirements:** The following site design features shall be in the project to adhere to the required trip cap:
    - Priority parking for carpools and vanpools.
    - Bicycle parking and shower and changing facilities as defined by Chapter 3 of the Precise Plan.
    - Maximum parking and carshare parking as defined by Chapter 3 of the Precise Plan.
    - Site design that supports alternative modes, such as orienting building entrances toward sidewalks, transit stops, and bicycle facilities.

- **TDM Plan Operational Requirements:** The TDM plan shall include the following minimum operational measures though other measures may be needed to achieve the required trip caps:
    - The property owner shall join the Mountain View Transportation Management Association (MVTMA). Tenants may join in lieu of property owners, but if a tenant is unable to maintain membership, the property owner shall be responsible.
    - Monetary incentives for alternative modes, such as subsidized transit passes, bike-share or carpools for office employees.
    - Monetary incentives for alternative modes, such as subsidized transit passes or bike-share and/or unbundled parking for residents.

- **TDM Plan Alternative Requirements:** The TDM plan may include other measures to reach required trip targets, including but not limited to:
    - Shared bicycles if a bikeshare service is not available nearby
    - Parking cash-out, paid parking, or other parking monetization
    - Guaranteed ride home program
    - Telecommute support
    - Alternative work schedules

- **Parking Rationale:** The TDM plan shall demonstrate the parking provided is adequate to serve the needs of the development and shall consider the project's trip-reduction measures.

- **Implementation:** The TDM plan shall identify how the required measures would be implemented and describe other measures proposed to meet or exceed trip reduction goals.

- **Trip Cap:** The Precise Plan established a long-term vehicle trip cap across the entire East Whisman area of 0.83 a.m. and 0.72 p.m. peak-hour trips per 1,000 net new square feet across all office and R&D sites.[6] This area wide trip cap is implemented through a site-specific trip cap, as established through the Precise Plan's Office Trip Cap Phasing Program and Administrative Guidelines. The proposed project would implement a trip cap of 1,097 a.m. peak hour trips and 952 p.m. peak hour trips.

Monitoring and Enforcement: Annual monitoring of the TDM plan shall be conducted through a third party and paid for by the property owner or their representative. It shall include driveway counts and a survey of employee travel modes.

Residential TDM Requirements

- **TMA Membership:** New residential developments with at least 100 units shall become Mountain View TMA members.

- **TDM Plan Site Requirements**: New residential development shall include the following TDM site measures:
    - Maximum parking and carshare parking as defined by Chapter 3 of the Precise Plan
    - Bicycle parking as defined by Chapter 3 of the Precise Plan
    - Residential projects over 100 units shall provide a shared, common, collaborative workspace available to residents and their guest, which can be offered in partnership with nearby residences or businesses.
    - Site design that supports alternative modes, such as orienting building entrances toward sidewalks, transit stops, and bicycle facilities
    - Accessible, secure storage space for grocery and package delivery shall be provided

[6] The Precise Plan identifies an area-wide average of 0.95 a.m. and 0.88 p.m. peak-hour trips per 1,000 square feet of office and R&D sites to minimize vehicle trips into and out of East Whisman gateways. The 600 Ellis Street transportation analysis, prepared by Fehr Peers dated September 2020, analyzed the combination of existing (legacy) office development not subject to TDM requirements and future new office development that would be subject to TDM requirements in order to refine the trip generation rate necessary for future new office development to be compliant with the gateway trip cap volumes. The resulting trip cap for new office development is 0.83 a.m. and 0.72 p.m., which includes the incorporation of TDM measures required by the Precise Plan.

in multifamily development.

- **TDM Plan Operational Requirements:** The TDM plan shall include the following operational measures, or equivalent:
    - Property managers or homeowner associations (HOAs) shall provide access to shared bicycles if bikeshare service is not available nearby.
    - Property managers or HOAs shall provide local transportation information to all residents through a website, leasing office, or initial leasing information.
    - Property managers or HOAs shall support Safe Routes to Schools programs including facilitating parent gatherings and coordination of walking school buses and/or bike trains.
    - Monetary incentives for alternative modes, such as subsidized transit passes or bike-share for residents and/or unbundled parking.

- **Parking Rationale:** The TDM plan shall demonstrate the parking provided is adequate to serve the needs of the development and shall consider the project's trip-reduction measures.

- **TDM Monitoring:** Annual TDM monitoring shall be conducted by a third party and paid for by the property owner or their representative. It shall include parking counts to measure the peak parking demand and resulting parking rate. The monitoring results shall be submitted to the City.

In addition to TDM measures required in the Precise Plan, the project would implement the following measures:

- **Design Elements:** The project would fund and construct (or some combination of both) area bicycle and pedestrian network improvements on project site street frontages along Ellis Street, East Middlefield Road, and Logue, Maude, and Clyde Avenues. The mixed-use character of the project would reduce the need for vehicle trips due to increased employment and housing opportunities within a half-mile of the existing Middlefield light rail station combined with potential on-site food, retail, services, and recreation opportunities.

- **Operational Elements:** The project would include commuter shuttle services for office uses, carshare services, first-mile/last-mile micro mobility services, an on-site transportation coordinator, flexible work schedules for employees, marketing and information for the proposed TDM program, pre-tax commuter benefits, biking incentives, bike buddy program, bike loaner program, rideshare matching services, and an expanded carpool matching program.

Air Pollutants and Contaminants

Air pollutants are governed by multiple federal and state standards to regulate and mitigate health impacts. At the federal level, there are six criteria pollutants for which National Ambient Air Quality Standards (NAAQS) have been established: carbon monoxide (CO), lead (Pb), nitrogen dioxide (NO_2), ozone (O_3), suspended particulate matter (PM: $PM_{2.5}$ and PM_{10}), and sulfur dioxide (SO_2). California sets standards, similar to the NAAQS as California Ambient Air Quality Standards (CAAQS). Health effects of the primary criteria pollutants (i.e., the NAAQS) and their potential sources are described below and summarized in Table 2. Note that California includes pollutants or contaminants that are specific to certain industries and not associated with this project. These include hydrogen sulfide and vinyl chloride.

Ozone

Ozone is a secondary air pollutant produced in the atmosphere through a complex series of photochemical reactions involving reactive organic gases (ROG) and oxides of nitrogen (NO_X). The main sources of ROG and NO_X, often referred to as ozone precursors, are combustion processes (including combustion in motor vehicle engines) and the evaporation of solvents, paints, and fuels. In the Bay Area, automobiles are the single largest source of ozone precursors. Ozone is referred to as a regional air pollutant because its precursors are transported and diffused by wind concurrently with ozone production through the photochemical reaction process. Ozone causes eye irritation, airway constriction, shortness of breath, and can aggravate existing respiratory diseases such as asthma, bronchitis, and emphysema.

Carbon Monoxide

Carbon monoxide is an odorless, colorless gas usually formed as the result of the incomplete combustion of fuels. The single largest source of CO is motor vehicles. While CO transport is limited, it disperses with distance from the source under normal meteorological conditions. However, under certain extreme meteorological conditions, CO concentrations near congested roadways or intersections may reach unhealthful levels that adversely affect local sensitive receptors (e.g., residents, schoolchildren, the elderly, hospital patients, etc.). Typically, high CO concentrations are associated with roadways or intersections operating at unacceptable levels of service (LOS) or with extremely high traffic volumes. Exposure to high concentrations of CO reduces the oxygen-carrying capacity of the blood and can cause headaches, nausea, dizziness, fatigue, impair central nervous system function, and induce angina (chest pain) in persons with serious heart disease. Very high levels of CO can be fatal.

Nitrogen Dioxide

Nitrogen Dioxide is a reddish-brown gas that is a byproduct of combustion processes. Automobiles and industrial operations are the main sources of NO_2. Aside from its contribution to ozone formation, NO_2 also contribute to other pollution problems, including a high concentration of fine particulate matter, poor visibility, and acid deposition. NO_2 may be visible as a coloring component on high pollution days, especially in conjunction with high ozone levels. NO_2 decreases lung

function and may reduce resistance to infection. On January 22, 2010 the U.S. Environmental Protection Agency (EPA) strengthened the health-based NAAQS for NO_2.

Sulfur Dioxide

Sulfur dioxide is a colorless, irritating gas formed primarily from incomplete combustion of fuels containing sulfur. Industrial facilities also contribute to gaseous SO_2 levels in the region. SO_2 irritates the respiratory tract, can injure lung tissue when combined with fine particulate matter, and reduces visibility and the level of sunlight.

Particulate Matter

Particulate matter is the term used for a mixture of solid particles and liquid droplets found in the air. Coarse particles are those that are larger than 2.5 microns but smaller than 10 microns (PM_{10}). $PM_{2.5}$ refers to fine suspended particulate matter with an aerodynamic diameter of 2.5 microns or less that is not readily filtered out by the lungs. Nitrates, sulfates, dust, and combustion particulates are major components of PM_{10} and $PM_{2.5}$. These small particles can be directly emitted into the atmosphere as by-products of fuel combustion, through abrasion, such as tire or brake lining wear, or through fugitive dust (wind or mechanical erosion of soil). They can also be formed in the atmosphere through chemical reactions. Particulates may transport carcinogens and other toxic compounds that adhere to the particle surfaces and can enter the human body through the lungs.

Lead

Lead is a metal found naturally in the environment as well as in manufactured products. The major sources of lead emissions have historically been mobile and industrial sources. As a result of the phase-out of leaded gasoline, metal processing is currently the primary source of lead emissions. The highest levels of lead in air are generally found near lead smelters. Other stationary sources are waste incinerators, utilities, and lead-acid battery manufactures.

Twenty years ago, mobile sources were the main contributor to ambient lead concentrations in the air. In the early 1970s, the U.S. EPA established national regulations to gradually reduce the lead content in gasoline. In 1975, unleaded gasoline was introduced for motor vehicles equipped with catalytic converters. The EPA banned the use of leaded gasoline in highway vehicles in December 1995. As a result of the EPA's regulatory efforts to remove lead from gasoline, emissions of lead from the transportation sector and levels of lead in the air decreased dramatically.

Toxic Air Contaminants (TACs)

In addition to the criteria pollutants discussed above, Toxic Air Contaminants (TACs) are another group of pollutants of concern. TACs are injurious in small quantities and are regulated by the EPA and the California Air Resources Board (CARB). Some examples of TACs include benzene, butadiene, formaldehyde, and hydrogen sulfide. The identification, regulation, and monitoring of TACs is relatively recent compared to that for criteria pollutants.

High volume freeways, stationary diesel engines, and facilities attracting heavy and constant diesel vehicle traffic (distribution centers, truck stops) were identified as posing the highest risk to adjacent receptors. Other facilities associated with increased risk include warehouse distribution centers, large retail or industrial facilities, high volume transit centers, or schools with a high volume of bus traffic. Health risks from TACs are a function of both concentration and duration of exposure.

Table 2. Health Effects of Air Pollutants

Pollutants	Sources	Primary Effects
Carbon Monoxide (CO)	• Incomplete combustion of fuels and other carbon-containing substances, such as motor exhaust. • Natural events, such as decomposition of organic matter.	• Reduced tolerance for exercise. • Impairment of mental function. • Impairment of fetal development. • Death at high levels of exposure. • Aggravation of some heart diseases (angina).
Nitrogen Dioxide (NO_2)	• Motor vehicle exhaust. • High temperature stationary combustion. • Atmospheric reactions.	• Aggravation of respiratory illness. • Reduced visibility. • Reduced plant growth. • Formation of acid rain.
Ozone (O_3)	• Atmospheric reaction of organic gases with nitrogen oxides in sunlight.	• Aggravation of respiratory and cardiovascular diseases. • Irritation of eyes. • Impairment of cardiopulmonary function. • Plant leaf injury.
Lead (Pb)	• Contaminated soil.	• Impairment of blood functions and nerve con-struction. • Behavioral and hearing problems in children.
Suspended Particulate Matter ($PM_{2.5}$ and PM_{10})	• Stationary combustion of solid fuels. • Construction activities. • Industrial processes. • Atmospheric chemical reactions.	• Reduced lung function. • Aggravation of the effects of gaseous pollutants. • Aggravation of respiratory and cardiorespiratory diseases. • Increased cough and chest discomfort. • Soiling. • Reduced visibility.
Sulfur Dioxide (SO_2)	• Combustion of sulfur-containing fossil fuels. • Smelting of sulfur-bearing metal ores. • Industrial processes.	• Aggravation of respiratory diseases (asthma, emphysema). • Reduced lung function. • Irritation of eyes. • Reduced visibility. • Plant injury. • Deterioration of metals, textiles, leather, finishes, coatings, etc.
Toxic Air Contaminants	• Cars and trucks, especially diesels. • Industrial sources such as chrome platers. • Neighborhood businesses such as dry cleaners and service stations. • Building materials and product.	• Cancer. • Chronic eye, lung, or skin irritation. • Neurological and reproductive disorders.

Source: CARB, 2009. ARB Fact Sheet: Air Pollution and Health, see: https://www.arb.ca.gov/research/health/fs/fs1/fs1.htm accessed May 1, 2018

Setting

The project is located in Santa Clara County, which is part of the San Francisco Bay Area Air Basin. The Air Basin includes the counties of San Francisco, Santa Clara, San Mateo, Marin, Napa, Contra Costa, and Alameda, along with the southeast portion of Sonoma County and the southwest portion of Solano County.

This Project is within the jurisdiction of the BAAQMD. Air quality conditions in the San Francisco Bay Area have improved significantly since the BAAQMD was created in 1955. Ambient concentrations of air pollutants, and the number of days during which the region exceeds air quality standards, have fallen dramatically. Exceedances of air quality standards occur primarily during meteorological conditions conducive to high pollution levels, such as cold, windless winter nights or hot, sunny summer afternoons.

Local Climate and Air Quality

Air quality is a function of both local climate and local sources of air pollution. Air quality is the balance of the natural dispersal capacity of the atmosphere and emissions of air pollutants from human uses of the environment. Climate and topography are major influences on air quality.

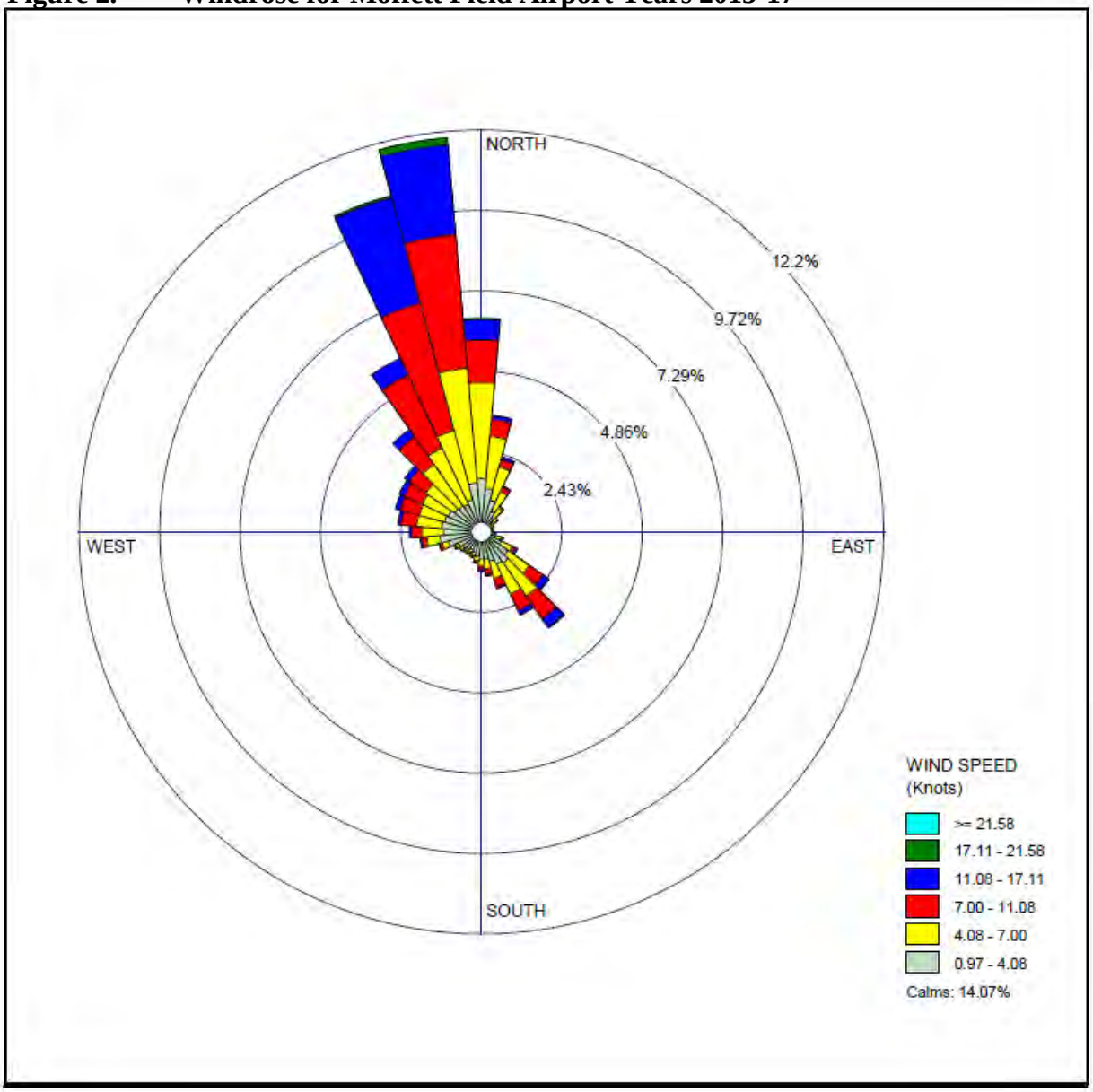
Climate and Meteorology

During the summer, mostly clear skies result in warm daytime temperatures and cool nights in the Santa Clara Valley. Winter temperatures are mild, except for very cool but generally frost-less mornings. Further inland where the moderating effect of the bay is not as strong, temperature extremes are greater. Rainfall amounts are modest, ranging from 13 inches in the lowlands to 20 inches in the hills. Wind patterns are influenced by local terrain, with a northwesterly breeze in response to the sea breeze infiltrating San Francisco Bay typically developing during the daytime. Winds are usually stronger in the spring and summer. The southerly winds experienced are more common in late fall and winter. The wind rose shown in Figure 2 describes the patterns and frequency of winds at the project site. Wind data were collected from 2013 through 2017.

Air Pollution Potential

Ozone and fine particle pollution, or $PM_{2.5}$, are the major regional air pollutants of concern in the San Francisco Bay Area. Ozone is primarily a problem in the summer, and fine particle pollution in the winter. Most of Santa Clara County is well south of the cooler waters of the San Francisco Bay and far from the cooler marine air which usually reaches across San Mateo County in summer. Ozone frequently forms on hot summer days when the prevailing seasonal northerly winds carry ozone precursors southward across the county, causing health standards to be exceeded. Santa Clara County experiences many exceedances of the $PM_{2.5}$ standard each winter. This is due to the high population density, wood smoke, industrial and freeway traffic, and poor wintertime air circulation caused by extensive hills to the east and west that block wind flow into the region.

Figure 2. Windrose for Moffett Field Airport Years 2013-17



Notes: Based on data provided by BAAQMD

Attainment Status Designations

The CARB is required to designate areas of the state as attainment, nonattainment, or unclassified for all state standards. An "attainment" designation for an area signifies that pollutant concentrations did not violate the standard for that pollutant in that area. A "nonattainment" designation indicates that a pollutant concentration violated the standard at least once, excluding those occasions when a violation was caused by an exceptional event, as defined in the criteria. An "unclassified" designation signifies that data does not support either an attainment or nonattainment status. The California Clean Air Act (CCAA) divides districts into moderate, serious, and severe air pollution categories, with increasingly stringent control requirements mandated for each category.

Table 3 shows the state and federal standards for criteria pollutants and provides a summary of the attainment status for the San Francisco Bay Area with respect to national and state ambient air quality standards.

Table 3. NAAQS, CAAQS, and San Francisco Bay Area Attainment Status

Pollutant	Averaging Time	California Standards		National Standards	
		Concentration	Attainment Status	Concentration	Attainment Status
Carbon Monoxide (CO)	8-Hour	9 ppm (10 mg/m^3)	Attainment	9 ppm (10 mg/m^3)	Attainment
	1-Hour	20 ppm (23 mg/m^3)	Attainment	35 ppm (40 mg/m^3)	Attainment
Nitrogen Dioxide (NO_2)	Annual Mean	0.030 ppm (57 mg/m^3)	Attainment	0.053 ppm (100 µg/m^3)	Attainment
	1-Hour	0.18 ppm (338 µg/m^3)	Attainment	0.100 ppm	Unclassified
Ozone (O_3)	8-Hour	0.07 ppm (137 µg/m^3)	Nonattainment	0.070 ppm	Nonattainment
	1-Hour	0.09 ppm (180 µg/m^3)	Nonattainment	Not Applicable	Not Applicable
Suspended Particulate Matter (PM_{10})	Annual Mean	20 µg/m^3	Nonattainment	Not Applicable	Not Applicable
	24-Hour	50 µg/m^3	Nonattainment	150 µg/m^3	Unclassified
Suspended Particulate Matter ($PM_{2.5}$)	Annual Mean	12 µg/m^3	Nonattainment	12 µg/m^3	Attainment
	24-Hour	Not Applicable	Not Applicable	35 µg/m^3	Nonattainment
Sulfur Dioxide (SO_2)	Annual Mean	Not Applicable	Not Applicable	80 µg/m^3 (0.03 ppm)	Attainment
	24-Hour	0.04 ppm (105 µg/m^3)	Attainment	365 µg/m^3 (0.14 ppm)	Attainment
	1-Hour	0.25 ppm (655 µg/m^3)	Attainment	0.075 ppm (196 µg/m^3)	Attainment
Lead (Pb) is not listed in the above table because it has been in attainment since the 1980s. ppm = parts per million, mg/m^3 = milligrams per cubic meter, µg/m^3 = micrograms per cubic meter					

Source: Bay Area Air Quality Management District, 2017. *Air Quality Standards and Attainment Status.* January 5.

Existing Air Pollutant Levels

BAAQMD monitors air pollution at various sites within the Bay Area. The closest air monitoring station (158 Jackson Street) that monitored O_3, CO, NO, NO_2, PM_{10}, and $PM_{2.5}$ over the past 5 years (2015 through 2019) is in the City of San José, approximately 9 miles southeast of the project site. The data shows that during the past few years, the project area has exceeded the state and/or federal O_3, PM_{10}, and $PM_{2.5}$ ambient air quality standards. Table 4 lists air quality trends in data collected for the past 5 years and published by the BAAQMD and CARB, which is the most recent time-period available. Ozone standards (includes 1-hr concentration and 8-hr concentration) were exceeded on 0 to 4 days annually in San José and 3 to 15 days throughout the Bay Area. Measured 24-hour PM_{10} and $PM_{2.5}$ concentrations are exceeded on 0 to 6 monitoring days in San José and

up to 18 days at any place in the Bay Area (note these levels were influences by smoke from wildfires).

Table 4. Ambient Air Quality Concentrations from 2015 through 2019

Pollutant	Standard	2015	2016	2017	2018	2019
Ozone						
Max 1-hr concentration		94 ppb	87 ppb	121 ppb	78 ppb	95 ppb
No. days exceeded: CAAQS	90 ppb	0	0	3	0	1
Max 8-hr concentration		81 ppb	66 ppb	98 ppb	61 ppb	81 ppb
No. days exceeded: CAAQS	70 ppb	2	0	4	0	2
NAAQS	70 ppb	2	0	4	0	2
Carbon Monoxide						
Max 1-hr concentration		2.4 ppm	2.0 ppm	2.1 ppm	2.5 ppm	1.7 ppm
No. days exceeded: CAAQS	20 ppm	0	0	0	0	0
NAAQS	35 ppm	0	0	0	0	0
Max 8-hr concentration		1.8 ppm	1.4 ppm	1.8 ppm	2.1 ppm	1.3 ppm
No. days exceeded: CAAQS	9.0 ppm	0	0	0	0	0
NAAQS	9 ppm	0	0	0	0	0
PM_{10}						
Max 24-hr concentration		58 µg/m^3	41 µg/m^3	70 µg/m^3	122 µg/m^3	77 µg/m^3
No. days exceeded: CAAQS	50 µg/m^3	1	0	6	4	4
NAAQS	150 µg/m^3	0	0	0	0	0
Max annual concentration		22.0 µg/m^3	18.5 µg/m^3	21.6 µg/m^3	23.1 µg/m^3	19.2 µg/m^3
No. days exceeded: CAAQS	-	-	-	-	-	-
$PM_{2.5}$						
Max 24-hr concentration		49.4 µg/m^3	22.6µg/m^3	49.7 g/m^3	133.9µg/m^3	27.6 µg/m^3
No. days exceeded: NAAQS	35 µg/m^3	2	0	6	15	4
Annual Concentration		10.0 g/m^3	8.4 µg/m^3	9.5 µg/m^3	12.8µg/m^3	12.8µg/m^3
No. days exceeded: CAAQS	12 µg/m^3	-	-	-	-	-
NAAQS	12 µg/m^3	-	-	-	-	-
Nitrogen Dioxide						
Max 1-hr concentration		49 ppb	51 ppb	68 ppb	86 ppb	60 ppb
No. days exceeded: CAAQS	0.18 ppm	0	0	0	0	0
NAAQS	0.100 ppm	0	0	0	0	0
Annual Concentration		13 ppb	11 ppb	12 ppb	13 ppb	11 ppb
No. days exceeded: CAAQS	0.030 ppm	-	-	-	-	-
NAAQS	0.053 ppm	-	-	-	-	-

Source: Bay Area Air Quality Management District, 2020, Web: https://www.baaqmd.gov/about-air-quality/air-quality-summaries. California Air Resource Board, 2020, Web: https://arb.ca.gov/adam/select8/sc8start.php

Sensitive Receptors

There are groups of people more affected by air pollution than others. CARB has identified the following persons who are most likely to be affected by air pollution: children under 16, the elderly over 65, athletes, and people with cardiovascular and chronic respiratory diseases. These groups are classified as sensitive receptors. Locations that may contain a high concentration of these sensitive population groups include residential areas, hospitals, daycare facilities, elder care facilities, and elementary schools. For cancer risk assessments, children are the most sensitive receptors, since they are more susceptible to cancer causing TACs. Residential locations are assumed to include infants and small children.

The project site is surrounded by mostly office and light industrial uses that are not considered locations containing sensitive receptors. Receptors for this assessment included locations where sensitive populations would be present for extended periods of time (i.e., chronic exposures). This includes future residences of the recently approved 400 Logue Avenue development immediately adjacent to the proposed Project. This project is currently planned through entitlements. The project was approved by the City of Mountain View on June 22, 2021. The Initial Study for the project indicates that construction would take 33 to 35 months to complete. Therefore, occupancy of the project could occur by late 2024. Future residences that may be occupied during construction are planned at 355 E. Middlefield. This multi-family project was approved by the City of Mountain View on May 5, 2020. Existing residences are located further away to the southwest across East Middlefield Road and even further south, there are some residences located about 1,000 feet southeast, on the other side of State Route 237. Residential receptors are assumed to include all receptor groups (i.e., third trimester, infants, children, and adults) with almost continuous exposure to project emissions. Note that there is a church (Mountain View Korean SDA Church) located just south of the project across Maude Avenue. Churches may include sensitive receptors at times. However, the exposure periods would be short and are not expected to lead to significant health risks. The project would include new residential dwellings that are considered sensitive receptors. Figure 3 shows existing and future sensitive receptors.

Regulatory Framework

Pursuant to the Federal Clean Air Act (FCAA) of 1970, the EPA established the NAAQS. The NAAQS were established for major pollutants, termed "criteria" pollutants. Criteria pollutants are defined as those pollutants for which the federal and state governments have established ambient air quality standards, or criteria, for outdoor concentrations in order to protect public health.

Both the EPA and the CARB have established ambient air quality standards for common pollutants: CO, O_3, NO_2, SO_2, Pb, and PM. In addition, the state has set standards for sulfates, hydrogen sulfide, vinyl chloride, and visibility reducing particles. These standards are designed to protect the health and welfare of the public with a reasonable margin of safety. These ambient air quality standards are levels of contaminants which represent safe levels that avoid specific adverse health effects associated with each criteria pollutant.

Federal Air Quality Regulations

At the federal level, the EPA has been charged with implementing national air quality programs. EPA's air quality mandates are drawn primarily from the FCAA, which was enacted in 1963. The FCAA was amended in 1970, 1977, and 1990.

Figure 3. Google MPMP Project Site, Sensitive Receptors and 1,000-foot Area

The FCAA required EPA to establish primary and secondary NAAQS and required each state to prepare an air quality control plan referred to as a State Implement Plan (SIP). Federal standards include both primary and secondary standards. Primary standards set limits to protect public health, including the health of sensitive populations such as asthmatics, children, and the elderly. Secondary standards set limits to protect public welfare, including protection against decreased visibility, damage to animals, crops, vegetation, and buildings.[7] The Federal Clean Air Act Amendments of 1990 (FCAAA) added requirements for states with nonattainment areas to revise their SIPs to incorporate additional control measures to reduce air pollution. The SIP is periodically modified to reflect the latest emissions inventories, planning documents, and rules and regulations of the air basins as reported by their jurisdictional agencies. EPA has responsibility to review all state SIPs to determine conformity with the mandates of the FCAAA and determine if implementation will achieve air quality goals. If the EPA determines a SIP to be inadequate, a Federal Implementation Plan (FIP) may be prepared for the nonattainment area which imposes additional control measures. Failure to submit an approvable SIP or to implement the Plan within the mandated timeframe may result in the application of sanctions on transportation funding and stationary air pollution sources in the air basin.

The 1970 FCAA authorized the establishment of national health-based air quality standards and also set deadlines for their attainment. The FCAA Amendments of 1990 changed deadlines for attaining NAAQS as well as the remedial actions required of areas of the nation that exceed the standards. Under the FCAA, state and local agencies in areas that exceed the NAAQS are required to develop SIPs to show how they will achieve the NAAQS by specific dates. The FCAA requires that projects receiving federal funds demonstrate conformity to the approved SIP and local air quality attainment Plan for the region. Conformity with the SIP requirements would satisfy the FCAA requirements.

State Air Quality Regulations

The CARB is the agency responsible for the coordination and oversight of state and local air pollution control programs in California and for implementing the CCAA, adopted in 1988. The CCAA requires that all air districts in the state achieve and maintain the CAAQS by the earliest practical date. The CCAA specifies that districts should focus on reducing the emissions from transportation and air-wide emission sources and provides districts with the authority to regulate indirect sources.

CARB is also responsible for developing and implementing air pollution control plans to achieve and maintain the NAAQS. CARB is primarily responsible for statewide pollution sources and produces a major part of the SIP. Local air districts provide additional strategies for sources under their jurisdiction. CARB combines this data and submits the completed SIP to the EPA.

Other CARB duties include monitoring air quality (in conjunction with air monitoring networks maintained by air pollution control and air quality management districts), establishing CAAQS (which in many cases are more stringent than the NAAQS), determining and updating area

[7] See: U.S. Environmental Protection Agency, Web: https://www.epa.gov/criteria-air-pollutants/naaqs-table, Accessed 13 August 2020

designations and maps, and setting emissions standards for new mobile sources, consumer products, small utility engines, and off-road vehicles.

California Clean Air Act

In 1988, the CCAA required that all air districts in the state endeavor to achieve and maintain CAAQS for CO, O_3, SO_2, and NO_2 by the earliest practical date. The CCAA provides districts with authority to regulate indirect sources and mandates that air quality districts focus particular attention on reducing emissions from transportation and area-wide emission sources. Each nonattainment district is required to adopt a plan to achieve a 5 percent annual reduction, averaged over consecutive 3-year periods, in district-wide emissions of each nonattainment pollutant or its precursors. A Clean Air Plan shows how a district would reduce emissions to achieve air quality standards. Generally, the state standards for these pollutants are more stringent than the national standards.

California Air Resources Board Handbook

In 1998, CARB identified particulate matter from diesel-fueled engines as a toxic air contaminant. CARB has completed a risk management process that identified potential cancer risks for a range of activities using diesel-fueled engines.[8] CARB subsequently developed an Air Quality and Land Use Handbook[9] (Handbook) in 2005 that is intended to serve as a general reference guide for evaluating and reducing air pollution impacts associated with new projects that go through the land use decision-making process. The 2005 CARB Handbook recommends that planning agencies consider proximity to air pollution sources when considering new locations for "sensitive" land uses, such as residences, medical facilities, daycare centers, schools, and playgrounds.

Air pollution sources of concern include freeways, rail yards, ports, refineries, distribution centers, chrome plating facilities, dry cleaners, and large gasoline service stations. Key recommendations in the Handbook relative to the Plan Area include taking steps to consider or avoid siting new, sensitive land uses:

- Within 500 feet of a freeway, urban roads with 100,000 vehicles/day or rural roads with 50,000 vehicles/day.
- Within 300 feet of gasoline fueling stations (note that new fueling stations utilize enhanced vapor recovery systems that substantially reduce emissions).
- Within 300 feet of dry-cleaning operations (note that dry cleaning with TACs is being phased out and will be prohibited in 2023).

Truck and Bus Regulation

CARB is actively enforcing heavy-duty diesel vehicle regulations that require fleets to replace or retrofit heavy-duty diesel vehicles, with full implementation of the program scheduled for January

[8] California Air Resources Board, 2000. *Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-Fueled Engines and Vehicles*. October.
[9] California Air Resources Board, 2005. *Air Quality and Land Use Handbook: A Community Health Perspective.* April.

1, 2023. Compliance with the program is generally considered vehicles equipped with a 2010 or newer engine model year. As of January 1, 2020, the DMV cannot register any vehicle that does not meet the requirements of the Truck and Bus Regulation.

Other CARB diesel programs affecting heavy-duty diesel vehicles include:

- Idling limits of no more than 5 minutes with special exceptions.
- Emission Control Labels must be affixed to engines of all commercial heavy-duty diesel vehicles, and must be legible as proof the engine, at minimum, meets U.S. federal emissions standards for the engine model year.
- The Periodic Smoke Inspection Program requires owners of California-based fleets of two or more diesel vehicles to perform annual smoke opacity tests and to keep records for at least two years for each vehicle.
- The Heavy-Duty Vehicle Inspection Program uses random roadside inspections to verify that diesel engines do not smoke excessively and are tamper-free.

Off-Road Vehicle and Equipment Regulations

CARB has also adopted and implemented regulations to reduce DPM and nitrogen oxides (NOx) emissions from in-use (existing) and new off-road heavy-duty diesel vehicles (e.g., loaders, tractors, bulldozers, backhoes, off-highway trucks, etc.). The regulations apply to diesel-powered off-road vehicles with engines 25 horsepower (hp) or greater. The regulations are intended to reduce particulate matter and NOx exhaust emissions by requiring owners to turn over their fleet (replace older equipment with newer equipment) or retrofit existing equipment in order to achieve specified fleet-averaged emission rates. Implementation of this regulation, in conjunction with stringent Federal off-road equipment engine emission limits for new vehicles, is expected to substantially reduce emissions of DPM and NOx.

Fleet owners must report the vehicle and engine information for all vehicles within their fleets operating in California. Fleet owners must also report owner information. Fleet owners should report using DOORS, which is CARB's online reporting tool. CARB issues a unique Equipment Identification Number (EIN) that is assigned to each vehicle. The fleet owner must label their vehicles with the EIN.

Other CARB diesel programs affecting off-road vehicles and equipment include:

- Idling limits of no more than 5 minutes with special exceptions.
- Portable engines 50 hp or greater may require a permit or registration to legally operate. BAAQMD is responsible for taking enforcement action against individuals who own or operate portable equipment without a registration or permit.

Bay Area Air Quality Management District

The BAAQMD seeks to attain and maintain air quality conditions in the San Francisco Bay Area Air Basin (SFBAAB) through a comprehensive program of planning, regulation, enforcement, technical innovation, and education. The clean air strategy includes the preparation of plans for

the attainment of ambient air quality standards, adoption and enforcement of rules and regulations, and issuance of permits for stationary sources. The BAAQMD also inspects stationary sources and responds to citizen complaints, monitors ambient air quality and meteorological conditions, and implements programs and regulations required by law.

Clean Air Plan

The BAAQMD is responsible for developing a Clean Air Plan which guides the region's air quality planning efforts to attain the CAAQS. The BAAQMD's 2017 Clean Air Plan is the latest Clean Air Plan which contains district-wide control measures to reduce ozone precursor emissions (i.e., ROG and NO_X), particulate matter and greenhouse gas emissions. The Bay Area 2017 Clean Air Plan, which was adopted on April 19, 2017 by the BAAQMD's board of directors:

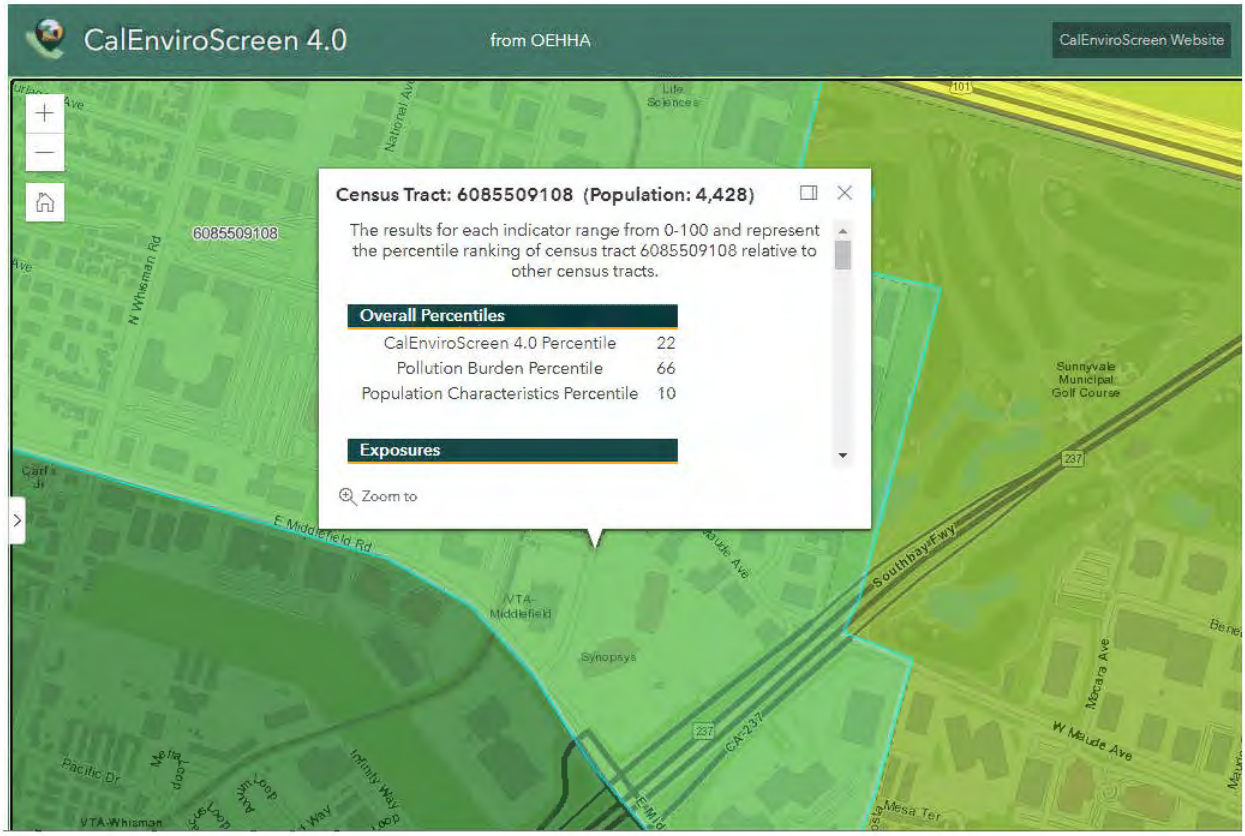
- Updates the Bay Area 2010 Clean Air Plan in accordance with the requirements of the California Clean Air Act to implement "all feasible measures" to reduce ozone;
- Provides a control strategy to reduce ozone, particulate matter (PM), air toxics, and greenhouse gases in a single, integrated plan;
- Reviews progress in improving air quality in recent years; and
- Continues and updates emission control measures.

BAAQMD CARE Program

The Community Air Risk Evaluation (CARE) program was initiated in 2004 to evaluate and reduce health risks associated with exposures to outdoor TACs in the Bay Area.[10] The program examines TAC emissions from point sources, area sources, and on-road and off-road mobile sources with an emphasis on diesel exhaust, which is a major contributor to airborne health risk in California. The CARE program is an on-going program that encourages community involvement and input. The technical analysis portion of the CARE program is being implemented in three phases that includes an assessment of the sources of TAC emissions, modeling and measurement programs to estimate concentrations of TAC, and an assessment of exposures and health risks. Throughout the program, information derived from the technical analyses will be used to focus emission reduction measures in areas with high TAC exposures and high density of sensitive populations. Risk reduction activities associated with the CARE program are focused on the most at-risk communities in the Bay Area. The BAAQMD has identified six communities as impacted: Concord, Richmond/San Pablo, Western Alameda County, San José, Redwood City/East Palo Alto, and Eastern San Francisco. Recently, BAAQMD identifies an *overburdened* community as an area located (i) within a census tract identified by the California Communities Environmental Health Screening Tool (CalEnviroScreen), Version 4.0, as having an overall CalEnviroScreen score at or above the 70th percentile, or (ii) within 1,000 feet of any such census tract. The project site is not within an identified overburdened community area. According to CalEnvirscreen, the census tracts containing the project site and environs within 1,000 feet of the project have an overall score of 8 to 22 (see Figure 4).

[10] See BAAQMD: https://www.baaqmd.gov/community-health/community-health-protection-program/community-air-risk-evaluation-care-program , accessed 2/18/2021.

Figure 4. CalEnviroScreen 4.0 Results for the Project Site and Surrounding Areas



Planning Healthy Places

BAAQMD developed a guidebook that provides air quality and public health information intended to assist local governments in addressing potential air quality issues related to exposure of sensitive receptors to exposure of emissions from local sources of air pollutants. The guidance provides tools and recommends best practices that can be implemented to reduce exposures. The information is provided as recommendations to develop policies and implementing measures in city or county General Plans, neighborhood or specific plans, land use development ordinances, or into projects.

BAAQMD California Environmental Quality Act Air Quality Guidelines

The BAAQMD California Environmental Quality Act (CEQA) Air Quality Guidelines[11] were prepared to assist in the evaluation of air quality impacts of projects and plans proposed within the Bay Area. The guidelines provide recommended procedures for evaluating potential air impacts during the environmental review process consistent with CEQA requirements including thresholds of significance, mitigation measures, and background air quality information. They also include assessment methodologies for air toxics, odors, and greenhouse gas emissions. In June 2010, the BAAQMD's Board of Directors adopted CEQA thresholds of significance and an update of their CEQA Guidelines. In May 2011, the updated BAAQMD CEQA Air Quality Guidelines were

[11] Bay Area Air Quality Management District, 2017. *CEQA Air Quality Guidelines*. May.

amended to include a risk and hazards threshold for new receptors and modify procedures for assessing impacts related to risk and hazard impacts. A recent update to the Guidelines was published in May 2017.

Projects that have TAC emissions that could adversely affect sensitive receptors prepare health risk assessments to quantify the potential and, if appropriate, identify mitigation measures to reduce impacts. This report includes a health risk assessment that evaluates impacts form temporary project construction, long-term use of stationary equipment, and long-term traffic activity generated by the project.

BAAQMD Rules and Regulations

Combustion equipment associated with the proposed project that includes new diesel engines to power generators and possibly cooling towers would establish new sources of particulate matter and gaseous emissions. Emissions would primarily result from the testing of the emergency backup generators and some minor emissions from cooling towers. Certain emission sources would be subject to BAAQMD Regulations and Rules. The District's rules and regulations that may apply to project operation include:

- Regulation 1 – General Provisions
  - Rule 1-30: Public Nuisance
- Regulation 2 – Permits
  - Rule 2-1: General Requirements
  - Rule 2-2: New Source Review
  - Rule 2-5: New Source Review of Toxic Air Contaminants
- Regulation 6 – Particulate Matter and Visible Emissions
  - Rule 6-2: Commercial Cooking Equipment
  - Rule 6-3: Wood-Burning Devices
  - Rule 6-7: Odorous Substances
- Regulation 9 – Inorganic Gaseous Pollutants
  - Rule 9-1: Sulfur Dioxide
  - Rule 9-7: Nitrogen Oxides and Carbon Monoxide from Industrial, Institutional, and Commercial Boilers, Steam Generators, And Process Heaters
  - Rule 9-8: Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines

Permits

Rule 2-1-301 requires that any person installing, modifying, or replacing any equipment, the use of which may reduce or control the emission of air contaminants, shall first obtain an Authority to Construct (ATC).

Rule 2-1-302 requires that written authorization from the BAAQMD in the form of a Permit to Operate (PTO) be secured before any such equipment is used or operated.

Rule 2-1 lists sources that are exempt from permitting. At the proposed facility, the diesel fuel storage tanks are expected to be exempt from permitting.

New Source Review

Rule 2-2, New Source Review (NSR), applies to all new and modified sources or facilities that are subject to the requirements of Rule 2-1-301. The purpose of the rule is to provide for review of such sources and to provide mechanisms by which no net increase in emissions will result.

Rule 2-2-301 requires that an applicant for an ATC or PTO apply Best Available Control Technology (BACT) to any new or modified source that results in an increase in emissions and has emissions of precursor organic compounds, non-precursor organic compounds, NOx, SO_2, PM_{10}, or CO of 10.0 pounds or more per highest day. Based on the estimated emissions from the proposed project, BACT will be required for NOx emissions from the diesel-fueled generator engines.

BACT for Diesel Generator Engines

Since the generators will be used exclusively for emergency use during involuntary loss of power, the BACT levels listed for IC compression engines in the BAAQMD BACT Guidelines would apply. These are provided for two separate size ranges of diesel engines:

> I.C. Engine – Compression Ignition >50hp and <1,000hp: BAAQMD applies BACT 2 emission limits based on the ATCM for stationary emergency standby diesel engines larger than 50 brake-horsepower (BHP). NOx emission factor limit is subject to the CARB ACTM that ranges from 3.0 to 3.5 grams per horsepower hour (g/hp-hr). The PM (PM10 or PM2.5) limit is 0.15 g/hp-hr per CARB's ACTM.
>
> I.C. Engine – Compression Ignition >999hp: BAAQMD applies specific BACT emission limits for stationary emergency standby diesel engines equal or larger than 1,000 brake-horsepower (BHP). NOx emission factor limit is 0.5 g/hp-hr. The PM (PM10 or PM2.5) limit is 0.02 g/hp-hr. POC (i.e., ROG) limits are 0.14 g/hp-hr.

Offsets

Rule 2-2-302 require that offsets be provided for a new or modified source that emits more than 10 tons per year of NOx or precursor organic compounds. It is not expected that emissions of any pollutant will exceed the offset thresholds. Thus, is not expected that offsets for the proposed project would be required.

Rule 2-5 applies to new and modified sources of TAC emissions. BAAQMD evaluates the TAC emissions in order to evaluate potential public exposure and health risk, to mitigate potentially significant health risks resulting from these exposures, and to provide net health risk benefits by improving the level of control when existing sources are modified or replaced. Toxics BACT (or TBACT) is applied to any new or modified source of TACs where the source risk is a cancer risk greater than 1.0 in one million and/or a chronic hazard index greater than 0.20. Permits are not issued for any new or modified source that has risks or net project risks that exceed a cancer risk of 10.0 in one million or a chronic or acute hazard index of 1.0.

Prohibitory Rules

Regulation 6 pertains to particulate matter and visible emissions. Although the engines will be fueled with diesel, they will be modern, low emission engines. Thus, the engines are expected to comply with Regulation 6.

Rule 6-3 applies to emissions from wood-burning devices. Effective November 1, 2016, no person or builder shall install a wood-burning device in a new building construction. Project plans do not depict fireplaces.
Regulation 7 places general limitations on odorous substances and specific emission limitations on certain odorous compounds when the District receives odor complaints. The regulation prohibits discharge of odorous substance that causes the ambient air at or beyond the property line to be odorous and to remain odorous after dilution with four parts of odor-free air and places limits on certain odorous compounds or family of compounds.

Rule 9-1 applies to sulfur dioxide. The engines will use ultra-low sulfur diesel fuel (less than 15 ppm sulfur) and will not be a significant source of sulfur dioxide emissions and are expected to comply with the requirements of Rule 9-1.

Rule 9-7 limits the emissions of NOx CO from industrial, institutional and commercial boilers, steam generators and process heaters. This regulation typically applies to boilers with a heat rating of 2 million British Thermal Units (BTU) per hour

Rule 9-8 prescribes NOx and CO emission limits for stationary internal combustion engines. Since the proposed engines will be used with emergency standby generators, Regulation 9-8-110 exempts the engines from the requirements of this Rule, except for the recordkeeping requirements (9-8-530) and limitations on hours of operation for reliability-related operation (maintenance and testing). The engines will not operate more than 50 hours per year, which will satisfy the requirements of 9-8-111.

Air Pollutants of Concern in the Bay Area

High ozone levels are caused by the cumulative emissions of ROG and NO_X. These precursor pollutants react under certain meteorological conditions to form high ozone levels. Controlling the emissions of these precursor pollutants is the focus of the Bay Area's attempts to reduce ozone levels. The highest ozone levels in the Bay Area occur in the eastern and southern inland valleys that are downwind of air pollutant sources. High ozone levels aggravate respiratory and cardiovascular diseases, reduced lung function, and increase coughing and chest discomfort.

Particulate matter is another problematic air pollutant of the Bay Area. Particulate matter is assessed and measured in terms of respirable particulate matter or particles that have a diameter of 10 micrometers or less (PM_{10}) and fine particulate matter where particles have a diameter of 2.5 micrometers or less ($PM_{2.5}$). Elevated concentrations of PM_{10} and $PM_{2.5}$ are the result of both region-wide (or cumulative) emissions and localized emissions. High particulate matter levels aggravate respiratory and cardiovascular diseases, reduce lung function, increase mortality (e.g., lung cancer), and result in reduced lung function growth in children.

Toxic Air Contaminants in the Bay Area

Toxic air contaminants are a broad class of compounds known to cause morbidity or mortality (usually because they cause cancer) and include, but are not limited to, the criteria air pollutants. TACs are found in ambient air, especially in urban areas, and are caused by industry, agriculture, fuel combustion, and commercial operations (e.g., dry cleaners). TACs are typically found in low concentrations, even near their source (e.g., diesel particulate matter [DPM] near a freeway). Because chronic exposure can result in adverse health effects, TACs are regulated at the regional, state, and federal level.

Diesel exhaust is the predominant TAC in urban air and is estimated to represent about three-quarters of the cancer risk from TACs (based on the Bay Area average). According to the CARB, diesel exhaust is a complex mixture of gases, vapors, and fine particles. This complexity makes the evaluation of health effects of diesel exhaust a complex scientific issue. Some of the chemicals in diesel exhaust, such as benzene and formaldehyde, have been previously identified as TACs by the CARB, and are listed as carcinogens either under the state's Proposition 65 or under the Federal Hazardous Air Pollutants programs.

CARB has adopted and implemented a number of regulations for stationary and mobile sources to reduce emissions of DPM. Several of these regulatory programs affect medium and heavy-duty diesel trucks that represent the bulk of DPM emissions from California highways. These regulations include the solid waste collection vehicle (SWCV) rule, in-use public and utility fleets, and the heavy-duty diesel truck and bus regulations. In 2008, CARB approved a new regulation to reduce emissions of DPM and nitrogen oxides from existing on-road heavy-duty diesel fueled vehicles.[12] The regulation requires affected vehicles to meet specific performance requirements between 2014 and 2023, with all affected diesel vehicles required to have 2010 model-year engines or equivalent by 2023. These requirements are phased in over the compliance period and depend on the model year of the vehicle.

The BAAQMD is the regional agency tasked with managing air quality in the region. At the state level, the CARB (a part of the California EPA) oversees regional air district activities and regulates air quality at the state level. The BAAQMD has published CEQA Air Quality Guidelines that are used in this assessment to evaluate air quality impacts of projects.[13] Projects that have TAC emissions that could adversely affect sensitive receptors prepare health risk assessments to quantify the potential and, if appropriate, identify mitigation measures to reduce impacts. This report includes a health risk assessment that evaluates impacts form temporary project construction, long-term use of stationary equipment, and long-term traffic activity generated by the project. The detailed health risk modeling methodology used in this assessment is contained in *Attachment 1*.

[12] Available online: http://www.arb.ca.gov/msprog/onrdiesel/onrdiesel.htm. Accessed: November 21, 2014.
[13] Bay Area Air Quality Management District. 2017. *BAAQMD CEQA Air Quality Guidelines.* May.

City of Mountain View

City of Mountain View 2030 General Plan

The Mountain View 2030 General Plan[14] includes goals, policies, and actions to reduce exposure of the City's sensitive population to exposure of air pollution, toxic air contaminants, and GHG emissions. The following goals, policies, and actions are applicable to the proposed project:

Climate Change

INC 12.1: Emissions reduction target. Maintain a greenhouse gas emissions reduction target.

INC 12.2: Emissions reduction strategies. Develop cost-effective strategies for reducing greenhouse gas emissions.

INC 12.3: Adaptation strategies. Develop strategies for adapting to climate change in partnership with local and regional agencies.

Air Quality

INC 20.1: Pollution prevention. Discourage mobile and stationary sources of air pollution.

INC 20.2: Collaboration. Participate in state and regional planning efforts to improve air quality.

INC 20.6: Air quality standards. Protect the public and construction workers from construction exhaust and particulate emissions.

INC 20.7: Protect sensitive receptors. Protect the public from substantial pollutant concentrations.

INC 20.8: Offensive odors. Protect residents from offensive odors.

East Whisman Precise Plan

In 2019, the City Council adopted the East Whisman Precise Plan, or EWPP, to implement the 2030 General Plan goals and policies for the area allowing new residential land uses and expanded commercial land uses, open spaces, and multi-modal connectivity in the area. The General Plan identifies East Whisman as a highly sustainable, transit-oriented employment center with a diversity of land uses. The EWPP includes development standards, such as building setbacks and height limits, allowed land uses, urban design guidelines, locations for new public open space, and other public improvements for the area.

[14] City of Mountain View, *Mountain View 2030 General Plan*, July 10, 2012. Web: https://www.mountainview.gov/civicax/filebank/blobdload.aspx?blobid=10702

The EIR for the EWPP computed air pollutant and greenhouse gas (GHG) emissions associated with build-out of the plan. The increase in emissions was estimated at about 29 tons of ROG, 43 tons of NOx, 10 tons of PM_{10} and 4 tons of $PM_{2.5}$. These increases in emissions were considered less than significant since the rate of increased vehicle miles travelled (VMT) was less than the increase in population growth and the project would not interfere with implementation of the 2017 BAAQMD CAP measures.

The EIR evaluated sources of TACs both in and near the EWPP that included freeways such as U.S. 101 and State Route 237, as well as busy local roadways and stationary sources. Impacts from U.S. 101 in terms of increased in cancer risk, annual $PM_{2.5}$ concentrations and health hazards were not found to be significant at the proposed Project site with the following exceptions:

1. Within 75 feet of E. Middlefield Road.
2. Within 45 feet of Ellis Street.
3. Near stationary sources permitted by BAAQMD.

Significant impacts were identified that required construction emissions analysis and health risk assessments to show EWPP projects would not cause significant health risks to existing sensitive receptors or expose new sensitive receptors to substantial levels of TACs and $PM_{2.5}$.

Significance Thresholds

In June 2010, BAAQMD adopted thresholds of significance to assist in the review of projects under CEQA and these significance thresholds were contained in the District's 2011 CEQA Air Quality Guidelines. These thresholds were designed to establish the level at which BAAQMD believed air pollution emissions would cause significant environmental impacts under CEQA. The thresholds were challenged through a series of court challenges and were mostly upheld. BAAQMD updated the CEQA Air Quality Guidelines in 2017 to include the latest significance thresholds, which were used in this analysis and are summarized in Table 5. Impacts above these thresholds are considered significant.

Table 5. BAAQMD CEQA Exceedance Thresholds

Criteria Air Pollutant	Construction Thresholds	Operational Thresholds	
	Average Daily Emissions (lbs./day)	Average Daily Emissions (lbs./day)	Annual Average Emissions (tons/year)
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 or other Best Management Practices	Not Applicable	
Health Risks and Hazards	**Single Sources Within 1,000-foot Zone of Influence**	**Combined Sources (Cumulative from all sources within 1,000-foot zone of influence)**	
Excess Cancer Risk	10 per one million	100 per one million	
Hazard Index	1.0	10.0	
Incremental annual $PM_{2.5}$	0.3 µg/m^3	0.8 µg/m^3	

Note: ROG = reactive organic gases, NOx = nitrogen oxides, PM_{10} = course particulate matter or particulates with an aerodynamic diameter of 10 micrometers (µm) or less, $PM_{2.5}$ = fine particulate matter or particulates with an aerodynamic diameter of 2.5µm or less. GHG = greenhouse gases.

Source: Bay Area Air Quality Management District, 2017

AIR QUALITY IMPACTS AND MITIGATION MEASURES

Air pollutant emissions and associated health risks were predicted using emissions and dispersion models along with emission rate and cancer risk computations. For construction and operational land use emissions, the latest version of the California Emissions Estimator Model (CalEEMod) Version 2020.4.0 was used to compute annual emissions, combined with motor vehicle emission factors produced by CARB's latest version of the EMFAC model, EMFAC2021 Version 1.0.1. Computation methods and emission factors developed by CARB, and various air districts were used to compute emissions from cooling towers and restaurant char broilers. Dispersion modeling was conducted using the U.S. EPA's AERMOD dispersion model.

Build-out of the project site includes two different scenarios:

1. Build-out assuming the proposed project is to connect to existing utility lines, referred to as the *City Utilities Option* and

2. Build Out assuming the proposed project would construct a private district utility system with underground utility lines to serve some buildings within the MPMP with water, wastewater, recycled water, thermal energy (heating and cooling), and electric power. This is referred to as the *District Utility Option*. This option would include four components: 1) a central utilities plant (CUP), 2) temporary air sourced heat pump (ASHP), 3) district distribution system, and 4) microgrid system.

This air quality analysis is based on construction and operation of the *District Utility Option* since it would lead to the greatest impacts in terms of construction activity and operation of the on-site utility components. Construction emissions would be slightly higher with this option compared to the City Utility Option. Operational impacts of the project would be similar under both options, although the District Utility Option would have additional localized air quality impacts from operation of the wastewater treatment system and cooling towers.

Impact AIR-1: Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?

The Bay Area is considered a non-attainment area for ground-level ozone and $PM_{2.5}$ under both the Federal Clean Air Act and the California Clean Air Act. The area is also considered non-attainment for PM_{10} under the California Clean Air Act, but not the federal act. The area has attained both State and federal ambient air quality standards for carbon monoxide. As part of an effort to attain and maintain ambient air quality standards for ozone and PM_{10}, the BAAQMD has established thresholds of significance for these air pollutants and their precursors. These thresholds are for ozone precursor pollutants (ROG and NO_X), PM_{10}, and $PM_{2.5}$ and apply to both construction period and operational period impacts.

Construction Period Emissions

The California Emissions Estimator Model (CalEEMod) Version 2020.4.0 was used to estimate emissions from construction and operation of the project assuming full build-out conditions. The project land use types and size were input to CalEEMod. The project applicant provided some information regarding the construction schedule but CalEEMod defaults for a project of this size and type were primarily used in this analysis. The CARB EMission FACtors 2021 model (EMFAC2021) model was used to predict emissions from construction truck traffic and trips.[15] The model output from CalEEMod is included in *Attachment 2* and EMFAC2021 emissions modeling outputs are included in *Attachment 3*.

CalEEMod Inputs

Land Use Inputs

Modeling of project construction impacts were based on nine CalEEMod modeling scenarios that each represented a phase of construction. The proposed project land uses were entered into CalEEMod as described in Table 6. The land uses for both scenarios evaluated (i.e., with City Utilities and with District Utilities or the CUP) were essentially the same.

Construction Inputs

CalEEMod computes annual emissions for construction that are based on the project type, size, and acreage. The model provides emission estimates for both on-site and off-site construction activities. On-site activities are primarily made up of construction equipment emissions, while off-site activity includes worker, hauling, and vendor traffic. The construction build-out scenario, including equipment list and schedule, were based on information provided by the project applicant for each construction phase. Some equipment listed would be electric powered (e.g., building cranes). To account for this equipment, the number of hours of operation was set to 0 since electric equipment does not produce exhaust air pollutant emissions.

The construction schedule assumed that the earliest possible start date would be November 2022 and the project would be built out six days a week over 8 years and be completed in early to mid-2031. Table 7 describes the schedule for construction phases modeled. The construction equipment worksheet provided included the schedule for each phase and subphases. Within each phase, the quantity of equipment to be used along with the average hours per day and total number of workdays was provided. Since different equipment would have different estimates of the working days per phase, the hours per day for each phase was computed by dividing the total number of hours that the equipment would be used by the total number of days in that phase. Table 7 provides the hauling volume inputs to CalEEMod that produced truck hauling trips. Total annual worker, vendor and haul truck trips predicted by CalEEMod were combined with the EMFAC2021 emission database to compute vehicle emissions.

[15] See CARB's EMFAC2021 Emissions Inventory at https://arb.ca.gov/emfac/emissions-inventory

Table 6. Project Land Uses Entered into CalEEMod

Project Land Uses	Size	Units	Square Feet	Acreage
Phase 1 (R1 + R2)				
Apartments Mid Rise	750	Dwellings	692,434	6.20
Strip Mall	22.51	1,000 sf	22,508	
Enclosed Parking with Elevator	838	Spaces	343,000	
Standby Diesel Generator (2)	500	kw	Note: 670 hp	
Phase 1 (Affordable R6)				
Apartments Mid Rise	170	Dwellings	155,000	1.64
Enclosed Parking with Elevator	170	Spaces	34,000	
Standby Diesel Generator (1)	500	kw	Note: 670 hp	
Phase 2 (O1, O2)				
General Office	631.94	1,000 sf	631,939	8.68
Enclosed Parking with Elevator	700	Spaces	218,576	
Standby Diesel Generator (2)	900	kw	Note: 1,206 hp	
Phase 3 (R3, R4b, R5)				
Apartments Mid Rise	770	Dwellings	704,566	9.54
Strip Mall	7.49	1,000 sf	7,492	
Enclosed Parking with Elevator	799	Spaces	237,000	
Standby Diesel Generator (3)	500	kw	Note: 670 hp	
Phase 3 (Affordable R4a)				
Apartments Mid Rise	210	Dwellings	190,000	1.32
Enclosed Parking with Elevator	210	Spaces	64,000	
Phase 4 (O3, O4, O5, P1, P2)				
General Office	689.06	1,000 sf	631,940	12.33
Enclosed Parking with Elevator	1,969	Spaces	420,000	
Standby Diesel Generator (3)	900	kw	Note: 1,206 hp	
Phase 1 - Infrastructure				
Other Non-Asphalt Surfaces	1	Acre	--	1
Phase 2 Infrastructure				
Other Non-Asphalt Surfaces	1	Acre	--	1
Phase 3 Infrastructure				
Other Non-Asphalt Surfaces	1	Acre	--	1
Phase 4 Infrastructure				
Other Non-Asphalt Surfaces	1	Acre	--	1

Table 7. Project Construction Phasing and Hauling Volumes[1]

Construction Phase	Hauling Volumes	
	City Utilities	District Utilities
Phase 1 Residential	Demolition: 149,337 sf Demolition: 5,848 tons Soil Export: 201,721 cy	Demolition: 149,337 sf Demolition: 5,848 tons Soil Export: 201,721 cy Geo Boring Soil Export: 1,713 cy
Phase 1 Affordable Residential	Demolition: 25,570 sf Demolition: 500 tons Soil Export: 23,536 cy	Demolition: 25,570 sf Demolition: 500 tons Soil Export: 23,536 cy
Phase 2 Office including Infrastructure work	Demolition: 264,881 sf Demolition: 2,831 tons Soil Export: 230,040 cy Soil Export: 34,000 cy	Demolition: 264,881 sf Demolition: 2,831 tons Soil Export: 230,040 cy Soil Export: 34,000 cy Geo Boring Soil Export: 1,713 cy
Phase 3 Residential including the Affordable Residential and Infrastructure work	Demolition: 58,692 sf Demolition: 8,033 tons Soil Export: 140,384 cy	Demolition: 58,692 sf Demolition: 8,033 tons Soil Export: 140,384 cy Geo Boring Soil Export: 1,713 cy
Phase 3 Affordable Residential	Demolition: 53,170 sf Demolition: 1,000 tons Soil Export: 42,787 cy	Demolition: 53,170 sf Demolition: 1,000 tons Soil Export: 42,787 cy
Phase 4 Office including Infrastructure work	Demolition: 132,996 sf Demolition: 10,106 tons Soil Export: 110,949 cy	Demolition: 132,996 sf Demolition: 10,106 tons Soil Export: 110,949 cy Geo Boring Soil Export: 1,713 cy

[1]Does not include vendor trucks assumed to import building materials.

Construction Truck Traffic Emissions

Construction would produce traffic in the form of worker trips and truck traffic. The traffic-related emissions are based on worker and vendor trip estimates produced by CalEEMod and haul trips that were computed based on the estimate of demolition material to be exported, soil material imported and/or exported to the site. CalEEMod provides daily estimates of worker and vendor trips for each applicable phase. The total trips for those were computed by multiplying the daily trip rate by the number of days in that phase. Haul trips for demolition and site preparation, trenching, and grading were estimated by CalEEMod using the provided demolition and soil hauling volumes.

The latest version of the CalEEMod model is based on the older version of the CARB EMFAC2017 motor vehicle emission factor model. This model has been superseded by the EMFAC2021 model; however, CalEEMod has not been updated to include EMFAC2021. The construction traffic information was combined with EMFAC2021 motor vehicle emissions factors. EMFAC2021 provides aggregate emission rates in grams per mile for each vehicle type. The vehicle mix for this study was based on CalEEMod defaults, where worker trips are assumed to be

comprised of light-duty autos (EMFAC category LDA) and light duty trucks (EMFAC category LDT1and LDT2). Vendor trips are comprised of large trucks (EMFAC category MHDT and HHDT) and haul trucks are comprised of the largest truck category (EMFAC category HHDT). Travel distances are based on CalEEMod default lengths, which are 10.8 miles for worker travel, 7.3 miles for vendor trips and 20 miles for hauling (demolition material export). Each trip was assumed to include an idle time of 5 minutes. Emissions associated with vehicle starts were also included. On-road emission rates for the year 2023 for Santa Clara County were used.

Construction Dewatering Pumps

Dewatering pumps would be required for extended periods of time during construction. These pumps would operate 24 hours per day during the trenching phases. Pumps were modeled using emission rates from CalEEMod for generators. The emission rates were dependent on the year for unmitigated conditions and the engine tier level for mitigation (i.e., Tier 4 final).

Summary of Computed Construction Period Emissions

Both City Utilities and District Utilities construction emissions were calculated in CalEEMod. The District Utilities had slightly higher emissions compared to the City Utilities due to slightly higher amount of equipment usage and material movement. Therefore, only the District Utilities construction emissions are reported in Table 8.

Average daily emissions were annualized for each year of construction by dividing the annual construction emissions by the number of active workdays during that year. Table 8 shows the annualized average daily construction emissions of ROG, NO_X, PM_{10} exhaust, and $PM_{2.5}$ exhaust during construction of the project.

As indicated in Table 8, annualized project construction ROG and NO_X emissions are predicted to exceed the BAAQMD significance thresholds for ROG during the year 2028 and NO_X during the years 2022-2023, 2026, and 2027. However, with implementation of *Mitigation Measures AQ-1 through AQ-3*, the ROG and NO_X emissions would be reduced to levels below the thresholds of 54 pounds per day. All other construction criteria pollutants emissions are below the BAAQMD thresholds.

Table 8. Construction Period Emissions (City Utilities and District Utilities)

Year	ROG		NOx		PM_{10} Exhaust		$PM_{2.5}$ Exhaust	
Construction Emissions Per Year (Tons)								
Year	Unmit	Mit	Unmit	Mit	Unmit	Mit	Unmit	Mit
2022-2023	1.44	0.54	12.20	2.92	0.63	0.14	0.54	0.08
2024	0.52	0.32	3.83	1.71	0.22	0.11	0.16	0.05
2025	7.13	1.65	8.48	2.52	0.40	0.12	0.33	0.07
2026	2.12	0.91	17.62	4.94	0.85	0.25	0.70	0.13
2027	2.69	1.02	11.26	4.03	0.59	0.26	0.44	0.12
2028	12.99	3.04	7.40	3.37	0.43	0.24	0.29	0.11
2029	0.82	0.52	3.54	2.36	0.24	0.18	0.13	0.08
2030	0.21	0.17	1.29	0.98	0.08	0.07	0.03	0.03
2031	0.06	0.05	0.37	0.28	0.02	0.02	0.01	0.01
Annualized Daily Construction Emissions (pounds/day)								
Year (Number of Workdays)	Unmit	Mit	Unmit	Mit	Unmit	Mit	Unmit	Mit
2022-23 (366 workdays)	7.85	2.94	**66.67**	15.95	3.42	0.76	2.94	0.43
2024 (314 workdays)	3.33	2.04	24.37	10.89	1.42	0.71	0.99	0.32
2025 (313workdays)	45.56	10.54	54.17	16.08	2.55	0.78	2.08	0.43
2026 (313 workdays)	13.53	5.81	**112.61**	31.59	5.43	1.60	4.45	0.86
2027 (313 workdays)	17.16	6.53	**71.98**	25.74	3.78	1.66	2.81	0.79
2028 (314 workdays)	**82.76**	19.39	47.15	21.49	2.76	1.52	1.85	0.67
2029 (313 workdays)	5.22	3.31	22.64	15.07	1.51	1.15	0.83	0.48
2030 (313 workdays)	1.34	1.09	8.25	6.24	0.49	0.46	0.22	0.19
2031 (93 workdays)	1.25	1.01	7.86	5.93	0.46	0.43	0.21	0.18
BAAQMD Thresholds (pounds per day)	*54* lbs./day		*54* lbs./day		*82* lbs./day		*54* lbs./day	
Exceed Threshold?	**Yes (2028)**	No	**Yes (2022-2023, 2026, 2027)**	No	No	No	No	No
Notes: Unmit = Unmitigated, Mit = Mitigated								

Construction activities, particularly during site preparation and grading, would temporarily generate fugitive dust in the form of PM_{10} and $PM_{2.5}$. Sources of fugitive dust would include disturbed soils at the construction site and trucks carrying uncovered loads of soils. The BAAQMD CEQA Air Quality Guidelines consider these impacts to be less-than-significant if best management practices are implemented to reduce these emissions. *Mitigation Measure AQ-1 would implement BAAQMD-recommended best management practices.*

Mitigation Measure AQ-1: Implement BAAQMD-Recommended Measures to Control Particulate Matter Emissions during Construction. Measures to reduce DPM and PM_{10} from construction are recommended to ensure that short-term health impacts to nearby sensitive receptors are avoided.

1. All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) shall be watered at a frequency adequate to maintain minimum soil moisture of 12 percent. Moisture content can be verified by lab samples or moisture probe.

2. All haul trucks transporting soil, sand, or other loose material off-site shall be covered.

3. All visible mud or dirt track-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited.

4. All vehicle speeds on unpaved roads shall be limited to 15 mph.

5. All roadways, driveways, and sidewalks to be paved shall be completed as soon as possible. Building pads shall be laid as soon as possible after grading unless seeding or soil binders are used.

6. All construction equipment shall be maintained and properly tuned in accordance with manufacturer's specifications. All equipment shall be checked by a certified mechanic and determined to be running in proper condition prior to operation.

7. Post a publicly visible sign with the telephone number and person to contact at the Lead Agency regarding dust complaints. This person shall respond and take corrective action within 48 hours. The Air District's phone number shall also be visible to ensure compliance with applicable regulations.

8. All excavation, grading, and/or demolition activities shall be suspended when average wind speeds exceed 20 mph and visible dust extends beyond site boundaries.

9. Wind breaks (e.g., trees, fences) shall be installed on the windward side(s) of actively disturbed areas of construction adjacent to sensitive receptors. Wind breaks should have at maximum 50 percent air porosity.

10. Vegetative ground cover (e.g., fast-germinating native grass seed) shall be planted in disturbed areas as soon as possible and watered appropriately until vegetation is established.

11. The simultaneous occurrence of excavation, grading, and ground-disturbing construction activities on the same area at any one time shall be limited. Activities shall be phased to reduce the amount of disturbed surfaces at any one time.

12. Avoid tracking of visible soil material on to public roadways by employing the following measures if necessary: (1) Site accesses to a distance of 100 feet from public paved roads shall be treated with a 6 to 12-inch compacted layer of wood chips, mulch, or gravel and (2) washing truck tires and construction equipment of prior to leaving the site.

13. Sandbags or other erosion control measures shall be installed to prevent silt runoff to public roadways from sites with a slope greater than one percent

Effectiveness of Mitigation AQ-1:

These measures are consistent with recommendations in the BAAMQD CEQA Guidance for providing "best management practices" and enhanced measures to control construction emissions from project with Significant emissions.

Mitigation Measure AQ-2: Use Construction equipment that has zero or low diesel particulate matter exhaust and NOx emissions. Exhaust Emission (NOx and PM) Control Measures:

1. All construction equipment larger than 25 horsepower used at the site for more than two continuous days or 20 hours total shall meet U.S. EPA Tier 4 emission standards for NOx and PM (PM_{10} and $PM_{2.5}$), if feasible, otherwise,

    a. If use of Tier 4 equipment is not available, alternatively use equipment that meets U.S. EPA emission standards for Tier 2 or 3 engines and include particulate matter emissions control equivalent to CARB Level 3 verifiable diesel emission control devices that altogether achieve a 85-percent reduction in particulate matter exhaust in comparison to uncontrolled equipment; alternatively (or in combination).

    b. Use of alternatively fueled equipment with lower NOx emissions that meet the NOx and PM reduction requirements above.

2. Use electric equipment such as aerial lifts, air compressors, cement mortar mixers, concrete/industrial saws, cranes, and welders.

3. Diesel engines, whether for off-road equipment or on-road vehicles, shall not be left idling for more than 2 minutes, except as provided in exceptions to the applicable state regulations (e.g., traffic conditions, safe operating conditions). The construction sites shall have posted legible and visible signs in designated queuing areas and at the construction site to clearly notify operators of idling limit.

4. Provide line power to the site during the early phases of construction to minimize the use of diesel-powered stationary equipment.

Mitigation Measure AQ-3: Require use of low VOC coatings to reduce ROG emissions.

The project shall use low volatile organic compound or VOC (i.e., ROG) coatings, that are below current BAAQMD requirements (i.e., Regulation 8, Rule 3: Architectural Coatings), for at least 80 percent of all residential and nonresidential interior paints and 80 percent of exterior paints. This includes all architectural coatings applied during both construction and reapplications throughout the project's operational lifetime. At least 80 percent of coatings applied must meet a "super-compliant" VOC standard of less than 10 grams of VOC per liter of paint. For reapplication of coatings during the project's operational lifetime, the Declaration of Covenants, Conditions,

and Restrictions shall contain a stipulation for low VOC coatings to be used. Examples of "super-compliant" coatings are contained in the South Coast Air Quality Management District's website.[16]

Effectiveness of Mitigation AQ-2 and AQ-3

The effectiveness of MM AQ-2 and AQ-3 were based on additional modeling. The CalEEMod model was used to estimate the effectiveness of MM AQ-2 using Tier 4 final construction equipment. In addition, the CalEEMod model was used to estimate the effectiveness of MM AQ-3 using 80 percent interior and exterior super-compliant VOC coatings. These measures together were found to reduce on-site construction ROG emissions by 70-percent and NO_X emissions by 62-percent. Both ROG and NOx emissions would be reduced below the significant thresholds.

Operational Period Emissions

Operational air emissions from the project would be generated primarily from autos driven by future residents, employees, customers, and vendors. Evaporative emissions from architectural coatings and maintenance products (classified as consumer products) are typical emissions from these types of uses. CalEEMod was used to estimate emissions from operation of the proposed project assuming full build-out.

CalEEMod Land Uses

A complete operational model scenario for year 2032 was developed for CalEEMod. Inputs are summarized in Table 9.

Table 9. Operational Land Uses Entered into CalEEMod

Project Land Uses	Size	Units	Square Feet	Acreage
Proposed Project Land Uses				
Apartments Mid Rise	1,900	Dwellings	1,726,000	40
General Office Building	1,317,000	1,000 sf	1,317,000	
Strip Mall	41.00	1,000 sf	41,000	
Standby Diesel Generator (6)	670	hp	--	
Standby Diesel Generator (5)	1,206	hp	--	
Proposed Project Parking				
Enclosed Parking with Elevator	2,507	Spaces	833,000	
Unenclosed Parking with Elevator	1,969	spaces	420,000	
Existing Uses				
General Office Building	685,000	1,000 sf	685,000	16

Operational Trip Generation Rates

CalEEMod allows the user to enter specific vehicle trip generation rates. The project-specific daily trip generation rate provided by the traffic consultant was entered into the model.[17] Using ITE Trip

[16] SCAQMD: http://www.aqmd.gov/home/regulations/compliance/architectural-coatings/super-compliant-coatings
[17] Hexagon Transportation Consultants, Inc., "Trip Generation and Trip Distribution for the Proposed Google Middlefield Park Master Plan in Mountain View, California", September 21, 2021.

Generation Manual, 10th Edition 2017, the project would produce 17,084 daily trips. The daily trip generation estimates were provided for the multifamily housing, general office buildings, and retail (Shopping Center) developments and then adjusted to account for *Housing and Employment Mixed-Use Reduction, Housing and Retail Mixed-Use Reduction, Transit Reduction, and VMT Reduction*. Note that daily passby and diverted trip adjustments were based on CalEEMod default conditions. The Saturday and Sunday trip rates were assumed to be the weekday rate adjusted by multiplying the ratio of the CalEEMod default rates for Saturday and Sunday trips to the default weekday rate. The default trip lengths and trip types specified by CalEEMod were used.

The trip generation rates reflect TDM requirements, as the EWPP specifies office and R&D projects with new construction or additions greater than 10,000 square feet are required to provide a TDM plan with programs and measures to reduce vehicle trips. Additionally, the proposed Project includes design and operational elements to reduce traffic. The MPMP would fund and construct (or some combination of both) area bicycle and pedestrian network improvements on Project site street frontages along Ellis Street, East Middlefield Road, Logue, Maude, and Clyde Avenues. The mixed-use character of the MPMP, which would increase employment and housing opportunities within a half-mile of the existing Middlefield Light Rail Station, which combined with potential on-site features and services such as on-site food, fitness center, banking, childcare, and bicycle repair services would reduce the need for vehicle trips. Operationally, the MPMP would include commuter shuttle services for office uses, carshare services, first-mile/last-mile micro mobility services, an on-site transportation coordinator, flexible work schedules for employees, marketing and information for the proposed TDM program, pre-tax commuter benefits, biking incentives, bike buddy program, bike loaner program, rideshare matching services, and an expanded carpool matching program. These additional measures were not reflected in the project trip generation estimates that were input to CalEEMod.

EMFAC2021 Adjustment

The vehicle emission factors and fleet mix used in CalEEMod are based on EMFAC2017, which is an older CARB emission inventory for on road and off road mobile sources. Since the release of CalEEMod Version 2020.4.0, new emission factors have been produced by CARB. EMFAC2021 became available for use in January 2021. It includes the latest data on California's car and truck fleets and travel activity. The CalEEMod vehicle emission factors were updated with the emission rates from EMFAC2021. On road emission rates from Santa Clara County were used (See *Attachment 3*). More details about the updates in emissions calculation methodologies and data are available in the EMFAC2021 Technical Support Document.[18]

TDM Measures

The project will be required to implement the EWPP TDM Plan. The applicant proposes TDM measures that address these requirements and includes additional programs designed to improve circulation, minimize traffic impacts, and promote multimodal accessibility for workers and residents. This plan would reduce both local and regional travel from office and residential travel.[19]

[18] See CARB 2021: https://ww2.arb.ca.gov/our-work/programs/mobile-source-emissions-inventory/road-documentation/msei-modeling-tools-emfac

The effect of the required TDM measures is reflected in the Project trip generation reported in the Transportation Analysis and used in this modeling. No adjustments were made in CalEEMod for TDM.

Consumer Product Adjustment

CalEEMod computes emissions associated with consumer products for all land uses, regardless of their types.[20] However, the emission rate in the model has not been updated since the development of CalEEMod in 2011 that used data published in 2008. ROG emissions from consumer products are forecasted to decrease, as shown in the CARB county emissions forecasts for 2010 through 2030. A factor to adjust the ROG consumer was developed based on the change in the per population ROG consumer emissions between 2008 and 2030. Essentially, the 2030 rate is anticipated to be less than 80 percent of the 2008 rate that CalEEMod uses. A General Category ROG emission factor of 0.0000171 grams per square foot per day was to predict consumer product emissions.

Energy

Residential and office buildings were assumed to be powered by electricity using PG&E. Only retail uses were assigned CalEEMod default natural gas usage.

Wood-Burning Devices

CalEEMod default inputs assume new residential construction would include woodburning fireplaces and stoves. The project would not include wood-burning devices, as these devices are prohibited by BAAQMD Regulation 6, Rule 3.[21] Therefore, the number of woodstoves and woodburning fireplaces in CalEEMod were set to zero and assigned as natural gas.

Project Generators

The project proposes to include eleven stand-by emergency generators powered by diesel. The project proposes one generator in each building, excluding parking structures. Specific generators have not been identified at this time but the maximum size would be 500 kW for residential buildings and 900 kW for office buildings. The engine size estimated to power these generators is 670 hp for the residential buildings and 1,206 hp for the office building generators. The generators would be located within the basements of the buildings. These generators would be tested periodically and power the buildings in the event of a power failure. For modeling purposes, it was assumed that the generators would be operated primarily for testing and maintenance purposes that require about one to two hours per month of operation. CARB and BAAQMD requirements limit these engine operations to 50 hours each per year of non-emergency operation. The modeling

[20] Per the CalEEMod User's Guide: "Consumer products are chemically formulated products used by household and institutional consumers, including, but not limited to, detergents; cleaning compounds; polishes; floor finishes; cosmetics; personal care products; home, lawn, and garden products; disinfectants; sanitizers; aerosol paints; and automotive specialty products"

[21] Bay Area Air Quality Management District, https://www.baaqmd.gov/~/media/dotgov/files/rules/regulation-6-rule-3/documents/20191120_r0603_final-pdf.pdf?la=en

assumed that total operation of the generators would be 50 hours per year. The engines would be required to meet CARB and EPA emission standards and consume commercially available California low-sulfur diesel fuel. The generator emissions were modeled using CalEEMod. Additionally, the generators would have to meet BAAQMD BACT requirements for IC Engine-Compression Ignition: Stationary Emergency, non-Agricultural, non-direct drive fire pump sources. These include emission limits similar to U.S. EPA Tier 2 engines for generator engines smaller than 1,000 hp that would be used in residential buildings and Tier 4 standards for the engines larger than 1,000 hp used in office buildings. Table 6, above, describes the generators modeled for each phase.

Cooling Towers

The project would include a mechanical draft cooling tower with three cooling tower cells, on the roof/penthouse of Building O1. Particulate matter emissions from evaporative cooling can occur and are a result of evaporation of liquid water entrained in the discharge air stream and carried out of the tower as "drift" droplets that contain dissolved solids in the water. Drift droplets that evaporate can produce small particulate matter (i.e., PM_{10} and $PM_{2.5}$) emissions. These emissions are generated when the drift droplets evaporate and leave the particulate matter formed by crystallization of dissolved solids. Since these cooling towers would not use process water (typically used in refineries), ROG emissions would be negligible.

The PM_{10} and $PM_{2.5}$ emissions from evaporative cooling were calculated based on design assumptions provided by the applicant including use of evaporative cooling for 2,100 hours per year a recirculating water flow rate of 6,765 gallons per minute (gpm), use of 0.005 percent drift eliminators, an influent water total dissolved solids (TDS) concentration of 830 ppm and recirculating water concentration of 2,490 ppm, with a cooling tower drift of 0.34 gpm.[22] The cooling towers are not expected to produce emissions of volatile organic compounds (VOCs) or other criteria pollutants.[23] The particulate matter emissions for the proposed cooling towers are included in *Attachment 4*.

Food Charbroiling

The proposed Project includes restaurants or cafeterias that would cook food. As a worst-case analysis, these facilities were assumed to charbroil meat. Based on applicant-provided data, the restaurants could cook a total of 291 pounds per day of hamburger, chicken, salmon, and steak for five restaurants (average total of 233 pounds per day per restaurant). TAC emissions from charbroiling were estimated using the default emission factors provided in Section 2.3.4.2 of SJVAPCD's *Guidance for Air Dispersion Modeling*. The primary TAC emissions from charbroilers are polycyclic aromatic hydrocarbons (PAHs). Emission data for use of a under-fired charbroiler was assumed given that specific restaurant types have not been identified for the project location.

[22] Recirculating water flow rate and maximum TDS concentration provided by the applicant.
[23] South Coast AQMD, *Guidelines for Calculating Emissions from Cooling Towers*, November 2019. Web: https://www.aqmd.gov/docs/default-source/planning/annual-emission-reporting/guidelines-for-calculating-emissions-from-cooling-towers---november-2017-final.pdf?sfvrsn=12

Criteria pollutant emissions factors in pounds of pollutant per ton of meat cooked were obtained from the SJVAPCD's *2006 Area Source Emissions Inventory Methodology: 690 – Commercial Cooking Operations*, which used the emissions factors from the U.S. EPA's 2002 National Emissions Inventory (NEI). Emissions factors were provided for PM_{10}, $PM_{2.5}$, and VOCs for cooking of steak, hamburger, poultry, and seafood. Restaurant emissions were considered to have controls since these would not be open-air cooking operation and would be subject to BAAQMD Regulation 6, Rule 2 that applies to commercial cooking equipment. Controls include the use of catalytic oxiders that remove over 80 percent or volatile organic compounds (similar to ROG) and particulate matter (i.e., PM_{10} and $PM_{2.5}$). The criteria and TAC emissions for charbroiling are included in *Attachment 4*.

Other Inputs

Default model assumptions for emissions associated with solid waste generation and water/wastewater use were applied to the project. Water/wastewater use was changed to 100 percent aerobic conditions to represent wastewater treatment plant conditions. The project site would not send wastewater to septic tanks or facultative lagoons.

Existing Uses

The project site is currently occupied by existing office buildings and parking facilities. Approximately 685,000 sf of office buildings that generate 6,272 trips per day would be removed. Emissions associated with these buildings were also modeled using CalEEMod. Removal of existing uses would likely remove stationary sources that have emissions of criteria air pollutants and TACs; however, the emissions of these sources are not known and were not included in the modeling.

Summary of Computed Operational Emissions

Annual emissions were calculated using CalEEMod and daily emissions were calculated assuming 365 days of operation. As shown in Table 10, operational emissions would exceed the BAAQMD significance thresholds for ROG during operation of the project. This would be a significant impact. Implementation of Mitigation Measure AQ-4 would reduce this impact. With mitigation measures, ROG emissions would remain significant.

Table 10. Unmitigated Annual and Daily Operational Period Emissions

Scenario	ROG	NOx	PM_{10}	$PM_{2.5}$
Operational Emissions Per Year (Tons)				
2021 Existing Emissions	6.57	3.43	1.89	0.53
Unmitigated 2032 Annual Operational Emissions (*tons/year*)				
Area	12.08	0.16	0.08	0.08
Energy	0.12	1.05	0.08	0.08
Mobile	6.82	4.15	5.56	1.45
Stationary	0.41	0.58	0.03	0.03
Waste	--	--	--	--
Water	--	--	--	--
Cooling Towers	--	--	0.31	0.19
Char broilers	0.04	--	0.49	0.48
TDM Reduction	-0.00	-0.00	-0.00	-0.00
Unmitigated PROJECT TOTAL	**19.47**	4.90	6.47	2.23
Mitigated PROJECT Total	**18.25**	--	--	--
Net Increase **Unmitigated**	**12.90**	1.47	4.58	1.70
Net Increase **Mitigated**	**11.68**	--	--	--
BAAQMD Thresholds (tons /year)	*10 tons*	*10 tons*	*15 tons*	*10 tons*
Exceed Threshold?				
Unmitigated	***Yes***	*No*	*No*	*No*
Mitigated	***Yes***	*No*	*No*	*No*
Annualized Daily Operational Emissions (pounds/day)[1]				
Unmitigated Daily Net Emissions – (*lbs/day*)	**70.69**	8.03	25.11	9.29
Mitigated Daily Net Emissions – (*lbs/day*)	**64.00**	--	--	--
BAAQMD Thresholds (pounds/day)	*54* lbs.	*54* lbs.	*82* lbs.	*54* lbs.
Exceed Threshold?				
Unmitigated	***Yes***	*No*	*No*	*No*
Mitigated	***Yes***	*No*	*No*	*No*
Notes: [1] Assumes 365-day operation.				

Mitigation Measure AQ-3: Require use of low VOC coatings to reduce ROG emissions.

See Mitigation Measure AQ-3 above.

Effectiveness of Mitigation Measure AQ-3 on Operational Emissions.

It is assumed that only exterior paint applications could be fully controlled through this mitigation measure since residential and office occupants would likely independently choose their own architectural coatings. Interior coatings were assumed to have a 50-percent reduction. During operation, the implementation of MM AQ-4 would reduce total ROG emissions by 6 percent or 1.2 tons per year. Consumer product and mobile sources would continue to make up a majority of the ROG emissions.

Significant ROG Emissions during Project Operation

When evaluated using the thresholds contained in the 2017 version of the BAAQMD CEQA Air Quality Guidelines the project would have significant emissions of ozone precursor pollutants, ROG, during operation. These emissions cannot be feasibly reduced further, as the proposed Project includes features and mitigation measures to minimize these emissions. Such features include a mix-use project near transit, implementation of an enhanced TDM plan, and mitigation measures to reduce evaporative ROG emissions from architectural coatings. Emissions of ROG associated with consumer product use would be the overwhelming contributor to project ROG emissions. These emissions cannot be controlled by the proposed Project.

Significant emissions of these pollutants result in a cumulatively considerable net increase of criteria pollutants for which the project region is in nonattainment under an applicable ambient air quality standard. Because the project would have emissions of ROG that would exceed emission-based significance thresholds, the project would result in a cumulatively considerable net increase in pollutant emissions that contribute to elevated ozone concentrations that exceed ambient air quality standards.

Ozone is a powerful oxidant that is harmful to public health at high concentrations. Ozone, at high levels, can damage the tissues of the lungs and respiratory tract. High concentrations of ozone irritate the nose, throat, and respiratory system and constrict the airways.[24] Ozone also can aggravate other respiratory conditions such as asthma, bronchitis, and emphysema, causing increased hospital admissions. Repeated exposure to high ozone levels can make people more susceptible to respiratory infection and lung inflammation and permanently damage lung tissue. Ozone can also have negative cardiovascular impacts, including chronic hardening of the arteries and acute triggering of heart attacks. Children are most at risk, as they tend to be active and outdoors in the summer, when ozone levels are highest. Seniors and people with respiratory illnesses are also especially sensitive to ozone's effects. Even healthy adults, working or exercising outdoors during high ozone levels, can be affected. Ozone is not emitted directly from pollution sources. Instead, ozone is formed in the atmosphere through complex chemical reactions in the presence of sunlight between two types of precursor chemicals: hydrocarbons, often referred to as ROG and NOx. As air temperatures rise, the formation of ground level ozone increases at an accelerated pace. Ozone levels are usually highest on clear, hot, windless summer afternoons, especially in inland valleys that are downwind of pollution sources.

Ozone is a regional pollutant. Emissions of ROG and NOx throughout the Bay Area contribute to ozone formation. Because emissions in one part of the region can impact air quality miles downwind, efforts to reduce ozone levels focus on reducing emissions of ROG and NOx throughout the region. The relationship between ROG and NOx in ozone formation is complex; the ratio between the precursor pollutants influences how ozone forms. BAAQMD's ozone modeling indicates that the Bay Area is "ROG-limited" for ozone formation. This means that reducing ROG emissions in the Bay Area will be more productive in reducing ozone, at least in the near term. However, modeling also suggests that large reductions in NOx emissions will be needed to achieve the ozone reductions required to attain the current health-based ozone standards.

[24] See: California Air Resource Board, Web: https://ww2.arb.ca.gov/resources/ozone-and-health

A certain amount of ozone formation occurs naturally, even in the absence of anthropogenic emissions of ROG and NOx.[25]

As stated in the BAAQMD CEQA Air Quality Guidelines, air pollution by its nature is largely a cumulative impact. No single project is sufficient in size to, by itself, result in nonattainment of ambient air quality standards. Instead, a project's individual emissions contribute to existing cumulatively significant adverse air quality impacts. If a project's contribution to the cumulative impact is considerable, then the project's impact on air quality is considered significant. In developing thresholds of significance for air pollutants, 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 to the region's existing air quality conditions.

The project emissions from operation are compared against regional emissions that lead to elevated concentrations of ozone in Table 11. By comparing project emissions to regional emissions, one gets the sense of the magnitude of the project effects on regional air quality. Project operational emissions in comparison to regional emissions are a small portion of the regional inventory (i.e., 0.02 percent unmitigated) that the effect of the project would not cause regional pollutant levels to measurably change. As a result, the project would not measurably increase ozone levels. Therefore, the health effects associated with the project ROG emissions would not be measurable. Therefore, potential health impacts caused by Project ROG emissions are not measurable. However, the Project would increase emissions above the threshold of 54 pounds per average day, such that the emissions would be cumulatively considerable. This results in significant adverse air quality impacts to the region's existing air quality conditions.

Table 11. Comparison of Project Emissions to Air Basin Emissions[26]

Scenario	ROG
Bay Area Air Basin in 2020	203 tons/day
Bay Area Air Basin in 2030[1]	200 tons/day
Mitigated Project Operation	0.03 tons/day (11.68 tons/year)
% of Basin in 2030	*0.02%*

[1]Closest year of analysis to proposed Project operational year

Impact AIR-2: Expose sensitive receptors to substantial pollutant concentrations?

Project impacts related to increased community risk can occur by introducing a new source of TACs with the potential to adversely affect existing sensitive receptors in the project vicinity or by significantly exacerbating existing cumulative TAC impacts. This project would introduce new sources of TACs during construction (i.e., on-site construction activity and truck hauling emissions) and operation (i.e., mobile sources and stationary sources).

[25] Bay Area Air Quality Management District, 2017. *Spare the Air Cool the Climate Final 2017 Clean Air Plan*. April. Web: https://www.baaqmd.gov/~/media/files/planning-and-research/plans/2017-clean-air-plan/attachment-a_-proposed-final-cap-vol-1-pdf.pdf?la=en

[26] CARB. 2021. 2016 SIP Emission Projection Data. See https://www.arb.ca.gov/app/emsinv/2017/emssumcat.php?_ga=2.50848289.940452654.1638212311-106250637.1504031780 accessed November 29, 2021 to estimate year 2020 and 2030 emissions.

Project construction activity would generate dust and equipment exhaust that would affect nearby sensitive receptors. This project operation would increase traffic in the area that would increase the air pollutant and TAC emissions in the area. In addition, the project would include the installation of emergency generators powered by diesel engines, cooling towers, and charbroilers that would also have TACs and air pollutants emissions.

Project impacts to existing sensitive receptors were addressed for temporary construction activities and long-term operational conditions. There are also several sources of existing TACs and localized air pollutants in the vicinity of the project. The impacts of the existing sources of TACs were also assessed in terms of the cumulative risk which includes the project contribution, as well as the risk on the new sensitive receptors introduced by the project.

Community Risk Methodology for Construction and Operation

Community risk impacts were addressed by predicting increased cancer risk, the increase in annual $PM_{2.5}$ concentrations and computing the Hazard Index (HI) for non-cancer health risks. The risk impacts from the project are the combination of risks from construction and operation sources. These sources include on-site construction activity, construction truck hauling, stand-by emergency generator operation, and increased traffic from the project. To evaluate the increased cancer risks from the project, a 30-year exposure period is typically used, per BAAQMD guidance,[27] with the residential sensitive receptors being exposed to both project construction and operation emissions during this timeframe.

The project increased cancer risk is computed by summing the project construction cancer risk and operation cancer risk contributions. Unlike the increased maximum cancer risk, the annual $PM_{2.5}$ concentration and HI values are not additive but based on the annual maximum values for the entirety of the project. The project's maximally exposed individual (MEI) is identified as the sensitive receptor that is most impacted by the project's construction and operation.

The methodology for computing community risks impacts is contained in *Attachment 1*. This involved the calculation of TAC and $PM_{2.5}$ emissions, dispersion modeling of these emissions, and computations of cancer risk and non-cancer health effects.

Modeled Sensitive Receptors

Receptors for this assessment included locations where sensitive populations would be present for extended periods of time (i.e., chronic exposures). This includes future residences of the recently approved 400 Logue Avenue and 355 East Middlefield Road, as well as existing sensitive receptors to the southwest, south, and southeast (see Figure 3). A separate analysis of on-site sensitive receptors was also conducted at locations of the residential buildings (i.e., R1, R2, R3, R4, R5, and R6). Cancer risk computations assumed third-trimester fetus, infant, child, and adult exposure periods over 30 years at residential receptors. No schools or daycare facilities were identified within 1,000 feet of the project site.

[27] BAAQMD, 2016. *BAAQMD Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines.* December 2016.

Health Risks from Project Construction – On-Site Construction and Hauling Activities

Construction equipment and associated heavy-duty truck traffic generates diesel exhaust, which is a known TAC. These exhaust air pollutant emissions would not be considered to contribute substantially to existing or projected air quality violations. Construction exhaust emissions may pose health risks for sensitive receptors such as surrounding residents. The primary community risk impact issues associated with construction emissions are cancer risk and exposure to $PM_{2.5}$. A community risk assessment of the project's construction activities, which includes on-site construction and hauling activity, was conducted. The assessment evaluated potential health effects to nearby sensitive receptors from construction emissions of DPM and $PM_{2.5}$.[28] This assessment included dispersion modeling to predict the off-site concentrations resulting from project construction, so that increased cancer risks and non-cancer health effects could be evaluated.

Construction Emissions

The CalEEMod and EMFAC2021 models provided total annual PM_{10} exhaust emissions (assumed to be DPM) for the off-road construction equipment and for exhaust emissions from on-road construction worker, vendor, and hauling vehicles. Total emissions from all construction stages for the District Utilities construction scenario, including use of dewatering pumps, are reported in Table 12 and are on an annual basis.[29] The annual on-road emissions result from haul truck travel during demolition and grading activities, worker travel, and vendor deliveries during construction. A trip length of one mile was used for vehicle travel while at or near the construction site to represent localized vehicle emissions from construction. It was assumed that these emissions from on-road vehicles traveling at or near the site would occur at the construction site. Fugitive $PM_{2.5}$ dust emissions were computed by CalEEMod for the overall construction period and are included as part of the total $PM_{2.5}$ emissions reported in Table 12.

Table 12. Unmitigated Construction Emissions of DPM and Fugitive $PM_{2.5}$ (tons)

Contaminant	2023	2024	2025	2026	2027	2028	2029	2030	2031
PM_{10} Exhaust	0.529	0.128	0.315	0.677	0.387	0.234	0.080	0.015	0.004
$PM_{2.5}$ Fugitive	1.042	0.017	0.999	1.764	0.318	0.025	0.020	0.008	0.002

Dispersion Modeling

The U.S. EPA AERMOD dispersion model was used to predict concentrations of DPM and $PM_{2.5}$ concentrations at sensitive receptors (residences) in the vicinity of the project construction area. The AERMOD dispersion model is a BAAQMD-recommended model for use in modeling analysis of these types of emission activities for CEQA projects.[30] Emission sources for the construction site were grouped into two categories: exhaust emissions of DPM and fugitive $PM_{2.5}$ dust emissions.

[28] DPM is identified by California as a toxic air contaminant due to the potential to cause cancer.
[29] Note that the District Utilities construction scenario had the highest emissions.
[30] Bay Area Air Quality Management District (BAAQMD), 2012, *Recommended Methods for Screening and Modeling Local Risks and Hazards, Version 3.0.* May.

Construction Sources

The AERMOD modeling utilized 14 area sources to represent the on-site construction emissions from the different construction phases (see Figure 5), seven areas for exhaust emissions of DPM and $PM_{2.5}$ and seven areas for fugitive $PM_{2.5}$ dust emissions. To represent the construction equipment exhaust emissions, an area source emission release height of 20 feet (6 meters) was used for the area sources.[31] The release height incorporates both the physical release height from the construction equipment (i.e., the height of the exhaust pipe) and plume rise after it leaves the exhaust pipe. Plume rise is due to both the high temperature of the exhaust and the high velocity of the exhaust gas. It should be noted that when modeling an area source, plume rise is not calculated by the AERMOD dispersion model as it would do for a point source (exhaust stack). Therefore, the release height from an area source used to represent emissions from sources with plume rise, such as construction equipment, should be based on the height the exhaust plume is expected to achieve, not just the height of the top of the exhaust pipe. Emissions from vehicle travel on- and off-site were distributed among the exhaust emission area sources throughout the site. The locations of the area sources used for the modeling are identified in Figure 5.

For modeling fugitive $PM_{2.5}$ emissions, a near-ground level release height of 7 feet (2 meters) was used for the area source. Fugitive dust emissions at construction sites come from a variety of sources, including truck and equipment travel, grading activities, truck loading (with loaders) and unloading (rear or bottom dumping), loaders and excavators moving and transferring soil and other materials, etc. All of these activities result in fugitive dust emissions at various heights at the point(s) of generation. Once generated, the dust plume will tend to rise as it moves downwind across the site and exit the site at a higher elevation than when it was generated. For all these reasons, a 7-foot release height was used as the average release height across the construction site. Emissions from the construction equipment and on-road vehicle travel were distributed throughout the modeled area sources.

Construction dewatering pump engines were modeled as point sources using stack parameters (stack height, stack diameter, exhaust gas temperature and velocity) based on BAAQMD default parameters for diesel engines[32]. Annual average DPM and $PM_{2.5}$ concentrations were modeled assuming that operation could occur at any time of the day (24 hours per day, 365 days per year). The approximate locations of the dewatering pumps were provided by the applicant and pumps were assumed to be positioned at the ground level. The Figure 5 includes the locations of modeled dewatering pump engine sources.

AERMOD Inputs and Meteorological Data

The modeling used a 5-year meteorological data set (2013-2017) from the Moffett Airfield prepared for use with the AERMOD model by the BAAQMD. Construction emissions were modeled as occurring between 7:00 a.m. to 6:00 p.m. Monday through Saturday for the entire construction period. Construction dewatering pumps emissions were assumed to occur 24 hours

[31] California Air Resource Board, 2007. *Proposed Regulation for In-Use Off-Road Diesel Vehicles, Appendix D: Health Risk Methodology*. April. Web: https://ww3.arb.ca.gov/regact/2007/ordiesl07/ordiesl07.htm

[32] The San Francisco Community Risk Reduction Plan: Technical Support Document, BAAQMD, San Francisco Dept. of Public Health, and San Francisco Planning Dept., December 2012

per day. Annual DPM and $PM_{2.5}$ concentrations from construction activities during the 2022/2023-2031 period were calculated using AERMOD. DPM and $PM_{2.5}$ concentrations were calculated at nearby sensitive receptor locations. For off-site residential receptors, other than for the 400 Logue Avenue development, receptor heights of 5 feet (1.5 meters) and 15 feet (4.5 meters) were used to represent the breathing heights of residents on the first and second floors in nearby multi-family homes, townhomes, and multi-story residential developments.[33] For the 400 Logue Avenue development, receptors heights of 1.5 meters and 18 feet (5.5 meters) were used for the first and second floor residential receptors.

Summary of Construction Community Risk Impacts

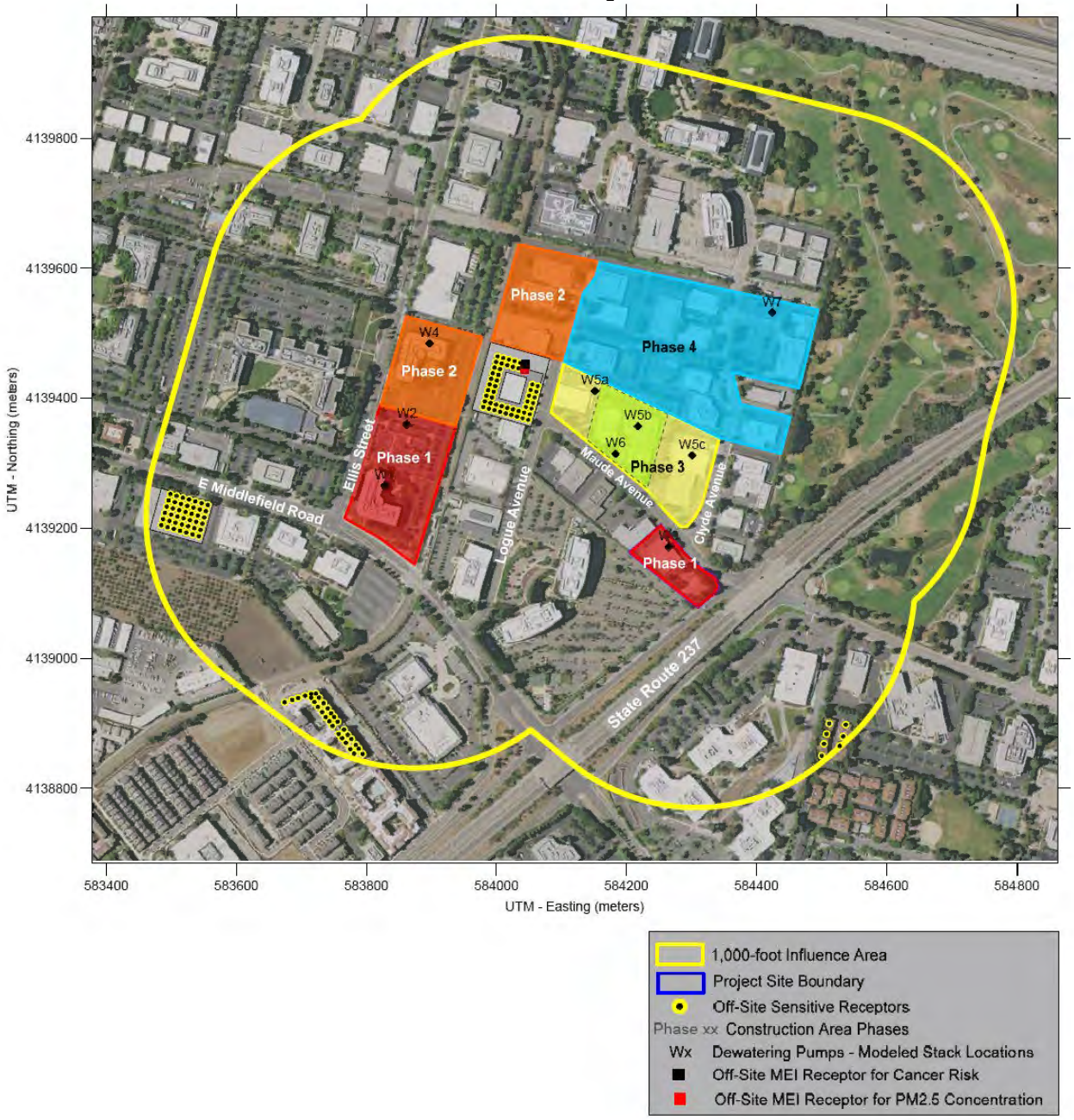
The increased cancer risk calculations were based on applying the BAAQMD recommended methods as described in *Attachment 1*. These methods include application of age sensitivity factors to the TAC concentrations. Age-sensitivity factors reflect the greater sensitivity of infants and small children to cancer causing TACs. Third trimester, infant, child, and adult exposures were assumed to occur at all residences during the entire construction period.

The maximum modeled annual $PM_{2.5}$ concentration was calculated based on combined exhaust and fugitive concentrations. The maximum computed HI values was based on the ratio of the maximum modeled DPM concentration and the chronic inhalation reference exposure level of 5 $\mu g/m^3$.

The maximum modeled annual DPM and $PM_{2.5}$ concentrations were identified at nearby sensitive receptors to find the MEI. Results of this assessment indicated that the construction MEIs were located at two adjacent receptor locations near the northeast corner of the 400 Logue Avenue development. The $PM_{2.5}$ concentration MEI was located at a receptor on the first-floor level and cancer risk MEI was located at a receptor on the second floor level. The locations of the construction MEIs and nearby sensitive receptors are shown in Figure 5. Table 14 includes the maximum cancer risks, $PM_{2.5}$ concentrations, and health hazard indexes for project related construction activities. *Attachment 4* to this report includes the emission calculations used for the construction modeling and the cancer risk calculations.

[33] Bay Area Air Quality Management District, 2012, Recommended Methods for Screening and Modeling Local Risks and Hazards, Version 3.0. May. Web: https://www.baaqmd.gov/~/media/files/planning-and-research/ceqa/risk-modeling-approach-may-2012.pdf?la=en

Figure 5. Project Construction Site and Locations of Off-Site Sensitive Receptors and Maximum Construction TAC Impacts



Health Risks from Project Operation – Traffic, Generators, Cooling Towers, Charbroilers

Operation of the project would have long-term emissions from mobile sources (e.g., traffic) and stationary sources (e.g., generators, cooling towers, charbroilers). While these emissions would not be as intensive at or near the site as construction activity, they would contribute to long-term effects to sensitive receptors.

Project Operational Traffic

Most traffic generated by the project would be accommodated on five local roadways and State Route 237. An analysis was conducted of the local impacts of TACs and $PM_{2.5}$ from increase in traffic on roadways due to the project. The project would generate 10,812 net daily trips.[34] A majority of these trips would be from light-duty, gasoline vehicles (i.e., passenger cars). To address the added community risks, the impact from this traffic was assessed using emission factors from the EMFAC2021 emissions model and the Caltrans CT-EMFAC2017 emissions model, the AERMOD dispersion model, and cancer risk calculations following BAAQMD methodology described in *Attachment 1*. Figure 6 shows the modeled roadway segment.

Traffic Emissions

This analysis involved the development of DPM, organic TACs, and $PM_{2.5}$ emissions for traffic on roadways near the project site using the EMFAC2021 and the CT-EMFAC2017 emissions models. Running emission factors were developed for mobile source criteria pollutants and TACs, including

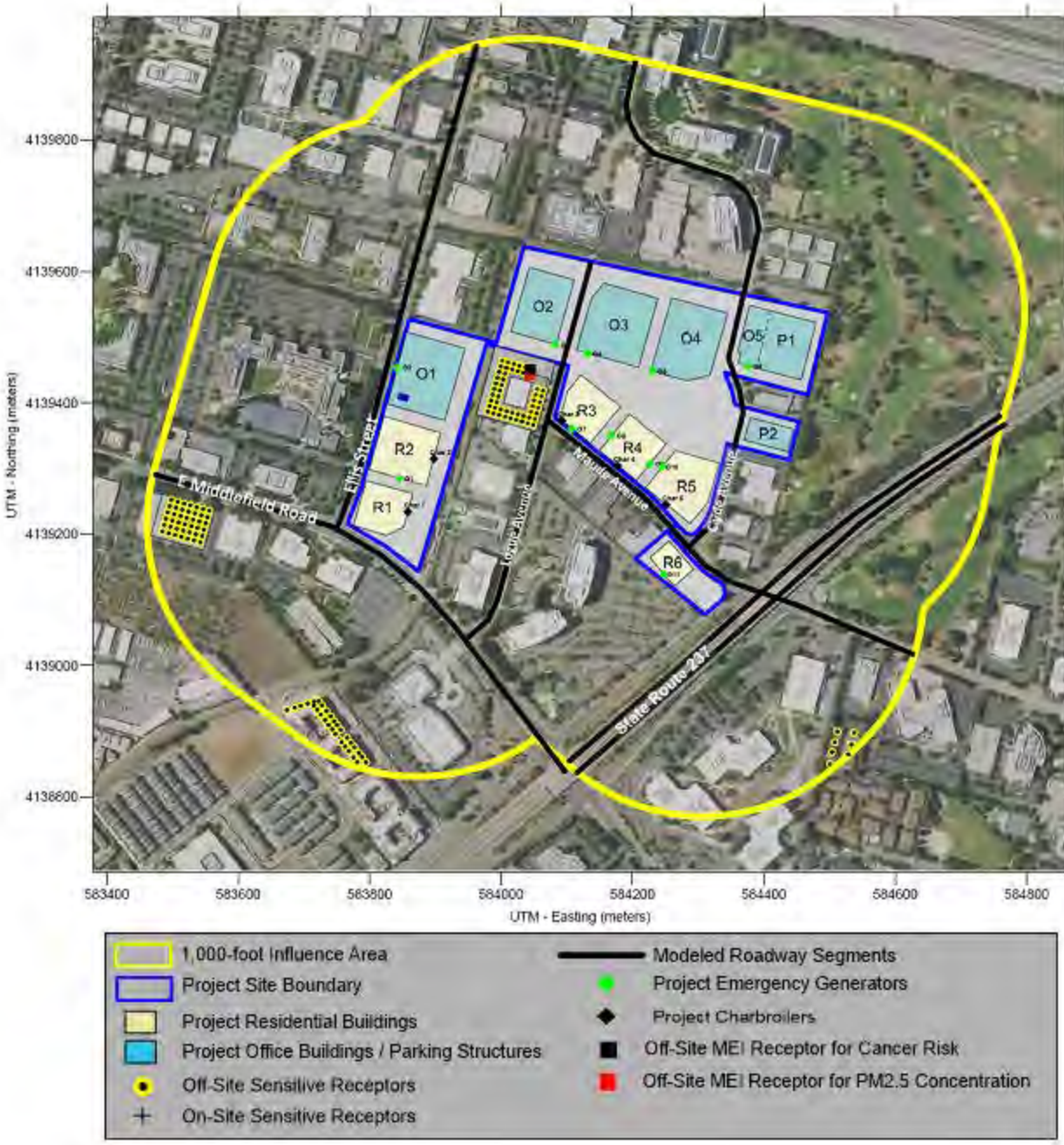
The latest version of CARB's EMFAC emissions model (EMFAC2021) was used to develop the emissions rates needed. However, because EMFAC2021 only produces emissions rates using county-wide vehicle populations and does not provide specific emissions rates for DPM, CT-EMFAC2017 was also used to aid in the development of emissions rates used in the analysis. CT-EMFAC2017 is the Caltrans version of the CARB's EMFAC2017 emissions model and provides emission factors for mobile source criteria pollutants and TACs, including DPM based on the specific truck fractions indicated above.

CT-EMFAC2017 was used to estimate the fraction of gasoline and diesel vehicles in three vehicle categories (i.e., Non-Truck, Truck 1, and Truck 2) based on the truck percentage for the roads. These CT-EMFAC2017 fractions were then applied to the EMFAC2021 emissions rates and aggregated to provide one emissions factor for each pollutant and speed needed. The ratio of DPM to $PM_{2.5}$ produced by CT-EMFAC2017 was used to derive a DPM emissions rate using EMFAC2021 for each speed needed. Emission processes modeled include running exhaust for DPM, $PM_{2.5}$ and TOG, running evaporative losses for TOG, and tire and brake wear and fugitive road dust for $PM_{2.5}$. Entrained roadway dust was computed using an average silt loading factor of 0.0435 grams per square meter (g/m^2) for non-highway travel and 0.015 g/m^2 for SR 237.[35]

[34] Hexagon Transportation Consultants, Inc., "Trip Generation and Trip Distribution for the Proposed Google Middlefield Park Master Plan in Mountain View, California", September 21, 2021

[35] CARB. 2021. *MISCELLANEOUS PROCESS METHODOLOGY 7.9, Entrained Road Travel, Paved Road Dust.* Revised and Updated March 2021. https://ww2.arb.ca.gov/applications/emissions-county

Figure 6. Locations of Modeled Project Stationary and Roadway Sources, Off-Site Sensitive Receptors, and Construction and Project Maximum TAC Impacts



Inputs to the model include region (i.e., Santa Clara County), truck percentage for non-state highways (local roads) in Santa Clara County (3.51 percent),[36] year of analysis (2026 – project initial operational year), and season (annual). Traffic information for State Route 237 was obtained

[36] Bay Area Air Quality Management District, 2012, *Recommended Methods for Screening and Modeling Local Risks and Hazards, Version 3.0.* May. Web: https://www.baaqmd.gov/~/media/files/planning-and-research/ceqa/risk-modeling-approach-may-2012.pdf?la=en

from Caltrans, which includes annual average daily traffic including truck fractions.[37] Traffic volumes were anticipated to increase by 1-percent per year from the year of the traffic count. Traffic speeds were assumed to be the local speed limits.

Project operation was assumed to begin in 2026 or thereafter and be fully operational in 2032. To calculate the increased cancer risk from increased traffic volumes due to the project traffic, the initial year of exposure to construction emissions that, when combined with the risks from project traffic, results in the maximum cancer risk at the MEI was identified. This was determined to be year 2025. Such that over a 30-year exposure period (2025-2054), the MEIs would be exposed to construction emissions for 7 years (2025-2031) and to roadway traffic for 29 years (2026-2054). In order to estimate TAC and $PM_{2.5}$ emissions over the exposure period for calculating increased cancer risks to exiting residents from project traffic, the EMFAC2021 model was used to develop vehicle emission factors for the year 2026. Year 2026 emissions were conservatively assumed as being representative of future conditions over the time period that cancer risks are evaluated (29 years) from the roadway traffic, since, as discussed above, overall vehicle emissions, and in particular diesel truck emissions will decrease in the future.

Hourly traffic distributions specific to the area of were obtained from Caltrans Performance Measurement System (PeMS) data for U.S. 101 and State Route 85. PeMS data is collected in real-time from nearly 40,000 individual detectors spanning the freeway system across all major metropolitan areas of California.[38] The fraction of traffic volume each hour was calculated and applied to the 2026 average daily traffic volumes estimate to estimate hourly traffic emission rates for the local roads and State Route 237.

For all hours of the day, the average vehicle travel speeds on the roadways were based on posted speed limits. A travel speed of 25 mph was used for Logue Avenue, Maude Avenue, and Clyde Avenue. Travel speeds of 35 mph, 40 mph, and 65 mph were used for E. Middlefield Road, Ellis Street, and State Route 237, respectively. Modeled average daily traffic (ADT) volumes are summarized in Table 13. The segments of the listed roadways within about 1,000 feet of the project site were evaluated.

Table 13. Summarized Daily Traffic Conditions

Roadway	Segment	ADT with Project	Project caused ADT
Ellis Street	north of Middlefield	11,540	2,430
E. Middlefield Road	east of SR 237	18,300	2,600
Logue Ave	north of Middlefield	4,650	1,750
Maude Ave	east of Logue	9,860	3,280
Clyde Ave	north of Maude	6,010	3,530

[37] Caltrans. 2021. *2020 Annual Average Daily Truck Traffic on the California State Highway System.*
[38] https://dot.ca.gov/programs/traffic-operations/mpr/pems-source

Dispersion Modeling

Dispersion modeling of TAC and $PM_{2.5}$ emissions was also conducted using the U.S. EPA AERMOD dispersion model (refer to Figure 6 for road segments modeled). Emissions from vehicle traffic were modeled in AERMOD using a series of area sources along a line (line area sources), with line segments used to represent the roadways. Other inputs to the model to represent these sources included road geometries and elevation, hourly traffic emissions, and receptor locations, elevations, and heights. Roadway and receptor elevations were based on USGS National Elevation Data (NED). The same BAAQMD Moffett Federal Airfield meteorological data used in the construction dispersion modeling were used for the roadway modeling.

Computed Risks and Hazards from Project Traffic

To calculate the increased cancer risk from the project traffic, the exposure duration was adjusted to 29 years to account for the MEIs being exposed to construction for one year of construction over the 30-year exposure period. Traffic exposure would begin at year 5 for 26 years of exposure. The risks and hazards from the project traffic upon the MEIs were calculated using BAAQMD recommended methods. Table 14 includes the maximum cancer risks, $PM_{2.5}$ concentrations, and health hazard indexes for project related traffic activities. The emission rates and roadway calculations used in the project impact analysis are shown in *Attachment 4*.

Operational Emergency Generator Modeling

As previously described, the project would include eleven standby diesel generators, one in each building except for residential Buildings R1 and R2 which would share a single generator. Residential buildings would use 500 kW generators and be powered by 670-hp diesel engines and office buildings would use 900 kW generators and be powered by larger 1,206-hp engines. The locations of the generators modeled are shown in Figure 6, above. The generators would be located in the basements of the buildings and the exhaust stacks were assumed to be located adjacent to the building facades at 12 feet above grade with horizontal discharge.

Operation of a diesel generator would be a source of TAC emissions in the form of DPM. The emissions from the operation of the generator were calculated using information from the CalEEMod model, as previously described. The generators were assumed to operate 50 hours per year. During testing periods, the engine would typically be run for less than one hour under light engine loads. The generator engines would be required to meet EPA emission standards and consume commercially available low sulfur diesel fuel.

These diesel engines would be subject to CARB's Stationary Diesel Airborne Toxics Control Measure (ATCM) and require permits from the BAAQMD, since they will be equipped with engines larger than 50-HP. BACT requirements would apply to these generators that would limit DPM emissions. As part of the BAAQMD permit requirements for toxics screening analysis, the engine emissions will have to meet Best Available Control Technology for Toxics (BACT) and pass the toxic risk screening level of less than ten in a million. The risk assessment would be prepared by BAAQMD. Depending on results, BAAQMD would set limits for DPM emissions (e.g., more restricted engine operation periods). Sources of air pollutant emissions complying with

all applicable BAAQMD regulations generally will not be considered to have a significant air quality community risk impact.

Dispersion Modeling

To obtain an estimate of potential cancer risks and $PM_{2.5}$ impacts from operation of the emergency generators the U.S. EPA AERMOD dispersion model was used to calculate the maximum annual DPM concentration at off-site sensitive receptor locations (nearby residences). The same receptors, breathing heights, and BAAQMD Moffett Federal Airfield meteorological data used in the construction dispersion modeling were used for the generator model. Stack parameters (stack height, exhaust flow rate, and exhaust gas temperature) for modeling the generators was based on BAAQMD default parameters for emergency generators.[39] Annual average DPM and $PM_{2.5}$ concentrations were modeled assuming that generator testing could occur at any time of the day (24 hours per day, 365 days per year).

Computed Risks and Hazards from Project Generator

Increased cancer risks from use of the generator were calculated using the modeled maximum annual DPM concentrations and BAAQMD recommended risk assessment methods and parameters described in *Attachment 1*. The $PM_{2.5}$ concentration and non-cancerous (i.e. Hazard Index) health risk impacts were also calculated. An exposure duration of 29 years for the generators (2026-2054) was used to calculate the increased cancer risk from the generator. Table 14 includes the maximum cancer risks, $PM_{2.5}$ concentrations, and health hazard indexes from the project generators. The emissions and health risk calculations for the proposed generators are included in *Attachment 4*.

Cooling Towers

The average daily $PM_{2.5}$ emissions, of 1.0 pounds per day from cooling tower, were used to model concentrations using the U.S. EPA AERMOD dispersion model. The cooling tower would have 3 cells and each cell was modeled as a volume source. Volume source parameters for modeling the cooling tower cells were based on project-specific cooling tower parameters (i.e., length of side, release height, emission rate (flow rate, TDS, mist eliminator efficiency)). The cooling tower would be located at the top of Building O1, approximately 20 feet in height and have a maximum screen wall height of approximately 130 feet above ground level. Annual $PM_{2.5}$ concentrations were modeled assuming that cooling tower could operate at any time of the day (24 hours per day, 365 days per year). Table 14 includes the maximum cancer risks, $PM_{2.5}$ concentrations, and health hazard indexes from the project cooling towers. *Attachment 4* included cooling tower modeling parameters.

Food Charbroiling

Annual emissions of $PM_{2.5}$ of 0.48 tons per year from five new restaurants or cafeterias at the project, assumed to charbroil meat, were used to model concentrations at sensitive receptors using

[39] The San Francisco Community Risk Reduction Plan: Technical Support Document, BAAQMD, San Francisco Dept. of Public Health, and San Francisco Planning Dept., December 2012

the U.S. EPA AERMOD dispersion model. As discussed above, polycyclic aromatic hydrocarbons (PAHs) would be emitted in small quantities from restaurants at the project. PAHs are a group of over 100 chemicals and can be produced from cooking meat with charbroilers or griddles. PAHs are classified as a TAC with the potential to cause cancer. Two primary components of PAHs of concern with respect to cancer risk are benzo[a]pyrene and naphthalene. For purposes of calculating cancer risks in this assessment, PAH emissions as benzo[a]pyrene and naphthalene were used. TAC emissions from charbroiling were estimated using the default emission factors provided in Section 2.3.4.2 of SJVAPCD's *Guidance for Air Dispersion Modeling*. Emissions from restaurants were modeled as point sources using SJVAPCD-recommended source parameters. The project will include five new restaurants; therefore, 5 point sources were used in the modeling. These sources include a release height of 12 feet, stack diameter of 1.0 foot and discharge horizontally, exit gas temperature of 200° F and exit velocity of 20 feet per second. Table 14 includes the maximum cancer risks, $PM_{2.5}$ concentrations, and health hazard indexes from the project charbroilers. *Attachment 4* includes the emissions and dispersion modeling information.

Summary of Project-Related Community Risks at Off-Site Project MEIs

The sensitive receptors identified in Figure 6 as the MEIs for increased cancer risk and $PM_{2.5}$ from construction are also the MEIs for both construction and operation. The unmitigated cancer risk MEI would be exposed to 1 year of construction cancer risks, 6 years of construction and operation, and 23 years of operation emissions. Operation includes project traffic, standby backup generators operation, cooling tower, and charbroiling emissions. The cancer risks from construction and operation of the project were summed together. The annual $PM_{2.5}$ concentration and HI values are based on annual maximum levels for the entirety of the project, with the maximum values occurring during construction. Therefore, the construction and operational period $PM_{2.5}$ MEI are the same.

As shown in Table 14, the unmitigated maximum cancer risks and annual $PM_{2.5}$ concentration from construction and operation activities would exceed the single-source significance thresholds. As shown in Table 15, even with the best available mitigation measures implemented through *Mitigation Measures AQ-1 and AQ-2*, the project's cancer risk and annual $PM_{2.5}$ concentration would still exceed the single-source thresholds due to the high amount of construction activity. The HI from unmitigated construction and operation activities would not exceed the single-source significance threshold.

Table 14. Unmitigated Maximum Project Health Risk Impacts at the Location of the Off-Site MEIs – District Utilities Scenario

Source	Maximum Cancer Risk (per million)[1]	$PM_{2.5}$ concentration ($\mu g/m^3$)[2]	Hazard Index [2]
Unmitigated Conditions			
Construction	**113.61**	**2.38**	0.09
Traffic	0.22	0.02	<0.01
Emergency Generators	2.83	<0.01	<0.01
Restaurants (charbroilers)	0.01	<0.01	<0.01
Cooling Towers	0.00	0.01	0.00
Unmitigated PROJECT TOTAL	**116.67**	**2.38**	0.09
BAAQMD Single-Source Threshold	***10***	***0.3***	***1.0***
Exceed Threshold? Unmitigated	***Yes***	***Yes***	*No*

[1] Maximum assuming third-trimester fetus, infant, child exposure for construction and child/adult exposure during operation for 30-year exposure.
[2] Maximum annual concentration for any year.

Table 15. Mitigated Maximum Project Health Risk Impacts at the Location of the Off-Site MEI – District Utilities Scenario

Source	Cancer Risk (per million)[1]	$PM_{2.5}$ concentration ($\mu g/m_3$)[2]	Hazard Index [2]
Mitigated Conditions			
Construction[3]	**14.52**	**0.44**	0.01
Traffic	0.22	0.02	<0.01
Emergency Generators	2.83	<0.01	<0.01
Restaurants (charbroilers)	0.01	<0.01	<0.01
Cooling Towers	0.00	0.01	0.00
Mitigated PROJECT TOTAL	**17.58**	**0.44**	0.01
BAAQMD Single-Source Threshold	***10***	***0.3***	***1.0***
Exceed Threshold? Mitigated	***Yes***	***Yes***	*No*

[1] Maximum assuming third-trimester fetus, infant, child exposure for construction and child/adult exposure during operation for 30-year exposure.
[2] Maximum annual concentration for any year.
[3] Assumes use of Tier 4 equipment.

Mitigation: Implement Mitigation Measures AQ-1 and AQ-2

Implement Mitigation Measures AQ-1 and AQ-2.

Mitigation Measure AQ-4: All diesel standby emergency generators powered by diesel fuel shall meet U.S. EPA Tier 4 engine standards.

Permanent stationary emergency generators installed on-site shall have engines that meet or exceed U.S. EPA Tier 4 standards for particulate matter emissions.

Effectiveness of Mitigation Measures AQ-1, AQ-2, and AQ-3

CalEEMod was used to compute mitigated emissions assuming that all equipment larger than 25 horsepower met U.S. EPA Tier 4 final standards or was electrified along with enhanced BAAQMD best management practices for construction were included. With these mitigation measures implemented, the project's construction off-site cancer risk levels would be reduced by 85 percent to 16.75 chances per million for the residential MEI. The project's annual $PM_{2.5}$ concentrations from construction would be reduced by 81 percent to 0.44 $\mu g/m^3$ at the maximum affected residence. Generators equipped with Tier 4 engines would reduce emissions by 85 percent compared to lower tiered engines. Generator engines powered by diesel that are 1,000 hp or larger are required to meet this standard per BAAQMD requirements. Table 15 shows the mitigated health risk assessment results. The mitigated project's risk impacts from construction would still exceed the BAAQMD single-source significance thresholds.

Significant and Unavoidable Construction Cancer Risk and Annual $PM_{2.5}$ Concentration Impact

Mitigation Measure AQ-1 and *AQ-2* would substantially reduce the cancer risk and annual $PM_{2.5}$ concentration impacts posed by unmitigated construction activities and represent the best available measures to reduce project construction period emissions. However, the project cancer risk and $PM_{2.5}$ concentration impacts would remain above the single source thresholds at receptors located at the 400 Logue Avenue due to the high amount of localized construction emissions. Cancer risks and annual $PM_{2.5}$ concentrations at all other sensitive receptors would be reduced below the single-source thresholds.

Project risks and annual $PM_{2.5}$ concentrations are predicted for outdoor air at the sensitive receptor positions. The 400 Logue Avenue project would be constructed to meet the latest Title 24 Building Standards that were adopted in January 2020. These standards now require that air filtration in mechanical ventilation systems for residential buildings use of MERV 13 filters or greater. This requirement also applies to the Project residential buildings. A properly installed and operated ventilation system with MERV-13 filters is expected to achieve an 80-percent reduction of ambient $PM_{2.5}$ concentrations at indoor areas.[40] U.S. EPA studies indicate that most people spend 90 percent of their time indoors. Assuming exposure to 21 hours indoor filtered air and 3 hours outdoor air, the filtration in the ventilation systems would reduce overall exposure by 70 percent. In this case, mitigated cancer risk and annual $PM_{2.5}$ concentrations would be reduced below the significance threshold for sensitive receptors in this new development. However, this assumption is based on the building owners maintaining the systems and residents being informed that the proper operation of the system (with windows closed during construction) is necessary to achieve adequate protection. Neither the applicant nor the City can reliably impose this requirement through mitigation measures. Additionally, the Precise Plan envisions additional residential land uses in the project vicinity. Therefore, even if the 400 Logue development were not constructed, other future developments would likely contain residential receptors resulting in similar cancer risk and $PM_{2.5}$ concentrations at those receptors.

Note that this assessment assumes that sensitive receptors at 400 Logue Ave would be present during construction of Phase 2 that is immediately adjacent and subsequent phases. The Initial Study/Negative Declaration recently approved by the City describes that construction would take 33 to 35 months to complete with occupancy beginning late 2024. This assessment assumes the earliest possible occupation of the site when construction of Phase 2 that is adjacent occurs. If occupancy of those apartments occurs later, cancer risks and annual $PM_{2.5}$ concentrations would be substantially lower because the receptors would not be present. In that scenario, the impacts would be mitigated such that cancer risk and annual $PM_{2.5}$ concentrations would likely be reduced below the thresholds.

[40] Bay Area Air Quality Management District (2016). Appendix B: Best Practices to Reduce Exposure to Local Air Pollution, *Planning Healthy Places A Guidebook for Addressing Local Sources of Air Pollutants in Community Planning* (p. 38). http://www.baaqmd.gov/~/media/files/planning-and-research/planning-healthy-places/php_may20_2016-pdf.pdf?la=en

Cumulative Impact of All TAC Sources on the Off-Site Project MEI

Community health risk assessments typically look at all substantial sources of TACs that can affect sensitive receptors that are located within 1,000 feet of a project site (i.e. influence area). These sources include rail lines, freeways or highways, busy surface streets, and stationary sources identified by BAAQMD.

Based on a review of the project area and traffic information provided by Hexagon Transportation Consultants, Inc., traffic on State Route 237, East Middlefield Road, and Ellis Street exceed 10,000 vehicles per day. Traffic on Maude Avenue approaches 10,000 ADT. Other nearby streets have traffic volumes less than 10,000 vehicles per day. A review of BAAQMD's stationary source Google Earth map tool identified numerous stationary sources within 1,000 feet and some of those are sources that would be removed by the proposed Project. Eleven of these sources would remain with the potential to affect the project MEIs. Figure 7 shows the location of the sources affecting the MEIs. Community risk impacts from these sources upon the MEIs reported in Table 16. Details of the modeling and community risk calculations are included in *Attachment 5.*

Roadways

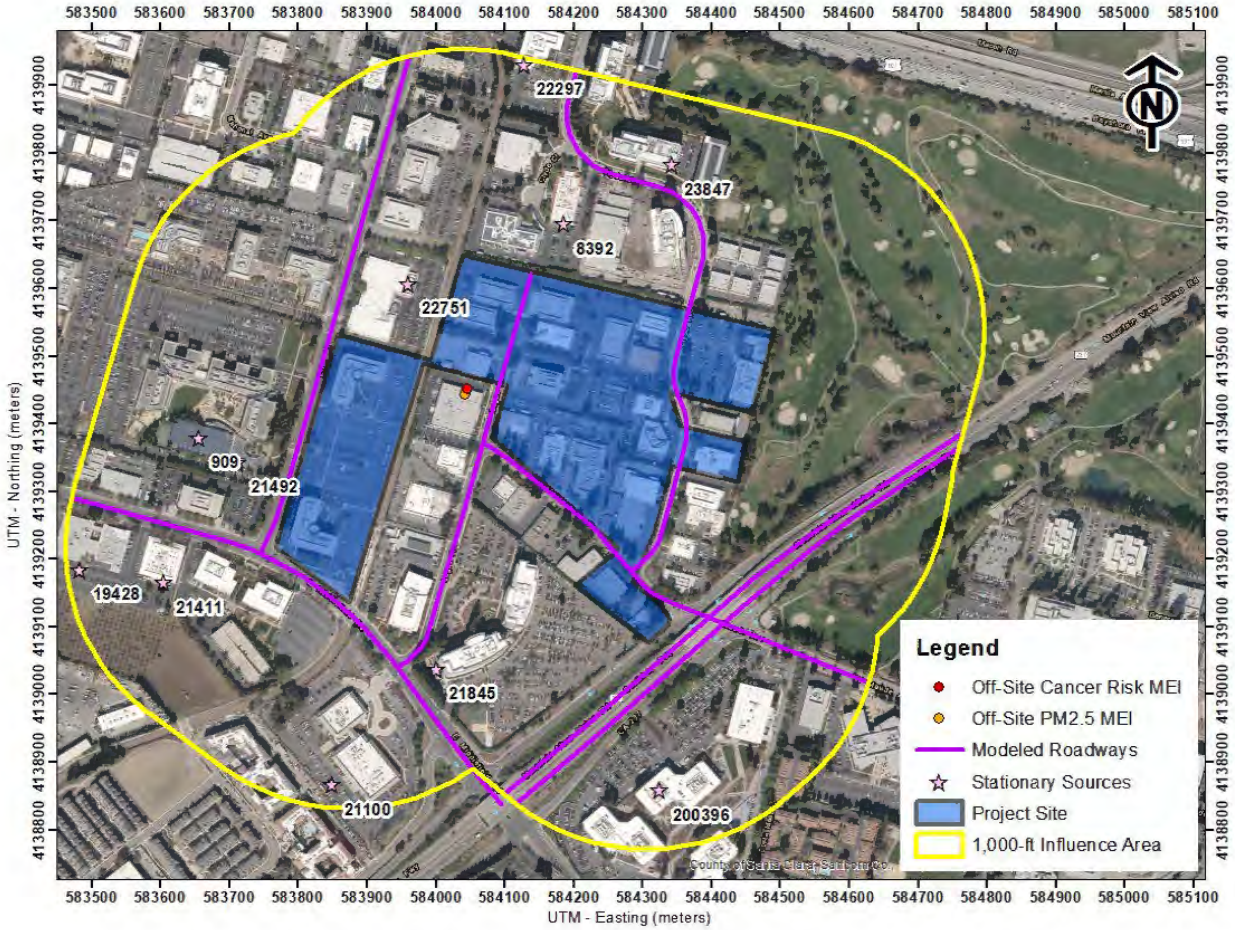
The same inputs (with the exception of ADT) and modeling done to compute the risks and hazards risks from proposed Project traffic was conducted to assess cumulative traffic impacts on the unmitigated and mitigated project MEIs. An exposure period of 30-years was used with a start year of 2023 since the existing off-site receptors are already exposed to traffic along these local roadways.

BAAQMD Permitted Stationary Sources

Permitted stationary sources of air pollution near the project site were identified using BAAQMD's *Permitted Stationary Sources 2018* GIS website, which identifies the location of nearby stationary sources and their estimated risk and hazard impacts, including emissions and adjustments to account for new OEHHA guidance.[41] Numerous sources were identified using this tool. A stationary source information form (SSIF) was submitted to BAAQMD to verify the sources and their screening risk levels.[42] Some sources were found to be located on-site while some others were beyond 1,000 feet from the site. Eleven sources were identified outside of the proposed site and within 1,000 feet. The screening level risks and hazards provided by BAAQMD for the stationary sources were adjusted for distance using BAAQMD's *Distance Adjustment Multiplier Tool for Diesel Internal Combustion Engines*. Community risk impacts from all stationary sources upon the MEI are reported in Table 16. The SSIF containing the list of sources and their screening levels is contained in *Attachment 5*.

[41] BAAQMD, https://baaqmd.maps.arcgis.com/apps/webappviewer/index.html?id=2387ae674013413f987b1071715daa65
[42] BAAQMD. 2021. *Email correspondence with Matthew Hanson, Environmental Planner III*. October 14, 2021.

Figure 7. Project Site and Nearby TAC and $PM_{2.5}$ Sources within 1,000 feet



Summary of Cumulative TAC Risks at the Off-Site Project MEIs

Table 16 reports both the project and cumulative community risk impacts at the unmitigated and mitigated project MEIs. The project would have an exceedance with respect to community risk caused by project construction and operation activities, since the maximum unmitigated and mitigated cancer risk and $PM_{2.5}$ concentration exceeds the BAAQMD single-source thresholds. While the combined unmitigated increased cancer risk and annual $PM_{2.5}$ concentration values at the project MEIs would exceed the BAAQMD cumulative source thresholds, the combined mitigated increased cancer risk and annual $PM_{2.5}$ concentration values would not exceed the cumulative source thresholds. The unmitigated and mitigated HI values do not exceed the single or cumulative thresholds. The project would not contribute to a cumulative increase in TAC emissions within the local area.

Table 16. Project and Cumulative Risk Impacts at the Location of the Off-Site MEI – District Utilities

Source	Maximum Cancer Risk (per million)[1]	$PM_{2.5}$ concentration ($\mu g/m^3$)[2]	Hazard Index [2]
Project			
Unmitigated	**116.67**	**2.38**	0.09
Mitigated	**17.58**	**0.44**	0.01
Cumulative Traffic Sources	1.05	0.07	<0.01
Cumulative Stationary Sources	4.99	0.01	0.01
CUMULATIVE TOTAL			
Unmitigated	**122.71**	**2.46**	<0.11
Mitigated	23.62	0.52	<0.03
BAAQMD Cumulative-Source Threshold	***100***	***0.8***	***10.0***
Exceed Threshold?			
Unmitigated	***Yes***	***Yes***	*No*
Mitigated	*No*	*No*	*No*

[1] Maximum assuming third-trimester fetus, infant, child exposure for construction and child/adult exposure during operation for 30-year exposure.
[2] Maximum annual concentration for any year.

Non-CEQA Health Risk Impacts

A health risk assessment was completed to analyze the impact existing and proposed Project TAC sources would have on the new proposed sensitive receptors (i.e., residents) that that project would introduce. Per *CBIA v. BAAQMD*, lead agencies are not required to analyze the impacts of existing conditions on a project's future residents. The City requires health risk assessments for new residential developments near sources of air pollution. Where risks are above thresholds, the City encourages the use of proper actions to reduce exposures. General Plan policies related to the exposure of new sensitive receptors to existing TAC sources are as follows:

INC 20.6: Air quality standards. Protect the public and construction workers from construction exhaust and particulate emissions.

INC 20.7: Protect sensitive receptors. Protect the public from substantial pollutant concentrations.

The same TAC sources identified to describe project impacts were used in this on-site health risk assessment. This included emissions from the proposed Project that include phased construction, build-out traffic (beginning in 2026), standby generator operation, charbroilers, and cooling towers. Figure 8 shows the on-site residential sensitive receptors that would be introduced by the project and the project TAC sources. In addition, the same existing nearby TAC sources identified above were used in this on-site health risk assessment. Figure 9 shows the on-site residential sensitive receptors and nearby existing TAC sources. All results are listed in Table 17. *Attachment 5* includes the dispersion modeling and risk calculations for TAC source impacts upon the proposed on-site sensitive receptors.

Cumulative Community Health Risk at Project Site

Community risk impacts from the existing and project TAC sources upon the project site are reported in Table 17. The risks from the singular TAC sources are compared against the BAAQMD single-source threshold. The risks from all the sources are then combined and compared against the BAAQMD cumulative-source threshold. As shown, the project sources' unmitigated cancer risk and $PM_{2.5}$ concentration impacts exceed the single-source thresholds, but no longer exceed once mitigated. None of the sources exceed the cumulative-source thresholds.

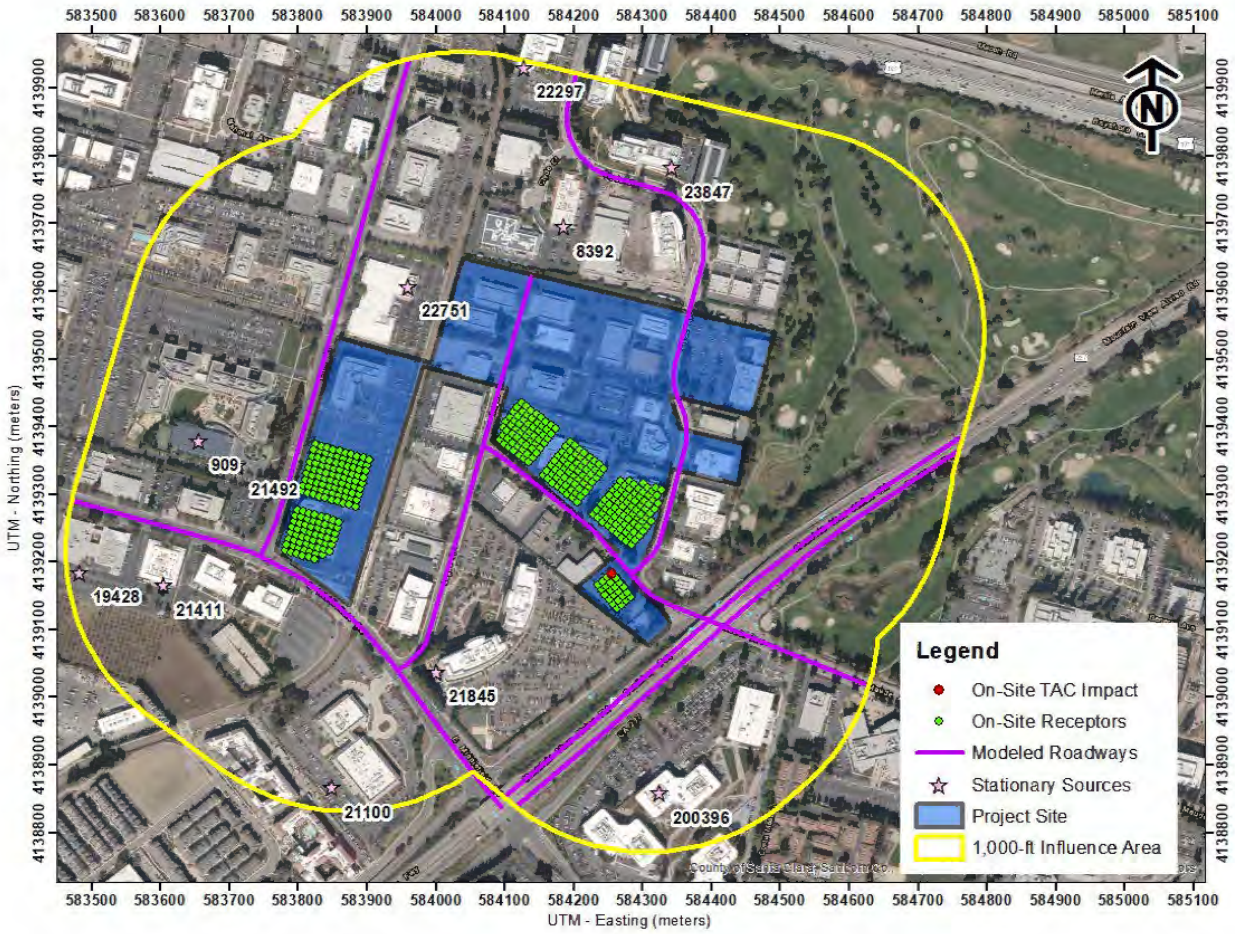
Table 17. Impacts from Cumulative TAC Sources at the Project Site

Source	Maximum Cancer Risk (per million)[1]	$PM_{2.5}$ concentration ($\mu g/m^3$)[2]	Hazard Index [2]
Project			
Unmitigated	**46.80**	**0.67**	0.10
Mitigated	8.79	0.14	0.01
Cumulative Traffic	1.45	0.04	<0.01
Cumulative Stationary	6.38	0.01	0.01
BAAQMD Single-Source Threshold	***10***	***0.3***	***1.0***
Exceed Threshold?			
Unmitigated	***Yes***	***Yes***	*No*
Mitigated	*No*	*No*	*No*
CUMULATIVE TOTAL			
Unmitigated	54.63	<0.72	<0.12
Mitigated	16.62	<0.19	<0.03
BAAQMD Cumulative-Source Threshold	***100***	***0.8***	***10.0***
Exceed Threshold?			
Unmitigated	*No*	*No*	*No*
Mitigated	*No*	*No*	*No*

[1] Maximum assuming third-trimester fetus, infant, child exposure for construction and child/adult exposure during operation for 30-year exposure.
[2] Maximum annual concentration for any year.

Figure 8. Locations of Modeled Project Stationary and Roadway Sources, On-Site Sensitive Receptors, and On-Site Construction and Project Maximum TAC Impacts

Figure 9. Project Site, On-Site Residential Receptors, Roadway Segments Evaluated, and Locations of Maximum TAC Impacts



Impact 4: Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

Future construction activities in the Project area could result in odorous emissions from diesel exhaust associated with construction equipment. Because of the temporary nature of these emissions and the highly diffusive properties of diesel exhaust, exposure of sensitive receptors to these emissions would be limited. Therefore, odors from construction that could cause complaints from the general public and affect a substantial number of people are not expected.

The project proposes an alternative that would include a Central Utilities Plant (CUP), which would provide wastewater treatment, recycled water production, heating, and cooling for the majority of the buildings within the MPMP.[43] The CUP would be located either at ground level or the basement of Building O1. Under this alternative, the CUP would include a wastewater treatment plant that would have capacity to treat an average weather flow of approximately 250,000 gallons of wastewater per day. The proposed wastewater treatment plant would only serve wastewater generated by the connected buildings in the MPMP. When the plant reaches full capacity or goes offline, wastewater would be discharged to the City's municipal wastewater conveyance system and treated at the Palo Alto Regional Water Quality Control Plant (RWQCP).

BAAQMD has identified a variety of land uses and types of operations that produce emissions that may lead to odors in their CEQA Air Quality Guidelines. The identified land uses include wastewater treatment plants. Additionally, according to the BAAQMD CEQA Guidelines, an odor source with five or more confirmed complaints per year averaged over three years is considered to cause frequent odor complaints, and therefore, have a significant impact.

The wastewater treatment facility would generate odors from many phases of the treatment process. The anaerobic biological activity in the treatment system of the wastewater and solids produces most of the hydrogen sulfide and ammonia type odors, which are considered objectionable. Odors can be properly controlled through modern design, appropriate chemical treatment, proper ventilation, and facility maintenance. The wastewater treatment facility would be designed to be a completely enclosed system within the CUP. Likely a new pre-manufactured wastewater equipment would be equipped with modern technology that should minimize the release of any odors and the proposed treatment plant does not include any lagoons, exposed treatment water, or biosolid piles that would emit odors. The wastewater treatment odors would also be regulated by BAAQMD in the event of odor complaints.

The most odorous processes resulting in the production of hydrogen sulfide and ammonia would be enclosed and specifically controlled. The project would also include regular monitoring of complaints and reporting on the success of odor controls to regulatory agencies. Specific solutions may include:

- Active ventilation (foul air blowers) to odor control units (e.g., carbon absorption, biofiltration, or ammonia scrubbers);
- House odorous processes in a ventilated enclosure;

[43] Building R4 AFF and R6 AFF would be served by municipal utilities under the District Utilities System option.

- Screenings and grit washed, dewatered, and compacted before being stored in enclosed, odor-proof refuse containers;
- Haul any stored residuals off-site at regular intervals; and
- Ferrous chloride injection for hydrogen sulfide removal.

Also, the facility could divert wastewater to the regional plant if there are upset conditions.

Residences are located within buildings that are within about 100 feet of the project. Residences who are subjected to objectionable odors are most likely to complain. The BAAQMD CEQA Air Quality Guidelines include screening distances for various odor sources. These screening distances identify 2 miles for wastewater treatment facilities. However, these are applied to traditional open municipal facilities that have exposed headworks, open-air ponds, and treat large volumes of wastewater. The screening distances would not apply to this wastewater treatment plant that is small, modern, and has enclosed systems where exhaust air is treated. Nonetheless, odor issues could occur if there are upset conditions or improper handling of odor-producing solids or wastewater, improper operations, or poor maintenance. Adequately controlling odors requires all components of the facility to work properly.

Given the close proximity of residences, the project has the potential to cause odors and result in odor complaints. This would be considered a significant impact.

Mitigation Measure AQ-5: Develop and Implement Odor Control Plan

The Project shall develop an odor control plan that addresses plant design issues to control odors, operating and maintenance procedures to prevent odors, and an action plan to respond to upset conditions that could cause odors and measures to respond to odor complaints. The odor control plan shall describe the design elements and best management practices built into the facility that include:

- Ventilation of the system using carbon absorption, biofiltration, ammonia scrubbers, or other effective means to treat exhausted air from the enclosed facility;

- Odor proofing of refuse containers used to store and transport grit and screenings or biosolids; and

- Injection of chemicals to control hydrogen sulfide.

The plan shall describe procedures to address upset conditions caused by equipment failures, power outages, flow control, or treatment issues.

A publicly visible sign with the telephone number and person to contact regarding odor complaints shall be posted. This person shall respond and take corrective action within 48 hours. The Air District's phone number shall also be visible to ensure compliance with applicable regulations. A log of odor complaints and procedures implemented to respond to complaints shall be maintained and provided to the City upon request.

Effectiveness of Mitigation Measure AQ-5

The purpose for Mitigation Measure AQ-5 is to ensure proper design and operation of the wastewater treatment facility to prevent objectionable odors. In addition, the facility would be subject to BAAQMD rules and regulations, specifically, Rule 1-301 (Public Nuisance), Rule 7 (Odorous Substances), Rule 8-8 (Wastewater Collection and Separation Systems), and Rule 9-2 (Inorganic Gaseous Pollutants: Hydrogen Sulfide). BAAQMD Regulation 7 prohibits the discharge of odorous substances to ambient air that result in frequent odor complaints. Implementation of Mitigation Measure AQ-5 and adherence with BAAQMD rules and regulations would reduce the impact to less-than-significant.

Supporting Documentation

Attachment 1 is the methodology used to compute community risk impacts, including the methods to compute increased cancer risk from exposure to project emissions.

Attachment 2 includes the CalEEMod output for project construction and operational criteria air pollutant. Also included are any modeling assumptions.

Attachment 3 includes the EMFAC2021 emissions modeling. The input files for these calculations are voluminous and are available upon request in digital format.

Attachment 4 is the health risk assessment. This includes the summary of the dispersion modeling and the cancer risk calculations for construction and operation. The AERMOD dispersion modeling files for this assessment, which are quite voluminous, are available upon request and would be provided in digital format.

Attachment 5 includes the screening community risk calculations from sources affecting the MEI and project site. Due to the large size of the BAAQMD health risk calculators, these files were not included but are available upon request and would be provided in digital format.

Attachment 1: Health Risk Calculation Methodology

Health Risk Calculation Methodology

A health risk assessment (HRA) for exposure to Toxic Air Contaminates (TACs) requires the application of a risk characterization model to the results from the air dispersion model to estimate potential health risk at each sensitive receptor location. The State of California Office of Environmental Health Hazard Assessment (OEHHA) and California Air Resources Board (CARB) develop recommended methods for conducting health risk assessments. The most recent OEHHA risk assessment guidelines were published in February of 2015.[1] These guidelines incorporate substantial changes designed to provide for enhanced protection of children, as required by State law, compared to previous published risk assessment guidelines. CARB has provided additional guidance on implementing OEHHA's recommended methods.[2] This HRA used the 2015 OEHHA risk assessment guidelines and CARB guidance. The BAAQMD has adopted recommended procedures for applying the newest OEHHA guidelines as part of Regulation 2, Rule 5: New Source Review of Toxic Air Contaminants.[3] Exposure parameters from the OEHHA guidelines and the recent BAAQMD HRA Guidelines were used in this evaluation.

Cancer Risk

Potential increased cancer risk from inhalation of TACs is calculated based on the TAC concentration over the period of exposure, inhalation dose, the TAC cancer potency factor, and an age sensitivity factor to reflect the greater sensitivity of infants and children to cancer causing TACs. The inhalation dose depends on a person's breathing rate, exposure time and frequency and duration of exposure. These parameters vary depending on the age, or age range, of the persons being exposed and whether the exposure is considered to occur at a residential location or other sensitive receptor location.

The current OEHHA guidance recommends that cancer risk be calculated by age groups to account for different breathing rates and sensitivity to TACs. Specifically, they recommend evaluating risks for the third trimester of pregnancy to age zero, ages zero to less than two (infant exposure), ages two to less than 16 (child exposure), and ages 16 to 70 (adult exposure). Age sensitivity factors (ASFs) associated with the different types of exposure are an ASF of 10 for the third trimester and infant exposures, an ASF of 3 for a child exposure, and an ASF of 1 for an adult exposure. Also associated with each exposure type are different breathing rates, expressed as liters per kilogram of body weight per day (L/kg-day) or liters per kilogram of body weight per 8-hour period for the case of worker or school child exposures. As recommended by the BAAQMD for residential exposures, 95th percentile breathing rates are used for the third trimester and infant exposures, and 80th percentile breathing rates for child and adult exposures. For children at schools and daycare facilities, BAAQMD recommends using the 95th percentile 8-hour breathing rates.

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[1] OEHHA, 2015. *Air Toxics Hot Spots Program Risk Assessment Guidelines, The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments*. Office of Environmental Health Hazard Assessment. February.

[2] CARB, 2015. *Risk Management Guidance for Stationary Sources of Air Toxics*. July 23.

[3] BAAQMD, 2016. *BAAQMD Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines*. December 2016.

Additionally, CARB and the BAAQMD recommend the use of a residential exposure duration of 30 years for sources with long-term emissions (e.g., roadways). For workers, assumed to be adults, a 25-year exposure period is recommended by the BAAQMD. For school children a 9-year exposure period is recommended by the BAAQMD.

Under previous OEHHA and BAAQMD HRA guidance, residential receptors are assumed to be at their home 24 hours a day, or 100 percent of the time. In the 2015 Risk Assessment Guidance, OEHHA includes adjustments to exposure duration to account for the fraction of time at home (FAH), which can be less than 100 percent of the time, based on updated population and activity statistics. The FAH factors are age-specific and are: 0.85 for third trimester of pregnancy to less than 2 years old, 0.72 for ages 2 to less than 16 years, and 0.73 for ages 16 to 70 years. Use of the FAH factors is allowed by the BAAQMD if there are no schools in the project vicinity have a cancer risk of one in a million or greater assuming 100 percent exposure (FAH = 1.0).

Functionally, cancer risk is calculated using the following parameters and formulas:

Cancer Risk (per million) = $CPF \times Inhalation\ Dose \times ASF \times ED/AT \times FAH \times 10^{6}$

Where:

CPF = Cancer potency factor $(mg/kg\text{-}day)^{-1}$
ASF = Age sensitivity factor for specified age group
ED = Exposure duration (years)
AT = Averaging time for lifetime cancer risk (years)
FAH = Fraction of time spent at home (unitless)

Inhalation Dose = $C_{air} \times DBR^{*} \times A \times (EF/365) \times 10^{-6}$

Where:

C_{air} = concentration in air ($\mu g/m^3$)
DBR = daily breathing rate (L/kg body weight-day)
8HrBR = 8-hour breathing rate (L/kg body weight-8 hours)
A = Inhalation absorption factor
EF = Exposure frequency (days/year)
10^{-6} = Conversion factor

* An 8-hour breathing rate (8HrBR) is used for worker and school child exposures.

The health risk parameters used in this evaluation are summarized as follows:

Parameter	*Exposure Type* →	Infant		Child	Adult
	Age Range →	3rd Trimester	0<2	2 < 16	16 - 30
DPM Cancer Potency Factor (mg/kg-day)$^{-1}$		1.10E+00	1.10E+00	1.10E+00	1.10E+00
Daily Breathing Rate (L/kg-day) 80th Percentile Rate		273	758	572	261
Daily Breathing Rate (L/kg-day) 95th Percentile Rate		361	1,090	745	335
8-hour Breathing Rate (L/kg-8 hours) 95th Percentile Rate		-	1,200	520	240
Inhalation Absorption Factor		1	1	1	1
Averaging Time (years)		70	70	70	70
Exposure Duration (years)		0.25	2	14	14*
Exposure Frequency (days/year)		350	350	350	350*
Age Sensitivity Factor		10	10	3	1
Fraction of Time at Home (FAH)		0.85-1.0	0.85-1.0	0.72-1.0	0.73*

* For worker exposures (adult) the exposure duration and frequency are 25 years 250 days/year and FAH is not applicable.

Non-Cancer Hazards

Non-cancer health risk is usually determined by comparing the predicted level of exposure to a chemical to the level of exposure that is not expected to cause any adverse effects (reference exposure level), even to the most susceptible people. Potential non-cancer health hazards from TAC exposure are expressed in terms of a hazard index (HI), which is the ratio of the TAC concentration to a reference exposure level (REL). OEHHA has defined acceptable concentration levels for contaminants that pose non-cancer health hazards. TAC concentrations below the REL are not expected to cause adverse health impacts, even for sensitive individuals. The total HI is calculated as the sum of the HIs for each TAC evaluated and the total HI is compared to the BAAQMD significance thresholds to determine whether a significant non-cancer health impact from a project would occur.

Typically, for residential projects located near roadways with substantial TAC emissions, the primary TAC of concern with non-cancer health effects is diesel particulate matter (DPM). For DPM, the chronic inhalation REL is 5 micrograms per cubic meter ($\mu g/m^3$).

Annual $PM_{2.5}$ Concentrations

While not a TAC, fine particulate matter ($PM_{2.5}$) has been identified by the BAAQMD as a pollutant with potential non-cancer health effects that should be included when evaluating potential community health impacts under the California Environmental Quality Act (CEQA). The thresholds of significance for $PM_{2.5}$ (project level and cumulative) are in terms of an increase in the annual average concentration. When considering $PM_{2.5}$ impacts, the contribution from all sources of $PM_{2.5}$ emissions should be included. For projects with potential impacts from nearby local roadways, the $PM_{2.5}$ impacts should include those from vehicle exhaust emissions, $PM_{2.5}$ generated from vehicle tire and brake wear, and fugitive emissions from re-suspended dust on the roads.

Air Quality/Noise Construction Information Data Request

Project Name: Middlefield Park Phase 1 (R1 + R2)

Complete ALL Portions in Yellow

See Equipment Type TAB for type, horsepower and load factor

Project Size

750 Dwelling Units

6.2 total project acres disturbed

683,000 s.f. residential

22,508 s.f. retail

0 s.f. office/commercial

9,434 s.f. other, specify: Community Use

343,000 s.f. parking garage — 838 spaces

0 s.f. parking lot — 0 spaces

Construction Hours 7 am to 6 pm

Pile Driving? NO

Project include OPERATIONAL GENERATOR OR FIRE PUMP on-site? No

IF YES (if BOTH separate values) -->

Kilowatts/Horsepower: _____

Fuel Type: _____

Location in project (Plans Desired if Available):

DO NOT MULTIPLY EQUIPMENT HOURS/DAY BY THE QUANTITY OF EQUIPMENT

Quantity	Description	HP	Load Factor	Hours/day	Total Work Days	Avg. Hours per day	HP Annual Hours	Comments
	Demolition	**Start Date:**	**11/1/2022**	**Total phase:**	**56**			**Overall Import/Export Volumes**
		End Date:	**1/5/2023**					
2	Aerial Lifts	0	0.31	6.5	56	6.5	0	**Demolition Volume**
2	Air Compressors	0	0.48	4.2	56	4.2	0	149,337 sf demo + 5,848 tons of asphalt debris
2	Concrete/Industrial Saws	0	0.73	2.7	56	2.7	0	500 East Middlefield + 440 Logue
4	Excavators (w/hoe ram)	158	0.38	7.9	56	7.9	106247	
2	Forklifts	89	0.2	10.0	56	10.0	19936	
2	Generator Sets	84	0.74	5.4	56	5.4	37632	
2	Rubber Tired Dozers	247	0.4	10.0	56	10.0	110656	
2	Sweepers/Scrubbers	64	0.46	6.5	56	6.5	21504	
2	Tractors/Loaders/Backhoes	97	0.37	8.1	56	8.1	32592	
	Site Preparation	**Start Date:**	**1/5/2023**	**Total phase:**	**16**			
		End Date:	**1/24/2023**					
2	Sweepers/Scrubbers	64	0.46	4.3	16	4.3	4096	
2	Water Trucks	0	0	2.0	16	2.0	0	
4	Tractors/Loaders/Backhoes	97	0.37	8.1	16	8.1	18624	
	Grading / Excavation	**Start Date:**	**1/24/2023**	**Total phase:**	**56**			
		End Date:	**3/31/2023**					**Soil Hauling Volume**
2	Air Compressors	0	0.48	4.2	56	4.2	0	Export volume = **201,721** cubic yards
3	Bore/Drill Rigs Dewatering	221	0.5	8.0	14	2.0	37128	Import volume = **0** cubic yards
4	Excavators	158	0.38	7.9	56	7.9	106247	
2	Generator Sets	84	0.74	8.1	56	8.1	56448	
3	Bore/Drill Rig Shoring	221	0.5	8.0	28	4.0	74256	
5	Geothermal Bore/Drill Rig	221	0.5	9.6	42	7.2	222768	Export volume = 1,713 cubic yards
3	Plate Compactors	8	0.43	7.8	14	1.9	1120	
2	Dewatering Pump	84	0.74	24.0	56	24.0	167086	
6	Rubber Tired Dozers	247	0.4	10.0	56	10.0	331968	
2	Skid Steer Loaders	65	0.37	10.8	14	2.7	7280	
4	Sweepers/Scrubbers	64	0.46	8.7	56	8.7	57373	
4	Tractors/Loaders/Backhoes	97	0.37	10.8	56	10.8	86825	
	Trenching/Foundation	**Start Date:**	**3/31/2023**	**Total phase:**	**161**			
		End Date:	**10/5/2023**					
3	Tractors/Loaders/Backhoes	97	0.37	9.0	24	1.3	23257	
2	Cranes	0	0.29	10.3	161	10.3	0	
5	Geothermal Bore/Drill Rig	221	0.5	9.6	33	2.0	175032	
4	Concrete Pumps	84	0.74	5.4	161	5.4	216384	
4	Aerial Lifts	0	0.31	9.7	161	9.7	0	
2	Generator Sets	84	0.74	5.4	161	5.4	108192	
4	Forklifts	89	0.2	10.0	161	10.0	114632	
	Building - Exterior	**Start Date:**	**10/5/2023**	**Total phase:**	**395**			
		End Date:	**1/8/2025**					
2	Cranes	0	0.29	10.3	395	10.3	0	
3	Forklifts	89	0.2	10.0	395	10.0	210930	
2	Generator Sets	84	0.74	5.4	395	5.4	265440	
2	Tractors/Loaders/Backhoes	97	0.37	8.1	40	0.8	23280	
4	Aerial Lifts	0	0.31	9.7	395	9.7	0	
2	Welders	0	0.45	2.2	395	2.2	0	
2	Plate Compactors	8	0.43	9.3	40	0.9	2560	
2	Cement and Mortar Mixers	0	0.56	7.1	395	7.1	0	
	Building - Interior/Architectural Coating	**Start Date:**	**3/6/2025**	**Total phase:**	**48**			
		End Date:	**5/1/2025**					
2	Air Compressors	0	0.48	8.3	48	8.3	0	
	Paving	**Start Date:**	**1/8/2025**	**Total phase:**	**48**			
		Start Date:	**3/6/2025**					
3	Small Roller Compacter	80	0.38	8.8	48	8.8	38523	
2	Tractors/Loaders/Backhoes	97	0.37	5.4	48	5.4	18624	
4	Concrete Saw	0	0.73	8.2	2	0.3	0	
							2696639	**-2.2%**

Equipment types listed in "Equipment Types" worksheet tab.

Equipment listed in this sheet is to provide an example of inputs

Complete one sheet for each project component

It is assumed that water trucks would be used during grading

Add or subtract phases and equipment, as appropriate

Modify horsepower or load factor, as appropriate

Air Quality/Noise Construction Information Data Request

Project Name: Middlefield Park Phase 1 Affordable (R6)

Complete ALL Portions in Yellow

See Equipment Type TAB for type, horsepower and load factor

Project Size

170 Dwelling Units — 1.64 total project acres disturbed

155,000 s.f. residential

0 s.f. retail

0 s.f. office/commercial

0 s.f. other, specify: Community Use

34,000 s.f. parking garage — 170 spaces

0 s.f. parking lot — 0 spaces

Construction Hours 7 am to 6 pm

Pile Driving? NO

Project include OPERATIONAL GENERATOR OR FIRE PUMP on-site? No

IF YES (If BOTH separate values) -->

Kilowatts/Horsepower: _____

Fuel Type: _____

Location in project (Plans Desired if Available):

DO NOT MULTIPLY EQUIPMENT HOURS/DAY BY THE QUANTITY OF EQUIPMENT

Quantity	Description	HP	Load Factor	Hours/day	Total Work Days	Avg. Hours per day	HP Annual Hours	Comments	
	Demolition	**Start Date:**	**1/1/2023**	**Total phase:**	**49**			**Overall Import/Export Volumes**	*Hours at LF = 1*
		End Date:	**2/27/2023**						
1	Aerial Lifts	0	0.31	6.5	49	6.5	0	**Demolition Volume**	2
1	Air Compressors	0	0.48	4.2	49	4.2	0	25,570 sf demo + 500 tons of asphalt debris	2
1	Concrete/Industrial Saws	0	0.73	2.7	49	2.7	0	885-891 Maude	2
4	Excavators (w/hoe ram)	158	0.38	7.9	49	7.9	92966		6
1	Forklifts	89	0.2	10.0	49	10.0	8722		2
1	Generator Sets	84	0.74	5.4	49	5.4	16464		4
1	Rubber Tired Dozers	247	0.4	10.0	49	10.0	48412		4
1	Sweepers/Scrubbers	64	0.46	6.5	49	6.5	9408		3
1	Tractors/Loaders/Backhoes	97	0.37	8.1	49	8.1	14259		3
	Site Preparation	**Start Date:**	**2/27/2023**	**Total phase:**	**14**				Total phase:
		End Date:	**3/15/2023**						
1	Sweepers/Scrubbers	64	0.46	4.3	14	4.3	1792		2
1	Water Trucks	0	0	2.0	14	2.0	0		2
2	Tractors/Loaders/Backhoes	97	0.37	8.1	14	8.1	8148		3
	Grading / Excavation	**Start Date:**	**3/15/2023**	**Total phase:**	**49**				Total phase:
		End Date:	**5/12/2023**					**Soil Hauling Volume**	
1	Air Compressors	0	0.48	4.2	49	4.2	0	Export volume = **23,536** cubic yards	2
2	Bore/Drill Rigs Dewatering	221	0.5	6.0	16	2.0	21216	Import volume = **0** cubic yards	6
2	Excavators	158	0.38	7.9	49	7.9	46483		6
1	Generator Sets	84	0.74	8.1	49	8.1	24696		6
2	Bore/Drill Rig Shoring	221	0.5	6.0	33	4.0	43758		6
2	Plate Compactors	8	0.43	5.8	16	1.9	638		5
1	Dewatering Pump	84	0.74	24.0	49	24.0	73100		24
3	Rubber Tired Dozers	247	0.4	10.0	49	10.0	145236		6
1	Skid Steer Loaders	65	0.37	10.8	16	3.5	4160		4
2	Sweepers/Scrubbers	64	0.46	8.7	49	8.7	25101		8
2	Tractors/Loaders/Backhoes	97	0.37	10.8	49	10.8	37986		8
	Trenching/Foundation	**Start Date:**	**5/12/2023**	**Total phase:**	**140**				Total phase:
		End Date:	**10/22/2023**						
2	Tractors/Loaders/Backhoes	97	0.37	6.8	21	1.0	10250		5
1	Cranes	0	0.29	10.3	140	10.3	0		3
2	Concrete Pumps	84	0.74	5.4	140	5.4	94080		4
2	Aerial Lifts	0	0.31	9.7	140	9.7	0		6
1	Generator Sets	84	0.74	5.4	140	5.4	47040		4
2	Forklifts	89	0.2	10.0	140	10.0	49840		4
	Building - Exterior	**Start Date:**	**10/22/2023**	**Total phase:**	**344**				Total phase:
		End Date:	**11/27/2024**						
1	Cranes	0	0.29	10.3	344	10.3	0		3
2	Forklifts	89	0.2	7.5	344	7.5	91848		3
1	Generator Sets	84	0.74	5.4	344	5.4	115584		4
1	Tractors/Loaders/Backhoes	97	0.37	8.1	34	0.8	9894		3
2	Aerial Lifts	0	0.31	9.7	344	9.7	0		6
1	Welders	0	0.45	2.2	344	2.2	0		1
1	Plate Compactors	8	0.43	9.3	34	0.9	1088		4
1	Cement and Mortar Mixers	0	0.56	7.1	344	7.1	0		4
	Building - Interior/Architectural Coating	**Start Date:**	**1/15/2025**	**Total phase:**	**42**				Total phase:
		End Date:	**3/5/2025**						
1	Air Compressors	0	0.48	8.3	42	8.3	0		4
	Paving	**Start Date:**	**11/27/2024**	**Total phase:**	**42**				Total phase:
		Start Date:	**1/15/2025**						
2	Small Roller Compacte	80	0.38	6.6	42	6.6	16854		5
1	Tractors/Loaders/Backhoes	97	0.37	5.4	42	5.4	8148		2
2	Concrete Saw	0	0.73	8.2	2	0.4	0		6
							1067171	**-2.4%**	

Equipment types listed in "Equipment Types" worksheet tab.

Equipment listed in this sheet is to provide an example of inputs

Complete one sheet for each project component

It is assumed that water trucks would be used during grading

Add or subtract phases and equipment, as appropriate

Modify horsepower or load factor, as appropriate

Air Quality/Noise Construction Information Data Request

Project Name: Middlefield Park Phase 1 Infrastructure (Horizontal Finished Work,

Complete ALL Portions in Yellow

See Equipment Type TAB for type, horsepower and load factor

Project Size

0 Dwelling Units

1 total project acres disturbed

0 s.f. residential

0 s.f. retail

0 s.f. office/commercial

0 s.f. other, specify: Community Use

0 s.f. parking garage 0 spaces

0 s.f. parking lot 0 spaces

Construction Hours 7 am to 6 pm

Pile Driving? NO

Project include OPERATIONAL GENERATOR OR FIRE PUMP on-site? No

IF YES (If BOTH separate values) -->

Kilowatts/Horsepower: _____

Fuel Type: _____

Location in project (Plans Desired if Available):

DO NOT MULTIPLY EQUIPMENT HOURS/DAY BY THE QUANTITY OF EQUIPMENT

Quantity	Description	HP	Load Factor	Hours/day	Total Work Days	Avg. Hours per day	HP Annual Hours	Comments	Hours at LF = 1
	Infrastructure	Start Date:	10/31/2024	Total phase:	136			Overall Import/Export Volumes	
		End Date:	4/20/2025						
1	Concrete/Industrial Saws	0	0.73	1.4	136	1.4	0	Demolition Volume	1
1	Cement and Mortar Mixers	0	0.56	10.7	136	10.7	0		6
1	Generator Sets	84	0.74	5.4	136	5.4	45696		4
2	Pavers	132	0.42	7.2	136	7.2	108574		6
2	Plate Compactors	8	0.43	5.8	136	5.8	5427		5
1	Rollers	80	0.38	10.5	136	10.5	43520		4
1	Striper Truck	0	0	2.0	8	0.1	0		2
1	Sweepers/Scrubbers	64	0.46	4.3	36	1.2	4608		2
1	Tractors/Loaders/Backhoes	97	0.37	5.4	68	2.7	13192		2
							221017	0.4%	

Equipment types listed in "Equipment Types" worksheet tab.

Equipment listed in this sheet is to provide an example of inputs

Complete one sheet for each project component

It is assumed that water trucks would be used during grading

Add or subtract phases and equipment, as appropriate

Modify horsepower or load factor, as appropriate

Air Quality/Noise Construction Information Data Request

Project Name: Middlefield Park Phase 2 (O1, O2)

Complete ALL Portions in Yellow

See Equipment Type TAB for type, horsepower and load factor

Project Size

0 Dwelling Units — 8.68 total project acres disturbed

0 s.f. residential

0 s.f. retail

631,939 s.f. office/commercial

0 s.f. other, specify:

218,576 s.f. parking garage — 700 spaces

0 s.f. parking lot — 0 spaces

Construction Hours 7 am to 6 pm

Pile Driving? NO

Project include OPERATIONAL GENERATOR OR FIRE PUMP on-site? No

IF YES (if BOTH separate values) -->

Kilowatts/Horsepower: _____

Fuel Type: _____

Location in project (Plans Desired if Available):

DO NOT MULTIPLY EQUIPMENT HOURS/DAY BY THE QUANTITY OF EQUIPMENT

Quantity	Description	HP	Load Factor	Hours/day	Total Work Days	Avg. Hours per day	HP Annual Hours	Comments	Hours at LF = 1
	Demolition	**Start Date:**	**11/1/2024**	**Total phase:**	**147**			**Overall Import/Export Volumes**	
		End Date:	**4/22/2025**						
1	Aerial Lifts	0	0.31	6.5	147	6.5	0	**Demolition Volume**	2
1	Air Compressors	0	0.48	4.2	147	4.2	0	264,881 sf demo + 2,831 tons of asphalt debris	2
3	Concrete/Industrial Saws	0	0.73	8.2	147	8.2	0	401 Ellis, 500-510-520 Logue, 441 Logue, 440-450 Clyde, 433 Clyde	6
3	Excavators (w/hoe ram)	158	0.38	10.5	147	10.5	278015		6
1	Forklifts	89	0.2	10.0	147	10.0	26166		2
1	Generator Sets	84	0.74	5.4	147	5.4	49392		4
1	Rubber Tired Dozers	247	0.4	10.0	147	10.0	145236		4
1	Sweepers/Scrubbers	64	0.46	6.5	147	6.5	28224		3
1	Tractors/Loaders/Backhoes	97	0.37	8.1	147	8.1	42777		3
	Site Preparation	**Start Date:**	**2/15/2025**	**Total phase:**	**38**				Total phase:
		End Date:	**4/2/2025**						
1	Sweepers/Scrubbers	64	0.46	4.3	38	4.3	4864		2
1	Water Trucks	0	0	2.0	38	2.0	0		2
2	Tractors/Loaders/Backhoes	97	0.37	8.1	38	8.1	22116		3
	Grading / Excavation	**Start Date:**	**3/17/2025**	**Total phase:**	**103**				Total phase:
		End Date:	**7/17/2025**					**Soil Hauling Volume**	
1	Air Compressors	0	0.48	4.2	103	4.2	0	Export volume = 230,046 cubic yards	2
2	Bore/Drill Rigs Dewatering	221	0.5	6.0	34	2.0	45084	Import volume = 0 cubic yards	6
5	Excavators	158	0.38	9.5	103	9.5	293127	Export volume = 34,000 cubic yards	6
1	Generator Sets	84	0.74	8.1	103	8.1	51912		6
2	Bore/Drill Rig Shoring	221	0.5	6.0	69	4.0	91494		6
4	Geothermal Bore/Drill Rig	221	0.5	9.0	75	6.6	298350	Export volume = 1,713 cubic yards	6
2	Plate Compactors	8	0.43	5.8	34	1.9	1357		5
1	Dewatering Pump	84	0.74	24.0	103	24.0	153660		24
5	Rubber Tired Dozers	247	0.4	9.0	103	9.0	457938		6
1	Skid Steer Loaders	65	0.37	10.8	34	3.6	8840		4
2	Sweepers/Scrubbers	64	0.46	8.7	103	8.7	52762		8
4	Tractors/Loaders/Backhoes	97	0.37	10.8	103	10.8	159696		8
	Trenching/Foundation	**Start Date:**	**7/2/2025**	**Total phase:**	**330**				Total phase:
		End Date:	**7/22/2026**						
2	Tractors/Loaders/Backhoes	97	0.37	6.8	51	1.0	24710		5
1	Cranes	0	0.29	10.3	330	10.3	0		3
4	Geothermal Bore/Drill Rig	221	0.5	9.0	60	1.6	238680		6
4	Concrete Pumps	84	0.74	5.4	330	5.4	443520		4
4	Aerial Lifts	0	0.31	9.7	261	7.7	0		6
1	Generator Sets	84	0.74	5.4	330	5.4	110880		4
4	Forklifts	89	0.2	10.0	330	10.0	234960		4
	Building - Exterior	**Start Date:**	**5/2/2026**	**Total phase:**	**1000**				Total phase:
		End Date:	**7/13/2029**						
1	Cranes	0	0.29	10.3	1000	10.3	0		3
2	Forklifts	89	0.2	7.5	1000	7.5	267000		3
1	Generator Sets	84	0.74	5.4	1000	5.4	336000		4
1	Tractors/Loaders/Backhoes	97	0.37	8.1	100	0.8	29100		3
2	Aerial Lifts	0	0.31	9.7	1000	9.7	0		6
1	Welders	0	0.45	2.2	1000	2.2	0		1
1	Plate Compactors	8	0.43	9.3	100	0.9	3200		4
1	Cement and Mortar Mixers	0	0.56	7.1	1000	7.1	0		4
	Building - Interior/Architectural Coating	**Start Date:**	**8/15/2028**	**Total phase:**	**128**				Total phase:
		End Date:	**1/11/2029**						
1	Air Compressors	0	0.48	8.3	128	8.3	0		4
	Paving	**Start Date:**	**5/16/2028**	**Total phase:**	**128**				Total phase:
		Start Date:	**10/11/2028**						
2	Small Roller Compacte	80	0.38	6.6	128	6.6	51364		5
1	Tractors/Loaders/Backhoes	97	0.37	5.4	128	5.4	24832		2
1	Pavers	0	0.42	4.8	50	1.9	0		2
1	Rollers	80	0.38	5.3	50	2.1	8000		2
2	Concrete Saw	0	0.73	8.2	4	0.3	0		6
							3983256	**-1.4%**	

Equipment types listed in "Equipment Types" worksheet tab.

Equipment listed in this sheet is to provide an example of inputs

Complete one sheet for each project component

It is assumed that water trucks would be used during grading

Add or subtract phases and equipment, as appropriate

Modify horsepower or load factor, as appropriate

Air Quality/Noise Construction Information Data Request

Project Name: Middlefield Park Phase 2 Infrastructure (Horizontal Finished Work,

Complete ALL Portions in Yellow

See Equipment Type TAB for type, horsepower and load factor

Project Size

0 Dwelling Units

1 total project acres disturbed

0 s.f. residential

0 s.f. retail

0 s.f. office/commercial

0 s.f. other, specify: Community Use

0 s.f. parking garage 0 spaces

0 s.f. parking lot 0 spaces

Construction Hours 7 am to 6 pm

Pile Driving? NO

Project include OPERATIONAL GENERATOR OR FIRE PUMP on-site? No

IF YES (If BOTH separate values) -->

Kilowatts/Horsepower: _____

Fuel Type: _____

Location in project (Plans Desired if Available):

DO NOT MULTIPLY EQUIPMENT HOURS/DAY BY THE QUANTITY OF EQUIPMENT

Quantity	Description	HP	Load Factor	Hours/day	Total Work Days	Avg. Hours per day	HP Annual Hours	Comments	Hours at LF = 1
	Infrastructure	Start Date:	11/1/2026	Total phase:	136			Overall Import/Export Volumes	
		End Date:	4/21/2027						
1	Air Compressors	0	0.48	4.2	80	2.5	0	Demolition Volume	2
1	Concrete/Industrial Saws	0	0.73	1.4	136	1.4	0		1
1	Cement and Mortar Mixers	0	0.56	10.7	136	10.7	0		6
1	Dewatering Pump	84	0.74	24.0	80	14.1	119347		24
1	Generator Sets	84	0.74	5.4	136	5.4	45696		4
2	Pavers	132	0.42	7.1	136	7.1	107066		6
2	Plate Compactors	8	0.43	5.8	136	5.8	5427		5
1	Rollers	80	0.38	10.5	136	10.5	43520		4
1	Striper Truck	0	0	2.0	8	0.1	0		2
1	Sweepers/Scrubbers	64	0.46	4.3	36	1.2	4608		2
1	Tractors/Loaders/Backhoes	97	0.37	5.4	68	2.7	13192		2
1	Welders	0	0.45	4.4	80	2.6	0		2
							338856	-12.6%	

Equipment types listed in "Equipment Types" worksheet tab.

Equipment listed in this sheet is to provide an example of input:

It is assumed that water trucks would be used during grading

Add or subtract phases and equipment, as appropriate

Modify horsepower or load factor, as appropriate

Complete one sheet for each project component

Air Quality/Noise Construction Information Data Request

Project Name: Middlefield Park Phase 3 (R3, R4b, R5)

See Equipment Type TAB for type, horsepower and load factor

Complete ALL Portions in Yellow

Project Size	770 Dwelling Units	9.54 total project acres disturbed
	698,000 s.f. residential	
	7,492 s.f. retail	
	0 s.f. office/commercial	
	6,566 s.f. other, specify:	Community Use
	237,000 s.f. parking garage	799 spaces
	0 s.f. parking lot	0 spaces
Construction Hours	7 am to	6 pm

Pile Driving? NO

Project include OPERATIONAL GENERATOR OR FIRE PUMP on-site? No

IF YES (if BOTH separate values) -->

Kilowatts/Horsepower: _____

Fuel Type: _____

Location in project (Plans Desired if Available):

DO NOT MULTIPLY EQUIPMENT HOURS/DAY BY THE QUANTITY OF EQUIPMENT

Quantity	Description	HP	Load Factor	Hours/day	Total Work Days	Avg. Hours per day	HP Annual Hours	Comments	Hours at LF = 1
	Demolition	**Start Date:**	**1/1/2026**	**Total phase:**	**100**			**Overall Import/Export Volumes**	
		End Date:	**4/30/2026**						
1	Aerial Lifts	0	0.31	6.5	100	6.5	0	**Demolition Volume**	2
1	Air Compressors	0	0.48	4.2	100	4.2	0	58,692 sf demo + 8,033 tons of asphalt debris	2
1	Concrete/Industrial Saws	0	0.73	2.7	100	2.7	0	800 Maude, 880 Maude, 420 Clyde	2
4	Excavators (w/hoe ram)	158	0.38	7.9	100	7.9	189726		6
1	Forklifts	89	0.2	10.0	100	10.0	17800		2
1	Generator Sets	84	0.74	5.4	100	5.4	33600		4
1	Rubber Tired Dozers	247	0.4	10.0	100	10.0	98800		4
1	Sweepers/Scrubbers	64	0.46	6.5	100	6.5	19200		3
1	Tractors/Loaders/Backhoes	97	0.37	8.1	100	8.1	29100		3
	Site Preparation	**Start Date:**	**3/1/2026**	**Total phase:**	**41**				Total phase:
		End Date:	**4/19/2026**						
1	Sweepers/Scrubbers	64	0.46	4.3	41	4.3	5248		2
1	Water Trucks	0	0	2.0	41	2.0	0		2
2	Tractors/Loaders/Backhoes	97	0.37	8.1	41	8.1	23862		3
	Grading / Excavation	**Start Date:**	**3/18/2026**	**Total phase:**	**144**				Total phase:
		End Date:	**10/3/2026**					**Soil Hauling Volume**	
1	Air Compressors	0	0.48	4.2	144	4.2	0	Export volume = 140,384 cubic yards	2
2	Bore/Drill Rigs Dewatering	221	0.5	6.0	48	2.0	63648	Import volume = 0 cubic yards	6
2	Excavators	158	0.38	7.9	144	7.9	136603		6
1	Generator Sets	84	0.74	8.1	144	8.1	72576		6
2	Bore/Drill Rig Shoring	221	0.5	6.0	96	4.0	127296		6
4	Geothermal Bore/Drill Rig	221	0.5	9.0	100	6.3	397800	Export volume = 1,713 cubic yards	6
2	Plate Compactors	8	0.43	5.8	48	1.9	1915		5
1	Dewatering Pump	84	0.74	24.0	144	24.0	214825		24
4	Rubber Tired Dozers	247	0.4	7.5	144	7.5	426816		6
1	Skid Steer Loaders	65	0.37	10.8	48	3.6	12480		4
2	Sweepers/Scrubbers	64	0.46	8.7	144	8.7	73765		8
2	Tractors/Loaders/Backhoes	97	0.37	10.8	144	10.8	111632		8
	Trenching/Foundation	**Start Date:**	**5/17/2026**	**Total phase:**	**412**				Total phase:
		End Date:	**9/12/2027**						
2	Tractors/Loaders/Backhoes	97	0.37	6.8	62	1.0	30040		5
1	Cranes	0	0.29	10.3	412	10.3	0		3
4	Geothermal Bore/Drill Rig	221	0.5	9.0	75	1.6	298350		6
2	Concrete Pumps	84	0.74	5.4	412	5.4	276864		4
2	Aerial Lifts	0	0.31	9.7	412	9.7	0		6
1	Generator Sets	84	0.74	5.4	412	5.4	138432		4
2	Forklifts	89	0.2	10.0	412	10.0	146672		4
	Building - Exterior	**Start Date:**	**11/3/2026**	**Total phase:**	**1008**				Total phase:
		End Date:	**2/1/2030**						
1	Cranes	0	0.29	10.3	1008	10.3	0		3
2	Forklifts	89	0.2	7.5	1008	7.5	269136		3
1	Generator Sets	84	0.74	5.4	1008	5.4	338688		4
1	Tractors/Loaders/Backhoes	97	0.37	8.1	101	0.8	29391		3
2	Aerial Lifts	0	0.31	9.7	1008	9.7	0		6
1	Welders	0	0.45	2.2	1008	2.2	0		1
1	Plate Compactors	8	0.43	9.3	101	0.9	3232		4
1	Cement and Mortar Mixers	0	0.56	7.1	1008	7.1	0		4
	Building - Interior/Architectural Coating	**Start Date:**	**2/13/2028**	**Total phase:**	**123**				Total phase:
		End Date:	**7/9/2028**						
1	Air Compressors	0	0.48	8.3	123	8.3	0		4
	Paving	**Start Date:**	**12/24/2027**	**Total phase:**	**123**				Total phase:
		Start Date:	**5/15/2028**						
2	Small Roller Compacte	80	0.38	6.6	123	6.6	49357		5
1	Tractors/Loaders/Backhoes	97	0.37	5.4	123	5.4	23862		2
2	Concrete Saw	0	0.73	8.2	6	0.4	0		6
							3660717	**-2.1%**	

Equipment types listed in "Equipment Types" worksheet tab.

Equipment listed in this sheet is to provide an example of inputs

It is assumed that water trucks would be used during grading

Add or subtract phases and equipment, as appropriate

Modify horsepower or load factor, as appropriate

Complete one sheet for each project component

Air Quality/Noise Construction Information Data Request

Project Name: Middlefield Park Phase 3 Affordable (R4a)

Complete ALL Portions in Yellow

See Equipment Type TAB for type, horsepower and load factor

Project Size
- 210 Dwelling Units
- 1.32 total project acres disturbed
- 190,000 s.f. residential
- 0 s.f. retail
- 0 s.f. office/commercial
- 0 s.f. other, specify: Community Use
- 64,000 s.f. parking garage — 210 spaces
- 0 s.f. parking lot — 0 spaces

Construction Hours 7 am to 6 pm

Pile Driving? NO

Project include OPERATIONAL GENERATOR OR FIRE PUMP on-site? No

IF YES (If BOTH separate values) -->

Kilowatts/Horsepower: _____

Fuel Type: _____

Location in project (Plans Desired if Available):

DO NOT MULTIPLY EQUIPMENT HOURS/DAY BY THE QUANTITY OF EQUIPMENT

Quantity	Description	HP	Load Factor	Hours/day	Total Work Days	Avg. Hours per day	HP Annual Hours	Comments	Hours at LF = 1
	Demolition	**Start Date:**	**11/15/2022**	**Total phase:**	**86**			**Overall Import/Export Volumes**	
		End Date:	**2/23/2023**						
1	Aerial Lifts	0	0.31	6.5	86	6.5	0	**Demolition Volume**	2
1	Air Compressors	0	0.48	4.2	86	4.2	0	53,170 sf demo + 1,000 tons of asphalt debris	2
1	Concrete/Industrial Saws	0	0.73	2.7	86	2.7	0	830-850 Maude	2
4	Excavators (w/hoe ram)	158	0.38	7.9	86	7.9	163165		6
1	Forklifts	89	0.2	10.0	86	10.0	15308		2
1	Generator Sets	84	0.74	5.4	86	5.4	28896		4
1	Rubber Tired Dozers	247	0.4	10.0	86	10.0	84968		4
1	Sweepers/Scrubbers	64	0.46	6.5	86	6.5	16512		3
1	Tractors/Loaders/Backhoes	97	0.37	8.1	86	8.1	25026		3
	Site Preparation	**Start Date:**	**2/23/2027**	**Total phase:**	**13**				Total phase:
		End Date:	**3/10/2027**						
1	Sweepers/Scrubbers	64	0.46	4.3	13	4.3	1664		2
1	Water Trucks	0	0	2.0	13	2.0	0		2
2	Tractors/Loaders/Backhoes	97	0.37	8.1	13	8.1	7566		3
	Grading / Excavation	**Start Date:**	**3/10/2027**	**Total phase:**	**46**				Total phase:
		End Date:	**5/2/2027**					**Soil Hauling Volume**	
1	Air Compressors	0	0.48	4.2	46	4.2	0	Export volume = **42,787** cubic yards	2
2	Bore/Drill Rigs Dewatering	221	0.5	6.0	15	2.0	19890	Import volume = **0** cubic yards	6
2	Excavators	158	0.38	7.9	46	7.9	43637		6
1	Generator Sets	84	0.74	8.1	46	8.1	23184		6
2	Bore/Drill Rig Shoring	221	0.5	6.0	31	4.0	41106		6
2	Plate Compactors	8	0.43	5.8	15	1.9	599		5
1	Dewatering Pump	84	0.74	24.0	46	24.0	68625		24
4	Rubber Tired Dozers	247	0.4	7.5	46	7.5	136344		6
1	Skid Steer Loaders	65	0.37	10.8	15	3.5	3900		4
2	Sweepers/Scrubbers	64	0.46	8.7	46	8.7	23564		8
2	Tractors/Loaders/Backhoes	97	0.37	10.8	46	10.8	35660		8
	Trenching/Foundation	**Start Date:**	**5/2/2027**	**Total phase:**	**130**				Total phase:
		End Date:	**10/1/2027**						
2	Tractors/Loaders/Backhoes	97	0.37	6.8	20	1.0	9690		5
1	Cranes	0	0.29	10.3	130	10.3	0		3
2	Concrete Pumps	84	0.74	5.4	130	5.4	87360		4
2	Aerial Lifts	0	0.31	9.7	130	9.7	0		6
1	Generator Sets	84	0.74	5.4	130	5.4	43680		4
2	Forklifts	89	0.2	10.0	130	10.0	46280		4
	Building - Exterior	**Start Date:**	**10/1/2027**	**Total phase:**	**319**				Total phase:
		End Date:	**10/8/2028**						
1	Cranes	0	0.29	10.3	319	10.3	0		3
2	Forklifts	89	0.2	7.5	319	7.5	85173		3
1	Generator Sets	84	0.74	5.4	319	5.4	107184		4
1	Tractors/Loaders/Backhoes	97	0.37	8.1	32	0.8	9312		3
2	Aerial Lifts	0	0.31	9.7	319	9.7	0		6
1	Welders	0	0.45	2.2	319	2.2	0		1
1	Plate Compactors	8	0.43	9.3	32	0.9	1024		4
1	Cement and Mortar Mixers	0	0.56	7.1	319	7.1	0		4
	Building - Interior/Architectural Coating	**Start Date:**	**11/22/2027**	**Total phase:**	**39**				Total phase:
		End Date:	**1/7/2028**						
1	Air Compressors	0	0.48	8.3	39	8.3	0		4
	Paving	**Start Date:**	**10/8/2027**	**Total phase:**	**39**				Total phase:
		Start Date:	**11/22/2027**						
2	Small Roller Compacte	80	0.38	6.6	39	6.6	15650		5
1	Tractors/Loaders/Backhoes	97	0.37	5.4	39	5.4	7566		2
2	Concrete Saw	0	0.73	8.2	2	0.4	0		6
							1152532	**-2.1%**	

Equipment types listed in "Equipment Types" worksheet tab.

Equipment listed in this sheet is to provide an example of inputs

Complete one sheet for each project component

It is assumed that water trucks would be used during grading

Add or subtract phases and equipment, as appropriate

Modify horsepower or load factor, as appropriate

Air Quality/Noise Construction Information Data Request

Project Name: Middlefield Park Phase 3 Infrastructure (Horizontal Finished Work,

Complete ALL Portions in Yellow

See Equipment Type TAB for type, horsepower and load factor

Project Size

0 Dwelling Units

1 total project acres disturbed

0 s.f. residential

0 s.f. retail

0 s.f. office/commercial

0 s.f. other, specify: Community Use

0 s.f. parking garage 0 spaces

0 s.f. parking lot 0 spaces

Construction Hours 7 am to 6 pm

Pile Driving? NO

Project include OPERATIONAL GENERATOR OR FIRE PUMP on-site? No

IF YES (If BOTH separate values) -->

Kilowatts/Horsepower: _____

Fuel Type: _____

Location in project (Plans Desired if Available):

DO NOT MULTIPLY EQUIPMENT HOURS/DAY BY THE QUANTITY OF EQUIPMENT

Quantity	Description	HP	Load Factor	Hours/day	Total Work Days	Avg. Hours per day	HP Annual Hours	Comments	Hours at LF = 1
	Infrastructure	Start Date:	1/1/2027	Total phase:	102			Overall Import/Export Volumes	
		End Date:	4/29/2027						
1	Concrete/Industrial Saws	0	0.73	1.4	102	1.4	0	Demolition Volume	1
1	Cement and Mortar Mixers	0	0.56	10.7	102	10.7	0		6
1	Generator Sets	84	0.74	5.4	102	5.4	34272		4
2	Pavers	132	0.42	7.1	102	7.1	80299		6
2	Plate Compactors	8	0.43	5.8	102	5.8	4070		5
1	Rollers	80	0.38	10.5	102	10.5	32640		4
1	Striper Truck	0	0	2.0	6	0.1	0		2
1	Sweepers/Scrubbers	64	0.46	4.3	27	1.2	3456		2
1	Tractors/Loaders/Backhoes	97	0.37	5.4	51	2.7	9894		2
							164632	-0.3%	

Equipment types listed in "Equipment Types" worksheet tab.

Equipment listed in this sheet is to provide an example of inputs

Complete one sheet for each project component

It is assumed that water trucks would be used during grading

Add or subtract phases and equipment, as appropriate

Modify horsepower or load factor, as appropriate

Air Quality/Noise Construction Information Data Request

Project Name: Middlefield Park Phase 4 (O3, O4, O5, P1, P2)

Complete ALL Portions in Yellow

See Equipment Type TAB for type, horsepower and load factor

Project Size

0 Dwelling Units — 12.33 total project acres disturbed

0 s.f. residential

0 s.f. retail

685,061 s.f. office/commercial

4,000 s.f. other, specify:

420,000 s.f. parking garage — 1,969 spaces

0 s.f. parking lot — 0 spaces

Construction Hours 7 am to 6 pm

Pile Driving? NO

Project include OPERATIONAL GENERATOR OR FIRE PUMP on-site? No

IF YES (if BOTH separate values) -->

Kilowatts/Horsepower: _____

Fuel Type: _____

Location in project (Plans Desired if Available):

DO NOT MULTIPLY EQUIPMENT HOURS/DAY BY THE QUANTITY OF EQUIPMENT

Quantity	Description	HP	Load Factor	Hours/day	Total Work Days	Avg. Hours per day	HP Annual Hours	Comments	Hours at LF = 1
	Demolition	**Start Date:**	**4/1/2026**	**Total phase:**	**234**			**Overall Import/Export Volumes**	
		End Date:	**1/1/2027**						
1	Aerial Lifts	0	0.31	6.5	234	6.5	0	**Demolition Volume**	2
1	Air Compressors	0	0.48	4.2	234	4.2	0	132,996 sf demo + 10,106 tons of asphalt debris	2
3	Concrete/Industrial Saws	0	0.73	8.2	234	8.2	0	530 Logue, 500/506, 510/516, 520/526 Clyde, 485/495 Clyde	6
4	Excavators (w/hoe ram)	158	0.38	7.9	234	7.9	443960		6
1	Forklifts	89	0.2	10.0	234	10.0	41652		2
1	Generator Sets	84	0.74	5.4	234	5.4	78624		4
1	Rubber Tired Dozers	247	0.4	10.0	234	10.0	231192		4
1	Sweepers/Scrubbers	64	0.46	6.5	234	6.5	44928		3
1	Tractors/Loaders/Backhoes	97	0.37	8.1	234	8.1	68094		3
	Site Preparation	**Start Date:**	**5/22/2026**	**Total phase:**	**54**				Total phase:
		End Date:	**7/26/2026**						
1	Sweepers/Scrubbers	64	0.46	4.3	54	4.3	6912		2
1	Water Trucks	0	0	2.0	54	2.0	0		2
2	Tractors/Loaders/Backhoes	97	0.37	8.1	54	8.1	31428		3
	Grading / Excavation	**Start Date:**	**6/5/2026**	**Total phase:**	**86**				Total phase:
		End Date:	**9/8/2026**					**Soil Hauling Volume**	
1	Air Compressors	0	0.48	4.2	86	4.2	0	Export volume = 110,949 cubic yards	2
2	Bore/Drill Rigs Dewatering	221	0.5	6.0	29	2.0	38454	Import volume = 0 cubic yards	6
4	Excavators	158	0.38	7.9	86	7.9	163165		6
1	Generator Sets	84	0.74	8.1	86	8.1	43344		6
2	Bore/Drill Rig Shoring	221	0.5	6.0	58	4.0	76908		6
4	Geothermal Bore/Drill Rig	221	0.5	9.0	64	6.7	254592	Export volume = 1,713 cubic yards	6
2	Plate Compactors	8	0.43	5.8	29	2.0	1157		5
1	Dewatering Pump	84	0.74	24.0	86	24.0	128298		24
5	Rubber Tired Dozers	247	0.4	9.0	86	9.0	382356		6
1	Skid Steer Loaders	65	0.37	10.8	29	3.6	7540		4
2	Sweepers/Scrubbers	64	0.46	8.7	86	8.7	44054		8
4	Tractors/Loaders/Backhoes	97	0.37	10.8	86	10.8	133339		8
	Trenching/Foundation	**Start Date:**	**7/26/2026**	**Total phase:**	**766**				Total phase:
		End Date:	**1/3/2028**						
2	Tractors/Loaders/Backhoes	97	0.37	6.8	61	0.5	29555		5
1	Cranes	0	0.29	6.9	766	6.9	0		2
4	Geothermal Bore/Drill Rig	221	0.5	9.0	50	0.6	198900		6
2	Concrete Pumps	84	0.74	5.4	766	5.4	514752		4
2	Aerial Lifts	0	0.31	9.7	408	5.2	0		6
1	Generator Sets	84	0.74	5.4	766	5.4	257376		4
4	Forklifts	89	0.2	10.0	766	10.0	545392		4
	Building - Exterior	**Start Date:**	**9/22/2027**	**Total phase:**	**1120**				Total phase:
		End Date:	**4/19/2031**						
1	Cranes	0	0.29	10.3	1120	10.3	0		3
2	Forklifts	89	0.2	7.5	1120	7.5	299040		3
1	Generator Sets	84	0.74	5.4	1120	5.4	376320		4
1	Tractors/Loaders/Backhoes	97	0.37	8.1	112	0.8	32592		3
2	Aerial Lifts	0	0.31	9.7	1120	9.7	0		6
1	Welders	0	0.45	2.2	1120	2.2	0		1
1	Plate Compactors	8	0.43	9.3	112	0.9	3584		4
1	Cement and Mortar Mixers	0	0.56	7.1	1120	7.1	0		4
	Building - Interior/Architectural Coating	**Start Date:**	**1/24/2028**	**Total phase:**	**205**				Total phase:
		End Date:	**9/21/2028**						
1	Air Compressors	0	0.48	8.3	205	8.3	0		4
	Paving	**Start Date:**	**12/11/2027**	**Total phase:**	**205**				Total phase:
		Start Date:	**8/8/2028**						
2	Small Roller Compacte	80	0.38	6.6	205	6.6	82262		5
1	Tractors/Loaders/Backhoes	97	0.37	5.4	205	5.4	39770		2
1	Pavers	0	0.42	4.8	205	4.8	0		2
1	Rollers	80	0.38	5.3	205	5.3	32800		2
2	Concrete Saw	0	0.73	8.2	10	0.4	0		6
							4632340	**-1.0%**	

Equipment types listed in "Equipment Types" worksheet tab.

Equipment listed in this sheet is to provide an example of inputs

Complete one sheet for each project component

It is assumed that water trucks would be used during grading

Add or subtract phases and equipment, as appropriate

Modify horsepower or load factor, as appropriate

Air Quality/Noise Construction Information Data Request

Project Name: Middlefield Park Phase 4 Infrastructure (Horizontal Finished Work,

Complete ALL Portions in Yellow

See Equipment Type TAB for type, horsepower and load factor

Project Size

0 Dwelling Units

1 total project acres disturbed

0 s.f. residential

0 s.f. retail

0 s.f. office/commercial

0 s.f. other, specify: Community Use

0 s.f. parking garage 0 spaces

0 s.f. parking lot 0 spaces

Construction Hours 7 am to 6 pm

Pile Driving? NO

Project include OPERATIONAL GENERATOR OR FIRE PUMP on-site? No

IF YES (If BOTH separate values) -->

Kilowatts/Horsepower: _____

Fuel Type: _____

Location in project (Plans Desired if Available):

DO NOT MULTIPLY EQUIPMENT HOURS/DAY BY THE QUANTITY OF EQUIPMENT

Quantity	Description	HP	Load Factor	Hours/day	Total Work Days	Avg. Hours per day	HP Annual Hours	Comments	Hours at LF = 1
	Infrastructure	Start Date:	3/1/2028	Total phase:	68			Overall Import/Export Volumes	
		End Date:	5/21/2028						
1	Concrete/Industrial Saws	0	0.73	1.4	68	1.4	0	Demolition Volume	1
1	Cement and Mortar Mixers	0	0.56	10.7	68	10.7	0		6
1	Generator Sets	84	0.74	5.4	68	5.4	22848		4
2	Pavers	132	0.42	7.1	68	7.1	53533		6
2	Plate Compactors	8	0.43	5.8	68	5.8	2713		5
1	Rollers	80	0.38	10.5	68	10.5	21760		4
1	Striper Truck	0	0	2.0	4	0.1	0		2
1	Sweepers/Scrubbers	64	0.46	4.3	18	1.2	2304		2
1	Tractors/Loaders/Backhoes	97	0.37	5.4	34	2.7	6596		2
							109754	-0.3%	

Equipment types listed in "Equipment Types" worksheet tab.

Equipment listed in this sheet is to provide an example of inputs

Complete one sheet for each project component

It is assumed that water trucks would be used during grading

Add or subtract phases and equipment, as appropriate

Modify horsepower or load factor, as appropriate

Project Phase	Construction Phase		Horsepower[1]	Load Factor[1]	Hours/day	Days Operational
Phase 1	**Trenching/Foundation**	**Start Date:**		**3/31/2023**	**Total phase:**	**161**
		End Date:		**10/5/2023**		
2	Dewatering Pump		84	0.74	24.0	161
Phase 1 Affordable	**Trenching/Foundation**	**Start Date:**		**5/12/2023**	**Total phase:**	**140**
		End Date:		**10/22/2023**		
1	Dewatering Pump		84	0.74	24.0	140
Phase 2	**Trenching/Foundation**	**Start Date:**		**7/2/2025**	**Total phase:**	**330**
		End Date:		**7/22/2026**		
1	Dewatering Pump		84	0.74	24.0	198
Phase 3	**Trenching/Foundation**	**Start Date:**		**5/17/2026**	**Total phase:**	**412**
		End Date:		**9/12/2027**		
1	Dewatering Pump		84	0.74	24.0	412
Phase 3 Affordable	**Trenching/Foundation**	**Start Date:**		**5/2/2027**	**Total phase:**	**130**
		End Date:		**10/1/2027**		
1	Dewatering Pump		84	0.74	24.0	130
Phase 4	**Trenching/Foundation**	**Start Date:**		**7/26/2026**	**Total phase:**	**766**
		End Date:		**1/3/2028**		
1	Dewatering Pump		84	0.74	24.0	153

[1] CalEEMod default

Typical Equipment Type & Load Factors		
OFFROAD Equipment	**Horsepower**	**Load Factor**
Aerial Lifts	Electric	0.31
Air Compressors	Electric	0.48
Bore/Drill Rigs	221	0.5
Cement and Mortar Mixers	Electric	0.56
Concrete/Industrial Saws	Electric	0.73
Cranes	Electric	0.29
Crawler Tractors	212	0.43
Crushing/Proc. Equipment	85	0.78
Dumpers/Tenders	16	0.38
Excavators	158	0.38
Forklifts	89	0.2
Generator Sets	84	0.74
Graders	187	0.41
Off-Highway Tractors	124	0.44
Off-Highway Trucks	402	0.38
Other Construction	172	0.42
Other General Industrial	88	0.34
Other Material Handling	168	0.4
Pavers	132	0.42
Paving Equipment	130	0.36
Plate Compactors	8	0.43
Pressure Washers	13	0.3
Pumps	84	0.74
Rollers	80	0.38
Rough Terrain Forklifts	100	0.4
Rubber Tired Dozers	247	0.4
Rubber Tired Loaders	203	0.36
Scrapers	367	0.48
Signal Boards	6	0.82
Skid Steer Loaders	65	0.37
Surfacing Equipment	263	0.3
Sweepers/Scrubbers	64	0.46
Tractors/Loaders/Backhoes	97	0.37
Trenchers	78	0.5
Welders	Electric	0.45

Site Equipment	CalEEMod Type
Aerial Lifts	Aerial Lifts
Air Compressors	Air Compressors
Concrete/Industrial Saws	Concrete/Industrial
Excavators (w/hoe ram)	Excavators
Forklifts	Forklifts
Generator Sets	Generator Sets
Rubber Tired Dozers	Rubber Tired
Sweepers/Scrubbers	Sweepers/Scrubbe
Tractors/Loaders/Backhoes	Tractors/Loaders/B
Water Trucks	
Grading / Excavation	Graders
Bore/Drill Rigs Dewatering	Bore/Drill Rigs
Excavators	Excavators
Bore/Drill Rig Shoring	Bore/Drill Rigs
Geothermal Bore/Drill Rig	Bore/Drill Rigs
Plate Compactors	Plate Compactors
Dewatering Pump	Pumps
Skid Steer Loaders	Skid Steer Loaders
Trenching/Foundation	Trenchers
Cranes	Cranes
Concrete Pumps	Pumps
Aerial Lifts	Aerial Lifts
Welders	Welders
Cement and Mortar Mixers	Cement and
Paving	Pavers
Small Roller Compacter	Rollers
Concrete Saw	Concrete/Industrial
Striper Truck	
Pavers	Pavers
Rollers	Rollers

Land Use	Size		Trips	Rate	Phase 1 (R1+R2) Size	Rate	Sat	Sun	Phase 1 (R6) Size	Rate	Sat	Sun	Phase 2 (O1, O2) Size	Rate	Sat	Sun	Phase 3 (R3, R4b, R5) Size	Rate	Sat	Sun	Phase 3 (R4a) Size	Rate	Sat	Sun	Phase 4 (O3, O4, O5, P1, P2) Size	Rate	Sat	Sun		
Proposed Project																													
Office	1317	ksf	6914	5.25	0								631.94	5.25	1.19	0.38									685.06	5.25	1.19	0.38	1317	6914
Multifamily Housing	1900	du	8913	4.69	750	5.05	4.56	3.80	170	4.69	4.23	3.53					770	4.94	4.46	3.71	210	4.69	4.23	3.53					1900	9374
Retail	41	ksf	1316	32.10	22.51	32.10	30.45	14.80									7.49	32.10	30.45	14.80									30	963
Community/Civic Space	9	ksf	259	28.78	9.434	0	0	0									6.586	0	0	0									16.02	
Maude Park	5	acre	77	15.40																										
			17,479		4,512				797				3,318				4,042				985				3,597					17251
Existing Uses					17,251																									
Office Buildings	685	ksf	6272	9.16									685	9.16	2.08	0.66														
	Net		**11,207**																											

Trip Generation Estimates

Land Use[1]	ITE Code	ITE Land Use	Reduction %	(Hide) Independent Variable	Size		Daily Rate	Daily Trip
Proposed Land Uses								
Google Office Buildings	710	General Office Building		1000 Sq. Ft. GFA	1,317	ksf	5.25	6,914
Multifamily Housing	221	Multifamily Housing (Mid-Rise)		Dwelling Units	1,900	du	5.44	10,336
Housing & Retail (15%)[2]			*15%*					*-232*
Housing & Employment (3%)[2]			*3%*					*-310*
Transit Reduction (9%)[2]			*9%*					*-881*
Multifamily Housing Trips								***8,913***
Retail	820	Shopping Center		1000 Sq. Ft. GLA	41	ksf	37.75	1,548
Housing & Retail (15%)[2]			*15%*					*-232*
Retail Passby (Daily=30%, AM PH=0%, PM PH=30%)[3]			*30%*					*-395*
Retail Trips								***921***
Community/Civic Space	495	Recreational Community Center		1000 Sq. Ft. GFA	9	ksf	28.82	259
Maude Park	411	Public Park		Acres	5	acres	15.38	77
Project Trips After Reductions								**17,084**
Existing Land Uses								
Existing Office Buildings	710	General Office Building		1000 Sq. Ft. GFA	685	ksf	9.74	6,672
Transit Reduction (6%)[2]			*6%*					*-400*
Total Existing Trips								**6,272**
Net Project Trips								**10,812**

Source: ITE Trip Generation Manual, 10th Edition 2017

Notes:

[1] Daily, AM, and PM peak hour average rates published in ITE Trip Generation Manual, 10th Edition, were used for Multifamily Housing, Retail, and Cor estimated using the fitted-curve equations for daily and PM peak-hour trips and the average trip rate for AM peak-hour trips. Daily trip rate and AM and P Fairchild Drive office project were used for the Google office uses.

[2] Trip reductions based on Table 1: Standard Auto Trip Reduction Rates from the *VTA Transportation Impact Analysis Guidelines, October 2014.*

[3] Pass-by trip reduction is based on the maximum allowable pass-by trip reduction rate in the Santa Clara Valley Transportation Authority Transportati daily and PM peak hour. Hexagon assumes no pass-by trip reduction during the AM peak hour for retail uses.

Google Middlefield Park Traffic HRA

Trip Generation

Existing	-6272
Google Office	6914
Multifamily Housing	8913
Retail	921
Community /Civic Space	259
Maude Park	77
Net Increase	10,812

Street	**Segment**	**Traffic Volume**		
		Existing	Existing plus Project	
Ellis Street	north of Middlefield	9,110	11,540	2,430
Middlefield	west of Ellis	13,270	14,770	1,500
Middlefield - east	east of Ellis	15,700	18,300	2,600
Logue Ave	north of Maude	670	1,060	390
Logue Ave	south of Maude	2,900	4,650	1,750
Maude Ave	west of SR 237	6,580	9,860	3,280
Clyde Ave	north of Maude	2,480	6,010	3,530

Unmitigated Total Construction Criteria Air Pollutants						
Unmitigated	ROG	NOX	PM10 Exhaust	PM2.5 Exhaust	**CO2e**	
Year	Tons				MT	
Construction Equipment						
2022-2023	1.17	10.76	0.52	0.50	1616.90	
2024	0.26	2.40	0.12	0.11	453.03	
2025	6.94	7.14	0.31	0.29	1557.84	
2026	1.65	15.14	0.66	0.62	2972.06	
2027	2.14	8.35	0.36	0.35	1434.19	
2028	12.46	4.54	0.21	0.20	918.55	
2029	0.38	1.33	0.06	0.06	267.96	
2030	0.05	0.37	0.01	0.01	119.46	
2031	0.02	0.11	0.00	0.00	33.92	
EMFAC						
2022-2023	0.27	1.44	0.11	0.04	1393.14	
2024	0.26	1.43	0.10	0.04	1366.08	
2025	0.19	1.33	0.09	0.04	1207.77	
2026	0.47	2.48	0.19	0.08	2556.31	
2027	0.55	2.91	0.23	0.09	3015.62	
2028	0.53	2.86	0.22	0.09	2948.27	
2029	0.44	2.21	0.18	0.07	2337.77	
2030	0.16	0.92	0.07	0.03	927.29	
2031	0.04	0.26	0.02	0.01	259.14	
Total Construction Emissions by Year						
2022-2023	1.44	12.20	0.63	0.54	3010.04	
2024	0.52	3.83	0.22	0.16	1819.11	
2025	7.13	8.48	0.40	0.33	2765.61	
2026	2.12	17.62	0.85	0.70	5528.37	
2027	2.69	11.26	0.59	0.44	4449.81	
2028	12.99	7.40	0.43	0.29	3866.81	
2029	0.82	3.54	0.24	0.13	2605.73	
2030	0.21	1.29	0.08	0.03	1046.74	
2031	0.06	0.37	0.02	0.01	293.06	
	Total Construction Emissions					
Tons	27.97	65.99	3.46	2.62	25385.28	
Pounds/Workdays	*Average Daily Emissions*				Workdays	
2022-2023	7.85	**66.67**	3.42	2.94		**366**
2024	3.33	24.37	1.42	0.99		**314**
2025	45.56	54.17	2.55	2.08		**313**
2026	13.53	**112.61**	5.43	4.45		**313**
2027	17.16	**71.98**	3.78	2.81		**313**
2028	**82.76**	47.15	2.76	1.85		**314**
2029	5.22	22.64	1.51	0.83		**313**
2030	1.34	8.25	0.49	0.22		**313**
2031	1.25	7.86	0.46	0.21		**93**
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**		
	Total Construction Emissions					
Pounds	178.00	415.69	21.81	16.39	0.00	
Average	21.09	49.77	2.61	1.98	0.00	2652.00
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**		

Phase 1 R1+R2 Unmitigated Construction Criteria Air Pollutants

Unmitigated	ROG	NOX	PM10 Exhaust	PM2.5 Exhaust	CO2e	
Year	Tons				MT	
	Construction Equipment					
2022-2023	0.67	6.33	0.30	0.29	1180.59	
2024	0.12	1.11	0.06	0.05	209.39	
2025	5.08	0.18	0.01	0.01	31.35	
2026						
2027						
2028						
2029						
2030						
2031						
	EMFAC					
2022-2023	0.23	1.27	0.09	0.04	1212.20	
2024	0.20	1.09	0.08	0.03	1041.47	
2025	0.06	0.36	0.03	0.01	341.47	
2026						
2027						
2028						
2029						
2030						
2031						
	Total Construction Emissions by Year					
2022-2023	0.90	7.60	0.40	0.32	2392.79	
2024	0.32	2.21	0.14	0.09	1250.86	
2025	5.15	0.54	0.03	0.02	372.82	
2026	0.00	0.00	0.00	0.00	0.00	
2027	0.00	0.00	0.00	0.00	0.00	
2028	0.00	0.00	0.00	0.00	0.00	
2029	0.00	0.00	0.00	0.00	0.00	
2030	0.00	0.00	0.00	0.00	0.00	
2031	0.00	0.00	0.00	0.00	0.00	
	Total Construction Emissions					
Tons	6.37	10.34	0.56	0.43	4016.48	
Pounds/Workdays	*Average Daily Emissions*				Workdays	
2022-2023	4.92	41.54	2.16	1.77		366
2024	2.04	14.05	0.86	0.55		314
2025	99.91	10.40	0.67	0.36		103
2026	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2027	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2028	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2029	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2030	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2031	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**		
	Total Construction Emissions					
Pounds	106.87	65.99	3.69	2.68	0.00	
Average	16.26	26.42	1.44	1.09	0.00	783.00
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**		

Phase 1 Affordable R6 Unmitigated Construction Criteria Air Pollutants

Unmitigated	ROG	NOX	PM10 Exhaust	PM2.5 Exhaust	CO2e	
Year	Tons				MT	
	Construction Equipment					
2023	0.27	2.52	0.12	0.12	436.32	
2024	0.06	0.56	0.03	0.03	103.24	
2025	1.10	0.02	0.00	0.00	3.42	
2026						
2027						
2028						
2029						
2030						
2031						
	EMFAC					
2023	0.04	0.17	0.01	0.01	180.93	
2024	0.04	0.17	0.01	0.01	181.43	
2025	0.01	0.03	0.00	0.00	31.23	
2026						
2027						
2028						
2029						
2030						
2031						
	Total Construction Emissions by Year					
2023	0.31	2.69	0.14	0.12	617.25	
2024	0.10	0.73	0.04	0.03	284.67	
2025	1.11	0.05	0.00	0.00	34.65	
2026	0.00	0.00	0.00	0.00	0.00	
2027	0.00	0.00	0.00	0.00	0.00	
2028	0.00	0.00	0.00	0.00	0.00	
2029	0.00	0.00	0.00	0.00	0.00	
2030	0.00	0.00	0.00	0.00	0.00	
2031	0.00	0.00	0.00	0.00	0.00	
	Total Construction Emissions					
Tons	1.52	3.47	0.18	0.16	936.57	
Pounds/Workdays	*Average Daily Emissions*				Workdays	
2023	1.98	17.20	0.87	0.78		313
2024	0.65	4.64	0.26	0.20		314
2025	41.01	1.83	0.12	0.07		54
2026	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2027	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2028	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2029	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2030	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2031	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**		
	Total Construction Emissions					
Pounds	43.64	23.68	1.26	1.05	0.00	
Average	4.46	10.19	0.53	0.46	0.00	681.00
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**		

Phase 1 Infrastructure Unmitigated Construction Criteria Air Pollutants

Unmitigated	ROG	NOX	PM10 Exhaust	PM2.5 Exhaust	CO2e	
Year	Tons				MT	
	Construction Equipment					
2022-2023						
2024	0.02	0.21	0.01	0.01	42.63	
2025	0.03	0.31	0.01	0.01	66.74	
2026						
2027						
2028						
2029						
2030						
2031						
	EMFAC					
2022-2023						
2024	0.0019	0.0024	0.0003	0.0001	4.90	
2025	0.0029	0.0037	0.0005	0.0002	7.67	
2026						
2027						
2028						
2029						
2030						
2031						
	Total Construction Emissions by Year					
2022-2023	0.00	0.00	0.00	0.00	0.00	
2024	0.02	0.21	0.01	0.01	47.53	
2025	0.04	0.31	0.01	0.01	74.41	
2026	0.00	0.00	0.00	0.00	0.00	
2027	0.00	0.00	0.00	0.00	0.00	
2028	0.00	0.00	0.00	0.00	0.00	
2029	0.00	0.00	0.00	0.00	0.00	
2030	0.00	0.00	0.00	0.00	0.00	
2031	0.00	0.00	0.00	0.00	0.00	
	Total Construction Emissions					
Tons	0.06	0.52	0.02	0.02	121.95	
Pounds/Workdays	*Average Daily Emissions*				Workdays	
2022-2023	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2024	0.90	7.89	0.38	0.35		54
2025	0.86	7.40	0.35	0.32		84
2026	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2027	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2028	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2029	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2030	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2031	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**		
	Total Construction Emissions					
Pounds	1.76	15.29	0.73	0.67	0.00	
Average	0.88	7.59	0.36	0.33	0.00	138.00
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**		

Phase 2 O1+O2 Unmitigated Construction Criteria Air Pollutants						
Unmitigated	ROG	NOX	PM10 Exhaust	PM2.5 Exhaust	**CO2e**	
Year	Tons				MT	
Construction Equipment						
2022-2023						
2024	0.06	0.52	0.02	0.02	97.77	
2025	0.69	6.33	0.27	0.25	1456.32	
2026	0.18	1.56	0.07	0.07	357.43	
2027	0.06	0.52	0.02	0.02	104.36	
2028	3.18	0.75	0.04	0.03	144.73	
2029	0.26	0.27	0.01	0.01	55.02	
2030						
2031						
EMFAC						
2022-2023						
2024	0.02	0.16	0.01	0.00	138.28	
2025	0.12	0.94	0.06	0.03	827.40	
2026	0.12	0.94	0.06	0.03	827.40	
2027	0.12	0.94	0.06	0.03	827.40	
2028	0.12	0.95	0.06	0.03	829.67	
2029	0.06	0.50	0.03	0.01	435.24	
2030						
2031						
Total Construction Emissions by Year						
2022-2023	0.00	0.00	0.00	0.00	0.00	
2024	0.08	0.68	0.04	0.03	236.04	
2025	0.81	7.27	0.33	0.28	2283.72	
2026	0.29	2.51	0.13	0.09	1184.83	
2027	0.18	1.46	0.09	0.05	931.76	
2028	3.30	1.70	0.10	0.06	974.40	
2029	0.33	0.77	0.05	0.03	490.25	
2030	0.00	0.00	0.00	0.00	0.00	
2031	0.00	0.00	0.00	0.00	0.00	
	Total Construction Emissions					
Tons	4.99	14.39	0.74	0.54	6101.02	
Pounds/Workdays	*Average Daily Emissions*				Workdays	
2022-2023	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2024	2.94	26.09	1.37	1.06		**52**
2025	5.15	46.47	2.13	1.78		**313**
2026	1.88	16.02	0.85	0.60		**313**
2027	1.13	9.34	0.56	0.32		**313**
2028	21.05	10.82	0.63	0.38		**314**
2029	3.97	9.33	0.56	0.32		**165**
2030	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2031	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**		
	Total Construction Emissions					
Pounds	36.12	118.08	6.10	4.45	0.00	
Average	49.14	160.65	8.30	6.06	0.00	1470.00
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**		

Operational Criteria Air Pollutants						
Unmitigated	ROG	NOX	Total PM10	Total PM2.5		

Phase 2 Infrastructure Unmitigated Construction Criteria Air Pollutants						
Unmitigated	ROG	NOX	PM10 Exhaust	PM2.5 Exhaust	**CO2e**	
Year	Tons				MT	
Construction Equipment						
2022-2023						
2024						
2025						
2026	0.03	0.30	0.01	0.01	67.47	
2027	0.05	0.49	0.02	0.02	108.99	
2028						
2029						
2030						
2031						
EMFAC						
2022-2023						
2024						
2025						
2026	0.0021	0.0024	0.0004	0.0001	5.92	
2027	0.0034	0.0039	0.0006	0.0002	9.52	
2028						
2029						
2030						
2031						
Total Construction Emissions by Year						
2022-2023	0.00	0.00	0.00	0.00	0.00	
2024	0.00	0.00	0.00	0.00	0.00	
2025	0.00	0.00	0.00	0.00	0.00	
2026	0.04	0.30	0.01	0.01	73.39	
2027	0.06	0.49	0.02	0.02	118.51	
2028	0.00	0.00	0.00	0.00	0.00	
2029	0.00	0.00	0.00	0.00	0.00	
2030	0.00	0.00	0.00	0.00	0.00	
2031	0.00	0.00	0.00	0.00	0.00	
	Total Construction Emissions					
Tons	0.09	0.80	0.04	0.03	191.90	
Pounds/Workdays	*Average Daily Emissions*				Workdays	
2022-2023	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2024	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2025	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2026	1.36	11.50	0.52	0.49		**53**
2027	1.37	11.59	0.52	0.49		**85**
2028	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2029	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2030	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2031	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**		
	Total Construction Emissions					
Pounds	2.72	23.09	1.04	0.98	0.00	
Average	1.36	11.55	0.52	0.49	0.00	138.00
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**		

Operational Criteria Air Pollutants						
Unmitigated	ROG	NOX	Total PM10	Total PM2.5		

Phase 3 R3, R4b, R5 Unmitigated Construction Criteria Air Pollutants						
Unmitigated	ROG	NOX	PM10 Exhaust	PM2.5 Exhaust	CO2e	
Year	Tons				MT	
Construction Equipment						
2022-2023						
2024						
2025						
2026	0.62	5.74	0.25	0.23	1246.77	
2027	0.16	1.48	0.06	0.06	346.58	
2028	5.12	0.71	0.03	0.03	137.41	
2029	0.06	0.52	0.02	0.02	104.36	
2030	0.00	0.02	0.00	0.00	6.50	
2031						
EMFAC						
2022-2023						
2024						
2025						
2026	0.23	0.85	0.08	0.03	1034.78	
2027	0.23	0.85	0.08	0.03	1034.78	
2028	0.23	0.85	0.08	0.03	1037.61	
2029	0.23	0.85	0.08	0.03	1034.78	
2030	0.01	0.05	0.00	0.00	59.54	
2031						
Total Construction Emissions by Year						
2022-2023	0.00	0.00	0.00	0.00	0.00	
2024	0.00	0.00	0.00	0.00	0.00	
2025	0.00	0.00	0.00	0.00	0.00	
2026	0.85	6.59	0.32	0.26	2281.55	
2027	0.39	2.33	0.14	0.09	1381.35	
2028	5.35	1.56	0.11	0.06	1175.03	
2029	0.29	1.37	0.10	0.05	1139.14	
2030	0.02	0.07	0.00	0.00	66.03	
2031	0.00	0.00	0.00	0.00	0.00	
	Total Construction Emissions					
Tons	6.90	11.91	0.68	0.47	6043.10	
Pounds/Workdays	*Average Daily Emissions*				Workdays	
2022-2023	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2024	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2025	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2026	5.42	42.11	2.06	1.67		313
2027	2.52	14.86	0.90	0.59		313
2028	34.10	9.94	0.70	0.39		314
2029	1.83	8.74	0.64	0.34		313
2030	1.79	7.70	0.53	0.23		18
2031	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**		
	Total Construction Emissions					
Pounds	45.66	83.35	4.84	3.22	0.00	
Average	10.86	18.75	1.07	0.74	0.00	1271.00
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**		

Operational Criteria Air Pollutants						
Unmitigated	ROG	NOX	Total PM10	Total PM2.5		
Year	Tons					
Total						
	Existing Use Emissions					
Total						
	Net Annual Operational Emissions					
Tons/year	0.00	0.00	0.00	0.00		
Threshold - Tons/year	**10.0**	**10.0**	**15.0**	**10.0**		
	Average Daily Emissions					
Pounds Per Day	0.00	0.00	0.00	0.00		
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**		

Phase 3 Affordable R4a Unmitigated Construction Criteria Air Pollutants						
Unmitigated	ROG	NOX	PM10 Exhaust	PM2.5 Exhaust	CO2e	
Year	Tons				MT	
Construction Equipment						
2022-2023						
2024						
2025						
2026	0.04	0.37	0.02	0.02	75.33	
2027	1.45	2.19	0.10	0.09	427.23	
2028	0.18	0.40	0.02	0.02	80.02	
2029						
2030						
2031						
EMFAC						
2022-2023						
2024						
2025						
2026	0.01	0.03	0.00	0.00	34.42	
2027	0.05	0.25	0.02	0.01	267.30	
2028	0.04	0.19	0.02	0.01	205.05	
2029						
2030						
2031						
Total Construction Emissions by Year						
2022-2023	0.00	0.00	0.00	0.00	0.00	
2024	0.00	0.00	0.00	0.00	0.00	
2025	0.00	0.00	0.00	0.00	0.00	
2026	0.05	0.40	0.02	0.02	109.75	
2027	1.49	2.44	0.12	0.10	694.53	
2028	0.22	0.59	0.03	0.02	285.08	
2029	0.00	0.00	0.00	0.00	0.00	
2030	0.00	0.00	0.00	0.00	0.00	
2031	0.00	0.00	0.00	0.00	0.00	
	Total Construction Emissions					
Tons	1.76	3.42	0.17	0.14	1089.36	
Pounds/Workdays	*Average Daily Emissions*				Workdays	
2022-2023	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2024	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2025	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2026	2.31	19.87	0.98	0.84		40
2027	9.55	15.58	0.76	0.64		313
2028	1.81	4.88	0.29	0.20		240
2029	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2030	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2031	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**		
	Total Construction Emissions					
Pounds	13.67	40.33	2.03	1.68	0.00	
Average	5.93	11.54	0.58	0.48	0.00	593.00
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**		

Operational Criteria Air Pollutants						
Unmitigated	ROG	NOX	Total PM10	Total PM2.5		
Year	Tons					
Total						
	Existing Use Emissions					
Total						
	Net Annual Operational Emissions					
Tons/year	0.00	0.00	0.00	0.00		
Threshold - Tons/year	**10.0**	**10.0**	**15.0**	**10.0**		
	Average Daily Emissions					
Pounds Per Day	0.00	0.00	0.00	0.00		
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**		

Phase 3 Infrastructure Unmitigated Construction Criteria Air Pollutants						
Unmitigated	ROG	NOX	PM10 Exhaust	PM2.5 Exhaust	CO2e	
Year	Tons				MT	
Construction Equipment						
2022-2023						
2024						
2025						
2026						
2027	0.04	0.38	0.02	0.02	81.49	
2028						
2029						
2030						
2031						
EMFAC						
2022-2023						
2024						
2025						
2026						
2027	0.0030	0.0037	0.0006	0.0002	8.87	
2028						
2029						
2030						
2031						
Total Construction Emissions by Year						
2022-2023	0.00	0.00	0.00	0.00	0.00	
2024	0.00	0.00	0.00	0.00	0.00	
2025	0.00	0.00	0.00	0.00	0.00	
2026	0.00	0.00	0.00	0.00	0.00	
2027	0.04	0.38	0.02	0.02	90.36	
2028	0.00	0.00	0.00	0.00	0.00	
2029	0.00	0.00	0.00	0.00	0.00	
2030	0.00	0.00	0.00	0.00	0.00	
2031	0.00	0.00	0.00	0.00	0.00	
	Total Construction Emissions					
Tons	0.04	0.38	0.02	0.02	90.36	
Pounds/Workdays	*Average Daily Emissions*				Workdays	
2022-2023	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2024	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2025	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2026	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2027	0.85	7.36	0.34	0.32		103
2028	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2029	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2030	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2031	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**		
	Total Construction Emissions					
Pounds	0.85	7.36	0.34	0.32	0.00	
Average	0.85	7.36	0.34	0.32	0.00	103.00
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**		

Operational Criteria Air Pollutants						
Unmitigated	ROG	NOX	Total PM10	Total PM2.5		
Year	Tons					
Total						
	Existing Use Emissions					
Total						
	Net Annual Operational Emissions					
Tons/year	0.00	0.00	0.00	0.00		
Threshold - Tons/year	**10.0**	**10.0**	**15.0**	**10.0**		
	Average Daily Emissions					
Pounds Per Day	0.00	0.00	0.00	0.00		
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**		

Phase 4 O3+O4+O5, P1+P2 Unmitigated Construction Criteria Air Pollutants						
Unmitigated	ROG	NOX	PM10 Exhaust	PM2.5 Exhaust	**CO2e**	
Year	Tons				MT	
Construction Equipment						
2022-2023						
2024						
2025						
2026	0.64	5.98	0.26	0.25	1225.06	
2027	0.19	1.70	0.08	0.07	365.54	
2028	3.94	2.43	0.11	0.11	502.05	
2029	0.06	0.54	0.02	0.02	108.58	
2030	0.05	0.35	0.01	0.01	112.96	
2031	0.02	0.11	0.00	0.00	33.92	
EMFAC						
2022-2023						
2024						
2025						
2026	0.11	0.65	0.05	0.02	653.79	
2027	0.14	0.87	0.07	0.03	867.75	
2028	0.14	0.87	0.07	0.03	870.13	
2029	0.14	0.87	0.07	0.03	867.75	
2030	0.14	0.87	0.07	0.03	867.75	
2031	0.04	0.26	0.02	0.01	259.14	
Total Construction Emissions by Year						
2022-2023	0.00	0.00	0.00	0.00	0.00	
2024	0.00	0.00	0.00	0.00	0.00	
2025	0.00	0.00	0.00	0.00	0.00	
2026	0.75	6.63	0.31	0.27	1878.84	
2027	0.33	2.57	0.14	0.10	1233.29	
2028	4.09	3.30	0.18	0.13	1372.18	
2029	0.20	1.41	0.09	0.05	976.33	
2030	0.19	1.22	0.07	0.03	980.71	
2031	0.06	0.37	0.02	0.01	293.06	
	Total Construction Emissions					
Tons	5.63	15.50	0.82	0.59	6734.42	
Pounds/Workdays	*Average Daily Emissions*				Workdays	
2022-2023	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2024	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2025	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2026	6.38	56.22	2.65	2.25		**236**
2027	2.12	16.42	0.92	0.65		**313**
2028	26.04	21.05	1.13	0.85		**314**
2029	1.29	8.98	0.58	0.32		**313**
2030	1.24	7.81	0.46	0.21		**313**
2031	1.25	7.86	0.46	0.21		**93**
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**		
	Total Construction Emissions					
Pounds	38.32	118.32	6.20	4.49	0.00	
Average	7.11	19.59	1.03	0.75	0.00	1582.00
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**		

Operational Criteria Air Pollutants						
Unmitigated	ROG	NOX	Total PM10	Total PM2.5		

Phase 4 Infrastructure Unmitigated Construction Criteria Air Pollutants						
Unmitigated	ROG	NOX	PM10 Exhaust	PM2.5 Exhaust	**CO2e**	
Year	Tons				MT	
Construction Equipment						
2022-2023						
2024						
2025						
2026						
2027						
2028	0.03	0.25	0.01	0.01	54.33	
2029						
2030						
2031						
EMFAC						
2022-2023						
2024						
2025						
2026						
2027						
2028	0.0019	0.0023	0.0004	0.0001	5.80	
2029						
2030						
2031						
Total Construction Emissions by Year						
2022-2023	0.00	0.00	0.00	0.00	0.00	
2024	0.00	0.00	0.00	0.00	0.00	
2025	0.00	0.00	0.00	0.00	0.00	
2026	0.00	0.00	0.00	0.00	0.00	
2027	0.00	0.00	0.00	0.00	0.00	
2028	0.03	0.25	0.01	0.01	60.13	
2029	0.00	0.00	0.00	0.00	0.00	
2030	0.00	0.00	0.00	0.00	0.00	
2031	0.00	0.00	0.00	0.00	0.00	
	Total Construction Emissions					
Tons	0.03	0.25	0.01	0.01	60.13	
Pounds/Workdays	*Average Daily Emissions*				Workdays	
2022-2023	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2024	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2025	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2026	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2027	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2028	0.84	7.32	0.34	0.31		**69**
2029	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2030	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2031	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**		
	Total Construction Emissions					
Pounds	0.84	7.32	0.34	0.31	0.00	
Average	0.84	7.32	0.34	0.31	0.00	69.00
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**		

Operational Criteria Air Pollutants						
Unmitigated	ROG	NOX	Total PM10	Total PM2.5		

Dewatering Pumps Unmitigated Construction Criteria Air Pollutants						
Unmitigated	ROG	NOX	PM10 Exhaust	PM2.5 Exhaust	**CO2e**	
Year	Tons				MT	
Construction Equipment						
Phase 1						
2023	0.16	1.33	0.07	0.07		
Phase 1 Affordable						
2023	0.07	0.58	0.03	0.03		
Phase 2						
2025	0.04	0.31	0.01	0.01		
2026	0.05	0.41	0.02	0.02		
Phase 3						
2026	0.07	0.63	0.02	0.02		
2027	0.09	0.80	0.03	0.03		
Phase 3 Affordable						
2027	0.05	0.43	0.01	0.01		
Phase 4						
2026	0.02	0.15	0.01	0.01		
2027	0.04	0.38	0.01	0.01		
Total Construction Emissions by Year						
2023	0.23	1.91	0.09	0.09	0.00	
2025	0.04	0.31	0.01	0.01	0.00	
2026	0.14	1.19	0.05	0.05	0.00	
2027	0.19	1.60	0.06	0.06	0.00	
	Total Construction Emissions					
Tons	0.59	5.00	0.21	0.21	0.00	
Pounds/Workdays	*Average Daily Emissions*				Workdays	
2023	2.82	23.68	1.16	1.16		**161**
2025	0.47	3.94	0.16	0.16		**157**
2026	1.42	12.08	0.48	0.48		**197**
2027	1.20	10.21	0.38	0.38		**313**
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**		
	Total Construction Emissions					
Pounds	5.91	49.91	2.18	2.18	0.00	
Average	1.43	12.09	0.51	0.51	0.00	828.00
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**		

Mitigated Tier 4 Final Total Construction Criteria Air Pollutants						
Unmitigated	ROG	NOX	PM10 Exhaust	PM2.5 Exhaust	**CO2e**	
Year	Tons				MT	
Construction Equipment						
2022-2023	0.27	1.48	0.03	0.03	1616.90	
2024	0.06	0.28	0.01	0.01	453.03	
2025	1.46	1.18	0.03	0.03	1557.83	
2026	0.44	2.46	0.06	0.06	2972.05	
2027	0.48	1.12	0.03	0.03	1434.19	
2028	2.51	0.52	0.02	0.02	918.55	
2029	0.08	0.15	0.00	0.00	267.96	
2030	0.01	0.06	0.00	0.00	119.46	
2031	0.00	0.02	0.00	0.00	33.92	
EMFAC						
2022-2023	0.27	1.44	0.11	0.04	1393.14	
2024	0.26	1.43	0.10	0.04	1366.08	
2025	0.19	1.33	0.09	0.04	1207.77	
2026	0.47	2.48	0.19	0.08	2556.31	
2027	0.55	2.91	0.23	0.09	3015.62	
2028	0.53	2.86	0.22	0.09	2948.27	
2029	0.44	2.21	0.18	0.07	2337.77	
2030	0.16	0.92	0.07	0.03	927.29	
2031	0.04	0.26	0.02	0.01	259.14	
Total Construction Emissions by Year						
2022-2023	0.54	2.92	0.14	0.08	3010.04	
2024	0.32	1.71	0.11	0.05	1819.11	
2025	1.65	2.52	0.12	0.07	2765.60	
2026	0.91	4.94	0.25	0.13	5528.36	
2027	1.02	4.03	0.26	0.12	4449.81	
2028	3.04	3.37	0.24	0.11	3866.81	
2029	0.52	2.36	0.18	0.08	2605.72	
2030	0.17	0.98	0.07	0.03	1046.74	
2031	0.05	0.28	0.02	0.01	293.06	
	Total Construction Emissions					
Tons	8.22	23.10	1.39	0.67	25385.27	
Pounds/Workdays	*Average Daily Emissions*				Workdays	
2022-2023	2.94	15.95	0.76	0.43		**366**
2024	2.04	10.89	0.71	0.32		**314**
2025	10.54	16.08	0.78	0.43		**313**
2026	5.81	31.59	1.60	0.86		**313**
2027	6.53	25.74	1.66	0.79		**313**
2028	19.39	21.49	1.52	0.67		**314**
2029	3.31	15.07	1.15	0.48		**313**
2030	1.09	6.24	0.46	0.19		**313**
2031	1.01	5.93	0.43	0.18		**93**
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**		
	Total Construction Emissions					
Pounds	52.67	148.98	9.06	4.35	0.00	
Average	6.20	17.42	1.05	0.51	0.00	2652.00
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**		

Phase 1 R1+R2 Mitigated Tier 4 Final Construction Criteria Air Pollutants						
Unmitigated	ROG	NOX	PM10 Exhaust	PM2.5 Exhaust	CO2e	
Year	Tons				MT	
Construction Equipment						
2022-2023	0.16	0.92	0.02	0.02	1180.59	
2024	0.03	0.11	0.004	0.004	209.39	
2025	1.02	0.02	0.001	0.001	31.35	
2026						
2027						
2028						
2029						
2030						
2031						
EMFAC						
2022-2023	0.23	1.27	0.09	0.04	1212.20	
2024	0.20	1.09	0.08	0.03	1041.47	
2025	0.06	0.36	0.03	0.01	341.47	
2026						
2027						
2028						
2029						
2030						
2031						
Total Construction Emissions by Year						
2022-2023	0.39	2.19	0.11	0.06	2392.79	
2024	0.22	1.21	0.08	0.04	1250.86	
2025	1.08	0.38	0.03	0.01	372.82	
2026	0.00	0.00	0.00	0.00	0.00	
2027	0.00	0.00	0.00	0.00	0.00	
2028	0.00	0.00	0.00	0.00	0.00	
2029	0.00	0.00	0.00	0.00	0.00	
2030	0.00	0.00	0.00	0.00	0.00	
2031	0.00	0.00	0.00	0.00	0.00	
	Total Construction Emissions					
Tons	1.70	3.77	0.22	0.11	4016.47	
Pounds/Workdays	*Average Daily Emissions*				Workdays	
2022-2023	2.14	11.98	0.62	0.32		366
2024	1.43	7.68	0.53	0.23		314
2025	21.01	7.31	0.51	0.22		103
2026	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2027	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2028	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2029	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2030	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2031	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**		
	Total Construction Emissions					
Pounds	24.58	26.97	1.66	0.77	0.00	
Average	4.34	9.64	0.57	0.27	0.00	783.00
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**		

Phase 1 Affordable R6 Mitigated Tier 4 Final Construction Criteria Air Pollutants						
Unmitigated	ROG	NOX	PM10 Exhaust	PM2.5 Exhaust	CO2e	
Year	Tons				MT	
Construction Equipment						
2023	0.06	0.36	0.01	0.01	436.32	
2024	0.01	0.06	0.002	0.002	103.24	
2025	0.22	0.00	0.0001	0.0001	3.42	
2026						
2027						
2028						
2029						
2030						
2031						
EMFAC						
2023	0.04	0.17	0.01	0.01	180.93	
2024	0.04	0.17	0.01	0.01	181.43	
2025	0.01	0.03	0.00	0.00	31.23	
2026						
2027						
2028						
2029						
2030						
2031						
Total Construction Emissions by Year						
2023	0.10	0.53	0.02	0.01	617.25	
2024	0.05	0.23	0.02	0.01	284.67	
2025	0.23	0.03	0.00	0.00	34.65	
2026	0.00	0.00	0.00	0.00	0.00	
2027	0.00	0.00	0.00	0.00	0.00	
2028	0.00	0.00	0.00	0.00	0.00	
2029	0.00	0.00	0.00	0.00	0.00	
2030	0.00	0.00	0.00	0.00	0.00	
2031	0.00	0.00	0.00	0.00	0.00	
	Total Construction Emissions					
Tons	0.38	0.79	0.04	0.02	936.57	
Pounds/Workdays	*Average Daily Emissions*				Workdays	
2023	0.65	3.38	0.13	0.08		313
2024	0.35	1.46	0.10	0.05		314
2025	8.42	1.18	0.09	0.04		54
2026	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2027	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2028	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2029	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2030	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2031	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**		
	Total Construction Emissions					
Pounds	9.41	6.02	0.32	0.17	0.00	
Average	1.12	2.32	0.11	0.06	0.00	681.00
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**		

Phase 1 Infrastructure Mitigated Tier 4 Final Construction Criteria Air Pollutants						
Unmitigated	ROG	NOX	PM10 Exhaust	PM2.5 Exhaust	CO2e	
Year	Tons				MT	
Construction Equipment						
2022-2023						
2024	0.01	0.03	0.001	0.001	42.63	
2025	0.01	0.05	0.001	0.001	66.74	
2026						
2027						
2028						
2029						
2030						
2031						
EMFAC						
2022-2023						
2024	0.0019	0.0024	0.0003	0.0001	4.90	
2025	0.0029	0.0037	0.0005	0.0002	7.67	
2026						
2027						
2028						
2029						
2030						
2031						
Total Construction Emissions by Year						
2022-2023	0.00	0.00	0.00	0.00	0.00	
2024	0.01	0.03	0.00	0.00	47.53	
2025	0.01	0.05	0.00	0.00	74.41	
2026	0.00	0.00	0.00	0.00	0.00	
2027	0.00	0.00	0.00	0.00	0.00	
2028	0.00	0.00	0.00	0.00	0.00	
2029	0.00	0.00	0.00	0.00	0.00	
2030	0.00	0.00	0.00	0.00	0.00	
2031	0.00	0.00	0.00	0.00	0.00	
	Total Construction Emissions					
Tons	0.02	0.08	0.00	0.00	121.95	
Pounds/Workdays	*Average Daily Emissions*				Workdays	
2022-2023	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2024	0.28	1.16	0.04	0.03		54
2025	0.28	1.17	0.04	0.03		84
2026	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2027	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2028	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2029	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2030	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2031	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**		
	Total Construction Emissions					
Pounds	0.56	2.33	0.08	0.06	0.00	
Average	0.28	1.17	0.04	0.03	0.00	138.00
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**		

Phase 2 O1+O2 Mitigated Tier 4 Final Construction Criteria Air Pollutants						
Unmitigated	ROG	NOX	PM10 Exhaust	PM2.5 Exhaust	**CO2e**	
Year	Tons				MT	
Construction Equipment						
2022-2023						
2024	0.01	0.09	0.002	0.002	97.77	
2025	0.20	1.08	0.026	0.026	1456.32	
2026	0.05	0.20	0.006	0.006	357.43	
2027	0.01	0.06	0.002	0.002	104.36	
2028	0.64	0.08	0.002	0.002	144.73	
2029	0.05	0.03	0.001	0.001	55.02	
2030						
2031						
EMFAC						
2022-2023						
2024	0.02	0.16	0.01	0.00	138.28	
2025	0.12	0.94	0.06	0.03	827.40	
2026	0.12	0.94	0.06	0.03	827.40	
2027	0.12	0.94	0.06	0.03	827.40	
2028	0.12	0.95	0.06	0.03	829.67	
2029	0.06	0.50	0.03	0.01	435.24	
2030						
2031						
Total Construction Emissions by Year						
2022-2023	0.00	0.00	0.00	0.00	0.00	
2024	0.03	0.24	0.01	0.01	236.04	
2025	0.32	2.02	0.09	0.05	2283.72	
2026	0.16	1.14	0.07	0.03	1184.83	
2027	0.13	1.00	0.07	0.03	931.76	
2028	0.76	1.03	0.07	0.03	974.40	
2029	0.12	0.53	0.03	0.01	490.25	
2030	0.00	0.00	0.00	0.00	0.00	
2031	0.00	0.00	0.00	0.00	0.00	
	Total Construction Emissions					
Tons	1.53	5.96	0.34	0.16	6101.02	
Pounds/Workdays	*Average Daily Emissions*				Workdays	
2022-2023	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2024	1.31	9.33	0.48	0.24		**52**
2025	2.05	12.92	0.57	0.34		**313**
2026	1.05	7.27	0.45	0.21		**313**
2027	0.85	6.39	0.42	0.18		**313**
2028	4.84	6.54	0.42	0.19		**314**
2029	1.42	6.38	0.42	0.18		**165**
2030	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2031	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**		
	Total Construction Emissions					
Pounds	11.51	48.83	2.75	1.33	0.00	
Average	15.67	66.43	3.75	1.81	0.00	1470.00
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**		

Phase 2 Infrastructure Mitigated Tier 4 Final Construction Criteria Air Pollutants						
Unmitigated	ROG	NOX	PM10 Exhaust	PM2.5 Exhaust	**CO2e**	
Year	Tons				MT	
Construction Equipment						
2022-2023						
2024						
2025						
2026	0.01	0.04	0.001	0.001	67.47	
2027	0.01	0.07	0.002	0.002	108.99	
2028						
2029						
2030						
2031						
EMFAC						
2022-2023						
2024						
2025						
2026	0.0021	0.0024	0.0004	0.0001	5.92	
2027	0.0034	0.0039	0.0006	0.0002	9.52	
2028						
2029						
2030						
2031						
Total Construction Emissions by Year						
2022-2023	0.00	0.00	0.00	0.00	0.00	
2024	0.00	0.00	0.00	0.00	0.00	
2025	0.00	0.00	0.00	0.00	0.00	
2026	0.01	0.04	0.00	0.00	73.39	
2027	0.02	0.07	0.00	0.00	118.51	
2028	0.00	0.00	0.00	0.00	0.00	
2029	0.00	0.00	0.00	0.00	0.00	
2030	0.00	0.00	0.00	0.00	0.00	
2031	0.00	0.00	0.00	0.00	0.00	
	Total Construction Emissions					
Tons	0.03	0.11	0.00	0.00	191.90	
Pounds/Workdays	*Average Daily Emissions*				Workdays	
2022-2023	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2024	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2025	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2026	0.40	1.65	0.06	0.05		**53**
2027	0.41	1.66	0.06	0.05		**85**
2028	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2029	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2030	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2031	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**		
	Total Construction Emissions					
Pounds	0.81	3.32	0.12	0.10	0.00	
Average	0.40	1.66	0.06	0.05	0.00	138.00
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**		

Phase 3 R3, R4b, R5 Mitigated Tier 4 Final Construction Criteria Air Pollutants						
Unmitigated	ROG	NOX	PM10 Exhaust	PM2.5 Exhaust	CO2e	
Year	Tons				MT	
Construction Equipment						
2022-2023						
2024						
2025						
2026	0.17	1.02	0.02	0.02	1246.77	
2027	0.04	0.19	0.006	0.006	346.57	
2028	1.03	0.08	0.002	0.002	137.41	
2029	0.01	0.06	0.002	0.002	104.36	
2030	0.00	0.00	0.0001	0.0001	6.50	
2031						
EMFAC						
2022-2023						
2024						
2025						
2026	0.23	0.85	0.08	0.03	1034.78	
2027	0.23	0.85	0.08	0.03	1034.78	
2028	0.23	0.85	0.08	0.03	1037.61	
2029	0.23	0.85	0.08	0.03	1034.78	
2030	0.01	0.05	0.00	0.00	59.54	
2031						
Total Construction Emissions by Year						
2022-2023	0.00	0.00	0.00	0.00	0.00	
2024	0.00	0.00	0.00	0.00	0.00	
2025	0.00	0.00	0.00	0.00	0.00	
2026	0.40	1.87	0.10	0.05	2281.55	
2027	0.27	1.04	0.08	0.04	1381.35	
2028	1.26	0.93	0.08	0.03	1175.03	
2029	0.24	0.91	0.08	0.03	1139.14	
2030	0.01	0.05	0.00	0.00	66.03	
2031	0.00	0.00	0.00	0.00	0.00	
	Total Construction Emissions					
Tons	2.19	4.80	0.34	0.15	6043.10	
Pounds/Workdays	*Average Daily Emissions*				Workdays	
2022-2023	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2024	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2025	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2026	2.58	11.96	0.63	0.33		313
2027	1.75	6.65	0.53	0.23		313
2028	8.01	5.91	0.51	0.21		314
2029	1.56	5.79	0.50	0.20		313
2030	1.56	5.79	0.50	0.20		18
2031	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**		
	Total Construction Emissions					
Pounds	15.46	36.10	2.67	1.18	0.00	
Average	3.45	7.55	0.54	0.24	0.00	1271.00
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**		

Phase 3 Affordable R4a Mitigated Tier 4 Final Construction Criteria Air Pollutants						
Unmitigated	ROG	NOX	PM10 Exhaust	PM2.5 Exhaust	CO2e	
Year	Tons				MT	
Construction Equipment						
2022-2023						
2024						
2025						
2026	0.01	0.07	0.001	0.001	75.33	
2027	0.30	0.35	0.007	0.007	427.23	
2028	0.04	0.04	0.001	0.001	80.02	
2029						
2030						
2031						
EMFAC						
2022-2023						
2024						
2025						
2026	0.01	0.03	0.00	0.00	34.42	
2027	0.05	0.25	0.02	0.01	267.30	
2028	0.04	0.19	0.02	0.01	205.05	
2029						
2030						
2031						
Total Construction Emissions by Year						
2022-2023	0.00	0.00	0.00	0.00	0.00	
2024	0.00	0.00	0.00	0.00	0.00	
2025	0.00	0.00	0.00	0.00	0.00	
2026	0.02	0.10	0.00	0.00	109.75	
2027	0.35	0.59	0.03	0.02	694.53	
2028	0.07	0.23	0.02	0.01	285.08	
2029	0.00	0.00	0.00	0.00	0.00	
2030	0.00	0.00	0.00	0.00	0.00	
2031	0.00	0.00	0.00	0.00	0.00	
	Total Construction Emissions					
Tons	0.44	0.92	0.05	0.03	1089.35	
Pounds/Workdays	*Average Daily Emissions*				Workdays	
2022-2023	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2024	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2025	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2026	0.83	4.85	0.21	0.12		40
2027	2.21	3.77	0.18	0.10		313
2028	0.61	1.93	0.15	0.07		240
2029	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2030	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2031	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**		
	Total Construction Emissions					
Pounds	3.65	10.55	0.54	0.29	0.00	
Average	1.47	3.10	0.17	0.09	0.00	593.00
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**		

Phase 3 Infrastructure Mitigated Tier 4 Final Construction Criteria Air Pollutants						
Unmitigated	ROG	NOX	PM10 Exhaust	PM2.5 Exhaust	CO2e	
Year	Tons				MT	
Construction Equipment						
2022-2023						
2024						
2025						
2026						
2027	0.01	0.06	0.001	0.001	81.49	
2028						
2029						
2030						
2031						
EMFAC						
2022-2023						
2024						
2025						
2026						
2027	0.0030	0.0037	0.0006	0.0002	8.87	
2028						
2029						
2030						
2031						
Total Construction Emissions by Year						
2022-2023	0.00	0.00	0.00	0.00	0.00	
2024	0.00	0.00	0.00	0.00	0.00	
2025	0.00	0.00	0.00	0.00	0.00	
2026	0.00	0.00	0.00	0.00	0.00	
2027	0.01	0.06	0.00	0.00	90.36	
2028	0.00	0.00	0.00	0.00	0.00	
2029	0.00	0.00	0.00	0.00	0.00	
2030	0.00	0.00	0.00	0.00	0.00	
2031	0.00	0.00	0.00	0.00	0.00	
	Total Construction Emissions					
Tons	0.01	0.06	0.00	0.00	90.36	
Pounds/Workdays	*Average Daily Emissions*				Workdays	
2022-2023	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2024	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2025	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2026	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2027	0.27	1.15	0.04	0.03		103
2028	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2029	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2030	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2031	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**		
	Total Construction Emissions					
Pounds	0.27	1.15	0.04	0.03	0.00	
Average	0.27	1.15	0.04	0.03	0.00	103.00
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**		

Phase 4 O3+O4+O5, P1+P2 Mitigated Tier 4 Final Construction Criteria Air Pollutants						
Unmitigated	ROG	NOX	PM10 Exhaust	PM2.5 Exhaust	**CO2e**	
Year	Tons				MT	
Construction Equipment						
2022-2023						
2024						
2025						
2026	0.17	1.00	0.02	0.02	1225.05	
2027	0.05	0.20	0.01	0.01	365.54	
2028	0.80	0.28	0.01	0.01	502.05	
2029	0.01	0.06	0.002	0.002	108.58	
2030	0.01	0.06	0.002	0.002	112.96	
2031	0.00	0.02	0.001	0.001	33.92	
EMFAC						
2022-2023						
2024						
2025						
2026	0.11	0.65	0.05	0.02	653.79	
2027	0.14	0.87	0.07	0.03	867.75	
2028	0.14	0.87	0.07	0.03	870.13	
2029	0.14	0.87	0.07	0.03	867.75	
2030	0.14	0.87	0.07	0.03	867.75	
2031	0.04	0.26	0.02	0.01	259.14	
Total Construction Emissions by Year						
2022-2023	0.00	0.00	0.00	0.00	0.00	
2024	0.00	0.00	0.00	0.00	0.00	
2025	0.00	0.00	0.00	0.00	0.00	
2026	0.28	1.65	0.07	0.04	1878.84	
2027	0.19	1.07	0.07	0.03	1233.29	
2028	0.94	1.15	0.07	0.04	1372.18	
2029	0.16	0.93	0.07	0.03	976.33	
2030	0.16	0.92	0.07	0.03	980.71	
2031	0.05	0.28	0.02	0.01	293.06	
	Total Construction Emissions					
Tons	1.78	5.99	0.37	0.17	6734.42	
Pounds/Workdays	*Average Daily Emissions*				Workdays	
2022-2023	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2024	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2025	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2026	2.37	13.98	0.60	0.35		236
2027	1.22	6.83	0.46	0.21		313
2028	6.02	7.31	0.47	0.22		314
2029	1.01	5.92	0.43	0.18		313
2030	1.00	5.90	0.43	0.18		313
2031	1.01	5.93	0.43	0.18		93
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**		
	Total Construction Emissions					
Pounds	12.63	45.87	2.82	1.33	0.00	
Average	2.25	7.57	0.47	0.22	0.00	1582.00
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**		

Phase 4 Infrastructure Mitigated Tier 4 Final Construction Criteria Air Pollutants						
Unmitigated	ROG	NOX	PM10 Exhaust	PM2.5 Exhaust	**CO2e**	
Year	Tons				MT	
Construction Equipment						
2022-2023						
2024						
2025						
2026						
2027						
2028	0.01	0.04	0.001	0.001	54.33	
2029						
2030						
2031						
EMFAC						
2022-2023						
2024						
2025						
2026						
2027						
2028	0.0019	0.0023	0.0004	0.0001	5.80	
2029						
2030						
2031						
Total Construction Emissions by Year						
2022-2023	0.00	0.00	0.00	0.00	0.00	
2024	0.00	0.00	0.00	0.00	0.00	
2025	0.00	0.00	0.00	0.00	0.00	
2026	0.00	0.00	0.00	0.00	0.00	
2027	0.00	0.00	0.00	0.00	0.00	
2028	0.01	0.04	0.00	0.00	60.13	
2029	0.00	0.00	0.00	0.00	0.00	
2030	0.00	0.00	0.00	0.00	0.00	
2031	0.00	0.00	0.00	0.00	0.00	
	Total Construction Emissions					
Tons	0.01	0.04	0.00	0.00	60.13	
Pounds/Workdays	*Average Daily Emissions*				Workdays	
2022-2023	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2024	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2025	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2026	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2027	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2028	0.26	1.14	0.04	0.03		69
2029	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2030	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
2031	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**		
	Total Construction Emissions					
Pounds	0.26	1.14	0.04	0.03	0.00	
Average	0.26	1.14	0.04	0.03	0.00	69.00
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**		

Dewatering Pumps Mitigated Construction Criteria Air Pollutants						
Unmitigated	ROG	NOX	PM10 Exhaust	PM2.5 Exhaust	**CO2e**	
Year	Tons				MT	
Construction Equipment						
Phase 1						
2023	0.03	0.14	0.004	0.004		
Phase 1 Affordable						
2023	0.01	0.06	0.002	0.002		
Phase 2						
2025	0.01	0.04	0.001	0.001		
2026	0.01	0.05	0.001	0.001		
Phase 3						
2026	0.02	0.08	0.002	0.002		
2027	0.02	0.10	0.003	0.003		
Phase 3 Affordable						
2027	0.01	0.06	0.002	0.002		
Phase 4						
2026	0.004	0.02	0.001	0.001		
2027	0.01	0.05	0.001	0.001		
Total Construction Emissions by Year						
2023	0.05	0.20	0.01	0.01	0.00	
2025	0.01	0.04	0.001	0.001	0.00	
2026	0.03	0.14	0.004	0.004	0.00	
2027	0.05	0.20	0.01	0.01	0.00	
	Total Construction Emissions					
Tons	0.13	0.58	0.02	0.02	0.00	
Pounds/Workdays	*Average Daily Emissions*				Workdays	
2023	0.57	2.45	0.08	0.08		**161**
2025	0.11	0.46	0.01	0.01		**157**
2026	0.34	1.47	0.05	0.05		**197**
2027	0.30	1.28	0.04	0.04		**313**
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**		
	Total Construction Emissions					
Pounds	1.31	5.66	0.17	0.17	0.00	
Average	0.32	1.40	0.04	0.04	0.00	828.00
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**		

Dewatering Pump Annual Emissions

	Phase by Year Unmitigated Emission in tons				Phase by Year Mitigated Emissions in Tons			
	ROG	NOX	PM10	PM2.5	ROG	NOX	PM10	PM2.5
Phase 1								
2023	0.1582	1.3284	0.0651	0.0651	0.0317	0.1376	0.0042	0.0042
Phase 1 Affordable								
2023	0.0688	0.5776	0.0283	0.0283	0.0138	0.0598	0.0018	0.0018
Phase 2								
2025	0.0365	0.3096	0.0129	0.0129	0.0084	0.0364	0.0011	0.0011
2026	0.0484	0.4104	0.0171	0.0171	0.0111	0.0482	0.0015	0.0015
Phase 3								
2026	0.0737	0.6263	0.0241	0.0241	0.0179	0.0774	0.0024	0.0024
2027	0.0938	0.7971	0.0306	0.0306	0.0227	0.0986	0.0030	0.0030
Phase 3 Affordable								
2027	0.0499	0.4256	0.0149	0.0149	0.0128	0.0555	0.0017	0.0017
Phase 4								
2026	0.0180	0.1533	0.0059	0.0059	0.0044	0.0190	0.0006	0.0006
2027	0.0442	0.3753	0.0144	0.0144	0.0107	0.0464	0.0014	0.0014

Emission Rates from CalEEMod User's Guide - Appendix D

Pumps, 84 hp, Load Factor = 0.74 Emissions in g/bhp hr

	TOG	ROG	NOX	PM10	PM2.5	CO2	CH4
2023	6.838	0.299	2.511	0.123	0.123	568.299	0.026
2024	6.391	0.279	2.352	0.107	0.107	568.299	0.025
2025	5.988	0.261	2.213	0.092	0.092	568.299	0.023
2026		0.2474	2.1028	0.0808	0.0808		
2027		0.2338	1.9926	0.0696	0.0696		
2028		0.2202	1.8824	0.0584	0.0584		
2029		0.2066	1.7722	0.0472	0.0472		
2030	4.416	0.193	1.662	0.036	0.036	568.299	0.017
Tier 4f		0.06	0.26	0.008	0.008		

CalEEMod check 2023 NOx	0.3441	lbs/hr
	2.513214	gm/bhp hr
CalEEMod check Tier 4f NOx	0.0356	lbs/hr
	0.2600	gm/bhp hr

Operational Criteria Air Pollutants

Unmitigated	ROG	NOX	Total PM10	Total PM2.5	
Year			Tons		
CalEEMod					
Area	12.08	0.16	0.08	0.08	tons
Energy	0.12	0.00	0.00	0.00	tons
Mobile	6.82	4.15	5.56	1.45	tons
Stationary	0.41	0.58	0.03	0.03	tons
Waste					tons
Water					tons
Cooling Towers			0.31	0.19	
Charbroilers	0.04		0.49	0.48	
TDM Reduction	0.00	0.00	0.00	0.00	tons
TOTAL	19.47	4.90	6.47	2.23	
			Existing Use Emissions		
CalEEMod	6.57	3.43	1.89	0.53	tons
			Net Annual Operational Emissions		
Tons/year	12.90	1.47	4.58	1.70	
Threshold - Tons/year	**10.0**	**10.0**	**15.0**	**10.0**	
			Average Daily Emissions		
Pounds Per Day	70.71	8.05	25.11	9.30	pounds
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**	

Operational Criteria Air Pollutants

Mitigated	ROG	NOX	Total PM10	Total PM2.5	
Year			Tons		
CalEEMod					
Area	10.86				tons
Energy	0.12				tons
Mobile	6.82				tons
Stationary	0.41				tons
Waste					tons
Water					tons
Cooling Towers					
Charbroilers	0.04				
TDM Reduction	-0.61				tons
TOTAL	17.64	0.00	0.00	0.00	
			Existing Use Emissions		
CalEEMod	6.57				tons
			Net Annual Operational Emissions		
Tons/year	11.07	0.00	0.00	0.00	
Threshold - Tons/year	**10.0**	**10.0**	**15.0**	**10.0**	

	Average Daily Emissions				
Pounds Per Day	60.66	0.00	0.00	0.00	pounds
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**	

Phase 1 R1+R2 Summary of Construction Traffic Emissions (EMFAC2021)

Pollutants	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	NBio- CO2	CH4	N2O	CO2e
YEAR					*Tons*							*Metric Tons*		
Criteria Pollutants														
2022-2023	0.2307	1.2712	2.7185	0.0122	0.6436	0.0921	0.7356	0.0968	0.0381	0.1349	1173.2135	0.0684	0.1251	1212.2045
2024	0.1982	1.0922	2.3356	0.0105	0.5529	0.0791	0.6320	0.0832	0.0327	0.1159	1007.9721	0.0588	0.1075	1041.4715
2025	0.0650	0.3581	0.7658	0.0034	0.1813	0.0259	0.2072	0.0273	0.0107	0.0380	330.4827	0.0193	0.0352	341.4661
Toxic Air Contaminants (1 Mile Trip Length)														
2022-2023	0.1965	0.3587	0.9526	0.0014	0.0588	0.0082	0.0670	0.0088	0.0036	0.0124	134.4492	0.0220	0.0185	140.5069
2024	0.1688	0.3082	0.8184	0.0012	0.0505	0.0071	0.0576	0.0076	0.0031	0.0107	115.5127	0.0189	0.0159	120.7172
2025	0.0554	0.1010	0.2683	0.0004	0.0166	0.0023	0.0189	0.0025	0.0010	0.0035	37.8730	0.0062	0.0052	39.5794

Phase 1 Affordable R6 Summary of Construction Traffic Emissions (EMFAC2021)

Pollutants	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	NBio- CO2	CH4	N2O	CO2e
YEAR					*Tons*							*Metric Tons*		
Criteria Pollutants														
2023	0.0414	0.1724	0.4734	0.0018	0.1107	0.0133	0.1241	0.0167	0.0054	0.0221	175.7239	0.0096	0.0167	180.9339
2024	0.0415	0.1729	0.4747	0.0018	0.1111	0.0134	0.1244	0.0167	0.0054	0.0221	176.2054	0.0096	0.0167	181.4296
2025	0.0072	0.0298	0.0817	0.0003	0.0191	0.0023	0.0214	0.0029	0.0009	0.0038	30.3304	0.0017	0.0029	31.2297
Toxic Air Contaminants (1 Mile Trip Length)														
2023	0.0357	0.0509	0.1658	0.0002	0.0103	0.0013	0.0115	0.0015	0.0005	0.0021	20.7045	0.0035	0.0028	21.6185
2024	0.0358	0.0511	0.1663	0.0002	0.0103	0.0013	0.0115	0.0015	0.0006	0.0021	20.7613	0.0036	0.0028	21.6777
2025	0.0062	0.0088	0.0286	0.0000	0.0018	0.0002	0.0020	0.0003	0.0001	0.0004	3.5737	0.0006	0.0005	3.7314

Phase 1 Infrastructure Summary of Construction Traffic Emissions (EMFAC2021)

Pollutants	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	NBio- CO2	CH4	N2O	CO2e
YEAR					*Tons*							*Metric Tons*		
Criteria Pollutants														
2024	0.0019	0.0024	0.0198	0.0001	0.0048	0.0003	0.0052	0.0007	0.0001	0.0008	4.8348	0.0002	0.0002	4.9033
2025	0.0029	0.0037	0.0310	0.0001	0.0076	0.0005	0.0081	0.0011	0.0002	0.0013	7.5641	0.0003	0.0003	7.6714
Toxic Air Contaminants (1 Mile Trip Length)														
2024	0.0017	0.0009	0.0069	0.0000	0.0005	0.0000	0.0005	0.0001	0.0000	0.0001	0.5868	0.0001	0.0001	0.6101
2025	0.0026	0.0014	0.0108	0.0000	0.0007	0.0001	0.0008	0.0001	0.0000	0.0001	0.9181	0.0002	0.0001	0.9545

Phase 2 O1+O2 Summary of Construction Traffic Emissions (EMFAC2021)

Pollutants	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	NBio- CO2	CH4	N2O	CO2e
YEAR					*Tons*							*Metric Tons*		
Criteria Pollutants														
2024	0.0200	0.1576	0.2440	0.0014	0.0624	0.0106	0.0731	0.0094	0.0044	0.0138	133.4086	0.0077	0.0157	138.2783
2025	0.1197	0.9431	1.4601	0.0082	0.3736	0.0637	0.4373	0.0562	0.0266	0.0828	798.2645	0.0461	0.0939	827.4028
2026	0.1197	0.9431	1.4601	0.0082	0.3736	0.0637	0.4373	0.0562	0.0266	0.0828	798.2645	0.0461	0.0939	827.4028
2027	0.1197	0.9431	1.4601	0.0082	0.3736	0.0637	0.4373	0.0562	0.0266	0.0828	798.2645	0.0461	0.0939	827.4028
2028	0.1200	0.9457	1.4641	0.0083	0.3746	0.0639	0.4385	0.0564	0.0267	0.0831	800.4515	0.0462	0.0942	829.6696
2029	0.0629	0.4961	0.7680	0.0043	0.1965	0.0335	0.2300	0.0296	0.0140	0.0436	419.9090	0.0243	0.0494	435.2365
Toxic Air Contaminants (1 Mile Trip Length)														
2024	0.0168	0.0497	0.0906	0.0002	0.0060	0.0010	0.0070	0.0009	0.0005	0.0014	16.9228	0.0024	0.0024	17.6994
2025	0.1005	0.2977	0.5423	0.0010	0.0357	0.0063	0.0419	0.0054	0.0027	0.0081	101.2596	0.0143	0.0144	105.9064
2026	0.1005	0.2977	0.5423	0.0010	0.0357	0.0063	0.0419	0.0054	0.0027	0.0081	101.2596	0.0143	0.0144	105.9064
2027	0.1005	0.2977	0.5423	0.0010	0.0357	0.0063	0.0419	0.0054	0.0027	0.0081	101.2596	0.0143	0.0144	105.9064
2028	0.1007	0.2985	0.5438	0.0010	0.0358	0.0063	0.0420	0.0054	0.0028	0.0081	101.5370	0.0144	0.0144	106.1965
2029	0.0528	0.1566	0.2853	0.0005	0.0188	0.0033	0.0221	0.0028	0.0014	0.0043	53.2653	0.0075	0.0076	55.7097

Phase 2 Infrastructure Summary of Construction Traffic Emissions (EMFAC2021)

Pollutants	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	NBio- CO2	CH4	N2O	CO2e
YEAR					*Tons*							*Metric Tons*		
Criteria Pollutants														
2026	0.0021	0.0024	0.0224	0.0001	0.0063	0.0004	0.0067	0.0009	0.0001	0.0011	5.8489	0.0002	0.0002	5.9228
2027	0.0034	0.0039	0.0359	0.0001	0.0100	0.0006	0.0107	0.0015	0.0002	0.0017	9.3966	0.0003	0.0004	9.5154
Toxic Air Contaminants (1 Mile Trip Length)														
2026	0.0019	0.0009	0.0078	0.0000	0.0006	0.0000	0.0006	0.0001	0.0000	0.0001	0.6999	0.0001	0.0001	0.7265
2027	0.0031	0.0015	0.0125	0.0000	0.0009	0.0001	0.0010	0.0001	0.0000	0.0002	1.1244	0.0002	0.0001	1.1671

Phase 3 R3, R4b, R5 Summary of Construction Traffic Emissions (EMFAC2021)

Pollutants	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	NBio- CO2	CH4	N2O	CO2e
YEAR					*Tons*							*Metric Tons*		
Criteria Pollutants														
2026	0.2303	0.8496	2.5556	0.0106	0.7231	0.0768	0.7999	0.1088	0.0302	0.1390	1007.7973	0.0462	0.0867	1034.7781
2027	0.2303	0.8496	2.5556	0.0106	0.7231	0.0768	0.7999	0.1088	0.0302	0.1390	1007.7973	0.0462	0.0867	1034.7781
2028	0.2309	0.8519	2.5626	0.0106	0.7251	0.0770	0.8021	0.1091	0.0303	0.1394	1010.5584	0.0463	0.0869	1037.6131
2029	0.2303	0.8496	2.5556	0.0106	0.7231	0.0768	0.7999	0.1088	0.0302	0.1390	1007.7973	0.0462	0.0867	1034.7781
2030	0.0132	0.0489	0.1470	0.0006	0.0416	0.0044	0.0460	0.0063	0.0017	0.0080	57.9829	0.0027	0.0050	59.5352
Toxic Air Contaminants (1 Mile Trip Length)														
2026	0.2034	0.2997	0.9247	0.0013	0.0688	0.0080	0.0768	0.0104	0.0034	0.0137	128.4399	0.0198	0.0167	133.9109
2027	0.2034	0.2997	0.9247	0.0013	0.0688	0.0080	0.0768	0.0104	0.0034	0.0137	128.4399	0.0198	0.0167	133.9109
2028	0.2040	0.3005	0.9272	0.0013	0.0690	0.0080	0.0771	0.0104	0.0034	0.0138	128.7918	0.0198	0.0167	134.2778
2029	0.2034	0.2997	0.9247	0.0013	0.0688	0.0080	0.0768	0.0104	0.0034	0.0137	128.4399	0.0198	0.0167	133.9109
2030	0.0117	0.0172	0.0532	0.0001	0.0040	0.0005	0.0044	0.0006	0.0002	0.0008	7.3897	0.0011	0.0010	7.7045

Phase 3 Affordable R4a Summary of Construction Traffic Emissions (EMFAC2021)

Pollutants	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	NBio- CO2	CH4	N2O	CO2e
YEAR					*Tons*							*Metric Tons*		
Criteria Pollutants														
2026	0.0059	0.0316	0.0683	0.0003	0.0205	0.0028	0.0233	0.0031	0.0011	0.0042	33.3575	0.0017	0.0034	34.4197
2027	0.0457	0.2453	0.5304	0.0027	0.1592	0.0215	0.1807	0.0239	0.0086	0.0326	259.0532	0.0134	0.0266	267.3018
2028	0.0351	0.1882	0.4069	0.0021	0.1221	0.0165	0.1386	0.0184	0.0066	0.0250	198.7257	0.0103	0.0204	205.0534
Toxic Air Contaminants (1 Mile Trip Length)														
2026	0.0052	0.0096	0.0244	0.0000	0.0019	0.0002	0.0021	0.0003	0.0001	0.0004	3.7647	0.0006	0.0005	3.9287
2027	0.0402	0.0745	0.1892	0.0003	0.0145	0.0019	0.0163	0.0022	0.0008	0.0030	29.2367	0.0044	0.0039	30.5102
2028	0.0308	0.0571	0.1451	0.0002	0.0111	0.0014	0.0125	0.0017	0.0006	0.0023	22.4281	0.0034	0.0030	23.4051

Phase 3 Infrastructure Summary of Construction Traffic Emissions (EMFAC2021)

Pollutants	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	NBio- CO2	CH4	N2O	CO2e
YEAR					*Tons*							*Metric Tons*		
Criteria Pollutants														
2027	0.0030	0.0037	0.0314	0.0001	0.0093	0.0006	0.0099	0.0014	0.0002	0.0016	8.7510	0.0003	0.0004	8.8676
Toxic Air Contaminants (1 Mile Trip Length)														
2027	0.0027	0.0015	0.0110	0.0000	0.0009	0.0001	0.0009	0.0001	0.0000	0.0002	1.0610	0.0002	0.0001	1.1012

Phase 4 O3+O4+O5, P1+P2 Summary of Construction Traffic Emissions (EMFAC2021)

Pollutants	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	NBio- CO2	CH4	N2O	CO2e
YEAR					*Tons*							*Metric Tons*		
Criteria Pollutants														
2026	0.1085	0.6534	1.2586	0.0066	0.3602	0.0491	0.4093	0.0542	0.0199	0.0741	633.2540	0.0308	0.0663	653.7869
2027	0.1440	0.8672	1.6705	0.0087	0.4780	0.0652	0.5433	0.0719	0.0264	0.0983	840.5008	0.0409	0.0880	867.7535
2028	0.1444	0.8696	1.6751	0.0088	0.4793	0.0654	0.5447	0.0721	0.0265	0.0986	842.8036	0.0411	0.0883	870.1309
2029	0.1440	0.8672	1.6705	0.0087	0.4780	0.0652	0.5433	0.0719	0.0264	0.0983	840.5008	0.0409	0.0880	867.7535
2030	0.1440	0.8672	1.6705	0.0087	0.4780	0.0652	0.5433	0.0719	0.0264	0.0983	840.5008	0.0409	0.0880	867.7535
2031	0.0430	0.2590	0.4989	0.0026	0.1428	0.0195	0.1622	0.0215	0.0079	0.0294	250.9989	0.0122	0.0263	259.1373
Toxic Air Contaminants (1 Mile Trip Length)														
2026	0.0939	0.2443	0.4802	0.0009	0.0359	0.0056	0.0415	0.0054	0.0024	0.0078	88.8832	0.0119	0.0122	92.8311
2027	0.1247	0.3242	0.6374	0.0012	0.0476	0.0074	0.0550	0.0072	0.0032	0.0103	117.9723	0.0158	0.0163	123.2121
2028	0.1250	0.3251	0.6391	0.0012	0.0478	0.0074	0.0552	0.0072	0.0032	0.0104	118.2955	0.0159	0.0163	123.5497
2029	0.1247	0.3242	0.6374	0.0012	0.0476	0.0074	0.0550	0.0072	0.0032	0.0103	117.9723	0.0158	0.0163	123.2121
2030	0.1247	0.3242	0.6374	0.0012	0.0476	0.0074	0.0550	0.0072	0.0032	0.0103	117.9723	0.0158	0.0163	123.2121
2031	0.0372	0.0968	0.1903	0.0004	0.0142	0.0022	0.0164	0.0021	0.0009	0.0031	35.2301	0.0047	0.0049	36.7949

Phase 4 Infrastructure Summary of Construction Traffic Emissions (EMFAC2021)

Pollutants	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	NBio- CO2	CH4	N2O	CO2e
YEAR					*Tons*							*Metric Tons*		
Criteria Pollutants														
2028	0.0019	0.0023	0.0198	0.0001	0.0062	0.0004	0.0066	0.0009	0.0001	0.0011	5.7247	0.0002	0.0002	5.7996
Toxic Air Contaminants (1 Mile Trip Length)														
2028	0.0018	0.0009	0.0069	0.0000	0.0006	0.0000	0.0006	0.0001	0.0000	0.0001	0.6936	0.0001	0.0001	0.7196

Google Middlefield, Const Phase 1, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Google Middlefield, Const Phase 1, District Util - Unmitigated

Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	838.00	Space	0.00	343,000.00	0
Apartments Mid Rise	750.00	Dwelling Unit	6.20	692,434.00	2145
Strip Mall	22.51	1000sqft	0.00	22,508.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2026
Utility Company	Silicon Valley Clean Energy				
CO2 Intensity (lb/MWhr)	2	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - As per supplied construction schedule
Land Use - As per supplied construction schedule
Construction Phase - As per supplied construction schedule
Off-road Equipment - As per supplied construction schedule
Off-road Equipment - As per supplied construction schedule
Off-road Equipment - As per supplied construction schedule
Off-road Equipment - As per supplied construction schedule
Off-road Equipment - As per supplied construction schedule
Off-road Equipment - As per supplied construction schedule
Off-road Equipment - As per supplied construction schedule

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Trips and VMT - 0 Trips for EMFAC2021 adjustments, demo = 5,848 tons asphalt, site prep - 2 water trucks

Demolition - As per supplied construction schedule - 149,337-sf building demo

Grading - grading = 201,721-cy export + 1,713-cy export geothermal bore

Architectural Coating - As per supplied construction schedule

Construction Off-road Equipment Mitigation - BMPs, Tier 4 I + Electrical equipment

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Parking	150	0
tblAreaCoating	Area_Nonresidential_Exterior	11254	0
tblAreaCoating	Area_Nonresidential_Interior	33762	0
tblAreaCoating	Area_Parking	20580	0
tblAreaCoating	Area_Residential_Exterior	467393	0
tblAreaCoating	Area_Residential_Interior	1402179	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	0
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	150	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	100	0
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	17.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	17.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	20.00	48.00
tblConstructionPhase	NumDays	230.00	395.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstructionPhase	NumDays	20.00	56.00
tblConstructionPhase	NumDays	20.00	56.00
tblConstructionPhase	NumDays	20.00	48.00
tblConstructionPhase	NumDays	10.00	16.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblFleetMix	HHD	6.3120e-003	0.00
tblFleetMix	HHD	6.3120e-003	0.00
tblFleetMix	HHD	6.3120e-003	0.00
tblFleetMix	LDA	0.57	0.00
tblFleetMix	LDA	0.57	0.00
tblFleetMix	LDA	0.57	0.00
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.2090e-003	0.00
tblFleetMix	LHD2	5.2090e-003	0.00
tblFleetMix	LHD2	5.2090e-003	0.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblFleetMix	MCY	0.02	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	2.6680e-003	0.00
tblFleetMix	MH	2.6680e-003	0.00
tblFleetMix	MH	2.6680e-003	0.00
tblFleetMix	MHD	8.0910e-003	0.00
tblFleetMix	MHD	8.0910e-003	0.00
tblFleetMix	MHD	8.0910e-003	0.00
tblFleetMix	OBUS	8.8400e-004	0.00
tblFleetMix	OBUS	8.8400e-004	0.00
tblFleetMix	OBUS	8.8400e-004	0.00
tblFleetMix	SBUS	8.8700e-004	0.00
tblFleetMix	SBUS	8.8700e-004	0.00
tblFleetMix	SBUS	8.8700e-004	0.00
tblFleetMix	UBUS	3.6400e-004	0.00
tblFleetMix	UBUS	3.6400e-004	0.00
tblFleetMix	UBUS	3.6400e-004	0.00
tblGrading	MaterialExported	0.00	203,434.00
tblLandUse	LandUseSquareFeet	335,200.00	343,000.00
tblLandUse	LandUseSquareFeet	750,000.00	692,434.00
tblLandUse	LandUseSquareFeet	22,510.00	22,508.00
tblLandUse	LotAcreage	7.54	0.00
tblLandUse	LotAcreage	19.74	6.20
tblLandUse	LotAcreage	0.52	0.00
tblOffRoadEquipment	HorsePower	78.00	0.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	HorsePower	81.00	0.00
tblOffRoadEquipment	HorsePower	231.00	0.00
tblOffRoadEquipment	HorsePower	46.00	0.00
tblOffRoadEquipment	HorsePower	63.00	0.00
tblOffRoadEquipment	HorsePower	63.00	0.00
tblOffRoadEquipment	HorsePower	63.00	0.00
tblOffRoadEquipment	HorsePower	78.00	0.00
tblOffRoadEquipment	HorsePower	78.00	0.00
tblOffRoadEquipment	HorsePower	9.00	0.00
tblOffRoadEquipment	HorsePower	81.00	0.00
tblOffRoadEquipment	HorsePower	231.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.30
tblOffRoadEquipment	UsageHours	8.00	2.70
tblOffRoadEquipment	UsageHours	7.00	10.30

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	UsageHours	8.00	7.90
tblOffRoadEquipment	UsageHours	8.00	7.90
tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	8.00	5.40
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	8.80
tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.80
tblOffRoadEquipment	UsageHours	8.00	10.80
tblOffRoadEquipment	UsageHours	8.00	8.10
tblOffRoadEquipment	UsageHours	8.00	2.20
tblTripsAndVMT	HaulingTripNumber	679.00	0.00
tblTripsAndVMT	HaulingTripNumber	25,429.00	0.00
tblTripsAndVMT	VendorTripNumber	140.00	0.00
tblTripsAndVMT	WorkerTripNumber	50.00	0.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblTripsAndVMT	WorkerTripNumber	103.00	0.00
tblTripsAndVMT	WorkerTripNumber	60.00	0.00
tblTripsAndVMT	WorkerTripNumber	691.00	0.00
tblTripsAndVMT	WorkerTripNumber	23.00	0.00
tblTripsAndVMT	WorkerTripNumber	138.00	0.00

2.0 Emissions Summary

2.1 Overall Construction

Google Middlefield, Const Phase 1, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.1131	1.1108	0.9886	1.7200e-003	0.0696	0.0566	0.1261	0.0105	0.0525	0.0630	0.0000	150.5859	150.5859	0.0431	0.0000	151.6640
2023	0.5564	5.2207	5.4412	0.0117	1.3914	0.2464	1.6379	0.7095	0.2331	0.9426	0.0000	1,023.0287	1,023.0287	0.2358	0.0000	1,028.9228
2024	0.1218	1.1138	1.5250	2.4100e-003	0.0000	0.0559	0.0559	0.0000	0.0534	0.0534	0.0000	208.5607	208.5607	0.0333	0.0000	209.3935
2025	5.0805	0.1774	0.2476	3.5000e-004	0.0000	8.4200e-003	8.4200e-003	0.0000	7.7800e-003	7.7800e-003	0.0000	31.1178	31.1178	9.4000e-003	0.0000	31.3529
Maximum	**5.0805**	**5.2207**	**5.4412**	**0.0117**	**1.3914**	**0.2464**	**1.6379**	**0.7095**	**0.2331**	**0.9426**	**0.0000**	**1,023.0287**	**1,023.0287**	**0.2358**	**0.0000**	**1,028.9228**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.0289	0.6496	1.1408	1.7200e-003	0.0271	5.0700e-003	0.0322	2.0500e-003	5.0700e-003	7.1200e-003	0.0000	150.5857	150.5857	0.0431	0.0000	151.6638
2023	0.2102	3.9565	7.1543	0.0117	0.5427	0.0260	0.5687	0.1384	0.0260	0.1644	0.0000	1,023.0275	1,023.0275	0.2358	0.0000	1,028.9215
2024	0.0481	0.9353	1.6172	2.4100e-003	0.0000	3.5000e-003	3.5000e-003	0.0000	3.5000e-003	3.5000e-003	0.0000	208.5604	208.5604	0.0333	0.0000	209.3933
2025	5.0711	0.1526	0.2639	3.5000e-004	0.0000	5.7000e-004	5.7000e-004	0.0000	5.7000e-004	5.7000e-004	0.0000	31.1177	31.1177	9.4000e-003	0.0000	31.3528
Maximum	**5.0711**	**3.9565**	**7.1543**	**0.0117**	**0.5427**	**0.0260**	**0.5687**	**0.1384**	**0.0260**	**0.1644**	**0.0000**	**1,023.0275**	**1,023.0275**	**0.2358**	**0.0000**	**1,028.9215**

Google Middlefield, Const Phase 1, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	8.75	25.30	-24.06	0.00	61.00	90.43	66.91	80.50	89.86	83.54	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	11-1-2022	1-31-2023	1.7896	1.0697
2	2-1-2023	4-30-2023	3.4338	2.3457
3	5-1-2023	7-31-2023	0.8417	0.6921
4	8-1-2023	10-31-2023	0.6927	0.5615
5	11-1-2023	1-31-2024	0.3259	0.2470
6	2-1-2024	4-30-2024	0.3036	0.2416
7	5-1-2024	7-31-2024	0.3103	0.2470
8	8-1-2024	10-31-2024	0.3103	0.2470
9	11-1-2024	1-31-2025	0.3018	0.2433
10	2-1-2025	4-30-2025	5.1619	5.1442
		Highest	5.1619	5.1442

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	11/1/2022	1/4/2023	6	56	
2	Site Preparation	Site Preparation	1/5/2023	1/23/2023	6	16	
3	Grading	Grading	1/24/2023	3/29/2023	6	56	
4	Trenching	Trenching	3/31/2023	10/4/2023	6	161	
5	Building Construction	Building Construction	10/5/2023	1/7/2025	6	395	
6	Paving	Paving	1/8/2025	3/4/2025	6	48	

Google Middlefield, Const Phase 1, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7	Architectural Coating	Architectural Coating	3/6/2025	4/30/2025	6	48	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 210

Acres of Paving: 0

Residential Indoor: 1,402,179; Residential Outdoor: 467,393; Non-Residential Indoor: 33,762; Non-Residential Outdoor: 11,254; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Aerial Lifts	2	6.50	0	0.31
Demolition	Air Compressors	2	4.20	0	0.48
Demolition	Concrete/Industrial Saws	2	2.70	0	0.73
Demolition	Excavators	4	7.90	158	0.38
Demolition	Forklifts	2	10.00	89	0.20
Demolition	Generator Sets	2	5.40	84	0.74
Demolition	Rubber Tired Dozers	2	10.00	247	0.40
Demolition	Sweepers/Scrubbers	2	6.50	64	0.46
Demolition	Tractors/Loaders/Backhoes	2	8.10	97	0.37
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Sweepers/Scrubbers	2	4.30	64	0.46
Site Preparation	Tractors/Loaders/Backhoes	4	8.10	97	0.37
Grading	Air Compressors	2	4.20	0	0.48
Grading	Bore/Drill Rigs	3	2.00	221	0.50
Grading	Bore/Drill Rigs	4	7.90	221	0.50
Grading	Bore/Drill Rigs	5	7.20	221	0.50
Grading	Excavators	4	7.90	158	0.38
Grading	Generator Sets	2	8.10	84	0.74
Grading	Graders	0	0.00	187	0.41

Google Middlefield, Const Phase 1, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Grading	Plate Compactors	3	1.90	8	0.43
Grading	Pumps	2	24.00	84	0.74
Grading	Rubber Tired Dozers	6	10.00	247	0.40
Grading	Skid Steer Loaders	2	2.70	65	0.37
Grading	Sweepers/Scrubbers	4	8.70	64	0.46
Grading	Tractors/Loaders/Backhoes	4	10.80	97	0.37
Trenching	Aerial Lifts	4	9.70	0	0.31
Trenching	Bore/Drill Rigs	5	2.00	221	0.50
Trenching	Cranes	2	10.30	0	0.29
Trenching	Forklifts	4	10.00	89	0.20
Trenching	Generator Sets	2	5.40	84	0.74
Trenching	Pumps	4	5.40	84	0.74
Trenching	Tractors/Loaders/Backhoes	3	1.30	97	0.37
Building Construction	Aerial Lifts	4	9.70	0	0.31
Building Construction	Cement and Mortar Mixers	2	7.10	0	0.56
Building Construction	Cranes	2	10.30	0	0.29
Building Construction	Forklifts	3	10.00	89	0.20
Building Construction	Generator Sets	2	5.40	84	0.74
Building Construction	Plate Compactors	2	0.90	8	0.43
Building Construction	Tractors/Loaders/Backhoes	2	0.80	97	0.37
Building Construction	Welders	2	2.20	0	0.45
Paving	Concrete/Industrial Saws	4	0.30	0	0.73
Paving	Pavers	0	0.00	130	0.42
Paving	Paving Equipment	0	0.00	132	0.36
Paving	Rollers	3	8.80	80	0.38
Paving	Tractors/Loaders/Backhoes	2	5.40	97	0.37
Architectural Coating	Air Compressors	2	8.30	0	0.48

Trips and VMT

Google Middlefield, Const Phase 1, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	20	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	6	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	41	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	24	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	19	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	9	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Alternative Fuel for Construction Equipment

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0696	0.0000	0.0696	0.0105	0.0000	0.0105	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1131	1.1108	0.9886	1.7200e-003		0.0566	0.0566		0.0525	0.0525	0.0000	150.5859	150.5859	0.0431	0.0000	151.6640

Google Middlefield, Const Phase 1, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.1131**	**1.1108**	**0.9886**	**1.7200e-003**	**0.0696**	**0.0566**	**0.1261**	**0.0105**	**0.0525**	**0.0630**	**0.0000**	**150.5859**	**150.5859**	**0.0431**	**0.0000**	**151.6640**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0271	0.0000	0.0271	2.0500e-003	0.0000	2.0500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0289	0.6496	1.1408	1.7200e-003		5.0700e-003	5.0700e-003		5.0700e-003	5.0700e-003	0.0000	150.5857	150.5857	0.0431	0.0000	151.6638

Google Middlefield, Const Phase 1, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0289**	**0.6496**	**1.1408**	**1.7200e-003**	**0.0271**	**5.0700e-003**	**0.0322**	**2.0500e-003**	**5.0700e-003**	**7.1200e-003**	**0.0000**	**150.5857**	**150.5857**	**0.0431**	**0.0000**	**151.6638**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.9400e-003	0.0000	3.9400e-003	6.0000e-004	0.0000	6.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.5900e-003	0.0538	0.0541	1.0000e-004		2.6300e-003	2.6300e-003		2.4400e-003	2.4400e-003	0.0000	8.5250	8.5250	2.4400e-003	0.0000	8.5860

Google Middlefield, Const Phase 1, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**5.5900e-003**	**0.0538**	**0.0541**	**1.0000e-004**	**3.9400e-003**	**2.6300e-003**	**6.5700e-003**	**6.0000e-004**	**2.4400e-003**	**3.0400e-003**	**0.0000**	**8.5250**	**8.5250**	**2.4400e-003**	**0.0000**	**8.5860**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.5400e-003	0.0000	1.5400e-003	1.2000e-004	0.0000	1.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6400e-003	0.0368	0.0646	1.0000e-004		2.9000e-004	2.9000e-004		2.9000e-004	2.9000e-004	0.0000	8.5250	8.5250	2.4400e-003	0.0000	8.5860

Google Middlefield, Const Phase 1, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**1.6400e-003**	**0.0368**	**0.0646**	**1.0000e-004**	**1.5400e-003**	**2.9000e-004**	**1.8300e-003**	**1.2000e-004**	**2.9000e-004**	**4.1000e-004**	**0.0000**	**8.5250**	**8.5250**	**2.4400e-003**	**0.0000**	**8.5860**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.3 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.4700e-003	0.0644	0.0888	1.2000e-004		3.3900e-003	3.3900e-003		3.1200e-003	3.1200e-003	0.0000	10.7848	10.7848	3.4900e-003	0.0000	10.8720

Google Middlefield, Const Phase 1, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**6.4700e-003**	**0.0644**	**0.0888**	**1.2000e-004**	**0.0000**	**3.3900e-003**	**3.3900e-003**	**0.0000**	**3.1200e-003**	**3.1200e-003**	**0.0000**	**10.7848**	**10.7848**	**3.4900e-003**	**0.0000**	**10.8720**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7900e-003	0.0561	0.0924	1.2000e-004		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004	0.0000	10.7848	10.7848	3.4900e-003	0.0000	10.8720

Google Middlefield, Const Phase 1, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**2.7900e-003**	**0.0561**	**0.0924**	**1.2000e-004**	**0.0000**	**6.6000e-004**	**6.6000e-004**	**0.0000**	**6.6000e-004**	**6.6000e-004**	**0.0000**	**10.7848**	**10.7848**	**3.4900e-003**	**0.0000**	**10.8720**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.3875	0.0000	1.3875	0.7089	0.0000	0.7089	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3396	3.2712	2.9717	7.1100e-003		0.1482	0.1482		0.1387	0.1387	0.0000	621.2812	621.2812	0.1655	0.0000	625.4181

Google Middlefield, Const Phase 1, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.3396**	**3.2712**	**2.9717**	**7.1100e-003**	**1.3875**	**0.1482**	**1.5357**	**0.7089**	**0.1387**	**0.8476**	**0.0000**	**621.2812**	**621.2812**	**0.1655**	**0.0000**	**625.4181**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.5411	0.0000	0.5411	0.1382	0.0000	0.1382	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1226	2.2987	4.2193	7.1100e-003		0.0186	0.0186		0.0186	0.0186	0.0000	621.2805	621.2805	0.1655	0.0000	625.4174

Google Middlefield, Const Phase 1, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.1226**	**2.2987**	**4.2193**	**7.1100e-003**	**0.5411**	**0.0186**	**0.5597**	**0.1382**	**0.0186**	**0.1568**	**0.0000**	**621.2805**	**621.2805**	**0.1655**	**0.0000**	**625.4174**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.5 Trenching - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1734	1.5452	1.9614	3.8300e-003		0.0767	0.0767		0.0741	0.0741	0.0000	332.6236	332.6236	0.0563	0.0000	334.0311
Total	**0.1734**	**1.5452**	**1.9614**	**3.8300e-003**		**0.0767**	**0.0767**		**0.0741**	**0.0741**	**0.0000**	**332.6236**	**332.6236**	**0.0563**	**0.0000**	**334.0311**

Google Middlefield, Const Phase 1, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0716	1.3414	2.3918	3.8300e-003		5.6400e-003	5.6400e-003		5.6400e-003	5.6400e-003	0.0000	332.6232	332.6232	0.0563	0.0000	334.0307
Total	**0.0716**	**1.3414**	**2.3918**	**3.8300e-003**		**5.6400e-003**	**5.6400e-003**		**5.6400e-003**	**5.6400e-003**	**0.0000**	**332.6232**	**332.6232**	**0.0563**	**0.0000**	**334.0307**

Google Middlefield, Const Phase 1, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0314	0.2861	0.3653	5.8000e-004		0.0155	0.0155		0.0148	0.0148	0.0000	49.8142	49.8142	8.0600e-003	0.0000	50.0156
Total	**0.0314**	**0.2861**	**0.3653**	**5.8000e-004**		**0.0155**	**0.0155**		**0.0148**	**0.0148**	**0.0000**	**49.8142**	**49.8142**	**8.0600e-003**	**0.0000**	**50.0156**

Unmitigated Construction Off-Site

Google Middlefield, Const Phase 1, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0115	0.2234	0.3863	5.8000e-004		8.4000e-004	8.4000e-004		8.4000e-004	8.4000e-004	0.0000	49.8141	49.8141	8.0600e-003	0.0000	50.0155
Total	**0.0115**	**0.2234**	**0.3863**	**5.8000e-004**		**8.4000e-004**	**8.4000e-004**		**8.4000e-004**	**8.4000e-004**	**0.0000**	**49.8141**	**49.8141**	**8.0600e-003**	**0.0000**	**50.0155**

Mitigated Construction Off-Site

Google Middlefield, Const Phase 1, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1218	1.1138	1.5250	2.4100e-003		0.0559	0.0559		0.0534	0.0534	0.0000	208.5607	208.5607	0.0333	0.0000	209.3935
Total	**0.1218**	**1.1138**	**1.5250**	**2.4100e-003**		**0.0559**	**0.0559**		**0.0534**	**0.0534**	**0.0000**	**208.5607**	**208.5607**	**0.0333**	**0.0000**	**209.3935**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Google Middlefield, Const Phase 1, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0481	0.9353	1.6172	2.4100e-003		3.5000e-003	3.5000e-003		3.5000e-003	3.5000e-003	0.0000	208.5604	208.5604	0.0333	0.0000	209.3933
Total	**0.0481**	**0.9353**	**1.6172**	**2.4100e-003**		**3.5000e-003**	**3.5000e-003**		**3.5000e-003**	**3.5000e-003**	**0.0000**	**208.5604**	**208.5604**	**0.0333**	**0.0000**	**209.3933**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Google Middlefield, Const Phase 1, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.1600e-003	0.0199	0.0291	5.0000e-005		9.2000e-004	9.2000e-004		8.8000e-004	8.8000e-004	0.0000	3.9854	3.9854	6.3000e-004	0.0000	4.0011
Total	**2.1600e-003**	**0.0199**	**0.0291**	**5.0000e-005**		**9.2000e-004**	**9.2000e-004**		**8.8000e-004**	**8.8000e-004**	**0.0000**	**3.9854**	**3.9854**	**6.3000e-004**	**0.0000**	**4.0011**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Google Middlefield, Const Phase 1, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.2000e-004	0.0179	0.0309	5.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	3.9854	3.9854	6.3000e-004	0.0000	4.0011
Total	**9.2000e-004**	**0.0179**	**0.0309**	**5.0000e-005**		**7.0000e-005**	**7.0000e-005**		**7.0000e-005**	**7.0000e-005**	**0.0000**	**3.9854**	**3.9854**	**6.3000e-004**	**0.0000**	**4.0011**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Google Middlefield, Const Phase 1, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.7 Paving - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0151	0.1575	0.2185	3.1000e-004		7.5000e-003	7.5000e-003		6.9000e-003	6.9000e-003	0.0000	27.1324	27.1324	8.7800e-003	0.0000	27.3518
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0151**	**0.1575**	**0.2185**	**3.1000e-004**		**7.5000e-003**	**7.5000e-003**		**6.9000e-003**	**6.9000e-003**	**0.0000**	**27.1324**	**27.1324**	**8.7800e-003**	**0.0000**	**27.3518**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.9300e-003	0.1348	0.2330	3.1000e-004		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	27.1323	27.1323	8.7800e-003	0.0000	27.3517
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**6.9300e-003**	**0.1348**	**0.2330**	**3.1000e-004**		**5.0000e-004**	**5.0000e-004**		**5.0000e-004**	**5.0000e-004**	**0.0000**	**27.1323**	**27.1323**	**8.7800e-003**	**0.0000**	**27.3517**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.8 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.0632					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.0632**					**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.0632					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.0632**					**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Date: 12/2/2021 3:09 PM

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Google Middlefield, Const Phase 1, City Util - Affordable R6 - Unmitigated

Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	170.00	Space	0.00	34,000.00	0
Apartments Mid Rise	170.00	Dwelling Unit	1.64	155,000.00	486

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2026
Utility Company	Silicon Valley Clean Energy				
CO2 Intensity (lb/MWhr)	2	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - As per supplied construction schedule

Land Use - As per supplied construction schedule

Construction Phase - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Trips and VMT - 0 Trips EMFAC2021 adjustments, 500 tons asphalt demo, site prep = 1 water truck

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Demolition - building demo = 25,570-sf

Grading - grading = 23,536-cy export

Architectural Coating - As per supplied construction schedule

Construction Off-road Equipment Mitigation - BMPs, Tier 4 Interim + Electrical

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Residential_Exterior	104625	115425
tblAreaCoating	Area_Residential_Interior	313875	346275
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	10.00	42.00
tblConstructionPhase	NumDays	200.00	344.00
tblConstructionPhase	NumDays	20.00	49.00
tblConstructionPhase	NumDays	4.00	49.00
tblConstructionPhase	NumDays	10.00	42.00
tblConstructionPhase	NumDays	2.00	14.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblFireplaces	NumberGas	25.50	28.80
tblFireplaces	NumberNoFireplace	6.80	7.68
tblFireplaces	NumberWood	28.90	32.64
tblGrading	MaterialExported	0.00	23,536.00
tblLandUse	LandUseSquareFeet	68,000.00	34,000.00
tblLandUse	LandUseSquareFeet	170,000.00	155,000.00
tblLandUse	LotAcreage	1.53	0.00
tblLandUse	LotAcreage	4.47	1.64
tblOffRoadEquipment	HorsePower	78.00	0.00
tblOffRoadEquipment	HorsePower	81.00	0.00
tblOffRoadEquipment	HorsePower	231.00	0.00
tblOffRoadEquipment	HorsePower	46.00	0.00
tblOffRoadEquipment	HorsePower	63.00	0.00
tblOffRoadEquipment	HorsePower	63.00	0.00
tblOffRoadEquipment	HorsePower	63.00	0.00
tblOffRoadEquipment	HorsePower	78.00	0.00
tblOffRoadEquipment	HorsePower	78.00	0.00
tblOffRoadEquipment	HorsePower	9.00	0.00
tblOffRoadEquipment	HorsePower	81.00	0.00
tblOffRoadEquipment	HorsePower	231.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	6.00	8.30
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	2.70
tblOffRoadEquipment	UsageHours	6.00	10.30
tblOffRoadEquipment	UsageHours	6.00	7.50
tblOffRoadEquipment	UsageHours	8.00	5.40
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	6.60
tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.80
tblOffRoadEquipment	UsageHours	8.00	8.10
tblOffRoadEquipment	UsageHours	7.00	10.80
tblOffRoadEquipment	UsageHours	8.00	5.40
tblOffRoadEquipment	UsageHours	8.00	8.10
tblOffRoadEquipment	UsageHours	8.00	2.20
tblSolidWaste	SolidWasteGenerationRate	78.20	88.32
tblTripsAndVMT	HaulingTripNumber	116.00	0.00
tblTripsAndVMT	HaulingTripNumber	2,942.00	0.00
tblTripsAndVMT	VendorTripNumber	24.00	0.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblTripsAndVMT	WorkerTripNumber	30.00	0.00
tblTripsAndVMT	WorkerTripNumber	8.00	0.00
tblTripsAndVMT	WorkerTripNumber	48.00	0.00
tblTripsAndVMT	WorkerTripNumber	25.00	0.00
tblTripsAndVMT	WorkerTripNumber	137.00	0.00
tblTripsAndVMT	WorkerTripNumber	13.00	0.00
tblTripsAndVMT	WorkerTripNumber	27.00	0.00
tblWater	IndoorWaterUseRate	11,076,184.36	12,509,572.92
tblWater	OutdoorWaterUseRate	6,982,811.88	7,886,469.88
tblWoodstoves	NumberCatalytic	3.40	3.84
tblWoodstoves	NumberNoncatalytic	3.40	3.84

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.2687	2.5195	2.6991	4.9800e-003	0.6159	0.1233	0.7392	0.3115	0.1163	0.4278	0.0000	433.9000	433.9000	0.0967	0.0000	436.3168
2024	0.0602	0.5561	0.7581	1.1900e-003	0.0000	0.0280	0.0280	0.0000	0.0266	0.0266	0.0000	102.7953	102.7953	0.0178	0.0000	103.2405
2025	1.1001	0.0197	0.0273	4.0000e-005	0.0000	9.4000e-004	9.4000e-004	0.0000	8.6000e-004	8.6000e-004	0.0000	3.3916	3.3916	1.1000e-003	0.0000	3.4190
Maximum	**1.1001**	**2.5195**	**2.6991**	**4.9800e-003**	**0.6159**	**0.1233**	**0.7392**	**0.3115**	**0.1163**	**0.4278**	**0.0000**	**433.9000**	**433.9000**	**0.0967**	**0.0000**	**436.3168**

Date: 12/2/2021 3:21 PM

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.0886	1.8158	3.1960	4.9800e-003	0.2402	0.0122	0.2524	0.0607	0.0122	0.0730	0.0000	433.8995	433.8995	0.0967	0.0000	436.3163
2024	0.0239	0.4651	0.8041	1.1900e-003	0.0000	1.7400e-003	1.7400e-003	0.0000	1.7400e-003	1.7400e-003	0.0000	102.7952	102.7952	0.0178	0.0000	103.2404
2025	1.0991	0.0169	0.0291	4.0000e-005	0.0000	6.0000e-005	6.0000e-005	0.0000	6.0000e-005	6.0000e-005	0.0000	3.3915	3.3915	1.1000e-003	0.0000	3.4190
Maximum	**1.0991**	**1.8158**	**3.1960**	**4.9800e-003**	**0.2402**	**0.0122**	**0.2524**	**0.0607**	**0.0122**	**0.0730**	**0.0000**	**433.8995**	**433.8995**	**0.0967**	**0.0000**	**436.3163**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**15.22**	**25.76**	**-15.63**	**0.00**	**61.00**	**90.79**	**66.90**	**80.50**	**90.25**	**83.58**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2023	3-31-2023	1.0277	0.7140
2	4-1-2023	6-30-2023	1.1865	0.7539
3	7-1-2023	9-30-2023	0.3657	0.2806
4	10-1-2023	12-31-2023	0.2123	0.1594
5	1-1-2024	3-31-2024	0.1535	0.1221
6	4-1-2024	6-30-2024	0.1535	0.1221
7	7-1-2024	9-30-2024	0.1552	0.1235
8	10-1-2024	12-31-2024	0.1536	0.1208
9	1-1-2025	3-31-2025	1.1198	1.1159
		Highest	1.1865	1.1159

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2023	2/27/2023	6	49	
2	Site Preparation	Site Preparation	2/27/2023	3/14/2023	6	14	
3	Grading	Grading	3/15/2023	5/10/2023	6	49	
4	Trenching/Foundation	Trenching	5/12/2023	10/21/2023	6	140	
5	Building Construction	Building Construction	10/22/2023	11/26/2024	6	344	
6	Paving	Paving	11/27/2024	1/14/2025	6	42	
7	Architectural Coating	Architectural Coating	1/15/2025	3/4/2025	6	42	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 91.88

Acres of Paving: 0

Residential Indoor: 313,875; Residential Outdoor: 104,625; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 2,040

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Aerial Lifts	1	6.50	0	0.31
Demolition	Air Compressors	1	4.20	0	0.48
Demolition	Concrete/Industrial Saws	1	2.70	0	0.73
Demolition	Excavators	4	7.90	158	0.38
Demolition	Forklifts	1	10.00	89	0.20
Demolition	Generator Sets	1	5.40	84	0.74
Demolition	Rubber Tired Dozers	1	10.00	247	0.40
Demolition	Sweepers/Scrubbers	1	6.50	64	0.46

Google Middlefield, Const Phase 1, City Util - Affordable R6 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Demolition	Tractors/Loaders/Backhoes	1	8.10	97	0.37
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Sweepers/Scrubbers	1	4.30	64	0.46
Site Preparation	Tractors/Loaders/Backhoes	2	8.10	97	0.37
Grading	Air Compressors	1	4.20	0	0.48
Grading	Bore/Drill Rigs	2	2.00	221	0.50
Grading	Bore/Drill Rigs	2	4.00	221	0.50
Grading	Excavators	2	7.90	158	0.38
Grading	Generator Sets	1	8.10	84	0.74
Grading	Graders	0	0.00	187	0.41
Grading	Plate Compactors	2	1.90	8	0.43
Grading	Pumps	1	24.00	84	0.74
Grading	Rubber Tired Dozers	3	10.00	247	0.40
Grading	Skid Steer Loaders	1	3.50	65	0.37
Grading	Sweepers/Scrubbers	2	8.70	64	0.46
Grading	Tractors/Loaders/Backhoes	2	10.80	97	0.37
Trenching/Foundation	Aerial Lifts	2	9.70	0	0.31
Trenching/Foundation	Cranes	1	10.30	0	0.29
Trenching/Foundation	Forklifts	2	10.00	89	0.20
Trenching/Foundation	Generator Sets	1	5.40	84	0.74
Trenching/Foundation	Pumps	2	5.40	84	0.74
Trenching/Foundation	Tractors/Loaders/Backhoes	2	1.00	97	0.37
Building Construction	Aerial Lifts	2	9.70	0	0.31
Building Construction	Cement and Mortar Mixers	1	7.10	0	0.56
Building Construction	Cranes	1	10.30	0	0.29
Building Construction	Forklifts	2	7.50	89	0.20
Building Construction	Generator Sets	1	5.40	84	0.74
Building Construction	Plate Compactors	1	0.90	8	0.43

Google Middlefield, Const Phase 1, City Util - Affordable R6 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Building Construction	Tractors/Loaders/Backhoes	1	0.80	97	0.37
Building Construction	Welders	1	2.20	0	0.45
Paving	Cement and Mortar Mixers	0	0.00	9	0.56
Paving	Concrete/Industrial Saws	2	0.40	0	0.73
Paving	Pavers	0	0.00	130	0.42
Paving	Paving Equipment	0	0.00	132	0.36
Paving	Rollers	2	6.60	80	0.38
Paving	Tractors/Loaders/Backhoes	1	5.40	97	0.37
Architectural Coating	Air Compressors	1	8.30	0	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	12	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	19	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching/Foundation	10	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Alternative Fuel for Construction Equipment

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Google Middlefield, Const Phase 1, City Util - Affordable R6 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0126	0.0000	0.0126	1.9100e-003	0.0000	1.9100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0548	0.5145	0.5997	1.0400e-003		0.0252	0.0252		0.0233	0.0233	0.0000	91.5739	91.5739	0.0270	0.0000	92.2490
Total	**0.0548**	**0.5145**	**0.5997**	**1.0400e-003**	**0.0126**	**0.0252**	**0.0377**	**1.9100e-003**	**0.0233**	**0.0252**	**0.0000**	**91.5739**	**91.5739**	**0.0270**	**0.0000**	**92.2490**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Google Middlefield, Const Phase 1, City Util - Affordable R6 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.9100e-003	0.0000	4.9100e-003	3.7000e-004	0.0000	3.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0164	0.4105	0.7169	1.0400e-003		2.7500e-003	2.7500e-003		2.7500e-003	2.7500e-003	0.0000	91.5738	91.5738	0.0270	0.0000	92.2489
Total	**0.0164**	**0.4105**	**0.7169**	**1.0400e-003**	**4.9100e-003**	**2.7500e-003**	**7.6600e-003**	**3.7000e-004**	**2.7500e-003**	**3.1200e-003**	**0.0000**	**91.5738**	**91.5738**	**0.0270**	**0.0000**	**92.2489**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.3 Site Preparation - 2023

Google Middlefield, Const Phase 1, City Util - Affordable R6 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8300e-003	0.0282	0.0389	5.0000e-005		1.4800e-003	1.4800e-003		1.3700e-003	1.3700e-003	0.0000	4.7184	4.7184	1.5300e-003	0.0000	4.7565
Total	**2.8300e-003**	**0.0282**	**0.0389**	**5.0000e-005**	**0.0000**	**1.4800e-003**	**1.4800e-003**	**0.0000**	**1.3700e-003**	**1.3700e-003**	**0.0000**	**4.7184**	**4.7184**	**1.5300e-003**	**0.0000**	**4.7565**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

Google Middlefield, Const Phase 1, City Util - Affordable R6 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2200e-003	0.0246	0.0404	5.0000e-005		2.9000e-004	2.9000e-004		2.9000e-004	2.9000e-004	0.0000	4.7183	4.7183	1.5300e-003	0.0000	4.7565
Total	**1.2200e-003**	**0.0246**	**0.0404**	**5.0000e-005**	**0.0000**	**2.9000e-004**	**2.9000e-004**	**0.0000**	**2.9000e-004**	**2.9000e-004**	**0.0000**	**4.7183**	**4.7183**	**1.5300e-003**	**0.0000**	**4.7565**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.4 Grading - 2023

Unmitigated Construction On-Site

Google Middlefield, Const Phase 1, City Util - Affordable R6 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.6033	0.0000	0.6033	0.3096	0.0000	0.3096	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1325	1.2791	1.1497	2.4000e-003		0.0599	0.0599		0.0562	0.0562	0.0000	209.2752	209.2752	0.0522	0.0000	210.5790
Total	**0.1325**	**1.2791**	**1.1497**	**2.4000e-003**	**0.6033**	**0.0599**	**0.6632**	**0.3096**	**0.0562**	**0.3658**	**0.0000**	**209.2752**	**209.2752**	**0.0522**	**0.0000**	**210.5790**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

Google Middlefield, Const Phase 1, City Util - Affordable R6 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2353	0.0000	0.2353	0.0604	0.0000	0.0604	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0419	0.8176	1.4649	2.4000e-003		7.0700e-003	7.0700e-003		7.0700e-003	7.0700e-003	0.0000	209.2750	209.2750	0.0522	0.0000	210.5787
Total	**0.0419**	**0.8176**	**1.4649**	**2.4000e-003**	**0.2353**	**7.0700e-003**	**0.2424**	**0.0604**	**7.0700e-003**	**0.0674**	**0.0000**	**209.2750**	**209.2750**	**0.0522**	**0.0000**	**210.5787**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.5 Trenching/Foundation - 2023

Unmitigated Construction On-Site

Google Middlefield, Const Phase 1, City Util - Affordable R6 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0660	0.5833	0.7648	1.2500e-003		0.0305	0.0305		0.0296	0.0296	0.0000	108.4069	108.4069	0.0128	0.0000	108.7261
Total	**0.0660**	**0.5833**	**0.7648**	**1.2500e-003**		**0.0305**	**0.0305**		**0.0296**	**0.0296**	**0.0000**	**108.4069**	**108.4069**	**0.0128**	**0.0000**	**108.7261**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

Google Middlefield, Const Phase 1, City Util - Affordable R6 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0244	0.4738	0.8193	1.2500e-003		1.7700e-003	1.7700e-003		1.7700e-003	1.7700e-003	0.0000	108.4068	108.4068	0.0128	0.0000	108.7259
Total	**0.0244**	**0.4738**	**0.8193**	**1.2500e-003**		**1.7700e-003**	**1.7700e-003**		**1.7700e-003**	**1.7700e-003**	**0.0000**	**108.4068**	**108.4068**	**0.0128**	**0.0000**	**108.7259**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Google Middlefield, Const Phase 1, City Util - Affordable R6 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Off-Road	0.0126	0.1144	0.1461	2.3000e-004		6.1900e-003	6.1900e-003		5.9100e-003	5.9100e-003	0.0000	19.9257	19.9257	3.2200e-003	0.0000	20.0062
Total	**0.0126**	**0.1144**	**0.1461**	**2.3000e-004**		**6.1900e-003**	**6.1900e-003**		**5.9100e-003**	**5.9100e-003**	**0.0000**	**19.9257**	**19.9257**	**3.2200e-003**	**0.0000**	**20.0062**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Google Middlefield, Const Phase 1, City Util - Affordable R6 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-Road	4.5900e-003	0.0894	0.1545	2.3000e-004		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	19.9256	19.9256	3.2200e-003	0.0000	20.0062
Total	**4.5900e-003**	**0.0894**	**0.1545**	**2.3000e-004**		**3.3000e-004**	**3.3000e-004**		**3.3000e-004**	**3.3000e-004**	**0.0000**	**19.9256**	**19.9256**	**3.2200e-003**	**0.0000**	**20.0062**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0551	0.5037	0.6896	1.0900e-003		0.0253	0.0253		0.0241	0.0241	0.0000	94.3173	94.3173	0.0151	0.0000	94.6939

Google Middlefield, Const Phase 1, City Util - Affordable R6 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0551**	**0.5037**	**0.6896**	**1.0900e-003**		**0.0253**	**0.0253**		**0.0241**	**0.0241**	**0.0000**	**94.3173**	**94.3173**	**0.0151**	**0.0000**	**94.6939**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0217	0.4230	0.7313	1.0900e-003		1.5800e-003	1.5800e-003		1.5800e-003	1.5800e-003	0.0000	94.3171	94.3171	0.0151	0.0000	94.6938
Total	**0.0217**	**0.4230**	**0.7313**	**1.0900e-003**		**1.5800e-003**	**1.5800e-003**		**1.5800e-003**	**1.5800e-003**	**0.0000**	**94.3171**	**94.3171**	**0.0151**	**0.0000**	**94.6938**

Google Middlefield, Const Phase 1, City Util - Affordable R6 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.7 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.0600e-003	0.0524	0.0684	1.0000e-004		2.6700e-003	2.6700e-003		2.4600e-003	2.4600e-003	0.0000	8.4781	8.4781	2.7400e-003	0.0000	8.5466
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.0600e-003**	**0.0524**	**0.0684**	**1.0000e-004**		**2.6700e-003**	**2.6700e-003**		**2.4600e-003**	**2.4600e-003**	**0.0000**	**8.4781**	**8.4781**	**2.7400e-003**	**0.0000**	**8.5466**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.1600e-003	0.0421	0.0728	1.0000e-004		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	8.4781	8.4781	2.7400e-003	0.0000	8.5466
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.1600e-003**	**0.0421**	**0.0728**	**1.0000e-004**		**1.6000e-004**	**1.6000e-004**		**1.6000e-004**	**1.6000e-004**	**0.0000**	**8.4781**	**8.4781**	**2.7400e-003**	**0.0000**	**8.5466**

Google Middlefield, Const Phase 1, City Util - Affordable R6 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.7 Paving - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.8900e-003	0.0197	0.0273	4.0000e-005		9.4000e-004	9.4000e-004		8.6000e-004	8.6000e-004	0.0000	3.3916	3.3916	1.1000e-003	0.0000	3.4190
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.8900e-003**	**0.0197**	**0.0273**	**4.0000e-005**		**9.4000e-004**	**9.4000e-004**		**8.6000e-004**	**8.6000e-004**	**0.0000**	**3.3916**	**3.3916**	**1.1000e-003**	**0.0000**	**3.4190**

Google Middlefield, Const Phase 1, City Util - Affordable R6 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.7000e-004	0.0169	0.0291	4.0000e-005		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	3.3915	3.3915	1.1000e-003	0.0000	3.4190
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.7000e-004**	**0.0169**	**0.0291**	**4.0000e-005**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**	**0.0000**	**3.3915**	**3.3915**	**1.1000e-003**	**0.0000**	**3.4190**

Google Middlefield, Const Phase 1, City Util - Affordable R6 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.8 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.0982					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.0982**					**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Google Middlefield, Const Phase 1, City Util - Affordable R6 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.0982					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.0982**					**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

Google Middlefield, Const Phase 1, City Util - Affordable R6 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Google Middlefield, Const Phase 1, District Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Google Middlefield, Const Phase 1, District Util - Infrastructure - Unmitigated

Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	1.00	Acre	1.00	43,560.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2026
Utility Company	Silicon Valley Clean Energy				
CO2 Intensity (lb/MWhr)	2	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - As per supplied construction schedule

Land Use - As per supplied construction schedule

Construction Phase - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - provided construction data

Trips and VMT - 0 trips EMFAC2021 adjustements, Infrastructure - 1 striper truck

Grading -

Architectural Coating - As per supplied construction schedule

Construction Off-road Equipment Mitigation - BMPs, Tier 4 I+Electrical

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12

Google Middlefield, Const Phase 1, District Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	2.00	136.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblOffRoadEquipment	HorsePower	9.00	0.00
tblOffRoadEquipment	HorsePower	81.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	7.00	2.70
tblTripsAndVMT	WorkerTripNumber	25.00	0.00

Google Middlefield, Const Phase 1, District Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2024	0.0224	0.2106	0.3036	4.9000e-004	0.0000	0.0100	0.0100	0.0000	9.4100e-003	9.4100e-003	0.0000	42.3634	42.3634	0.0106	0.0000	42.6278
2025	0.0332	0.3069	0.4752	7.7000e-004	0.0000	0.0140	0.0140	0.0000	0.0132	0.0132	0.0000	66.3307	66.3307	0.0165	0.0000	66.7433
Maximum	**0.0332**	**0.3069**	**0.4752**	**7.7000e-004**	**0.0000**	**0.0140**	**0.0140**	**0.0000**	**0.0132**	**0.0132**	**0.0000**	**66.3307**	**66.3307**	**0.0165**	**0.0000**	**66.7433**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2024	7.8300e-003	0.1984	0.3401	4.9000e-004	0.0000	9.5000e-004	9.5000e-004	0.0000	9.5000e-004	9.5000e-004	0.0000	42.3633	42.3633	0.0106	0.0000	42.6277
2025	0.0123	0.3107	0.5326	7.7000e-004	0.0000	1.4900e-003	1.4900e-003	0.0000	1.4900e-003	1.4900e-003	0.0000	66.3306	66.3306	0.0165	0.0000	66.7432
Maximum	**0.0123**	**0.3107**	**0.5326**	**7.7000e-004**	**0.0000**	**1.4900e-003**	**1.4900e-003**	**0.0000**	**1.4900e-003**	**1.4900e-003**	**0.0000**	**66.3306**	**66.3306**	**0.0165**	**0.0000**	**66.7432**

Google Middlefield, Const Phase 1, District Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	63.84	1.62	-12.07	0.00	0.00	89.85	89.85	0.00	89.19	89.19	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	10-31-2024	1-30-2025	0.3390	0.3069
2	1-31-2025	4-29-2025	0.2353	0.2235
		Highest	0.3390	0.3069

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Infrastructure	Grading	10/31/2024	4/7/2025	6	136	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 1

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating –

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Infrastructure	Cement and Mortar Mixers	1	10.70	0	0.56
Infrastructure	Concrete/Industrial Saws	1	1.40	0	0.73
Infrastructure	Generator Sets	1	5.40	84	0.74
Infrastructure	Graders	0	0.00	187	0.41
Infrastructure	Pavers	2	7.20	130	0.42
Infrastructure	Plate Compactors	2	5.80	8	0.43

Google Middlefield, Const Phase 1, District Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Infrastructure	Rollers	1	10.50	80	0.38
Infrastructure	Rubber Tired Dozers	0	0.00	247	0.40
Infrastructure	Sweepers/Scrubbers	1	1.20	64	0.46
Infrastructure	Tractors/Loaders/Backhoes	1	2.70	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Infrastructure	10	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Alternative Fuel for Construction Equipment

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Infrastructure - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0224	0.2106	0.3036	4.9000e-004		0.0100	0.0100		9.4100e-003	9.4100e-003	0.0000	42.3634	42.3634	0.0106	0.0000	42.6278

Google Middlefield, Const Phase 1, District Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0224**	**0.2106**	**0.3036**	**4.9000e-004**	**0.0000**	**0.0100**	**0.0100**	**0.0000**	**9.4100e-003**	**9.4100e-003**	**0.0000**	**42.3634**	**42.3634**	**0.0106**	**0.0000**	**42.6278**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.8300e-003	0.1984	0.3401	4.9000e-004		9.5000e-004	9.5000e-004		9.5000e-004	9.5000e-004	0.0000	42.3633	42.3633	0.0106	0.0000	42.6277

Google Middlefield, Const Phase 1, District Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**7.8300e-003**	**0.1984**	**0.3401**	**4.9000e-004**	**0.0000**	**9.5000e-004**	**9.5000e-004**	**0.0000**	**9.5000e-004**	**9.5000e-004**	**0.0000**	**42.3633**	**42.3633**	**0.0106**	**0.0000**	**42.6277**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Infrastructure - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0332	0.3069	0.4752	7.7000e-004		0.0140	0.0140		0.0132	0.0132	0.0000	66.3307	66.3307	0.0165	0.0000	66.7433

Google Middlefield, Const Phase 1, District Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0332**	**0.3069**	**0.4752**	**7.7000e-004**	**0.0000**	**0.0140**	**0.0140**	**0.0000**	**0.0132**	**0.0132**	**0.0000**	**66.3307**	**66.3307**	**0.0165**	**0.0000**	**66.7433**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0123	0.3107	0.5326	7.7000e-004		1.4900e-003	1.4900e-003		1.4900e-003	1.4900e-003	0.0000	66.3306	66.3306	0.0165	0.0000	66.7432

Google Middlefield, Const Phase 1, District Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0123**	**0.3107**	**0.5326**	**7.7000e-004**	**0.0000**	**1.4900e-003**	**1.4900e-003**	**0.0000**	**1.4900e-003**	**1.4900e-003**	**0.0000**	**66.3306**	**66.3306**	**0.0165**	**0.0000**	**66.7432**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Google Middlefield, Const Phase 2, District Util - O1,O2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Google Middlefield, Const Phase 2, District Util - O1,O2 - Unmitigated

Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	631.94	1000sqft	8.68	631,939.00	0
Enclosed Parking with Elevator	700.00	Space	0.00	218,576.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2029
Utility Company	Silicon Valley Clean Energy				
CO2 Intensity (lb/MWhr)	2	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - As per supplied construction schedule

Land Use - As per supplied construction schedule

Construction Phase - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Trips and VMT - 0 trips for emfac2021 adjustments, demo = 2,831 ton of asphalt, site prep = 1 water truck

Google Middlefield, Const Phase 2, District Util - O1,O2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Demolition - existing buiding demo = 264,881-sf

Grading - grading = 230,046-cy + 34,000-cy export + 1,713-cy export geothermal bore

Architectural Coating - As per supplied construction schedule

Construction Off-road Equipment Mitigation - BMPs, Tier 4 I+Electrical

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	315970	323690
tblAreaCoating	Area_Nonresidential_Interior	947909	971069
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	15.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00

Google Middlefield, Const Phase 2, District Util - O1,O2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	20.00	128.00
tblConstructionPhase	NumDays	230.00	1,000.00
tblConstructionPhase	NumDays	20.00	147.00
tblConstructionPhase	NumDays	20.00	103.00
tblConstructionPhase	NumDays	20.00	128.00
tblConstructionPhase	NumDays	10.00	38.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblGrading	MaterialExported	0.00	265,759.00
tblLandUse	LandUseSquareFeet	631,940.00	631,939.00
tblLandUse	LandUseSquareFeet	280,000.00	218,576.00
tblLandUse	LotAcreage	14.51	8.68
tblLandUse	LotAcreage	6.30	0.00
tblOffRoadEquipment	HorsePower	78.00	0.00
tblOffRoadEquipment	HorsePower	81.00	0.00
tblOffRoadEquipment	HorsePower	231.00	0.00
tblOffRoadEquipment	HorsePower	130.00	0.00
tblOffRoadEquipment	HorsePower	46.00	0.00
tblOffRoadEquipment	HorsePower	63.00	0.00
tblOffRoadEquipment	HorsePower	63.00	0.00
tblOffRoadEquipment	HorsePower	63.00	0.00
tblOffRoadEquipment	HorsePower	78.00	0.00
tblOffRoadEquipment	HorsePower	78.00	0.00
tblOffRoadEquipment	HorsePower	9.00	0.00
tblOffRoadEquipment	HorsePower	81.00	0.00
tblOffRoadEquipment	HorsePower	231.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.30
tblOffRoadEquipment	UsageHours	8.00	8.20
tblOffRoadEquipment	UsageHours	7.00	10.30
tblOffRoadEquipment	UsageHours	8.00	10.50
tblOffRoadEquipment	UsageHours	8.00	9.50
tblOffRoadEquipment	UsageHours	8.00	7.50
tblOffRoadEquipment	UsageHours	8.00	5.40
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	1.90
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	2.10
tblOffRoadEquipment	UsageHours	8.00	6.60
tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	8.00	9.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.80
tblOffRoadEquipment	UsageHours	8.00	10.80
tblOffRoadEquipment	UsageHours	8.00	8.10
tblOffRoadEquipment	UsageHours	8.00	2.20
tblSolidWaste	SolidWasteGenerationRate	587.70	602.06
tblTripsAndVMT	HaulingTripNumber	1,205.00	0.00
tblTripsAndVMT	HaulingTripNumber	33,220.00	0.00
tblTripsAndVMT	VendorTripNumber	139.00	0.00
tblTripsAndVMT	WorkerTripNumber	33.00	0.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblTripsAndVMT	WorkerTripNumber	8.00	0.00
tblTripsAndVMT	WorkerTripNumber	83.00	0.00
tblTripsAndVMT	WorkerTripNumber	50.00	0.00
tblTripsAndVMT	WorkerTripNumber	294.00	0.00
tblTripsAndVMT	WorkerTripNumber	18.00	0.00
tblTripsAndVMT	WorkerTripNumber	59.00	0.00
tblWater	IndoorWaterUseRate	112,317,064.71	115,061,273.78
tblWater	OutdoorWaterUseRate	68,839,491.27	70,521,425.86

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2024	0.0565	0.5208	0.6367	1.1100e-003	0.0461	0.0249	0.0711	6.9800e-003	0.0231	0.0301	0.0000	97.0518	97.0518	0.0286	0.0000	97.7663
2025	0.6858	6.3298	7.3775	0.0166	1.9974	0.2701	2.2675	0.9906	0.2525	1.2431	0.0000	1,446.6484	1,446.6484	0.3869	0.0000	1,456.3207
2026	0.1750	1.5647	2.2669	4.1100e-003	0.0000	0.0695	0.0695	0.0000	0.0668	0.0668	0.0000	356.0066	356.0066	0.0568	0.0000	357.4274
2027	0.0564	0.5186	0.7579	1.2000e-003	0.0000	0.0240	0.0240	0.0000	0.0229	0.0229	0.0000	103.9523	103.9523	0.0164	0.0000	104.3622
2028	3.1848	0.7529	1.0802	1.6600e-003	0.0000	0.0352	0.0352	0.0000	0.0332	0.0332	0.0000	144.0009	144.0009	0.0294	0.0000	144.7346
2029	0.2646	0.2734	0.3995	6.3000e-004	0.0000	0.0126	0.0126	0.0000	0.0121	0.0121	0.0000	54.7992	54.7992	8.6400e-003	0.0000	55.0152
Maximum	**3.1848**	**6.3298**	**7.3775**	**0.0166**	**1.9974**	**0.2701**	**2.2675**	**0.9906**	**0.2525**	**1.2431**	**0.0000**	**1,446.6484**	**1,446.6484**	**0.3869**	**0.0000**	**1,456.3207**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2024	0.0174	0.4349	0.7595	1.1100e-003	0.0180	2.9200e-003	0.0209	1.3600e-003	2.9200e-003	4.2800e-003	0.0000	97.0517	97.0517	0.0286	0.0000	97.7662
2025	0.2823	5.5867	10.1848	0.0166	0.7790	0.0358	0.8148	0.1932	0.0358	0.2290	0.0000	1,446.6467	1,446.6467	0.3869	0.0000	1,456.3189
2026	0.0784	1.4900	2.6261	4.1100e-003	0.0000	6.0000e-003	6.0000e-003	0.0000	6.0000e-003	6.0000e-003	0.0000	356.0062	356.0062	0.0568	0.0000	357.4270
2027	0.0240	0.4662	0.8060	1.2000e-003	0.0000	1.7400e-003	1.7400e-003	0.0000	1.7400e-003	1.7400e-003	0.0000	103.9522	103.9522	0.0164	0.0000	104.3621
2028	3.1401	0.6651	1.1500	1.6600e-003	0.0000	2.4900e-003	2.4900e-003	0.0000	2.4900e-003	2.4900e-003	0.0000	144.0007	144.0007	0.0294	0.0000	144.7344
2029	0.2475	0.2458	0.4249	6.3000e-004	0.0000	9.2000e-004	9.2000e-004	0.0000	9.2000e-004	9.2000e-004	0.0000	54.7991	54.7991	8.6400e-003	0.0000	55.0152
Maximum	**3.1401**	**5.5867**	**10.1848**	**0.0166**	**0.7790**	**0.0358**	**0.8148**	**0.1932**	**0.0358**	**0.2290**	**0.0000**	**1,446.6467**	**1,446.6467**	**0.3869**	**0.0000**	**1,456.3189**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**14.32**	**10.76**	**-27.42**	**0.00**	**61.00**	**88.57**	**65.85**	**80.50**	**87.85**	**82.64**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**11-1-2024**	**1-31-2025**	0.8501	0.6859
2	**2-1-2025**	**4-30-2025**	2.5481	2.1078
3	**5-1-2025**	**7-31-2025**	3.1649	2.5851
4	**8-1-2025**	**10-31-2025**	0.6180	0.5658
5	**11-1-2025**	**1-31-2026**	0.6180	0.5658

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6	**2-1-2026**	**4-30-2026**	0.5978	0.5473
7	**5-1-2026**	**7-31-2026**	0.6941	0.6264
8	**8-1-2026**	**10-31-2026**	0.1449	0.1235
9	**11-1-2026**	**1-31-2027**	0.1449	0.1235
10	**2-1-2027**	**4-30-2027**	0.1401	0.1195
11	**5-1-2027**	**7-31-2027**	0.1449	0.1235
12	**8-1-2027**	**10-31-2027**	0.1449	0.1235
13	**11-1-2027**	**1-31-2028**	0.1449	0.1235
14	**2-1-2028**	**4-30-2028**	0.1417	0.1208
15	**5-1-2028**	**7-31-2028**	0.2773	0.2313
16	**8-1-2028**	**10-31-2028**	2.0136	1.9693
17	**11-1-2028**	**1-31-2029**	1.7332	1.7118
18	**2-1-2029**	**4-30-2029**	0.1401	0.1195
19	**5-1-2029**	**7-31-2029**	0.1134	0.0966
		Highest	3.1649	2.5851

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	11/1/2024	4/21/2025	6	147	
2	Site Preparation	Site Preparation	2/15/2025	3/31/2025	6	38	
3	Grading	Grading	3/17/2025	7/14/2025	6	103	
4	Trenching/Foundation	Trenching	7/2/2025	7/21/2026	6	330	
5	Building Construction	Building Construction	5/2/2026	7/11/2029	6	1000	
6	Paving	Paving	5/16/2028	10/11/2028	6	128	
7	Architectural Coating	Architectural Coating	8/15/2028	1/10/2029	6	128	

Acres of Grading (Site Preparation Phase): 0

Date: 12/2/2021 3:37 PM

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Acres of Grading (Grading Phase): 289.69

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 947,909; Non-Residential Outdoor: 315,970; Striped Parking Area: 13,115

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Aerial Lifts	1	6.50	0	0.31
Demolition	Air Compressors	1	4.20	0	0.48
Demolition	Concrete/Industrial Saws	3	8.20	0	0.73
Demolition	Excavators	3	10.50	158	0.38
Demolition	Forklifts	1	10.00	89	0.20
Demolition	Generator Sets	1	5.40	84	0.74
Demolition	Rubber Tired Dozers	1	10.00	247	0.40
Demolition	Sweepers/Scrubbers	1	6.50	64	0.46
Demolition	Tractors/Loaders/Backhoes	1	8.10	97	0.37
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Sweepers/Scrubbers	1	4.30	64	0.46
Site Preparation	Tractors/Loaders/Backhoes	2	8.10	97	0.37
Grading	Air Compressors	1	4.20	0	0.48
Grading	Bore/Drill Rigs	2	2.00	221	0.50
Grading	Bore/Drill Rigs	5	9.50	221	0.50
Grading	Bore/Drill Rigs	4	6.60	221	0.50
Grading	Excavators	5	9.50	158	0.38
Grading	Generator Sets	1	8.10	84	0.74
Grading	Graders	0	0.00	187	0.41
Grading	Plate Compactors	2	1.90	8	0.43
Grading	Pumps	1	24.00	84	0.74
Grading	Rubber Tired Dozers	5	9.00	247	0.40

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Grading	Skid Steer Loaders	1	3.60	65	0.37
Grading	Sweepers/Scrubbers	2	8.70	64	0.46
Grading	Tractors/Loaders/Backhoes	4	10.80	97	0.37
Trenching/Foundation	Aerial Lifts	4	7.70	0	0.31
Trenching/Foundation	Bore/Drill Rigs	4	1.60	221	0.50
Trenching/Foundation	Cranes	1	10.30	0	0.29
Trenching/Foundation	Forklifts	4	10.00	89	0.20
Trenching/Foundation	Generator Sets	1	5.40	84	0.74
Trenching/Foundation	Pumps	4	5.40	84	0.74
Trenching/Foundation	Tractors/Loaders/Backhoes	2	1.00	97	0.37
Building Construction	Aerial Lifts	2	9.70	0	0.31
Building Construction	Cement and Mortar Mixers	1	7.10	0	0.56
Building Construction	Cranes	1	10.30	0	0.29
Building Construction	Forklifts	2	7.50	89	0.20
Building Construction	Generator Sets	1	5.40	84	0.74
Building Construction	Plate Compactors	1	0.90	8	0.43
Building Construction	Tractors/Loaders/Backhoes	1	0.80	97	0.37
Building Construction	Welders	1	2.20	0	0.45
Paving	Concrete/Industrial Saws	2	0.30	0	0.73
Paving	Pavers	1	1.90	0	0.42
Paving	Paving Equipment	0	0.00	132	0.36
Paving	Rollers	1	2.10	80	0.38
Paving	Rollers	2	6.60	80	0.38
Paving	Tractors/Loaders/Backhoes	1	5.40	97	0.37
Architectural Coating	Air Compressors	1	8.30	0	0.48

Trips and VMT

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	13	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	33	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching/Foundation	20	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Alternative Fuel for Construction Equipment

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0461	0.0000	0.0461	6.9800e-003	0.0000	6.9800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0565	0.5208	0.6367	1.1100e-003		0.0249	0.0249		0.0231	0.0231	0.0000	97.0518	97.0518	0.0286	0.0000	97.7663
Total	**0.0565**	**0.5208**	**0.6367**	**1.1100e-003**	**0.0461**	**0.0249**	**0.0711**	**6.9800e-003**	**0.0231**	**0.0301**	**0.0000**	**97.0518**	**97.0518**	**0.0286**	**0.0000**	**97.7663**

Date: 12/2/2021 3:37 PM

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0180	0.0000	0.0180	1.3600e-003	0.0000	1.3600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0174	0.4349	0.7595	1.1100e-003		2.9200e-003	2.9200e-003		2.9200e-003	2.9200e-003	0.0000	97.0517	97.0517	0.0286	0.0000	97.7662
Total	**0.0174**	**0.4349**	**0.7595**	**1.1100e-003**	**0.0180**	**2.9200e-003**	**0.0209**	**1.3600e-003**	**2.9200e-003**	**4.2800e-003**	**0.0000**	**97.0517**	**97.0517**	**0.0286**	**0.0000**	**97.7662**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Demolition - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0843	0.0000	0.0843	0.0128	0.0000	0.0128	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0959	0.8683	1.1529	2.0200e-003		0.0399	0.0399		0.0369	0.0369	0.0000	177.3300	177.3300	0.0522	0.0000	178.6340
Total	**0.0959**	**0.8683**	**1.1529**	**2.0200e-003**	**0.0843**	**0.0399**	**0.1241**	**0.0128**	**0.0369**	**0.0497**	**0.0000**	**177.3300**	**177.3300**	**0.0522**	**0.0000**	**178.6340**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0329	0.0000	0.0329	2.4900e-003	0.0000	2.4900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0318	0.7945	1.3876	2.0200e-003		5.3300e-003	5.3300e-003		5.3300e-003	5.3300e-003	0.0000	177.3298	177.3298	0.0522	0.0000	178.6338
Total	**0.0318**	**0.7945**	**1.3876**	**2.0200e-003**	**0.0329**	**5.3300e-003**	**0.0382**	**2.4900e-003**	**5.3300e-003**	**7.8200e-003**	**0.0000**	**177.3298**	**177.3298**	**0.0522**	**0.0000**	**178.6338**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.3 Site Preparation - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6900e-003	0.0663	0.1052	1.5000e-004		2.9300e-003	2.9300e-003		2.6900e-003	2.6900e-003	0.0000	12.8237	12.8237	4.1500e-003	0.0000	12.9274
Total	**6.6900e-003**	**0.0663**	**0.1052**	**1.5000e-004**	**0.0000**	**2.9300e-003**	**2.9300e-003**	**0.0000**	**2.6900e-003**	**2.6900e-003**	**0.0000**	**12.8237**	**12.8237**	**4.1500e-003**	**0.0000**	**12.9274**

Date: 12/2/2021 3:37 PM

Google Middlefield, Const Phase 2, District Util - O1,O2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.3200e-003	0.0667	0.1097	1.5000e-004		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004	0.0000	12.8237	12.8237	4.1500e-003	0.0000	12.9273
Total	**3.3200e-003**	**0.0667**	**0.1097**	**1.5000e-004**	**0.0000**	**7.9000e-004**	**7.9000e-004**	**0.0000**	**7.9000e-004**	**7.9000e-004**	**0.0000**	**12.8237**	**12.8237**	**4.1500e-003**	**0.0000**	**12.9273**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.4 Grading - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.9132	0.0000	1.9132	0.9778	0.0000	0.9778	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4586	4.2894	4.5213	0.0114		0.1788	0.1788		0.1661	0.1661	0.0000	996.4063	996.4063	0.2889	0.0000	1,003.6298
Total	**0.4586**	**4.2894**	**4.5213**	**0.0114**	**1.9132**	**0.1788**	**2.0919**	**0.9778**	**0.1661**	**1.1439**	**0.0000**	**996.4063**	**996.4063**	**0.2889**	**0.0000**	**1,003.6298**

Date: 12/2/2021 3:37 PM

Google Middlefield, Const Phase 2, District Util - O1,O2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.7461	0.0000	0.7461	0.1907	0.0000	0.1907	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1904	3.6559	6.7927	0.0114		0.0253	0.0253		0.0253	0.0253	0.0000	996.4051	996.4051	0.2889	0.0000	1,003.6286
Total	**0.1904**	**3.6559**	**6.7927**	**0.0114**	**0.7461**	**0.0253**	**0.7714**	**0.1907**	**0.0253**	**0.2160**	**0.0000**	**996.4051**	**996.4051**	**0.2889**	**0.0000**	**1,003.6286**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.5 Trenching/Foundation - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1246	1.1058	1.5980	3.0000e-003		0.0485	0.0485		0.0468	0.0468	0.0000	260.0885	260.0885	0.0416	0.0000	261.1296
Total	**0.1246**	**1.1058**	**1.5980**	**3.0000e-003**		**0.0485**	**0.0485**		**0.0468**	**0.0468**	**0.0000**	**260.0885**	**260.0885**	**0.0416**	**0.0000**	**261.1296**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0567	1.0697	1.8948	3.0000e-003		4.3900e-003	4.3900e-003		4.3900e-003	4.3900e-003	0.0000	260.0882	260.0882	0.0416	0.0000	261.1292
Total	**0.0567**	**1.0697**	**1.8948**	**3.0000e-003**		**4.3900e-003**	**4.3900e-003**		**4.3900e-003**	**4.3900e-003**	**0.0000**	**260.0882**	**260.0882**	**0.0416**	**0.0000**	**261.1292**

Mitigated Construction Off-Site

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.5 Trenching/Foundation - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1373	1.2185	1.7609	3.3100e-003		0.0535	0.0535		0.0515	0.0515	0.0000	286.5943	286.5943	0.0459	0.0000	287.7415
Total	**0.1373**	**1.2185**	**1.7609**	**3.3100e-003**		**0.0535**	**0.0535**		**0.0515**	**0.0515**	**0.0000**	**286.5943**	**286.5943**	**0.0459**	**0.0000**	**287.7415**

Unmitigated Construction Off-Site

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0624	1.1788	2.0879	3.3100e-003		4.8400e-003	4.8400e-003		4.8400e-003	4.8400e-003	0.0000	286.5940	286.5940	0.0459	0.0000	287.7411
Total	**0.0624**	**1.1788**	**2.0879**	**3.3100e-003**		**4.8400e-003**	**4.8400e-003**		**4.8400e-003**	**4.8400e-003**	**0.0000**	**286.5940**	**286.5940**	**0.0459**	**0.0000**	**287.7411**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Google Middlefield, Const Phase 2, District Util - O1,O2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0377	0.3463	0.5061	8.0000e-004		0.0160	0.0160		0.0153	0.0153	0.0000	69.4123	69.4123	0.0110	0.0000	69.6860
Total	**0.0377**	**0.3463**	**0.5061**	**8.0000e-004**		**0.0160**	**0.0160**		**0.0153**	**0.0153**	**0.0000**	**69.4123**	**69.4123**	**0.0110**	**0.0000**	**69.6860**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0160	0.3113	0.5382	8.0000e-004		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003	0.0000	69.4122	69.4122	0.0110	0.0000	69.6859
Total	**0.0160**	**0.3113**	**0.5382**	**8.0000e-004**		**1.1600e-003**	**1.1600e-003**		**1.1600e-003**	**1.1600e-003**	**0.0000**	**69.4122**	**69.4122**	**0.0110**	**0.0000**	**69.6859**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0564	0.5186	0.7579	1.2000e-003		0.0240	0.0240		0.0229	0.0229	0.0000	103.9523	103.9523	0.0164	0.0000	104.3622
Total	**0.0564**	**0.5186**	**0.7579**	**1.2000e-003**		**0.0240**	**0.0240**		**0.0229**	**0.0229**	**0.0000**	**103.9523**	**103.9523**	**0.0164**	**0.0000**	**104.3622**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Google Middlefield, Const Phase 2, District Util - O1,O2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0240	0.4662	0.8060	1.2000e-003		1.7400e-003	1.7400e-003		1.7400e-003	1.7400e-003	0.0000	103.9522	103.9522	0.0164	0.0000	104.3621
Total	**0.0240**	**0.4662**	**0.8060**	**1.2000e-003**		**1.7400e-003**	**1.7400e-003**		**1.7400e-003**	**1.7400e-003**	**0.0000**	**103.9522**	**103.9522**	**0.0164**	**0.0000**	**104.3621**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Google Middlefield, Const Phase 2, District Util - O1,O2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0564	0.5186	0.7579	1.2000e-003		0.0240	0.0240		0.0229	0.0229	0.0000	103.9523	103.9523	0.0164	0.0000	104.3622
Total	**0.0564**	**0.5186**	**0.7579**	**1.2000e-003**		**0.0240**	**0.0240**		**0.0229**	**0.0229**	**0.0000**	**103.9523**	**103.9523**	**0.0164**	**0.0000**	**104.3622**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Google Middlefield, Const Phase 2, District Util - O1,O2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0240	0.4662	0.8060	1.2000e-003		1.7400e-003	1.7400e-003		1.7400e-003	1.7400e-003	0.0000	103.9522	103.9522	0.0164	0.0000	104.3621
Total	**0.0240**	**0.4662**	**0.8060**	**1.2000e-003**		**1.7400e-003**	**1.7400e-003**		**1.7400e-003**	**1.7400e-003**	**0.0000**	**103.9522**	**103.9522**	**0.0164**	**0.0000**	**104.3621**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Google Middlefield, Const Phase 2, District Util - O1,O2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0297	0.2734	0.3995	6.3000e-004		0.0126	0.0126		0.0121	0.0121	0.0000	54.7992	54.7992	8.6400e-003	0.0000	55.0152
Total	**0.0297**	**0.2734**	**0.3995**	**6.3000e-004**		**0.0126**	**0.0126**		**0.0121**	**0.0121**	**0.0000**	**54.7992**	**54.7992**	**8.6400e-003**	**0.0000**	**55.0152**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

Google Middlefield, Const Phase 2, District Util - O1,O2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0126	0.2458	0.4249	6.3000e-004		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	54.7991	54.7991	8.6400e-003	0.0000	55.0152
Total	**0.0126**	**0.2458**	**0.4249**	**6.3000e-004**		**9.2000e-004**	**9.2000e-004**		**9.2000e-004**	**9.2000e-004**	**0.0000**	**54.7991**	**54.7991**	**8.6400e-003**	**0.0000**	**55.0152**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.7 Paving - 2028

Unmitigated Construction On-Site

Google Middlefield, Const Phase 2, District Util - O1,O2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0225	0.2343	0.3224	4.6000e-004		0.0112	0.0112		0.0103	0.0103	0.0000	40.0486	40.0486	0.0130	0.0000	40.3724
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0225**	**0.2343**	**0.3224**	**4.6000e-004**		**0.0112**	**0.0112**		**0.0103**	**0.0103**	**0.0000**	**40.0486**	**40.0486**	**0.0130**	**0.0000**	**40.3724**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

Google Middlefield, Const Phase 2, District Util - O1,O2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0102	0.1990	0.3440	4.6000e-004		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	40.0485	40.0485	0.0130	0.0000	40.3723
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0102**	**0.1990**	**0.3440**	**4.6000e-004**		**7.4000e-004**	**7.4000e-004**		**7.4000e-004**	**7.4000e-004**	**0.0000**	**40.0485**	**40.0485**	**0.0130**	**0.0000**	**40.3723**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.8 Architectural Coating - 2028

Unmitigated Construction On-Site

Google Middlefield, Const Phase 2, District Util - O1,O2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	3.1059					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.1059**					**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Google Middlefield, Const Phase 2, District Util - O1,O2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Archit. Coating	3.1059					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.1059**					**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.8 Architectural Coating - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Google Middlefield, Const Phase 2, District Util - O1,O2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Archit. Coating	0.2349					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.2349**					**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2349					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Google Middlefield, Const Phase 2, District Util - O1,O2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.2349**					**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Google Middlefield, Const Phase 2, District Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Google Middlefield, Const Phase 2, District Util - Infrastructure - Unmitigated

Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	1.00	Acre	1.00	43,560.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2027
Utility Company	Silicon Valley Clean Energy				
CO2 Intensity (lb/MWhr)	2	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - As per supplied construction schedule

Land Use -

Construction Phase - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Trips and VMT - 0 trip emfac2021 adjustments, infra - 1 stripper truck

Grading -

Architectural Coating -

Construction Off-road Equipment Mitigation - BMPs, Tier 4 I + Electrical

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12

Google Middlefield, Const Phase 2, District Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	2.00	136.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblOffRoadEquipment	HorsePower	78.00	0.00
tblOffRoadEquipment	HorsePower	9.00	0.00

Google Middlefield, Const Phase 2, District Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	HorsePower	81.00	0.00
tblOffRoadEquipment	HorsePower	46.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	7.00	2.70
tblTripsAndVMT	WorkerTripNumber	33.00	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2026	0.0338	0.3024	0.4661	7.8000e-004	0.0000	0.0134	0.0134	0.0000	0.0128	0.0128	0.0000	67.1889	67.1889	0.0113	0.0000	67.4715
2027	0.0546	0.4885	0.7529	1.2600e-003	0.0000	0.0216	0.0216	0.0000	0.0207	0.0207	0.0000	108.5360	108.5360	0.0183	0.0000	108.9924
Maximum	**0.0546**	**0.4885**	**0.7529**	**1.2600e-003**	**0.0000**	**0.0216**	**0.0216**	**0.0000**	**0.0207**	**0.0207**	**0.0000**	**108.5360**	**108.5360**	**0.0183**	**0.0000**	**108.9924**

Mitigated Construction

Google Middlefield, Const Phase 2, District Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2026	0.0132	0.3008	0.5173	7.8000e-004	0.0000	1.3300e-003	1.3300e-003	0.0000	1.3300e-003	1.3300e-003	0.0000	67.1889	67.1889	0.0113	0.0000	67.4714
2027	0.0213	0.4860	0.8356	1.2600e-003	0.0000	2.1500e-003	2.1500e-003	0.0000	2.1500e-003	2.1500e-003	0.0000	108.5358	108.5358	0.0183	0.0000	108.9922
Maximum	**0.0213**	**0.4860**	**0.8356**	**1.2600e-003**	**0.0000**	**2.1500e-003**	**2.1500e-003**	**0.0000**	**2.1500e-003**	**2.1500e-003**	**0.0000**	**108.5358**	**108.5358**	**0.0183**	**0.0000**	**108.9922**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**60.98**	**0.53**	**-10.98**	**0.00**	**0.00**	**90.04**	**90.04**	**0.00**	**89.62**	**89.62**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**11-1-2026**	**1-31-2027**	0.5098	0.4762
2	**2-1-2027**	**4-30-2027**	0.3713	0.3468
		Highest	0.5098	0.4762

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	11/1/2026	4/8/2027	6	136	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 1

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating –

Google Middlefield, Const Phase 2, District Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Air Compressors	1	2.50	0	0.48
Grading	Cement and Mortar Mixers	1	10.70	0	0.56
Grading	Concrete/Industrial Saws	1	1.40	0	0.73
Grading	Generator Sets	1	5.40	84	0.74
Grading	Graders	0	0.00	187	0.41
Grading	Pavers	2	7.10	130	0.42
Grading	Plate Compactors	2	5.80	8	0.43
Grading	Pumps	1	14.10	84	0.74
Grading	Rollers	1	10.50	80	0.38
Grading	Rubber Tired Dozers	0	0.00	247	0.40
Grading	Sweepers/Scrubbers	1	1.20	64	0.46
Grading	Tractors/Loaders/Backhoes	1	2.70	97	0.37
Grading	Welders	1	2.60	0	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	13	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Alternative Fuel for Construction Equipment

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Google Middlefield, Const Phase 2, District Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Grading - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0338	0.3024	0.4661	7.8000e-004		0.0134	0.0134		0.0128	0.0128	0.0000	67.1889	67.1889	0.0113	0.0000	67.4715
Total	**0.0338**	**0.3024**	**0.4661**	**7.8000e-004**	**0.0000**	**0.0134**	**0.0134**	**0.0000**	**0.0128**	**0.0128**	**0.0000**	**67.1889**	**67.1889**	**0.0113**	**0.0000**	**67.4715**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Google Middlefield, Const Phase 2, District Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0132	0.3008	0.5173	7.8000e-004		1.3300e-003	1.3300e-003		1.3300e-003	1.3300e-003	0.0000	67.1889	67.1889	0.0113	0.0000	67.4714
Total	**0.0132**	**0.3008**	**0.5173**	**7.8000e-004**	**0.0000**	**1.3300e-003**	**1.3300e-003**	**0.0000**	**1.3300e-003**	**1.3300e-003**	**0.0000**	**67.1889**	**67.1889**	**0.0113**	**0.0000**	**67.4714**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Grading - 2027

Google Middlefield, Const Phase 2, District Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0546	0.4885	0.7529	1.2600e-003		0.0216	0.0216		0.0207	0.0207	0.0000	108.5360	108.5360	0.0183	0.0000	108.9924
Total	**0.0546**	**0.4885**	**0.7529**	**1.2600e-003**	**0.0000**	**0.0216**	**0.0216**	**0.0000**	**0.0207**	**0.0207**	**0.0000**	**108.5360**	**108.5360**	**0.0183**	**0.0000**	**108.9924**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

Google Middlefield, Const Phase 2, District Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0213	0.4860	0.8356	1.2600e-003		2.1500e-003	2.1500e-003		2.1500e-003	2.1500e-003	0.0000	108.5358	108.5358	0.0183	0.0000	108.9922
Total	**0.0213**	**0.4860**	**0.8356**	**1.2600e-003**	**0.0000**	**2.1500e-003**	**2.1500e-003**	**0.0000**	**2.1500e-003**	**2.1500e-003**	**0.0000**	**108.5358**	**108.5358**	**0.0183**	**0.0000**	**108.9922**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Unmitigated

Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	799.00	Space	0.00	237,000.00	0
Apartments Mid Rise	770.00	Dwelling Unit	9.54	704,566.00	2202
Strip Mall	7.49	1000sqft	0.00	7,492.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2030
Utility Company	Silicon Valley Clean Energy				
CO2 Intensity (lb/MWhr)	2	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - As per supplied construction schedule
Land Use - As per construction schedule
Construction Phase - As per construction schedule
Off-road Equipment - As per supplied construction schedule
Off-road Equipment - As per supplied construction schedule
Off-road Equipment - As per supplied construction schedule
Off-road Equipment - As per supplied construction schedule
Off-road Equipment - As per supplied construction schedule
Off-road Equipment - As per supplied construction schedule
Off-road Equipment - As per supplied construction schedule

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Trips and VMT - 0 trips emfac2021 adjustments, demo = 8,033 tons asphalt, site prerp = 1 water truck

Demolition - existing building demo = 58,692-sf

Grading - grading = 140,384-cy export + 1,713-cy export geothermal bore

Architectural Coating -

Construction Off-road Equipment Mitigation - BMPs, Tier 4 I + Electrical

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	3746	3500
tblAreaCoating	Area_Nonresidential_Interior	11238	10500
tblAreaCoating	Area_Residential_Exterior	475582	427613
tblAreaCoating	Area_Residential_Interior	1426746	1282838
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	20.00	123.00
tblConstructionPhase	NumDays	230.00	1,008.00
tblConstructionPhase	NumDays	20.00	100.00
tblConstructionPhase	NumDays	20.00	144.00
tblConstructionPhase	NumDays	20.00	123.00
tblConstructionPhase	NumDays	10.00	41.00
tblConstructionPhase	NumDaysWeek	5.00	6.00

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblFireplaces	NumberGas	115.50	102.60
tblFireplaces	NumberNoFireplace	30.80	27.36
tblFireplaces	NumberWood	130.90	116.28
tblGrading	MaterialExported	0.00	142,097.00
tblLandUse	LandUseSquareFeet	319,600.00	237,000.00
tblLandUse	LandUseSquareFeet	770,000.00	704,566.00
tblLandUse	LandUseSquareFeet	7,490.00	7,492.00
tblLandUse	LotAcreage	7.19	0.00
tblLandUse	LotAcreage	20.26	9.54
tblLandUse	LotAcreage	0.17	0.00
tblOffRoadEquipment	HorsePower	78.00	0.00
tblOffRoadEquipment	HorsePower	81.00	0.00
tblOffRoadEquipment	HorsePower	231.00	0.00
tblOffRoadEquipment	HorsePower	46.00	0.00
tblOffRoadEquipment	HorsePower	63.00	0.00
tblOffRoadEquipment	HorsePower	63.00	0.00
tblOffRoadEquipment	HorsePower	63.00	0.00
tblOffRoadEquipment	HorsePower	78.00	0.00
tblOffRoadEquipment	HorsePower	78.00	0.00
tblOffRoadEquipment	HorsePower	9.00	0.00
tblOffRoadEquipment	HorsePower	81.00	0.00
tblOffRoadEquipment	HorsePower	231.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.30
tblOffRoadEquipment	UsageHours	8.00	2.70
tblOffRoadEquipment	UsageHours	7.00	10.30
tblOffRoadEquipment	UsageHours	8.00	7.90
tblOffRoadEquipment	UsageHours	8.00	7.90
tblOffRoadEquipment	UsageHours	8.00	7.50
tblOffRoadEquipment	UsageHours	8.00	5.40
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	6.60
tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	8.00	7.50
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.80
tblOffRoadEquipment	UsageHours	8.00	10.80
tblOffRoadEquipment	UsageHours	8.00	8.10
tblOffRoadEquipment	UsageHours	8.00	2.20

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblSolidWaste	SolidWasteGenerationRate	354.20	314.64
tblSolidWaste	SolidWasteGenerationRate	7.86	7.35
tblTripsAndVMT	HaulingTripNumber	267.00	0.00
tblTripsAndVMT	HaulingTripNumber	17,762.00	0.00
tblTripsAndVMT	VendorTripNumber	122.00	0.00
tblTripsAndVMT	WorkerTripNumber	30.00	0.00
tblTripsAndVMT	WorkerTripNumber	8.00	0.00
tblTripsAndVMT	WorkerTripNumber	60.00	0.00
tblTripsAndVMT	WorkerTripNumber	35.00	0.00
tblTripsAndVMT	WorkerTripNumber	656.00	0.00
tblTripsAndVMT	WorkerTripNumber	13.00	0.00
tblTripsAndVMT	WorkerTripNumber	131.00	0.00
tblWater	IndoorWaterUseRate	50,168,599.73	44,565,353.53
tblWater	IndoorWaterUseRate	554,803.19	518,507.65
tblWater	OutdoorWaterUseRate	31,628,030.26	28,095,548.96
tblWater	OutdoorWaterUseRate	340,040.66	317,795.01
tblWoodstoves	NumberCatalytic	15.40	13.68
tblWoodstoves	NumberNoncatalytic	15.40	13.68

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2026	0.6175	5.7400	6.4855	0.0142	1.8061	0.2463	2.0524	0.9148	0.2309	1.1457	0.0000	1,238.9244	1,238.9244	0.3140	0.0000	1,246.7737
2027	0.1638	1.4766	2.1245	3.9800e-003	0.0000	0.0647	0.0647	0.0000	0.0621	0.0621	0.0000	345.0936	345.0936	0.0593	0.0000	346.5752
2028	5.1229	0.7089	1.0219	1.5700e-003	0.0000	0.0330	0.0330	0.0000	0.0312	0.0312	0.0000	136.7373	136.7373	0.0270	0.0000	137.4122
2029	0.0564	0.5186	0.7579	1.2000e-003	0.0000	0.0240	0.0240	0.0000	0.0229	0.0229	0.0000	103.9523	103.9523	0.0164	0.0000	104.3622
2030	2.8800e-003	0.0204	0.0445	8.0000e-005	0.0000	3.6000e-004	3.6000e-004	0.0000	3.6000e-004	3.6000e-004	0.0000	6.4903	6.4903	2.3000e-004	0.0000	6.4961
Maximum	**5.1229**	**5.7400**	**6.4855**	**0.0142**	**1.8061**	**0.2463**	**2.0524**	**0.9148**	**0.2309**	**1.1457**	**0.0000**	**1,238.9244**	**1,238.9244**	**0.3140**	**0.0000**	**1,246.7737**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2026	0.2460	4.8200	8.7128	0.0142	0.7044	0.0348	0.7392	0.1784	0.0348	0.2132	0.0000	1,238.9230	1,238.9230	0.3140	0.0000	1,246.7722
2027	0.0755	1.4243	2.5248	3.9800e-003	0.0000	5.8600e-003	5.8600e-003	0.0000	5.8600e-003	5.8600e-003	0.0000	345.0932	345.0932	0.0593	0.0000	346.5748
2028	5.0806	0.6290	1.0876	1.5700e-003	0.0000	2.3500e-003	2.3500e-003	0.0000	2.3500e-003	2.3500e-003	0.0000	136.7371	136.7371	0.0270	0.0000	137.4121
2029	0.0240	0.4662	0.8060	1.2000e-003	0.0000	1.7400e-003	1.7400e-003	0.0000	1.7400e-003	1.7400e-003	0.0000	103.9522	103.9522	0.0164	0.0000	104.3621
2030	1.3800e-003	0.0268	0.0464	8.0000e-005	0.0000	1.0000e-004	1.0000e-004	0.0000	1.0000e-004	1.0000e-004	0.0000	6.4903	6.4903	2.3000e-004	0.0000	6.4961
Maximum	**5.0806**	**4.8200**	**8.7128**	**0.0142**	**0.7044**	**0.0348**	**0.7392**	**0.1784**	**0.0348**	**0.2132**	**0.0000**	**1,238.9230**	**1,238.9230**	**0.3140**	**0.0000**	**1,246.7722**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Percent Reduction	8.99	12.97	-26.29	0.00	61.00	87.82	65.54	80.50	87.09	82.31	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2026	3-31-2026	1.1858	0.9821
2	4-1-2026	6-30-2026	2.7336	2.1037
3	7-1-2026	9-30-2026	1.9646	1.5396
4	10-1-2026	12-31-2026	0.4773	0.4440
5	1-1-2027	3-31-2027	0.5177	0.4777
6	4-1-2027	6-30-2027	0.5235	0.4830
7	7-1-2027	9-30-2027	0.4415	0.4050
8	10-1-2027	12-31-2027	0.1572	0.1336
9	1-1-2028	3-31-2028	1.9722	1.9259
10	4-1-2028	6-30-2028	3.4140	3.3804
11	7-1-2028	9-30-2028	0.3208	0.2994
12	10-1-2028	12-31-2028	0.1449	0.1235
13	1-1-2029	3-31-2029	0.1417	0.1208
14	4-1-2029	6-30-2029	0.1433	0.1221
15	7-1-2029	9-30-2029	0.1449	0.1235
16	10-1-2029	12-31-2029	0.1449	0.1235
17	1-1-2030	3-31-2030	0.0233	0.0282
		Highest	3.4140	3.3804

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2026	4/27/2026	6	100	
2	Site Preparation	Site Preparation	3/1/2026	4/17/2026	6	41	

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3	Grading	Grading	3/18/2026	9/1/2026	6	144	
4	Trenching/Foundation	Trenching	5/17/2026	9/9/2027	6	412	
5	Building Construction	Building Construction	11/3/2026	1/21/2030	6	1008	
6	Paving	Paving	12/24/2027	5/15/2028	6	123	
7	Architectural Coating	Architectural Coating	2/13/2028	7/5/2028	6	123	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 270

Acres of Paving: 0

Residential Indoor: 1,426,746; Residential Outdoor: 475,582; Non-Residential Indoor: 11,238; Non-Residential Outdoor: 3,746; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Aerial Lifts	1	6.50	0	0.31
Demolition	Air Compressors	1	4.20	0	0.48
Demolition	Concrete/Industrial Saws	1	2.70	0	0.73
Demolition	Excavators	4	7.90	158	0.38
Demolition	Forklifts	1	10.00	89	0.20
Demolition	Generator Sets	1	5.40	84	0.74
Demolition	Rubber Tired Dozers	1	10.00	247	0.40
Demolition	Sweepers/Scrubbers	1	6.50	64	0.46
Demolition	Tractors/Loaders/Backhoes	1	8.10	97	0.37
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Sweepers/Scrubbers	1	4.30	64	0.46
Site Preparation	Tractors/Loaders/Backhoes	2	8.10	97	0.37
Grading	Air Compressors	1	4.20	0	0.48
Grading	Bore/Drill Rigs	2	2.00	221	0.50
Grading	Bore/Drill Rigs	2	4.00	221	0.50

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Grading	Bore/Drill Rigs	4	6.30	221	0.50
Grading	Excavators	2	7.90	158	0.38
Grading	Generator Sets	1	8.10	84	0.74
Grading	Graders	0	0.00	187	0.41
Grading	Plate Compactors	2	1.90	8	0.43
Grading	Pumps	1	24.00	84	0.74
Grading	Rubber Tired Dozers	4	7.50	247	0.40
Grading	Scrapers	0	0.00	367	0.48
Grading	Skid Steer Loaders	1	3.60	65	0.37
Grading	Sweepers/Scrubbers	2	8.70	64	0.46
Grading	Tractors/Loaders/Backhoes	2	10.80	97	0.37
Trenching/Foundation	Aerial Lifts	2	9.70	0	0.31
Trenching/Foundation	Bore/Drill Rigs	4	1.60	221	0.50
Trenching/Foundation	Cranes	1	10.30	0	0.29
Trenching/Foundation	Forklifts	2	10.00	89	0.20
Trenching/Foundation	Generator Sets	1	5.40	84	0.74
Trenching/Foundation	Pumps	2	5.40	84	0.74
Trenching/Foundation	Tractors/Loaders/Backhoes	2	1.00	97	0.37
Building Construction	Aerial Lifts	2	9.70	0	0.31
Building Construction	Cement and Mortar Mixers	1	7.10	0	0.56
Building Construction	Cranes	1	10.30	0	0.29
Building Construction	Forklifts	2	7.50	89	0.20
Building Construction	Generator Sets	1	5.40	84	0.74
Building Construction	Plate Compactors	1	0.90	8	0.43
Building Construction	Tractors/Loaders/Backhoes	1	0.80	97	0.37
Building Construction	Welders	1	2.20	0	0.45
Paving	Concrete/Industrial Saws	2	0.40	0	0.73
Paving	Pavers	0	0.00	130	0.42
Paving	Paving Equipment	0	0.00	132	0.36

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Paving	Rollers	2	6.60	80	0.38
Paving	Tractors/Loaders/Backhoes	1	5.40	97	0.37
Architectural Coating	Air Compressors	1	8.30	0	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	12	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	24	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching/Foundation	14	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Alternative Fuel for Construction Equipment

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Fugitive Dust					0.0289	0.0000	0.0289	4.3700e-003	0.0000	4.3700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1010	0.9148	1.2156	2.1300e-003		0.0420	0.0420		0.0389	0.0389	0.0000	186.9468	186.9468	0.0550	0.0000	188.3218
Total	**0.1010**	**0.9148**	**1.2156**	**2.1300e-003**	**0.0289**	**0.0420**	**0.0709**	**4.3700e-003**	**0.0389**	**0.0433**	**0.0000**	**186.9468**	**186.9468**	**0.0550**	**0.0000**	**188.3218**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Fugitive Dust					0.0113	0.0000	0.0113	8.5000e-004	0.0000	8.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0336	0.8377	1.4631	2.1300e-003		5.6200e-003	5.6200e-003		5.6200e-003	5.6200e-003	0.0000	186.9466	186.9466	0.0550	0.0000	188.3215
Total	**0.0336**	**0.8377**	**1.4631**	**2.1300e-003**	**0.0113**	**5.6200e-003**	**0.0169**	**8.5000e-004**	**5.6200e-003**	**6.4700e-003**	**0.0000**	**186.9466**	**186.9466**	**0.0550**	**0.0000**	**188.3215**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.3 Site Preparation - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.2200e-003	0.0715	0.1135	1.6000e-004		3.1600e-003	3.1600e-003		2.9100e-003	2.9100e-003	0.0000	13.8361	13.8361	4.4700e-003	0.0000	13.9479
Total	**7.2200e-003**	**0.0715**	**0.1135**	**1.6000e-004**	**0.0000**	**3.1600e-003**	**3.1600e-003**	**0.0000**	**2.9100e-003**	**2.9100e-003**	**0.0000**	**13.8361**	**13.8361**	**4.4700e-003**	**0.0000**	**13.9479**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.5800e-003	0.0719	0.1184	1.6000e-004		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004	0.0000	13.8361	13.8361	4.4700e-003	0.0000	13.9479
Total	**3.5800e-003**	**0.0719**	**0.1184**	**1.6000e-004**	**0.0000**	**8.5000e-004**	**8.5000e-004**	**0.0000**	**8.5000e-004**	**8.5000e-004**	**0.0000**	**13.8361**	**13.8361**	**4.4700e-003**	**0.0000**	**13.9479**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.4 Grading - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Fugitive Dust					1.7772	0.0000	1.7772	0.9104	0.0000	0.9104	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4037	3.8102	3.8072	9.2000e-003		0.1607	0.1607		0.1502	0.1502	0.0000	804.1855	804.1855	0.2135	0.0000	809.5232
Total	**0.4037**	**3.8102**	**3.8072**	**9.2000e-003**	**1.7772**	**0.1607**	**1.9379**	**0.9104**	**0.1502**	**1.0606**	**0.0000**	**804.1855**	**804.1855**	**0.2135**	**0.0000**	**809.5232**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Fugitive Dust					0.6931	0.0000	0.6931	0.1775	0.0000	0.1775	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1587	2.9740	5.4558	9.2000e-003		0.0244	0.0244		0.0244	0.0244	0.0000	804.1846	804.1846	0.2135	0.0000	809.5222
Total	**0.1587**	**2.9740**	**5.4558**	**9.2000e-003**	**0.6931**	**0.0244**	**0.7174**	**0.1775**	**0.0244**	**0.2019**	**0.0000**	**804.1846**	**804.1846**	**0.2135**	**0.0000**	**809.5222**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.5 Trenching/Foundation - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Off-Road	0.0964	0.8589	1.2257	2.5000e-003		0.0365	0.0365		0.0352	0.0352	0.0000	217.0181	217.0181	0.0383	0.0000	217.9761
Total	**0.0964**	**0.8589**	**1.2257**	**2.5000e-003**		**0.0365**	**0.0365**		**0.0352**	**0.0352**	**0.0000**	**217.0181**	**217.0181**	**0.0383**	**0.0000**	**217.9761**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-Road	0.0463	0.8605	1.5442	2.5000e-003		3.7000e-003	3.7000e-003		3.7000e-003	3.7000e-003	0.0000	217.0179	217.0179	0.0383	0.0000	217.9759
Total	**0.0463**	**0.8605**	**1.5442**	**2.5000e-003**		**3.7000e-003**	**3.7000e-003**		**3.7000e-003**	**3.7000e-003**	**0.0000**	**217.0179**	**217.0179**	**0.0383**	**0.0000**	**217.9759**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.5 Trenching/Foundation - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1063	0.9466	1.3507	2.7500e-003		0.0402	0.0402		0.0388	0.0388	0.0000	239.1628	239.1628	0.0422	0.0000	240.2186

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.1063**	**0.9466**	**1.3507**	**2.7500e-003**		**0.0402**	**0.0402**		**0.0388**	**0.0388**	**0.0000**	**239.1628**	**239.1628**	**0.0422**	**0.0000**	**240.2186**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0511	0.9483	1.7018	2.7500e-003		4.0800e-003	4.0800e-003		4.0800e-003	4.0800e-003	0.0000	239.1626	239.1626	0.0422	0.0000	240.2183
Total	**0.0511**	**0.9483**	**1.7018**	**2.7500e-003**		**4.0800e-003**	**4.0800e-003**		**4.0800e-003**	**4.0800e-003**	**0.0000**	**239.1626**	**239.1626**	**0.0422**	**0.0000**	**240.2183**

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.1900e-003	0.0845	0.1235	2.0000e-004		3.9000e-003	3.9000e-003		3.7200e-003	3.7200e-003	0.0000	16.9379	16.9379	2.6700e-003	0.0000	17.0047
Total	**9.1900e-003**	**0.0845**	**0.1235**	**2.0000e-004**		**3.9000e-003**	**3.9000e-003**		**3.7200e-003**	**3.7200e-003**	**0.0000**	**16.9379**	**16.9379**	**2.6700e-003**	**0.0000**	**17.0047**

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.9000e-003	0.0760	0.1313	2.0000e-004		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	16.9379	16.9379	2.6700e-003	0.0000	17.0047
Total	**3.9000e-003**	**0.0760**	**0.1313**	**2.0000e-004**		**2.8000e-004**	**2.8000e-004**		**2.8000e-004**	**2.8000e-004**	**0.0000**	**16.9379**	**16.9379**	**2.6700e-003**	**0.0000**	**17.0047**

Mitigated Construction Off-Site

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0564	0.5186	0.7579	1.2000e-003		0.0240	0.0240		0.0229	0.0229	0.0000	103.9523	103.9523	0.0164	0.0000	104.3622
Total	**0.0564**	**0.5186**	**0.7579**	**1.2000e-003**		**0.0240**	**0.0240**		**0.0229**	**0.0229**	**0.0000**	**103.9523**	**103.9523**	**0.0164**	**0.0000**	**104.3622**

Unmitigated Construction Off-Site

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0240	0.4662	0.8060	1.2000e-003		1.7400e-003	1.7400e-003		1.7400e-003	1.7400e-003	0.0000	103.9522	103.9522	0.0164	0.0000	104.3621
Total	**0.0240**	**0.4662**	**0.8060**	**1.2000e-003**		**1.7400e-003**	**1.7400e-003**		**1.7400e-003**	**1.7400e-003**	**0.0000**	**103.9522**	**103.9522**	**0.0164**	**0.0000**	**104.3621**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0564	0.5186	0.7579	1.2000e-003		0.0240	0.0240		0.0229	0.0229	0.0000	103.9523	103.9523	0.0164	0.0000	104.3622
Total	**0.0564**	**0.5186**	**0.7579**	**1.2000e-003**		**0.0240**	**0.0240**		**0.0229**	**0.0229**	**0.0000**	**103.9523**	**103.9523**	**0.0164**	**0.0000**	**104.3622**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0240	0.4662	0.8060	1.2000e-003		1.7400e-003	1.7400e-003		1.7400e-003	1.7400e-003	0.0000	103.9522	103.9522	0.0164	0.0000	104.3621
Total	**0.0240**	**0.4662**	**0.8060**	**1.2000e-003**		**1.7400e-003**	**1.7400e-003**		**1.7400e-003**	**1.7400e-003**	**0.0000**	**103.9522**	**103.9522**	**0.0164**	**0.0000**	**104.3621**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0564	0.5186	0.7579	1.2000e-003		0.0240	0.0240		0.0229	0.0229	0.0000	103.9523	103.9523	0.0164	0.0000	104.3622
Total	**0.0564**	**0.5186**	**0.7579**	**1.2000e-003**		**0.0240**	**0.0240**		**0.0229**	**0.0229**	**0.0000**	**103.9523**	**103.9523**	**0.0164**	**0.0000**	**104.3622**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0240	0.4662	0.8060	1.2000e-003		1.7400e-003	1.7400e-003		1.7400e-003	1.7400e-003	0.0000	103.9522	103.9522	0.0164	0.0000	104.3621
Total	**0.0240**	**0.4662**	**0.8060**	**1.2000e-003**		**1.7400e-003**	**1.7400e-003**		**1.7400e-003**	**1.7400e-003**	**0.0000**	**103.9522**	**103.9522**	**0.0164**	**0.0000**	**104.3621**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Building Construction - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.8800e-003	0.0204	0.0445	8.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004	0.0000	6.4903	6.4903	2.3000e-004	0.0000	6.4961
Total	**2.8800e-003**	**0.0204**	**0.0445**	**8.0000e-005**		**3.6000e-004**	**3.6000e-004**		**3.6000e-004**	**3.6000e-004**	**0.0000**	**6.4903**	**6.4903**	**2.3000e-004**	**0.0000**	**6.4961**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.3800e-003	0.0268	0.0464	8.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	6.4903	6.4903	2.3000e-004	0.0000	6.4961
Total	**1.3800e-003**	**0.0268**	**0.0464**	**8.0000e-005**		**1.0000e-004**	**1.0000e-004**		**1.0000e-004**	**1.0000e-004**	**0.0000**	**6.4903**	**6.4903**	**2.3000e-004**	**0.0000**	**6.4961**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Paving - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.1000e-003	0.0115	0.0159	2.0000e-005		5.5000e-004	5.5000e-004		5.0000e-004	5.0000e-004	0.0000	1.9784	1.9784	6.4000e-004	0.0000	1.9944
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.1000e-003**	**0.0115**	**0.0159**	**2.0000e-005**		**5.5000e-004**	**5.5000e-004**		**5.0000e-004**	**5.0000e-004**	**0.0000**	**1.9784**	**1.9784**	**6.4000e-004**	**0.0000**	**1.9944**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.1000e-004	9.8300e-003	0.0170	2.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	1.9784	1.9784	6.4000e-004	0.0000	1.9944
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.1000e-004**	**9.8300e-003**	**0.0170**	**2.0000e-005**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**	**0.0000**	**1.9784**	**1.9784**	**6.4000e-004**	**0.0000**	**1.9944**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.7 Paving - 2028

Unmitigated Construction On-Site

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0183	0.1904	0.2640	3.7000e-004		9.0600e-003	9.0600e-003		8.3400e-003	8.3400e-003	0.0000	32.7849	32.7849	0.0106	0.0000	33.0500
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0183**	**0.1904**	**0.2640**	**3.7000e-004**		**9.0600e-003**	**9.0600e-003**		**8.3400e-003**	**8.3400e-003**	**0.0000**	**32.7849**	**32.7849**	**0.0106**	**0.0000**	**33.0500**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.3700e-003	0.1628	0.2815	3.7000e-004		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	32.7849	32.7849	0.0106	0.0000	33.0500
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.3700e-003**	**0.1628**	**0.2815**	**3.7000e-004**		**6.1000e-004**	**6.1000e-004**		**6.1000e-004**	**6.1000e-004**	**0.0000**	**32.7849**	**32.7849**	**0.0106**	**0.0000**	**33.0500**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.8 Architectural Coating - 2028

Unmitigated Construction On-Site

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.0482					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.0482**					**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.0482					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.0482**					**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Google Middlefield, Const Phase 3 Affordable R4a, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Google Middlefield, Const Phase 3 Affordable R4a, District Util - Unmitigated

Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	210.00	Space	0.00	64,000.00	0
Apartments Mid Rise	210.00	Dwelling Unit	1.32	190,000.00	601

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2028
Utility Company	Silicon Valley Clean Energy				
CO2 Intensity (lb/MWhr)	2	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - As per supplied construction schedule

Land Use - As per supplied construction schedule

Construction Phase - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Trips and VMT - 0 trips emfac2021 adjustments, demo = 1,000 ton aspphalt, site prep = 1 water truck

Google Middlefield, Const Phase 3 Affordable R4a, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Demolition - existing building demo = 53,170-sf

Grading - grading = 42,787-cy export

Architectural Coating -

Construction Off-road Equipment Mitigation - BMPs, Tier 4 I + Electrical

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00

Google Middlefield, Const Phase 3 Affordable R4a, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	10.00	39.00
tblConstructionPhase	NumDays	200.00	319.00
tblConstructionPhase	NumDays	20.00	86.00
tblConstructionPhase	NumDays	4.00	46.00
tblConstructionPhase	NumDays	10.00	39.00
tblConstructionPhase	NumDays	2.00	13.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00

Google Middlefield, Const Phase 3 Affordable R4a, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstructionPhase	NumDaysWeek	5.00	6.00
tblGrading	MaterialExported	0.00	42,787.00
tblLandUse	LandUseSquareFeet	84,000.00	64,000.00
tblLandUse	LandUseSquareFeet	210,000.00	190,000.00
tblLandUse	LotAcreage	1.89	0.00
tblLandUse	LotAcreage	5.53	1.32
tblOffRoadEquipment	HorsePower	63.00	0.00
tblOffRoadEquipment	HorsePower	78.00	0.00
tblOffRoadEquipment	HorsePower	81.00	0.00
tblOffRoadEquipment	HorsePower	78.00	0.00
tblOffRoadEquipment	HorsePower	63.00	0.00
tblOffRoadEquipment	HorsePower	231.00	0.00
tblOffRoadEquipment	HorsePower	63.00	0.00
tblOffRoadEquipment	HorsePower	9.00	0.00
tblOffRoadEquipment	HorsePower	231.00	0.00
tblOffRoadEquipment	HorsePower	46.00	0.00
tblOffRoadEquipment	HorsePower	81.00	0.00
tblOffRoadEquipment	HorsePower	78.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	8.00	2.70

Google Middlefield, Const Phase 3 Affordable R4a, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	8.00	8.10
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	8.00	8.10
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	7.50
tblOffRoadEquipment	UsageHours	7.00	10.80
tblOffRoadEquipment	UsageHours	6.00	10.30
tblOffRoadEquipment	UsageHours	6.00	7.50
tblOffRoadEquipment	UsageHours	8.00	5.40
tblOffRoadEquipment	UsageHours	6.00	0.80
tblOffRoadEquipment	UsageHours	8.00	2.20
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	6.60
tblOffRoadEquipment	UsageHours	8.00	5.40
tblOffRoadEquipment	UsageHours	6.00	8.30
tblTripsAndVMT	HaulingTripNumber	242.00	0.00
tblTripsAndVMT	HaulingTripNumber	5,348.00	0.00
tblTripsAndVMT	VendorTripNumber	33.00	0.00
tblTripsAndVMT	WorkerTripNumber	30.00	0.00
tblTripsAndVMT	WorkerTripNumber	8.00	0.00
tblTripsAndVMT	WorkerTripNumber	50.00	0.00
tblTripsAndVMT	WorkerTripNumber	25.00	0.00
tblTripsAndVMT	WorkerTripNumber	178.00	0.00
tblTripsAndVMT	WorkerTripNumber	13.00	0.00
tblTripsAndVMT	WorkerTripNumber	36.00	0.00

2.0 Emissions Summary

Google Middlefield, Const Phase 3 Affordable R4a, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2026	0.0404	0.3659	0.4863	8.5000e-004	0.0122	0.0168	0.0290	1.8400e-003	0.0156	0.0174	0.0000	74.7787	74.7787	0.0220	0.0000	75.3287
2027	1.4483	2.1928	2.6505	4.8800e-003	0.5816	0.0974	0.6789	0.2929	0.0917	0.3846	0.0000	424.8664	424.8664	0.0945	0.0000	427.2297
2028	0.1818	0.3976	0.5811	9.2000e-004	0.0000	0.0184	0.0184	0.0000	0.0175	0.0175	0.0000	79.7079	79.7079	0.0126	0.0000	80.0222
Maximum	**1.4483**	**2.1928**	**2.6505**	**4.8800e-003**	**0.5816**	**0.0974**	**0.6789**	**0.2929**	**0.0917**	**0.3846**	**0.0000**	**424.8664**	**424.8664**	**0.0945**	**0.0000**	**427.2297**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2026	0.0134	0.3351	0.5852	8.5000e-004	4.7500e-003	2.2500e-003	6.9900e-003	3.6000e-004	2.2500e-003	2.6100e-003	0.0000	74.7786	74.7786	0.0220	0.0000	75.3286
2027	1.2997	1.7881	3.1446	4.8800e-003	0.2268	0.0118	0.2386	0.0571	0.0118	0.0689	0.0000	424.8659	424.8659	0.0945	0.0000	427.2292
2028	0.1569	0.3575	0.6180	9.2000e-004	0.0000	1.3400e-003	1.3400e-003	0.0000	1.3400e-003	1.3400e-003	0.0000	79.7078	79.7078	0.0126	0.0000	80.0221
Maximum	**1.2997**	**1.7881**	**3.1446**	**4.8800e-003**	**0.2268**	**0.0118**	**0.2386**	**0.0571**	**0.0118**	**0.0689**	**0.0000**	**424.8659**	**424.8659**	**0.0945**	**0.0000**	**427.2292**

Google Middlefield, Const Phase 3 Affordable R4a, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	12.00	16.09	-16.94	0.00	61.00	88.40	66.00	80.50	87.68	82.64	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	11-15-2026	2-14-2027	0.8010	0.6870
2	2-15-2027	5-14-2027	1.3288	0.9274
3	5-15-2027	8-14-2027	0.3189	0.2806
4	8-15-2027	11-14-2027	0.2924	0.2518
5	11-15-2027	2-14-2028	1.4932	1.4696
6	2-15-2028	5-14-2028	0.1417	0.1208
7	5-15-2028	8-14-2028	0.1449	0.1235
8	8-15-2028	9-30-2028	0.0740	0.0631
		Highest	1.4932	1.4696

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	11/15/2026	2/23/2027	6	86	
2	Site Preparation	Site Preparation	2/23/2027	3/9/2027	6	13	
3	Grading	Grading	3/10/2027	5/1/2027	6	46	
4	Trenching/Foundation	Trenching	5/2/2027	9/30/2027	6	130	
5	Building Construction	Building Construction	10/1/2027	10/6/2028	6	319	
6	Paving	Paving	10/8/2027	11/22/2027	6	39	
7	Architectural Coating	Architectural Coating	11/22/2027	1/5/2028	6	39	

Google Middlefield, Const Phase 3 Affordable R4a, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 86.25

Acres of Paving: 0

Residential Indoor: 384,750; Residential Outdoor: 128,250; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 3,840

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Aerial Lifts	1	6.50	0	0.31
Demolition	Air Compressors	1	4.20	0	0.48
Demolition	Concrete/Industrial Saws	1	2.70	0	0.73
Demolition	Excavators	4	7.90	158	0.38
Demolition	Forklifts	1	10.00	89	0.20
Demolition	Generator Sets	1	5.40	84	0.74
Demolition	Rubber Tired Dozers	1	10.00	247	0.40
Demolition	Sweepers/Scrubbers	1	6.50	64	0.46
Demolition	Tractors/Loaders/Backhoes	1	8.10	97	0.37
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Sweepers/Scrubbers	1	4.30	64	0.46
Site Preparation	Tractors/Loaders/Backhoes	2	8.10	97	0.37
Grading	Air Compressors	1	4.20	0	0.48
Grading	Bore/Drill Rigs	2	2.00	221	0.50
Grading	Bore/Drill Rigs	2	4.00	221	0.50
Grading	Excavators	2	7.90	158	0.38
Grading	Generator Sets	1	8.10	84	0.74
Grading	Graders	0	0.00	187	0.41
Grading	Plate Compactors	2	1.90	8	0.43
Grading	Pumps	1	24.00	84	0.74
Grading	Rubber Tired Dozers	4	7.50	247	0.40

Google Middlefield, Const Phase 3 Affordable R4a, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Grading	Scrapers	0	0.00	367	0.48
Grading	Skid Steer Loaders	1	3.50	65	0.37
Grading	Sweepers/Scrubbers	2	8.70	64	0.46
Grading	Tractors/Loaders/Backhoes	2	10.80	97	0.37
Trenching/Foundation	Aerial Lifts	2	9.70	0	0.31
Trenching/Foundation	Cranes	1	10.30	0	0.29
Trenching/Foundation	Forklifts	2	10.00	89	0.20
Trenching/Foundation	Generator Sets	1	5.40	84	0.74
Trenching/Foundation	Pumps	2	5.40	84	0.74
Trenching/Foundation	Tractors/Loaders/Backhoes	2	1.00	97	0.37
Building Construction	Aerial Lifts	2	9.70	0	0.31
Building Construction	Cement and Mortar Mixers	1	7.10	0	0.56
Building Construction	Cranes	1	10.30	0	0.29
Building Construction	Forklifts	2	7.50	89	0.20
Building Construction	Generator Sets	1	5.40	84	0.74
Building Construction	Plate Compactors	1	0.90	8	0.43
Building Construction	Tractors/Loaders/Backhoes	1	0.80	97	0.37
Building Construction	Welders	1	2.20	0	0.45
Paving	Concrete/Industrial Saws	2	0.40	0	0.73
Paving	Pavers	0	0.00	130	0.42
Paving	Paving Equipment	0	0.00	132	0.36
Paving	Rollers	2	6.60	80	0.38
Paving	Tractors/Loaders/Backhoes	1	5.40	97	0.37
Architectural Coating	Air Compressors	1	8.30	0	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class

Google Middlefield, Const Phase 3 Affordable R4a, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Demolition	12	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	20	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching/Foundation	10	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Alternative Fuel for Construction Equipment

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0122	0.0000	0.0122	1.8400e-003	0.0000	1.8400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0404	0.3659	0.4863	8.5000e-004		0.0168	0.0168		0.0156	0.0156	0.0000	74.7787	74.7787	0.0220	0.0000	75.3287
Total	**0.0404**	**0.3659**	**0.4863**	**8.5000e-004**	**0.0122**	**0.0168**	**0.0290**	**1.8400e-003**	**0.0156**	**0.0174**	**0.0000**	**74.7787**	**74.7787**	**0.0220**	**0.0000**	**75.3287**

Google Middlefield, Const Phase 3 Affordable R4a, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.7500e-003	0.0000	4.7500e-003	3.6000e-004	0.0000	3.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0134	0.3351	0.5852	8.5000e-004		2.2500e-003	2.2500e-003		2.2500e-003	2.2500e-003	0.0000	74.7786	74.7786	0.0220	0.0000	75.3286
Total	**0.0134**	**0.3351**	**0.5852**	**8.5000e-004**	**4.7500e-003**	**2.2500e-003**	**7.0000e-003**	**3.6000e-004**	**2.2500e-003**	**2.6100e-003**	**0.0000**	**74.7786**	**74.7786**	**0.0220**	**0.0000**	**75.3286**

Google Middlefield, Const Phase 3 Affordable R4a, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Demolition - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0140	0.0000	0.0140	2.1200e-003	0.0000	2.1200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0465	0.4208	0.5592	9.8000e-004		0.0193	0.0193		0.0179	0.0179	0.0000	85.9955	85.9955	0.0253	0.0000	86.6280
Total	**0.0465**	**0.4208**	**0.5592**	**9.8000e-004**	**0.0140**	**0.0193**	**0.0333**	**2.1200e-003**	**0.0179**	**0.0200**	**0.0000**	**85.9955**	**85.9955**	**0.0253**	**0.0000**	**86.6280**

Google Middlefield, Const Phase 3 Affordable R4a, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.4600e-003	0.0000	5.4600e-003	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0154	0.3853	0.6730	9.8000e-004		2.5800e-003	2.5800e-003		2.5800e-003	2.5800e-003	0.0000	85.9954	85.9954	0.0253	0.0000	86.6279
Total	**0.0154**	**0.3853**	**0.6730**	**9.8000e-004**	**5.4600e-003**	**2.5800e-003**	**8.0400e-003**	**4.1000e-004**	**2.5800e-003**	**2.9900e-003**	**0.0000**	**85.9954**	**85.9954**	**0.0253**	**0.0000**	**86.6279**

Mitigated Construction Off-Site

Google Middlefield, Const Phase 3 Affordable R4a, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.3 Site Preparation - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.2900e-003	0.0227	0.0360	5.0000e-005		1.0000e-003	1.0000e-003		9.2000e-004	9.2000e-004	0.0000	4.3870	4.3870	1.4200e-003	0.0000	4.4225
Total	**2.2900e-003**	**0.0227**	**0.0360**	**5.0000e-005**	**0.0000**	**1.0000e-003**	**1.0000e-003**	**0.0000**	**9.2000e-004**	**9.2000e-004**	**0.0000**	**4.3870**	**4.3870**	**1.4200e-003**	**0.0000**	**4.4225**

Unmitigated Construction Off-Site

Google Middlefield, Const Phase 3 Affordable R4a, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1300e-003	0.0228	0.0375	5.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	4.3870	4.3870	1.4200e-003	0.0000	4.4225
Total	**1.1300e-003**	**0.0228**	**0.0375**	**5.0000e-005**	**0.0000**	**2.7000e-004**	**2.7000e-004**	**0.0000**	**2.7000e-004**	**2.7000e-004**	**0.0000**	**4.3870**	**4.3870**	**1.4200e-003**	**0.0000**	**4.4225**

Mitigated Construction Off-Site

Google Middlefield, Const Phase 3 Affordable R4a, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.4 Grading - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.5676	0.0000	0.5676	0.2908	0.0000	0.2908	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1138	1.0818	1.0683	2.2500e-003		0.0469	0.0469		0.0439	0.0439	0.0000	196.5536	196.5536	0.0487	0.0000	197.7708
Total	**0.1138**	**1.0818**	**1.0683**	**2.2500e-003**	**0.5676**	**0.0469**	**0.6145**	**0.2908**	**0.0439**	**0.3347**	**0.0000**	**196.5536**	**196.5536**	**0.0487**	**0.0000**	**197.7708**

Unmitigated Construction Off-Site

Google Middlefield, Const Phase 3 Affordable R4a, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2214	0.0000	0.2214	0.0567	0.0000	0.0567	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0394	0.7675	1.3753	2.2500e-003		6.6400e-003	6.6400e-003		6.6400e-003	6.6400e-003	0.0000	196.5533	196.5533	0.0487	0.0000	197.7705
Total	**0.0394**	**0.7675**	**1.3753**	**2.2500e-003**	**0.2214**	**6.6400e-003**	**0.2280**	**0.0567**	**6.6400e-003**	**0.0634**	**0.0000**	**196.5533**	**196.5533**	**0.0487**	**0.0000**	**197.7705**

Mitigated Construction Off-Site

Google Middlefield, Const Phase 3 Affordable R4a, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.5 Trenching/Foundation - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0531	0.4727	0.7071	1.1600e-003		0.0210	0.0210		0.0204	0.0204	0.0000	100.6706	100.6706	0.0114	0.0000	100.9561
Total	**0.0531**	**0.4727**	**0.7071**	**1.1600e-003**		**0.0210**	**0.0210**		**0.0204**	**0.0204**	**0.0000**	**100.6706**	**100.6706**	**0.0114**	**0.0000**	**100.9561**

Unmitigated Construction Off-Site

Google Middlefield, Const Phase 3 Affordable R4a, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0226	0.4400	0.7607	1.1600e-003		1.6400e-003	1.6400e-003		1.6400e-003	1.6400e-003	0.0000	100.6705	100.6705	0.0114	0.0000	100.9560
Total	**0.0226**	**0.4400**	**0.7607**	**1.1600e-003**		**1.6400e-003**	**1.6400e-003**		**1.6400e-003**	**1.6400e-003**	**0.0000**	**100.6705**	**100.6705**	**0.0114**	**0.0000**	**100.9560**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Google Middlefield, Const Phase 3 Affordable R4a, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0142	0.1309	0.1913	3.0000e-004		6.0500e-003	6.0500e-003		5.7700e-003	5.7700e-003	0.0000	26.2372	26.2372	4.1400e-003	0.0000	26.3406
Total	**0.0142**	**0.1309**	**0.1913**	**3.0000e-004**		**6.0500e-003**	**6.0500e-003**		**5.7700e-003**	**5.7700e-003**	**0.0000**	**26.2372**	**26.2372**	**4.1400e-003**	**0.0000**	**26.3406**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Google Middlefield, Const Phase 3 Affordable R4a, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.0500e-003	0.1177	0.2034	3.0000e-004		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	26.2371	26.2371	4.1400e-003	0.0000	26.3406
Total	**6.0500e-003**	**0.1177**	**0.2034**	**3.0000e-004**		**4.4000e-004**	**4.4000e-004**		**4.4000e-004**	**4.4000e-004**	**0.0000**	**26.2371**	**26.2371**	**4.1400e-003**	**0.0000**	**26.3406**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Google Middlefield, Const Phase 3 Affordable R4a, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0433	0.3976	0.5811	9.2000e-004		0.0184	0.0184		0.0175	0.0175	0.0000	79.7079	79.7079	0.0126	0.0000	80.0222
Total	**0.0433**	**0.3976**	**0.5811**	**9.2000e-004**		**0.0184**	**0.0184**		**0.0175**	**0.0175**	**0.0000**	**79.7079**	**79.7079**	**0.0126**	**0.0000**	**80.0222**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Google Middlefield, Const Phase 3 Affordable R4a, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0184	0.3575	0.6180	9.2000e-004		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003	0.0000	79.7078	79.7078	0.0126	0.0000	80.0221
Total	**0.0184**	**0.3575**	**0.6180**	**9.2000e-004**		**1.3400e-003**	**1.3400e-003**		**1.3400e-003**	**1.3400e-003**	**0.0000**	**79.7078**	**79.7078**	**0.0126**	**0.0000**	**80.0221**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Google Middlefield, Const Phase 3 Affordable R4a, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.7 Paving - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.1500e-003	0.0640	0.0888	1.3000e-004		3.0500e-003	3.0500e-003		2.8000e-003	2.8000e-003	0.0000	11.0225	11.0225	3.5600e-003	0.0000	11.1117
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**6.1500e-003**	**0.0640**	**0.0888**	**1.3000e-004**		**3.0500e-003**	**3.0500e-003**		**2.8000e-003**	**2.8000e-003**	**0.0000**	**11.0225**	**11.0225**	**3.5600e-003**	**0.0000**	**11.1117**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Google Middlefield, Const Phase 3 Affordable R4a, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.8100e-003	0.0548	0.0947	1.3000e-004		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	11.0225	11.0225	3.5600e-003	0.0000	11.1116
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.8100e-003**	**0.0548**	**0.0947**	**1.3000e-004**		**2.0000e-004**	**2.0000e-004**		**2.0000e-004**	**2.0000e-004**	**0.0000**	**11.0225**	**11.0225**	**3.5600e-003**	**0.0000**	**11.1116**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Google Middlefield, Const Phase 3 Affordable R4a, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.8 Architectural Coating - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.2123					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.2123**					**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Date: 12/2/2021 4:02 PM

Google Middlefield, Const Phase 3 Affordable R4a, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.2123					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.2123**					**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Google Middlefield, Const Phase 3 Affordable R4a, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Architectural Coating - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1386					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1386**					**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

Google Middlefield, Const Phase 3 Affordable R4a, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1386					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1386**					**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Google Middlefield, Const Phase 3, City Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Google Middlefield, Const Phase 3, City Util - Infrastructure - Unmitigated

Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	1.00	Acre	1.00	43,560.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2027
Utility Company	Silicon Valley Clean Energy				
CO2 Intensity (lb/MWhr)	2	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - As per supplied construction schedule

Land Use - As per supplied construction schedule

Construction Phase - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - As per supplied construction equipment

Trips and VMT - 0 trips emfac2021 adjustments, infra = 1 striper truck

Demolition -

Grading -

Architectural Coating -

Construction Off-road Equipment Mitigation - BMPs, Tier 4 I + Electrical

Table Name	Column Name	Default Value	New Value

Google Middlefield, Const Phase 3, City Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblAreaCoating	Area_Parking	2614	3840
tblAreaCoating	Area_Residential_Exterior	0	128250
tblAreaCoating	Area_Residential_Interior	0	384750
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	12
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	2.00	102.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblFleetMix	HHD	6.2400e-003	0.00

Google Middlefield, Const Phase 3, City Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblFleetMix	LDA	0.58	0.00
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.2570e-003	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	2.6240e-003	0.00
tblFleetMix	MHD	8.1590e-003	0.00
tblFleetMix	OBUS	8.7700e-004	0.00
tblFleetMix	SBUS	8.7400e-004	0.00
tblFleetMix	UBUS	3.5600e-004	0.00
tblOffRoadEquipment	HorsePower	78.00	0.00
tblOffRoadEquipment	HorsePower	9.00	0.00
tblOffRoadEquipment	HorsePower	81.00	0.00
tblOffRoadEquipment	HorsePower	46.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	7.00	2.70
tblTripsAndVMT	WorkerTripNumber	25.00	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

Google Middlefield, Const Phase 3, City Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2027	0.0405	0.3751	0.5802	9.4000e-004	0.0000	0.0171	0.0171	0.0000	0.0161	0.0161	0.0000	80.9886	80.9886	0.0201	0.0000	81.4914
Maximum	**0.0405**	**0.3751**	**0.5802**	**9.4000e-004**	**0.0000**	**0.0171**	**0.0171**	**0.0000**	**0.0161**	**0.0161**	**0.0000**	**80.9886**	**80.9886**	**0.0201**	**0.0000**	**81.4914**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2027	0.0150	0.3792	0.6500	9.4000e-004	0.0000	1.8200e-003	1.8200e-003	0.0000	1.8200e-003	1.8200e-003	0.0000	80.9885	80.9885	0.0201	0.0000	81.4913
Maximum	**0.0150**	**0.3792**	**0.6500**	**9.4000e-004**	**0.0000**	**1.8200e-003**	**1.8200e-003**	**0.0000**	**1.8200e-003**	**1.8200e-003**	**0.0000**	**80.9885**	**80.9885**	**0.0201**	**0.0000**	**81.4913**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**62.98**	**-1.08**	**-12.02**	**0.00**	**0.00**	**89.38**	**89.38**	**0.00**	**88.69**	**88.69**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**1-1-2027**	**3-31-2027**	0.3143	0.2981
2	**4-1-2027**	**6-30-2027**	0.1013	0.0961
		Highest	0.3143	0.2981

Google Middlefield, Const Phase 3, City Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Infrastructure	Grading	1/1/2027	4/29/2027	6	102	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 1

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating –

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Infrastructure	Air Compressors	0	0.00	0	0.48
Infrastructure	Cement and Mortar Mixers	1	10.70	0	0.56
Infrastructure	Concrete/Industrial Saws	1	1.40	0	0.73
Infrastructure	Generator Sets	1	5.40	84	0.74
Infrastructure	Graders	0	0.00	187	0.41
Infrastructure	Pavers	2	7.10	130	0.42
Infrastructure	Plate Compactors	2	5.80	8	0.43
Infrastructure	Pumps	0	0.00	84	0.74
Infrastructure	Rollers	1	10.50	80	0.38
Infrastructure	Rubber Tired Dozers	0	0.00	247	0.40
Infrastructure	Sweepers/Scrubbers	1	1.20	64	0.46
Infrastructure	Tractors/Loaders/Backhoes	1	2.70	97	0.37
Infrastructure	Welders	0	0.00	0	0.45

Trips and VMT

Google Middlefield, Const Phase 3, City Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Infrastructure	10	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Alternative Fuel for Construction Equipment

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Infrastructure - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0405	0.3751	0.5802	9.4000e-004		0.0171	0.0171		0.0161	0.0161	0.0000	80.9886	80.9886	0.0201	0.0000	81.4914
Total	**0.0405**	**0.3751**	**0.5802**	**9.4000e-004**	**0.0000**	**0.0171**	**0.0171**	**0.0000**	**0.0161**	**0.0161**	**0.0000**	**80.9886**	**80.9886**	**0.0201**	**0.0000**	**81.4914**

Unmitigated Construction Off-Site

Google Middlefield, Const Phase 3, City Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0150	0.3792	0.6500	9.4000e-004		1.8200e-003	1.8200e-003		1.8200e-003	1.8200e-003	0.0000	80.9885	80.9885	0.0201	0.0000	81.4913
Total	**0.0150**	**0.3792**	**0.6500**	**9.4000e-004**	**0.0000**	**1.8200e-003**	**1.8200e-003**	**0.0000**	**1.8200e-003**	**1.8200e-003**	**0.0000**	**80.9885**	**80.9885**	**0.0201**	**0.0000**	**81.4913**

Mitigated Construction Off-Site

Google Middlefield, Const Phase 3, City Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Unmitigated

Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	689.06	1000sqft	12.33	689,061.00	0
Enclosed Parking with Elevator	1,969.00	Space	0.00	420,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2031
Utility Company	Silicon Valley Clean Energy				
CO2 Intensity (lb/MWhr)	2	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - As per supplied construction schedule

Land Use - As per supplied construction schedule

Construction Phase - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Trips and VMT - 0 trips for emfac2021 adjustments, demo = 10,106 ton asphalt, site prep - 1 water truck

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Demolition - existing building demo = 132,996-sf

Grading - grading = 110,949-cy export + 1,713-cy export geothermal bore

Architectural Coating -

Construction Off-road Equipment Mitigation - BMPs, Tier 4 I+Electrical

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	344531	343500
tblAreaCoating	Area_Nonresidential_Interior	1033592	1030500
tblAreaCoating	Area_Parking	25200	47184
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
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tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	20.00	205.00
tblConstructionPhase	NumDays	300.00	1,120.00
tblConstructionPhase	NumDays	20.00	234.00
tblConstructionPhase	NumDays	30.00	86.00
tblConstructionPhase	NumDays	20.00	205.00
tblConstructionPhase	NumDays	10.00	54.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblGrading	MaterialExported	0.00	112,662.00
tblLandUse	LandUseSquareFeet	689,060.00	689,061.00
tblLandUse	LandUseSquareFeet	787,600.00	420,000.00
tblLandUse	LotAcreage	15.82	12.33
tblLandUse	LotAcreage	17.72	0.00
tblOffRoadEquipment	HorsePower	78.00	0.00
tblOffRoadEquipment	HorsePower	81.00	0.00
tblOffRoadEquipment	HorsePower	231.00	0.00
tblOffRoadEquipment	HorsePower	130.00	0.00
tblOffRoadEquipment	HorsePower	46.00	0.00
tblOffRoadEquipment	HorsePower	63.00	0.00
tblOffRoadEquipment	HorsePower	63.00	0.00
tblOffRoadEquipment	HorsePower	63.00	0.00
tblOffRoadEquipment	HorsePower	78.00	0.00
tblOffRoadEquipment	HorsePower	78.00	0.00
tblOffRoadEquipment	HorsePower	9.00	0.00
tblOffRoadEquipment	HorsePower	81.00	0.00
tblOffRoadEquipment	HorsePower	231.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.30
tblOffRoadEquipment	UsageHours	8.00	8.20
tblOffRoadEquipment	UsageHours	7.00	10.30
tblOffRoadEquipment	UsageHours	8.00	7.90
tblOffRoadEquipment	UsageHours	8.00	7.90
tblOffRoadEquipment	UsageHours	8.00	7.50
tblOffRoadEquipment	UsageHours	8.00	5.40
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	4.80
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	5.30
tblOffRoadEquipment	UsageHours	8.00	6.60
tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	8.00	9.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.80
tblOffRoadEquipment	UsageHours	8.00	10.80
tblOffRoadEquipment	UsageHours	8.00	8.10
tblOffRoadEquipment	UsageHours	8.00	2.20
tblSolidWaste	SolidWasteGenerationRate	640.83	638.91
tblTripsAndVMT	HaulingTripNumber	605.00	0.00
tblTripsAndVMT	HaulingTripNumber	14,083.00	0.00

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblTripsAndVMT	VendorTripNumber	182.00	0.00
tblTripsAndVMT	WorkerTripNumber	35.00	0.00
tblTripsAndVMT	WorkerTripNumber	8.00	0.00
tblTripsAndVMT	WorkerTripNumber	73.00	0.00
tblTripsAndVMT	WorkerTripNumber	40.00	0.00
tblTripsAndVMT	WorkerTripNumber	397.00	0.00
tblTripsAndVMT	WorkerTripNumber	18.00	0.00
tblTripsAndVMT	WorkerTripNumber	79.00	0.00
tblWater	IndoorWaterUseRate	122,469,216.39	122,103,084.87
tblWater	OutdoorWaterUseRate	75,061,777.79	74,837,374.60

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2026	0.6440	5.9804	7.0179	0.0139	1.6567	0.2640	1.9207	0.8254	0.2460	1.0714	0.0000	1,216.7848	1,216.7848	0.3308	0.0000	1,225.0550
2027	0.1883	1.7021	2.4606	4.1900e-003	0.0000	0.0781	0.0781	0.0000	0.0746	0.0746	0.0000	363.9883	363.9883	0.0620	0.0000	365.5393
2028	3.9440	2.4347	3.4958	5.7500e-003	0.0000	0.1127	0.1127	0.0000	0.1070	0.1070	0.0000	499.7134	499.7134	0.0935	0.0000	502.0509
2029	0.0586	0.5380	0.7860	1.2500e-003	0.0000	0.0248	0.0248	0.0000	0.0237	0.0237	0.0000	108.1521	108.1521	0.0171	0.0000	108.5797
2030	0.0501	0.3543	0.7744	1.3200e-003	0.0000	6.3400e-003	6.3400e-003	0.0000	6.3400e-003	6.3400e-003	0.0000	112.8584	112.8584	4.0400e-003	0.0000	112.9594
2031	0.0150	0.1064	0.2326	4.0000e-004	0.0000	1.9000e-003	1.9000e-003	0.0000	1.9000e-003	1.9000e-003	0.0000	33.8936	33.8936	1.2100e-003	0.0000	33.9239

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Maximum	**3.9440**	**5.9804**	**7.0179**	**0.0139**	**1.6567**	**0.2640**	**1.9207**	**0.8254**	**0.2460**	**1.0714**	**0.0000**	**1,216.7848**	**1,216.7848**	**0.3308**	**0.0000**	**1,225.0550**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2026	0.2361	4.9988	8.9281	0.0139	0.6461	0.0338	0.6799	0.1610	0.0338	0.1948	0.0000	1,216.7834	1,216.7834	0.3308	0.0000	1,225.0535
2027	0.0822	1.5754	2.7577	4.1900e-003	0.0000	6.1800e-003	6.1800e-003	0.0000	6.1800e-003	6.1800e-003	0.0000	363.9878	363.9878	0.0620	0.0000	365.5389
2028	3.7957	2.2135	3.8609	5.7500e-003	0.0000	8.5700e-003	8.5700e-003	0.0000	8.5700e-003	8.5700e-003	0.0000	499.7128	499.7128	0.0935	0.0000	502.0503
2029	0.0249	0.4842	0.8377	1.2500e-003	0.0000	1.8100e-003	1.8100e-003	0.0000	1.8100e-003	1.8100e-003	0.0000	108.1520	108.1520	0.0171	0.0000	108.5796
2030	0.0240	0.4662	0.8060	1.3200e-003	0.0000	1.7400e-003	1.7400e-003	0.0000	1.7400e-003	1.7400e-003	0.0000	112.8582	112.8582	4.0400e-003	0.0000	112.9593
2031	7.2000e-003	0.1400	0.2421	4.0000e-004	0.0000	5.2000e-004	5.2000e-004	0.0000	5.2000e-004	5.2000e-004	0.0000	33.8935	33.8935	1.2100e-003	0.0000	33.9239
Maximum	**3.7957**	**4.9988**	**8.9281**	**0.0139**	**0.6461**	**0.0338**	**0.6799**	**0.1610**	**0.0338**	**0.1948**	**0.0000**	**1,216.7834**	**1,216.7834**	**0.3308**	**0.0000**	**1,225.0535**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**14.90**	**11.13**	**-18.05**	**0.00**	**61.00**	**89.22**	**67.42**	**80.50**	**88.55**	**83.38**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**4-1-2026**	**6-30-2026**	1.7418	1.3777
2	**7-1-2026**	**9-30-2026**	3.6637	2.8035

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3	**10-1-2026**	**12-31-2026**	1.2091	1.0469
4	**1-1-2027**	**3-31-2027**	0.4162	0.3667
5	**4-1-2027**	**6-30-2027**	0.4209	0.3707
6	**7-1-2027**	**9-30-2027**	0.4397	0.3869
7	**10-1-2027**	**12-31-2027**	0.6121	0.5320
8	**1-1-2028**	**3-31-2028**	1.7917	1.6856
9	**4-1-2028**	**6-30-2028**	2.1457	2.0396
10	**7-1-2028**	**9-30-2028**	1.8731	1.7873
11	**10-1-2028**	**12-31-2028**	0.5703	0.4983
12	**1-1-2029**	**3-31-2029**	0.1602	0.1371
13	**4-1-2029**	**6-30-2029**	0.1433	0.1221
14	**7-1-2029**	**9-30-2029**	0.1449	0.1235
15	**10-1-2029**	**12-31-2029**	0.1449	0.1235
16	**1-1-2030**	**3-31-2030**	0.0997	0.1208
17	**4-1-2030**	**6-30-2030**	0.1008	0.1221
18	**7-1-2030**	**9-30-2030**	0.1019	0.1235
19	**10-1-2030**	**12-31-2030**	0.1019	0.1235
20	**1-1-2031**	**3-31-2031**	0.0997	0.1208
21	**4-1-2031**	**6-30-2031**	0.0210	0.0255
		Highest	3.6637	2.8035

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	4/1/2026	12/29/2026	6	234	
2	Site Preparation	Site Preparation	5/22/2026	7/23/2026	6	54	
3	Grading	Grading	6/5/2026	9/12/2026	6	86	

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4	Trenching/Foundation	Trenching	7/26/2026	1/4/2029	6	766	
5	Building Construction	Building Construction	9/22/2027	4/19/2031	6	1120	
6	Paving	Paving	12/11/2027	8/5/2028	6	205	
7	Architectural Coating	Architectural Coating	1/24/2028	9/18/2028	6	205	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 241.88

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,033,592; Non-Residential Outdoor: 344,531; Striped Parking Area: 25,200

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Aerial Lifts	1	6.50	0	0.31
Demolition	Air Compressors	1	4.20	0	0.48
Demolition	Concrete/Industrial Saws	3	8.20	0	0.73
Demolition	Excavators	4	7.90	158	0.38
Demolition	Forklifts	1	10.00	89	0.20
Demolition	Generator Sets	1	5.40	84	0.74
Demolition	Rubber Tired Dozers	1	10.00	247	0.40
Demolition	Sweepers/Scrubbers	1	6.50	64	0.46
Demolition	Tractors/Loaders/Backhoes	1	8.10	97	0.37
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Sweepers/Scrubbers	1	4.30	64	0.46
Site Preparation	Tractors/Loaders/Backhoes	2	8.10	97	0.37
Grading	Air Compressors	1	4.20	0	0.48
Grading	Bore/Drill Rigs	2	2.00	221	0.50
Grading	Bore/Drill Rigs	2	4.00	221	0.50
Grading	Bore/Drill Rigs	4	6.70	221	0.50

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Grading	Excavators	4	7.90	158	0.38
Grading	Generator Sets	1	8.10	84	0.74
Grading	Graders	0	0.00	187	0.41
Grading	Plate Compactors	2	2.00	8	0.43
Grading	Pumps	1	24.00	84	0.74
Grading	Rubber Tired Dozers	5	9.00	247	0.40
Grading	Skid Steer Loaders	1	3.60	65	0.37
Grading	Sweepers/Scrubbers	2	8.70	64	0.46
Grading	Tractors/Loaders/Backhoes	4	10.80	97	0.37
Trenching/Foundation	Aerial Lifts	2	5.20	0	0.31
Trenching/Foundation	Bore/Drill Rigs	4	0.60	221	0.50
Trenching/Foundation	Cranes	1	6.90	0	0.29
Trenching/Foundation	Forklifts	4	10.00	89	0.20
Trenching/Foundation	Generator Sets	1	5.40	84	0.74
Trenching/Foundation	Pumps	2	5.40	84	0.74
Trenching/Foundation	Tractors/Loaders/Backhoes	2	0.50	97	0.37
Building Construction	Aerial Lifts	2	9.70	0	0.31
Building Construction	Cement and Mortar Mixers	1	7.10	0	0.56
Building Construction	Cranes	1	10.30	0	0.29
Building Construction	Forklifts	2	7.50	89	0.20
Building Construction	Generator Sets	1	5.40	84	0.74
Building Construction	Plate Compactors	1	0.90	8	0.43
Building Construction	Tractors/Loaders/Backhoes	1	0.80	97	0.37
Building Construction	Welders	1	2.20	0	0.45
Paving	Concrete/Industrial Saws	2	0.40	0	0.73
Paving	Pavers	1	4.80	0	0.42
Paving	Paving Equipment	0	0.00	132	0.36
Paving	Rollers	1	5.30	80	0.38
Paving	Rollers	2	6.60	80	0.38

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Paving	Tractors/Loaders/Backhoes	1	5.40	97	0.37
Architectural Coating	Air Compressors	1	8.30	0	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	14	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	29	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching/Foundation	16	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Alternative Fuel for Construction Equipment

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Fugitive Dust					0.0655	0.0000	0.0655	9.9100e-003	0.0000	9.9100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2364	2.1405	2.8445	4.9900e-003		0.0983	0.0983		0.0911	0.0911	0.0000	437.4555	437.4555	0.1287	0.0000	440.6729
Total	**0.2364**	**2.1405**	**2.8445**	**4.9900e-003**	**0.0655**	**0.0983**	**0.1638**	**9.9100e-003**	**0.0911**	**0.1010**	**0.0000**	**437.4555**	**437.4555**	**0.1287**	**0.0000**	**440.6729**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Fugitive Dust					0.0255	0.0000	0.0255	1.9300e-003	0.0000	1.9300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0785	1.9602	3.4236	4.9900e-003		0.0131	0.0131		0.0131	0.0131	0.0000	437.4550	437.4550	0.1287	0.0000	440.6724
Total	**0.0785**	**1.9602**	**3.4236**	**4.9900e-003**	**0.0255**	**0.0131**	**0.0387**	**1.9300e-003**	**0.0131**	**0.0151**	**0.0000**	**437.4550**	**437.4550**	**0.1287**	**0.0000**	**440.6724**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.3 Site Preparation - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.5100e-003	0.0942	0.1495	2.1000e-004		4.1600e-003	4.1600e-003		3.8300e-003	3.8300e-003	0.0000	18.2231	18.2231	5.8900e-003	0.0000	18.3705
Total	**9.5100e-003**	**0.0942**	**0.1495**	**2.1000e-004**	**0.0000**	**4.1600e-003**	**4.1600e-003**	**0.0000**	**3.8300e-003**	**3.8300e-003**	**0.0000**	**18.2231**	**18.2231**	**5.8900e-003**	**0.0000**	**18.3705**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.7100e-003	0.0947	0.1559	2.1000e-004		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003	0.0000	18.2231	18.2231	5.8900e-003	0.0000	18.3704
Total	**4.7100e-003**	**0.0947**	**0.1559**	**2.1000e-004**	**0.0000**	**1.1200e-003**	**1.1200e-003**	**0.0000**	**1.1200e-003**	**1.1200e-003**	**0.0000**	**18.2231**	**18.2231**	**5.8900e-003**	**0.0000**	**18.3704**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.4 Grading - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Fugitive Dust					1.5912	0.0000	1.5912	0.8155	0.0000	0.8155	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3247	3.0853	3.0688	7.0700e-003		0.1313	0.1313		0.1222	0.1222	0.0000	618.3137	618.3137	0.1722	0.0000	622.6174
Total	**0.3247**	**3.0853**	**3.0688**	**7.0700e-003**	**1.5912**	**0.1313**	**1.7225**	**0.8155**	**0.1222**	**0.9376**	**0.0000**	**618.3137**	**618.3137**	**0.1722**	**0.0000**	**622.6174**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Fugitive Dust					0.6206	0.0000	0.6206	0.1590	0.0000	0.1590	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1208	2.3296	4.2718	7.0700e-003		0.0171	0.0171		0.0171	0.0171	0.0000	618.3130	618.3130	0.1722	0.0000	622.6167
Total	**0.1208**	**2.3296**	**4.2718**	**7.0700e-003**	**0.6206**	**0.0171**	**0.6377**	**0.1590**	**0.0171**	**0.1761**	**0.0000**	**618.3130**	**618.3130**	**0.1722**	**0.0000**	**622.6167**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.5 Trenching/Foundation - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Off-Road	0.0734	0.6604	0.9550	1.6500e-003		0.0302	0.0302		0.0289	0.0289	0.0000	142.7924	142.7924	0.0241	0.0000	143.3942
Total	**0.0734**	**0.6604**	**0.9550**	**1.6500e-003**		**0.0302**	**0.0302**		**0.0289**	**0.0289**	**0.0000**	**142.7924**	**142.7924**	**0.0241**	**0.0000**	**143.3942**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-Road	0.0321	0.6143	1.0768	1.6500e-003		2.4200e-003	2.4200e-003		2.4200e-003	2.4200e-003	0.0000	142.7923	142.7923	0.0241	0.0000	143.3940
Total	**0.0321**	**0.6143**	**1.0768**	**1.6500e-003**		**2.4200e-003**	**2.4200e-003**		**2.4200e-003**	**2.4200e-003**	**0.0000**	**142.7923**	**142.7923**	**0.0241**	**0.0000**	**143.3940**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.5 Trenching/Foundation - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1690	1.5198	2.1979	3.7900e-003		0.0696	0.0696		0.0666	0.0666	0.0000	328.6326	328.6326	0.0554	0.0000	330.0175

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.1690**	**1.5198**	**2.1979**	**3.7900e-003**		**0.0696**	**0.0696**		**0.0666**	**0.0666**	**0.0000**	**328.6326**	**328.6326**	**0.0554**	**0.0000**	**330.0175**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0739	1.4138	2.4782	3.7900e-003		5.5800e-003	5.5800e-003		5.5800e-003	5.5800e-003	0.0000	328.6322	328.6322	0.0554	0.0000	330.0171
Total	**0.0739**	**1.4138**	**2.4782**	**3.7900e-003**		**5.5800e-003**	**5.5800e-003**		**5.5800e-003**	**5.5800e-003**	**0.0000**	**328.6322**	**328.6322**	**0.0554**	**0.0000**	**330.0171**

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.5 Trenching/Foundation - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1690	1.5198	2.1979	3.7900e-003		0.0696	0.0696		0.0666	0.0666	0.0000	328.6326	328.6326	0.0554	0.0000	330.0175
Total	**0.1690**	**1.5198**	**2.1979**	**3.7900e-003**		**0.0696**	**0.0696**		**0.0666**	**0.0666**	**0.0000**	**328.6326**	**328.6326**	**0.0554**	**0.0000**	**330.0175**

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0739	1.4138	2.4782	3.7900e-003		5.5800e-003	5.5800e-003		5.5800e-003	5.5800e-003	0.0000	328.6322	328.6322	0.0554	0.0000	330.0171
Total	**0.0739**	**1.4138**	**2.4782**	**3.7900e-003**		**5.5800e-003**	**5.5800e-003**		**5.5800e-003**	**5.5800e-003**	**0.0000**	**328.6322**	**328.6322**	**0.0554**	**0.0000**	**330.0171**

Mitigated Construction Off-Site

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.5 Trenching/Foundation - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.1600e-003	0.0194	0.0281	5.0000e-005		8.9000e-004	8.9000e-004		8.5000e-004	8.5000e-004	0.0000	4.1998	4.1998	7.1000e-004	0.0000	4.2175
Total	**2.1600e-003**	**0.0194**	**0.0281**	**5.0000e-005**		**8.9000e-004**	**8.9000e-004**		**8.5000e-004**	**8.5000e-004**	**0.0000**	**4.1998**	**4.1998**	**7.1000e-004**	**0.0000**	**4.2175**

Unmitigated Construction Off-Site

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.4000e-004	0.0181	0.0317	5.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	4.1998	4.1998	7.1000e-004	0.0000	4.2175
Total	**9.4000e-004**	**0.0181**	**0.0317**	**5.0000e-005**		**7.0000e-005**	**7.0000e-005**		**7.0000e-005**	**7.0000e-005**	**0.0000**	**4.1998**	**4.1998**	**7.1000e-004**	**0.0000**	**4.2175**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0157	0.1441	0.2107	3.3000e-004		6.6600e-003	6.6600e-003		6.3500e-003	6.3500e-003	0.0000	28.8941	28.8941	4.5600e-003	0.0000	29.0080
Total	**0.0157**	**0.1441**	**0.2107**	**3.3000e-004**		**6.6600e-003**	**6.6600e-003**		**6.3500e-003**	**6.3500e-003**	**0.0000**	**28.8941**	**28.8941**	**4.5600e-003**	**0.0000**	**29.0080**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.6600e-003	0.1296	0.2240	3.3000e-004		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004	0.0000	28.8941	28.8941	4.5600e-003	0.0000	29.0080
Total	**6.6600e-003**	**0.1296**	**0.2240**	**3.3000e-004**		**4.8000e-004**	**4.8000e-004**		**4.8000e-004**	**4.8000e-004**	**0.0000**	**28.8941**	**28.8941**	**4.5600e-003**	**0.0000**	**29.0080**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0564	0.5186	0.7579	1.2000e-003		0.0240	0.0240		0.0229	0.0229	0.0000	103.9523	103.9523	0.0164	0.0000	104.3622
Total	**0.0564**	**0.5186**	**0.7579**	**1.2000e-003**		**0.0240**	**0.0240**		**0.0229**	**0.0229**	**0.0000**	**103.9523**	**103.9523**	**0.0164**	**0.0000**	**104.3622**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0240	0.4662	0.8060	1.2000e-003		1.7400e-003	1.7400e-003		1.7400e-003	1.7400e-003	0.0000	103.9522	103.9522	0.0164	0.0000	104.3621
Total	**0.0240**	**0.4662**	**0.8060**	**1.2000e-003**		**1.7400e-003**	**1.7400e-003**		**1.7400e-003**	**1.7400e-003**	**0.0000**	**103.9522**	**103.9522**	**0.0164**	**0.0000**	**104.3621**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0564	0.5186	0.7579	1.2000e-003		0.0240	0.0240		0.0229	0.0229	0.0000	103.9523	103.9523	0.0164	0.0000	104.3622
Total	**0.0564**	**0.5186**	**0.7579**	**1.2000e-003**		**0.0240**	**0.0240**		**0.0229**	**0.0229**	**0.0000**	**103.9523**	**103.9523**	**0.0164**	**0.0000**	**104.3622**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0240	0.4662	0.8060	1.2000e-003		1.7400e-003	1.7400e-003		1.7400e-003	1.7400e-003	0.0000	103.9522	103.9522	0.0164	0.0000	104.3621
Total	**0.0240**	**0.4662**	**0.8060**	**1.2000e-003**		**1.7400e-003**	**1.7400e-003**		**1.7400e-003**	**1.7400e-003**	**0.0000**	**103.9522**	**103.9522**	**0.0164**	**0.0000**	**104.3621**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Building Construction - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0501	0.3543	0.7744	1.3200e-003		6.3400e-003	6.3400e-003		6.3400e-003	6.3400e-003	0.0000	112.8584	112.8584	4.0400e-003	0.0000	112.9594
Total	**0.0501**	**0.3543**	**0.7744**	**1.3200e-003**		**6.3400e-003**	**6.3400e-003**		**6.3400e-003**	**6.3400e-003**	**0.0000**	**112.8584**	**112.8584**	**4.0400e-003**	**0.0000**	**112.9594**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0240	0.4662	0.8060	1.3200e-003		1.7400e-003	1.7400e-003		1.7400e-003	1.7400e-003	0.0000	112.8582	112.8582	4.0400e-003	0.0000	112.9593
Total	**0.0240**	**0.4662**	**0.8060**	**1.3200e-003**		**1.7400e-003**	**1.7400e-003**		**1.7400e-003**	**1.7400e-003**	**0.0000**	**112.8582**	**112.8582**	**4.0400e-003**	**0.0000**	**112.9593**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Building Construction - 2031

Unmitigated Construction On-Site

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0150	0.1064	0.2326	4.0000e-004		1.9000e-003	1.9000e-003		1.9000e-003	1.9000e-003	0.0000	33.8936	33.8936	1.2100e-003	0.0000	33.9239
Total	**0.0150**	**0.1064**	**0.2326**	**4.0000e-004**		**1.9000e-003**	**1.9000e-003**		**1.9000e-003**	**1.9000e-003**	**0.0000**	**33.8936**	**33.8936**	**1.2100e-003**	**0.0000**	**33.9239**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Off-Road	7.2000e-003	0.1400	0.2421	4.0000e-004		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	33.8935	33.8935	1.2100e-003	0.0000	33.9239
Total	**7.2000e-003**	**0.1400**	**0.2421**	**4.0000e-004**		**5.2000e-004**	**5.2000e-004**		**5.2000e-004**	**5.2000e-004**	**0.0000**	**33.8935**	**33.8935**	**1.2100e-003**	**0.0000**	**33.9239**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.7 Paving - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-Road	3.6500e-003	0.0381	0.0520	7.0000e-005		1.8400e-003	1.8400e-003		1.6900e-003	1.6900e-003	0.0000	6.4616	6.4616	2.0900e-003	0.0000	6.5138
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.6500e-003**	**0.0381**	**0.0520**	**7.0000e-005**		**1.8400e-003**	**1.8400e-003**		**1.6900e-003**	**1.6900e-003**	**0.0000**	**6.4616**	**6.4616**	**2.0900e-003**	**0.0000**	**6.5138**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-Road	1.6500e-003	0.0321	0.0555	7.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	6.4616	6.4616	2.0900e-003	0.0000	6.5138
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.6500e-003**	**0.0321**	**0.0555**	**7.0000e-005**		**1.2000e-004**	**1.2000e-004**		**1.2000e-004**	**1.2000e-004**	**0.0000**	**6.4616**	**6.4616**	**2.0900e-003**	**0.0000**	**6.5138**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.7 Paving - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-Road	0.0380	0.3963	0.5400	7.6000e-004		0.0191	0.0191		0.0176	0.0176	0.0000	67.1285	67.1285	0.0217	0.0000	67.6712
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0380**	**0.3963**	**0.5400**	**7.6000e-004**		**0.0191**	**0.0191**		**0.0176**	**0.0176**	**0.0000**	**67.1285**	**67.1285**	**0.0217**	**0.0000**	**67.6712**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-Road	0.0172	0.3336	0.5768	7.6000e-004		1.2500e-003	1.2500e-003		1.2500e-003	1.2500e-003	0.0000	67.1284	67.1284	0.0217	0.0000	67.6711
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0172**	**0.3336**	**0.5768**	**7.6000e-004**		**1.2500e-003**	**1.2500e-003**		**1.2500e-003**	**1.2500e-003**	**0.0000**	**67.1284**	**67.1284**	**0.0217**	**0.0000**	**67.6711**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.8 Architectural Coating - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Archit. Coating	3.6806					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.6806**					**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	3.6806					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**3.6806**					**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Google Middlefield, Const Phase 4, District Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Google Middlefield, Const Phase 4, District Util - Infrastructure - Unmitigated

Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	1.00	Acre	1.00	43,560.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2027
Utility Company	Silicon Valley Clean Energy				
CO2 Intensity (lb/MWhr)	2	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - As per supplied construction schedule

Land Use -

Construction Phase - As per supplied construction schedule

Off-road Equipment -

Off-road Equipment - provided construction equipment

Trips and VMT - 0 trips emfac 2021, infra = 1 striper truck

Grading -

Architectural Coating -

Construction Off-road Equipment Mitigation - BMPs, Tier 4 I + Electrical

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Parking	150	0

Google Middlefield, Const Phase 4, District Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblAreaCoating	Area_Parking	2614	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	0
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	150	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	100	0
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	2.00	68.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstructionPhase	NumDaysWeek	5.00	6.00
tblFleetMix	HHD	6.2400e-003	0.00
tblFleetMix	LDA	0.58	0.00
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.2570e-003	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	2.6240e-003	0.00
tblFleetMix	MHD	8.1590e-003	0.00
tblFleetMix	OBUS	8.7700e-004	0.00
tblFleetMix	SBUS	8.7400e-004	0.00
tblFleetMix	UBUS	3.5600e-004	0.00
tblOffRoadEquipment	HorsePower	78.00	0.00
tblOffRoadEquipment	HorsePower	9.00	0.00
tblOffRoadEquipment	HorsePower	81.00	0.00
tblOffRoadEquipment	HorsePower	46.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	7.00	2.70
tblTripsAndVMT	WorkerTripNumber	25.00	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

Date: 12/2/2021 4:41 PM

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2028	0.0270	0.2501	0.3868	6.2000e-004	0.0000	0.0114	0.0114	0.0000	0.0107	0.0107	0.0000	53.9924	53.9924	0.0134	0.0000	54.3276
Maximum	**0.0270**	**0.2501**	**0.3868**	**6.2000e-004**	**0.0000**	**0.0114**	**0.0114**	**0.0000**	**0.0107**	**0.0107**	**0.0000**	**53.9924**	**53.9924**	**0.0134**	**0.0000**	**54.3276**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2028	0.0100	0.2528	0.4333	6.2000e-004	0.0000	1.2100e-003	1.2100e-003	0.0000	1.2100e-003	1.2100e-003	0.0000	53.9923	53.9923	0.0134	0.0000	54.3275
Maximum	**0.0100**	**0.2528**	**0.4333**	**6.2000e-004**	**0.0000**	**1.2100e-003**	**1.2100e-003**	**0.0000**	**1.2100e-003**	**1.2100e-003**	**0.0000**	**53.9923**	**53.9923**	**0.0134**	**0.0000**	**54.3275**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**62.98**	**-1.08**	**-12.02**	**0.00**	**0.00**	**89.41**	**89.41**	**0.00**	**88.72**	**88.72**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	3-1-2028	5-31-2028	0.2759	0.2617
		Highest	0.2759	0.2617

Google Middlefield, Const Phase 4, District Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Infrastructure	Grading	3/1/2028	5/18/2028	6	68	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 1

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating –

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Infrastructure	Air Compressors	0	0.00	0	0.48
Infrastructure	Cement and Mortar Mixers	1	10.70	0	0.56
Infrastructure	Concrete/Industrial Saws	1	1.40	0	0.73
Infrastructure	Generator Sets	1	5.40	84	0.74
Infrastructure	Graders	0	0.00	187	0.41
Infrastructure	Pavers	2	7.10	130	0.42
Infrastructure	Plate Compactors	2	5.80	8	0.43
Infrastructure	Pumps	0	0.00	84	0.74
Infrastructure	Rollers	1	10.50	80	0.38
Infrastructure	Rubber Tired Dozers	0	0.00	247	0.40
Infrastructure	Sweepers/Scrubbers	1	1.20	64	0.46
Infrastructure	Tractors/Loaders/Backhoes	1	2.70	97	0.37
Infrastructure	Welders	0	0.00	0	0.45

Trips and VMT

Google Middlefield, Const Phase 4, District Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Infrastructure	10	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Alternative Fuel for Construction Equipment

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Infrastructure - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0270	0.2501	0.3868	6.2000e-004		0.0114	0.0114		0.0107	0.0107	0.0000	53.9924	53.9924	0.0134	0.0000	54.3276
Total	**0.0270**	**0.2501**	**0.3868**	**6.2000e-004**	**0.0000**	**0.0114**	**0.0114**	**0.0000**	**0.0107**	**0.0107**	**0.0000**	**53.9924**	**53.9924**	**0.0134**	**0.0000**	**54.3276**

Unmitigated Construction Off-Site

Google Middlefield, Const Phase 4, District Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0100	0.2528	0.4333	6.2000e-004		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003	0.0000	53.9923	53.9923	0.0134	0.0000	54.3275
Total	**0.0100**	**0.2528**	**0.4333**	**6.2000e-004**	**0.0000**	**1.2100e-003**	**1.2100e-003**	**0.0000**	**1.2100e-003**	**1.2100e-003**	**0.0000**	**53.9923**	**53.9923**	**0.0134**	**0.0000**	**54.3275**

Mitigated Construction Off-Site

Date: 12/2/2021 4:41 PM

Google Middlefield, Const Phase 4, District Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Google Middlefield, Const Phase 1, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Google Middlefield, Const Phase 1, District Util - Mitigated

Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	838.00	Space	0.00	343,000.00	0
Apartments Mid Rise	750.00	Dwelling Unit	6.20	692,434.00	2145
Strip Mall	22.51	1000sqft	0.00	22,508.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2026
Utility Company	Silicon Valley Clean Energy				
CO2 Intensity (lb/MWhr)	2	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - As per supplied construction schedule
Land Use - As per supplied construction schedule
Construction Phase - As per supplied construction schedule
Off-road Equipment - As per supplied construction schedule
Off-road Equipment - As per supplied construction schedule
Off-road Equipment - As per supplied construction schedule
Off-road Equipment - As per supplied construction schedule
Off-road Equipment - As per supplied construction schedule
Off-road Equipment - As per supplied construction schedule
Off-road Equipment - As per supplied construction schedule

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Trips and VMT - 0 Trips for EMFAC2021 adjustments, demo = 5,848 tons asphalt, site prep - 2 water trucks

Demolition - As per supplied construction schedule - 149,337-sf building demo

Grading - grading = 201,721-cy export + 1,713-cy export geothermal bore

Architectural Coating - At least 80% of paints have to be super-compliant VOC = effectively 20g/L interior and 30g/L exterior

Construction Off-road Equipment Mitigation - BMPs, Tier 4 Final + Electrical equipment

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	30.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	20.00
tblArchitecturalCoating	EF_Parking	150.00	30.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	30.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	20.00
tblAreaCoating	Area_EF_Parking	150	0
tblAreaCoating	Area_Nonresidential_Exterior	11254	0
tblAreaCoating	Area_Nonresidential_Interior	33762	0
tblAreaCoating	Area_Parking	20580	0
tblAreaCoating	Area_Residential_Exterior	467393	0
tblAreaCoating	Area_Residential_Interior	1402179	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	0
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	150	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	100	0
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	17.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	17.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	48.00
tblConstructionPhase	NumDays	230.00	395.00
tblConstructionPhase	NumDays	20.00	56.00
tblConstructionPhase	NumDays	20.00	56.00
tblConstructionPhase	NumDays	20.00	48.00
tblConstructionPhase	NumDays	10.00	16.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblFleetMix	HHD	6.3120e-003	0.00
tblFleetMix	HHD	6.3120e-003	0.00
tblFleetMix	HHD	6.3120e-003	0.00
tblFleetMix	LDA	0.57	0.00
tblFleetMix	LDA	0.57	0.00
tblFleetMix	LDA	0.57	0.00
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LHD1	0.02	0.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.2090e-003	0.00
tblFleetMix	LHD2	5.2090e-003	0.00
tblFleetMix	LHD2	5.2090e-003	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	2.6680e-003	0.00
tblFleetMix	MH	2.6680e-003	0.00
tblFleetMix	MH	2.6680e-003	0.00
tblFleetMix	MHD	8.0910e-003	0.00
tblFleetMix	MHD	8.0910e-003	0.00
tblFleetMix	MHD	8.0910e-003	0.00
tblFleetMix	OBUS	8.8400e-004	0.00
tblFleetMix	OBUS	8.8400e-004	0.00
tblFleetMix	OBUS	8.8400e-004	0.00
tblFleetMix	SBUS	8.8700e-004	0.00
tblFleetMix	SBUS	8.8700e-004	0.00
tblFleetMix	SBUS	8.8700e-004	0.00
tblFleetMix	UBUS	3.6400e-004	0.00
tblFleetMix	UBUS	3.6400e-004	0.00
tblFleetMix	UBUS	3.6400e-004	0.00
tblGrading	MaterialExported	0.00	203,434.00
tblLandUse	LandUseSquareFeet	335,200.00	343,000.00
tblLandUse	LandUseSquareFeet	750,000.00	692,434.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblLandUse	LandUseSquareFeet	22,510.00	22,508.00
tblLandUse	LotAcreage	7.54	0.00
tblLandUse	LotAcreage	19.74	6.20
tblLandUse	LotAcreage	0.52	0.00
tblOffRoadEquipment	HorsePower	78.00	0.00
tblOffRoadEquipment	HorsePower	81.00	0.00
tblOffRoadEquipment	HorsePower	231.00	0.00
tblOffRoadEquipment	HorsePower	46.00	0.00
tblOffRoadEquipment	HorsePower	63.00	0.00
tblOffRoadEquipment	HorsePower	63.00	0.00
tblOffRoadEquipment	HorsePower	63.00	0.00
tblOffRoadEquipment	HorsePower	78.00	0.00
tblOffRoadEquipment	HorsePower	78.00	0.00
tblOffRoadEquipment	HorsePower	9.00	0.00
tblOffRoadEquipment	HorsePower	81.00	0.00
tblOffRoadEquipment	HorsePower	231.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.30
tblOffRoadEquipment	UsageHours	8.00	2.70
tblOffRoadEquipment	UsageHours	7.00	10.30
tblOffRoadEquipment	UsageHours	8.00	7.90
tblOffRoadEquipment	UsageHours	8.00	7.90
tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	8.00	5.40
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	8.80
tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.80
tblOffRoadEquipment	UsageHours	8.00	10.80
tblOffRoadEquipment	UsageHours	8.00	8.10
tblOffRoadEquipment	UsageHours	8.00	2.20
tblTripsAndVMT	HaulingTripNumber	679.00	0.00
tblTripsAndVMT	HaulingTripNumber	25,429.00	0.00
tblTripsAndVMT	VendorTripNumber	140.00	0.00
tblTripsAndVMT	WorkerTripNumber	50.00	0.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblTripsAndVMT	WorkerTripNumber	103.00	0.00
tblTripsAndVMT	WorkerTripNumber	60.00	0.00
tblTripsAndVMT	WorkerTripNumber	691.00	0.00
tblTripsAndVMT	WorkerTripNumber	23.00	0.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblTripsAndVMT	WorkerTripNumber	138.00	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.1131	1.1108	0.9886	1.7200e-003	0.0696	0.0566	0.1261	0.0105	0.0525	0.0630	0.0000	150.5859	150.5859	0.0431	0.0000	151.6640
2023	0.5564	5.2207	5.4412	0.0117	1.3914	0.2464	1.6379	0.7095	0.2331	0.9426	0.0000	1,023.0287	1,023.0287	0.2358	0.0000	1,028.9228
2024	0.1218	1.1138	1.5250	2.4100e-003	0.0000	0.0559	0.0559	0.0000	0.0534	0.0534	0.0000	208.5607	208.5607	0.0333	0.0000	209.3935
2025	1.0299	0.1774	0.2476	3.5000e-004	0.0000	8.4200e-003	8.4200e-003	0.0000	7.7800e-003	7.7800e-003	0.0000	31.1178	31.1178	9.4000e-003	0.0000	31.3529
Maximum	**1.0299**	**5.2207**	**5.4412**	**0.0117**	**1.3914**	**0.2464**	**1.6379**	**0.7095**	**0.2331**	**0.9426**	**0.0000**	**1,023.0287**	**1,023.0287**	**0.2358**	**0.0000**	**1,028.9228**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.0219	0.1445	1.0946	1.7200e-003	0.0271	2.7400e-003	0.0299	2.0500e-003	2.7400e-003	4.7900e-003	0.0000	150.5857	150.5857	0.0431	0.0000	151.6638

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2023	0.1397	0.7764	6.7261	0.0117	0.5427	0.0180	0.5607	0.1384	0.0180	0.1564	0.0000	1,023.0275	1,023.0275	0.2358	0.0000	1,028.9215
2024	0.0262	0.1136	1.6172	2.4100e-003	0.0000	3.5000e-003	3.5000e-003	0.0000	3.5000e-003	3.5000e-003	0.0000	208.5604	208.5604	0.0333	0.0000	209.3933
2025	1.0169	0.0185	0.2639	3.5000e-004	0.0000	5.7000e-004	5.7000e-004	0.0000	5.7000e-004	5.7000e-004	0.0000	31.1177	31.1177	9.4000e-003	0.0000	31.3528
Maximum	**1.0169**	**0.7764**	**6.7261**	**0.0117**	**0.5427**	**0.0180**	**0.5607**	**0.1384**	**0.0180**	**0.1564**	**0.0000**	**1,023.0275**	**1,023.0275**	**0.2358**	**0.0000**	**1,028.9215**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**33.85**	**86.18**	**-18.28**	**0.00**	**61.00**	**93.24**	**67.48**	**80.50**	**92.84**	**84.51**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**11-1-2022**	**1-31-2023**	1.7896	0.2716
2	**2-1-2023**	**4-30-2023**	3.4338	0.5855
3	**5-1-2023**	**7-31-2023**	0.8417	0.1105
4	**8-1-2023**	**10-31-2023**	0.6927	0.0883
5	**11-1-2023**	**1-31-2024**	0.3259	0.0351
6	**2-1-2024**	**4-30-2024**	0.3036	0.0344
7	**5-1-2024**	**7-31-2024**	0.3103	0.0351
8	**8-1-2024**	**10-31-2024**	0.3103	0.0351
9	**11-1-2024**	**1-31-2025**	0.3018	0.0346
10	**2-1-2025**	**4-30-2025**	1.1113	1.0242
		Highest	3.4338	1.0242

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

1	Demolition	Demolition	11/1/2022	1/4/2023	6	56	
2	Site Preparation	Site Preparation	1/5/2023	1/23/2023	6	16	
3	Grading	Grading	1/24/2023	3/29/2023	6	56	
4	Trenching	Trenching	3/31/2023	10/4/2023	6	161	
5	Building Construction	Building Construction	10/5/2023	1/7/2025	6	395	
6	Paving	Paving	1/8/2025	3/4/2025	6	48	
7	Architectural Coating	Architectural Coating	3/6/2025	4/30/2025	6	48	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 210

Acres of Paving: 0

Residential Indoor: 1,402,179; Residential Outdoor: 467,393; Non-Residential Indoor: 33,762; Non-Residential Outdoor: 11,254; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Aerial Lifts	2	6.50	0	0.31
Demolition	Air Compressors	2	4.20	0	0.48
Demolition	Concrete/Industrial Saws	2	2.70	0	0.73
Demolition	Excavators	4	7.90	158	0.38
Demolition	Forklifts	2	10.00	89	0.20
Demolition	Generator Sets	2	5.40	84	0.74
Demolition	Rubber Tired Dozers	2	10.00	247	0.40
Demolition	Sweepers/Scrubbers	2	6.50	64	0.46
Demolition	Tractors/Loaders/Backhoes	2	8.10	97	0.37
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Sweepers/Scrubbers	2	4.30	64	0.46
Site Preparation	Tractors/Loaders/Backhoes	4	8.10	97	0.37
Grading	Air Compressors	2	4.20	0	0.48

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Grading	Bore/Drill Rigs	3	2.00	221	0.50
Grading	Bore/Drill Rigs	4	7.90	221	0.50
Grading	Bore/Drill Rigs	5	7.20	221	0.50
Grading	Excavators	4	7.90	158	0.38
Grading	Generator Sets	2	8.10	84	0.74
Grading	Graders	0	0.00	187	0.41
Grading	Plate Compactors	3	1.90	8	0.43
Grading	Pumps	2	24.00	84	0.74
Grading	Rubber Tired Dozers	6	10.00	247	0.40
Grading	Skid Steer Loaders	2	2.70	65	0.37
Grading	Sweepers/Scrubbers	4	8.70	64	0.46
Grading	Tractors/Loaders/Backhoes	4	10.80	97	0.37
Trenching	Aerial Lifts	4	9.70	0	0.31
Trenching	Bore/Drill Rigs	5	2.00	221	0.50
Trenching	Cranes	2	10.30	0	0.29
Trenching	Forklifts	4	10.00	89	0.20
Trenching	Generator Sets	2	5.40	84	0.74
Trenching	Pumps	4	5.40	84	0.74
Trenching	Tractors/Loaders/Backhoes	3	1.30	97	0.37
Building Construction	Aerial Lifts	4	9.70	0	0.31
Building Construction	Cement and Mortar Mixers	2	7.10	0	0.56
Building Construction	Cranes	2	10.30	0	0.29
Building Construction	Forklifts	3	10.00	89	0.20
Building Construction	Generator Sets	2	5.40	84	0.74
Building Construction	Plate Compactors	2	0.90	8	0.43
Building Construction	Tractors/Loaders/Backhoes	2	0.80	97	0.37
Building Construction	Welders	2	2.20	0	0.45
Paving	Concrete/Industrial Saws	4	0.30	0	0.73
Paving	Pavers	0	0.00	130	0.42

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Paving	Paving Equipment	0	0.00	132	0.36
Paving	Rollers	3	8.80	80	0.38
Paving	Tractors/Loaders/Backhoes	2	5.40	97	0.37
Architectural Coating	Air Compressors	2	8.30	0	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	20	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	6	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	41	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	24	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	19	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	9	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Alternative Fuel for Construction Equipment

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2022

Unmitigated Construction On-Site

Google Middlefield, Const Phase 1, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0696	0.0000	0.0696	0.0105	0.0000	0.0105	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1131	1.1108	0.9886	1.7200e-003		0.0566	0.0566		0.0525	0.0525	0.0000	150.5859	150.5859	0.0431	0.0000	151.6640
Total	**0.1131**	**1.1108**	**0.9886**	**1.7200e-003**	**0.0696**	**0.0566**	**0.1261**	**0.0105**	**0.0525**	**0.0630**	**0.0000**	**150.5859**	**150.5859**	**0.0431**	**0.0000**	**151.6640**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

Google Middlefield, Const Phase 1, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0271	0.0000	0.0271	2.0500e-003	0.0000	2.0500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0219	0.1445	1.0946	1.7200e-003		2.7400e-003	2.7400e-003		2.7400e-003	2.7400e-003	0.0000	150.5857	150.5857	0.0431	0.0000	151.6638
Total	**0.0219**	**0.1445**	**1.0946**	**1.7200e-003**	**0.0271**	**2.7400e-003**	**0.0299**	**2.0500e-003**	**2.7400e-003**	**4.7900e-003**	**0.0000**	**150.5857**	**150.5857**	**0.0431**	**0.0000**	**151.6638**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Demolition - 2023

Unmitigated Construction On-Site

Google Middlefield, Const Phase 1, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.9400e-003	0.0000	3.9400e-003	6.0000e-004	0.0000	6.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.5900e-003	0.0538	0.0541	1.0000e-004		2.6300e-003	2.6300e-003		2.4400e-003	2.4400e-003	0.0000	8.5250	8.5250	2.4400e-003	0.0000	8.5860
Total	**5.5900e-003**	**0.0538**	**0.0541**	**1.0000e-004**	**3.9400e-003**	**2.6300e-003**	**6.5700e-003**	**6.0000e-004**	**2.4400e-003**	**3.0400e-003**	**0.0000**	**8.5250**	**8.5250**	**2.4400e-003**	**0.0000**	**8.5860**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

Google Middlefield, Const Phase 1, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.5400e-003	0.0000	1.5400e-003	1.2000e-004	0.0000	1.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2400e-003	8.1800e-003	0.0620	1.0000e-004		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	8.5250	8.5250	2.4400e-003	0.0000	8.5860
Total	**1.2400e-003**	**8.1800e-003**	**0.0620**	**1.0000e-004**	**1.5400e-003**	**1.6000e-004**	**1.7000e-003**	**1.2000e-004**	**1.6000e-004**	**2.8000e-004**	**0.0000**	**8.5250**	**8.5250**	**2.4400e-003**	**0.0000**	**8.5860**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.3 Site Preparation - 2023

Unmitigated Construction On-Site

Google Middlefield, Const Phase 1, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.4700e-003	0.0644	0.0888	1.2000e-004		3.3900e-003	3.3900e-003		3.1200e-003	3.1200e-003	0.0000	10.7848	10.7848	3.4900e-003	0.0000	10.8720
Total	**6.4700e-003**	**0.0644**	**0.0888**	**1.2000e-004**	**0.0000**	**3.3900e-003**	**3.3900e-003**	**0.0000**	**3.1200e-003**	**3.1200e-003**	**0.0000**	**10.7848**	**10.7848**	**3.4900e-003**	**0.0000**	**10.8720**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

Google Middlefield, Const Phase 1, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7700e-003	0.0176	0.0924	1.2000e-004		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	10.7848	10.7848	3.4900e-003	0.0000	10.8720
Total	**1.7700e-003**	**0.0176**	**0.0924**	**1.2000e-004**	**0.0000**	**2.0000e-004**	**2.0000e-004**	**0.0000**	**2.0000e-004**	**2.0000e-004**	**0.0000**	**10.7848**	**10.7848**	**3.4900e-003**	**0.0000**	**10.8720**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.4 Grading - 2023

Unmitigated Construction On-Site

Google Middlefield, Const Phase 1, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.3875	0.0000	1.3875	0.7089	0.0000	0.7089	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3396	3.2712	2.9717	7.1100e-003		0.1482	0.1482		0.1387	0.1387	0.0000	621.2812	621.2812	0.1655	0.0000	625.4181
Total	**0.3396**	**3.2712**	**2.9717**	**7.1100e-003**	**1.3875**	**0.1482**	**1.5357**	**0.7089**	**0.1387**	**0.8476**	**0.0000**	**621.2812**	**621.2812**	**0.1655**	**0.0000**	**625.4181**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

Google Middlefield, Const Phase 1, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.5411	0.0000	0.5411	0.1382	0.0000	0.1382	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0882	0.5403	3.8721	7.1100e-003		0.0112	0.0112		0.0112	0.0112	0.0000	621.2805	621.2805	0.1655	0.0000	625.4174
Total	**0.0882**	**0.5403**	**3.8721**	**7.1100e-003**	**0.5411**	**0.0112**	**0.5523**	**0.1382**	**0.0112**	**0.1494**	**0.0000**	**621.2805**	**621.2805**	**0.1655**	**0.0000**	**625.4174**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.5 Trenching - 2023

Unmitigated Construction On-Site

Google Middlefield, Const Phase 1, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1734	1.5452	1.9614	3.8300e-003		0.0767	0.0767		0.0741	0.0741	0.0000	332.6236	332.6236	0.0563	0.0000	334.0311
Total	**0.1734**	**1.5452**	**1.9614**	**3.8300e-003**		**0.0767**	**0.0767**		**0.0741**	**0.0741**	**0.0000**	**332.6236**	**332.6236**	**0.0563**	**0.0000**	**334.0311**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Google Middlefield, Const Phase 1, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Off-Road	0.0423	0.1832	2.3134	3.8300e-003		5.6400e-003	5.6400e-003		5.6400e-003	5.6400e-003	0.0000	332.6232	332.6232	0.0563	0.0000	334.0307
Total	**0.0423**	**0.1832**	**2.3134**	**3.8300e-003**		**5.6400e-003**	**5.6400e-003**		**5.6400e-003**	**5.6400e-003**	**0.0000**	**332.6232**	**332.6232**	**0.0563**	**0.0000**	**334.0307**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Google Middlefield, Const Phase 1, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-Road	0.0314	0.2861	0.3653	5.8000e-004		0.0155	0.0155		0.0148	0.0148	0.0000	49.8142	49.8142	8.0600e-003	0.0000	50.0156
Total	**0.0314**	**0.2861**	**0.3653**	**5.8000e-004**		**0.0155**	**0.0155**		**0.0148**	**0.0148**	**0.0000**	**49.8142**	**49.8142**	**8.0600e-003**	**0.0000**	**50.0156**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.2600e-003	0.0271	0.3863	5.8000e-004		8.4000e-004	8.4000e-004		8.4000e-004	8.4000e-004	0.0000	49.8141	49.8141	8.0600e-003	0.0000	50.0155

Google Middlefield, Const Phase 1, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**6.2600e-003**	**0.0271**	**0.3863**	**5.8000e-004**		**8.4000e-004**	**8.4000e-004**		**8.4000e-004**	**8.4000e-004**	**0.0000**	**49.8141**	**49.8141**	**8.0600e-003**	**0.0000**	**50.0155**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1218	1.1138	1.5250	2.4100e-003		0.0559	0.0559		0.0534	0.0534	0.0000	208.5607	208.5607	0.0333	0.0000	209.3935
Total	**0.1218**	**1.1138**	**1.5250**	**2.4100e-003**		**0.0559**	**0.0559**		**0.0534**	**0.0534**	**0.0000**	**208.5607**	**208.5607**	**0.0333**	**0.0000**	**209.3935**

Google Middlefield, Const Phase 1, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0262	0.1136	1.6172	2.4100e-003		3.5000e-003	3.5000e-003		3.5000e-003	3.5000e-003	0.0000	208.5604	208.5604	0.0333	0.0000	209.3933
Total	**0.0262**	**0.1136**	**1.6172**	**2.4100e-003**		**3.5000e-003**	**3.5000e-003**		**3.5000e-003**	**3.5000e-003**	**0.0000**	**208.5604**	**208.5604**	**0.0333**	**0.0000**	**209.3933**

Google Middlefield, Const Phase 1, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.1600e-003	0.0199	0.0291	5.0000e-005		9.2000e-004	9.2000e-004		8.8000e-004	8.8000e-004	0.0000	3.9854	3.9854	6.3000e-004	0.0000	4.0011
Total	**2.1600e-003**	**0.0199**	**0.0291**	**5.0000e-005**		**9.2000e-004**	**9.2000e-004**		**8.8000e-004**	**8.8000e-004**	**0.0000**	**3.9854**	**3.9854**	**6.3000e-004**	**0.0000**	**4.0011**

Unmitigated Construction Off-Site

Google Middlefield, Const Phase 1, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.0000e-004	2.1700e-003	0.0309	5.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	3.9854	3.9854	6.3000e-004	0.0000	4.0011
Total	**5.0000e-004**	**2.1700e-003**	**0.0309**	**5.0000e-005**		**7.0000e-005**	**7.0000e-005**		**7.0000e-005**	**7.0000e-005**	**0.0000**	**3.9854**	**3.9854**	**6.3000e-004**	**0.0000**	**4.0011**

Mitigated Construction Off-Site

Google Middlefield, Const Phase 1, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.7 Paving - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0151	0.1575	0.2185	3.1000e-004		7.5000e-003	7.5000e-003		6.9000e-003	6.9000e-003	0.0000	27.1324	27.1324	8.7800e-003	0.0000	27.3518
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0151**	**0.1575**	**0.2185**	**3.1000e-004**		**7.5000e-003**	**7.5000e-003**		**6.9000e-003**	**6.9000e-003**	**0.0000**	**27.1324**	**27.1324**	**8.7800e-003**	**0.0000**	**27.3518**

Unmitigated Construction Off-Site

Google Middlefield, Const Phase 1, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.7800e-003	0.0164	0.2330	3.1000e-004		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	27.1323	27.1323	8.7800e-003	0.0000	27.3517
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.7800e-003**	**0.0164**	**0.2330**	**3.1000e-004**		**5.0000e-004**	**5.0000e-004**		**5.0000e-004**	**5.0000e-004**	**0.0000**	**27.1323**	**27.1323**	**8.7800e-003**	**0.0000**	**27.3517**

Mitigated Construction Off-Site

Google Middlefield, Const Phase 1, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.8 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.0127					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.0127**					**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Google Middlefield, Const Phase 1, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.0127					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.0127**					**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Google Middlefield, Const Phase 1, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Google Middlefield, Const Phase 1, City Util - Affordable R6 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Google Middlefield, Const Phase 1, City Util - Affordable R6 - Mitigated

Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	170.00	Space	0.00	34,000.00	0
Apartments Mid Rise	170.00	Dwelling Unit	1.64	155,000.00	486

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2026
Utility Company	Silicon Valley Clean Energy				
CO2 Intensity (lb/MWhr)	2	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - As per supplied construction schedule

Land Use - As per supplied construction schedule

Construction Phase - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Trips and VMT - 0 Trips EMFAC2021 adjustments, 500 tons asphalt demo, site prep = 1 water truck

Date: 12/2/2021 3:24 PM

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Demolition - building demo = 25,570-sf

Grading - grading = 23,536-cy export

Architectural Coating - At least 80% of paints have to be super-compliant VOC = effectively 20g/L interior and 30g/L exterior

Construction Off-road Equipment Mitigation - BMPs, Tier 4 final + Electrical

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	30.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	20.00
tblArchitecturalCoating	EF_Parking	150.00	30.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	30.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	20.00
tblAreaCoating	Area_Residential_Exterior	104625	115425
tblAreaCoating	Area_Residential_Interior	313875	346275
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	10.00	42.00
tblConstructionPhase	NumDays	200.00	344.00
tblConstructionPhase	NumDays	20.00	49.00
tblConstructionPhase	NumDays	4.00	49.00
tblConstructionPhase	NumDays	10.00	42.00
tblConstructionPhase	NumDays	2.00	14.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblFireplaces	NumberGas	25.50	28.80
tblFireplaces	NumberNoFireplace	6.80	7.68
tblFireplaces	NumberWood	28.90	32.64
tblGrading	MaterialExported	0.00	23,536.00
tblLandUse	LandUseSquareFeet	68,000.00	34,000.00
tblLandUse	LandUseSquareFeet	170,000.00	155,000.00
tblLandUse	LotAcreage	1.53	0.00
tblLandUse	LotAcreage	4.47	1.64
tblOffRoadEquipment	HorsePower	78.00	0.00
tblOffRoadEquipment	HorsePower	81.00	0.00
tblOffRoadEquipment	HorsePower	231.00	0.00
tblOffRoadEquipment	HorsePower	46.00	0.00
tblOffRoadEquipment	HorsePower	63.00	0.00
tblOffRoadEquipment	HorsePower	63.00	0.00
tblOffRoadEquipment	HorsePower	63.00	0.00
tblOffRoadEquipment	HorsePower	78.00	0.00
tblOffRoadEquipment	HorsePower	78.00	0.00
tblOffRoadEquipment	HorsePower	9.00	0.00
tblOffRoadEquipment	HorsePower	81.00	0.00
tblOffRoadEquipment	HorsePower	231.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	6.00	8.30
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	2.70
tblOffRoadEquipment	UsageHours	6.00	10.30
tblOffRoadEquipment	UsageHours	6.00	7.50
tblOffRoadEquipment	UsageHours	8.00	5.40
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	6.60
tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.80
tblOffRoadEquipment	UsageHours	8.00	8.10
tblOffRoadEquipment	UsageHours	7.00	10.80
tblOffRoadEquipment	UsageHours	8.00	5.40
tblOffRoadEquipment	UsageHours	8.00	8.10

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	UsageHours	8.00	2.20
tblSolidWaste	SolidWasteGenerationRate	78.20	88.32
tblTripsAndVMT	HaulingTripNumber	116.00	0.00
tblTripsAndVMT	HaulingTripNumber	2,942.00	0.00
tblTripsAndVMT	VendorTripNumber	24.00	0.00
tblTripsAndVMT	WorkerTripNumber	30.00	0.00
tblTripsAndVMT	WorkerTripNumber	8.00	0.00
tblTripsAndVMT	WorkerTripNumber	48.00	0.00
tblTripsAndVMT	WorkerTripNumber	25.00	0.00
tblTripsAndVMT	WorkerTripNumber	137.00	0.00
tblTripsAndVMT	WorkerTripNumber	13.00	0.00
tblTripsAndVMT	WorkerTripNumber	27.00	0.00
tblWater	IndoorWaterUseRate	11,076,184.36	12,509,572.92
tblWater	OutdoorWaterUseRate	6,982,811.88	7,886,469.88
tblWoodstoves	NumberCatalytic	3.40	3.84
tblWoodstoves	NumberNoncatalytic	3.40	3.84

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.2687	2.5195	2.6991	4.9800e-003	0.6159	0.1233	0.7392	0.3115	0.1163	0.4278	0.0000	433.9000	433.9000	0.0967	0.0000	436.3168
2024	0.0602	0.5561	0.7581	1.1900e-003	0.0000	0.0280	0.0280	0.0000	0.0266	0.0266	0.0000	102.7953	102.7953	0.0178	0.0000	103.2405

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2025	0.2215	0.0197	0.0273	4.0000e-005	0.0000	9.4000e-004	9.4000e-004	0.0000	8.6000e-004	8.6000e-004	0.0000	3.3916	3.3916	1.1000e-003	0.0000	3.4190
Maximum	**0.2687**	**2.5195**	**2.6991**	**4.9800e-003**	**0.6159**	**0.1233**	**0.7392**	**0.3115**	**0.1163**	**0.4278**	**0.0000**	**433.9000**	**433.9000**	**0.0967**	**0.0000**	**436.3168**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.0596	0.3570	3.0820	4.9800e-003	0.2402	7.5900e-003	0.2478	0.0607	7.5900e-003	0.0683	0.0000	433.8995	433.8995	0.0967	0.0000	436.3163
2024	0.0130	0.0565	0.8041	1.1900e-003	0.0000	1.7400e-003	1.7400e-003	0.0000	1.7400e-003	1.7400e-003	0.0000	102.7952	102.7952	0.0178	0.0000	103.2404
2025	0.2201	2.0500e-003	0.0291	4.0000e-005	0.0000	6.0000e-005	6.0000e-005	0.0000	6.0000e-005	6.0000e-005	0.0000	3.3915	3.3915	1.1000e-003	0.0000	3.4190
Maximum	**0.2201**	**0.3570**	**3.0820**	**4.9800e-003**	**0.2402**	**7.5900e-003**	**0.2478**	**0.0607**	**7.5900e-003**	**0.0683**	**0.0000**	**433.8995**	**433.8995**	**0.0967**	**0.0000**	**436.3163**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**46.81**	**86.57**	**-12.36**	**0.00**	**61.00**	**93.83**	**67.50**	**80.50**	**93.47**	**84.60**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**1-1-2023**	**3-31-2023**	1.0277	0.1715
2	**4-1-2023**	**6-30-2023**	1.1865	0.1830
3	**7-1-2023**	**9-30-2023**	0.3657	0.0399
4	**10-1-2023**	**12-31-2023**	0.2123	0.0227
5	**1-1-2024**	**3-31-2024**	0.1535	0.0174

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6	**4-1-2024**	**6-30-2024**	0.1535	0.0174
7	**7-1-2024**	**9-30-2024**	0.1552	0.0176
8	**10-1-2024**	**12-31-2024**	0.1536	0.0172
9	**1-1-2025**	**3-31-2025**	0.2412	0.2222
		Highest	1.1865	0.2222

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2023	2/27/2023	6	49	
2	Site Preparation	Site Preparation	2/27/2023	3/14/2023	6	14	
3	Grading	Grading	3/15/2023	5/10/2023	6	49	
4	Trenching/Foundation	Trenching	5/12/2023	10/21/2023	6	140	
5	Building Construction	Building Construction	10/22/2023	11/26/2024	6	344	
6	Paving	Paving	11/27/2024	1/14/2025	6	42	
7	Architectural Coating	Architectural Coating	1/15/2025	3/4/2025	6	42	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 91.88

Acres of Paving: 0

Residential Indoor: 313,875; Residential Outdoor: 104,625; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 2,040

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Aerial Lifts	1	6.50	0	0.31
Demolition	Air Compressors	1	4.20	0	0.48
Demolition	Concrete/Industrial Saws	1	2.70	0	0.73

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Demolition	Excavators	4	7.90	158	0.38
Demolition	Forklifts	1	10.00	89	0.20
Demolition	Generator Sets	1	5.40	84	0.74
Demolition	Rubber Tired Dozers	1	10.00	247	0.40
Demolition	Sweepers/Scrubbers	1	6.50	64	0.46
Demolition	Tractors/Loaders/Backhoes	1	8.10	97	0.37
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Sweepers/Scrubbers	1	4.30	64	0.46
Site Preparation	Tractors/Loaders/Backhoes	2	8.10	97	0.37
Grading	Air Compressors	1	4.20	0	0.48
Grading	Bore/Drill Rigs	2	2.00	221	0.50
Grading	Bore/Drill Rigs	2	4.00	221	0.50
Grading	Excavators	2	7.90	158	0.38
Grading	Generator Sets	1	8.10	84	0.74
Grading	Graders	0	0.00	187	0.41
Grading	Plate Compactors	2	1.90	8	0.43
Grading	Pumps	1	24.00	84	0.74
Grading	Rubber Tired Dozers	3	10.00	247	0.40
Grading	Skid Steer Loaders	1	3.50	65	0.37
Grading	Sweepers/Scrubbers	2	8.70	64	0.46
Grading	Tractors/Loaders/Backhoes	2	10.80	97	0.37
Trenching/Foundation	Aerial Lifts	2	9.70	0	0.31
Trenching/Foundation	Cranes	1	10.30	0	0.29
Trenching/Foundation	Forklifts	2	10.00	89	0.20
Trenching/Foundation	Generator Sets	1	5.40	84	0.74
Trenching/Foundation	Pumps	2	5.40	84	0.74
Trenching/Foundation	Tractors/Loaders/Backhoes	2	1.00	97	0.37
Building Construction	Aerial Lifts	2	9.70	0	0.31

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Building Construction	Cement and Mortar Mixers	1	7.10	0	0.56
Building Construction	Cranes	1	10.30	0	0.29
Building Construction	Forklifts	2	7.50	89	0.20
Building Construction	Generator Sets	1	5.40	84	0.74
Building Construction	Plate Compactors	1	0.90	8	0.43
Building Construction	Tractors/Loaders/Backhoes	1	0.80	97	0.37
Building Construction	Welders	1	2.20	0	0.45
Paving	Cement and Mortar Mixers	0	0.00	9	0.56
Paving	Concrete/Industrial Saws	2	0.40	0	0.73
Paving	Pavers	0	0.00	130	0.42
Paving	Paving Equipment	0	0.00	132	0.36
Paving	Rollers	2	6.60	80	0.38
Paving	Tractors/Loaders/Backhoes	1	5.40	97	0.37
Architectural Coating	Air Compressors	1	8.30	0	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	12	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	19	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching/Foundation	10	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Alternative Fuel for Construction Equipment

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0126	0.0000	0.0126	1.9100e-003	0.0000	1.9100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0548	0.5145	0.5997	1.0400e-003		0.0252	0.0252		0.0233	0.0233	0.0000	91.5739	91.5739	0.0270	0.0000	92.2490
Total	**0.0548**	**0.5145**	**0.5997**	**1.0400e-003**	**0.0126**	**0.0252**	**0.0377**	**1.9100e-003**	**0.0233**	**0.0252**	**0.0000**	**91.5739**	**91.5739**	**0.0270**	**0.0000**	**92.2490**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.9100e-003	0.0000	4.9100e-003	3.7000e-004	0.0000	3.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0132	0.0801	0.6956	1.0400e-003		1.6800e-003	1.6800e-003		1.6800e-003	1.6800e-003	0.0000	91.5738	91.5738	0.0270	0.0000	92.2489
Total	**0.0132**	**0.0801**	**0.6956**	**1.0400e-003**	**4.9100e-003**	**1.6800e-003**	**6.5900e-003**	**3.7000e-004**	**1.6800e-003**	**2.0500e-003**	**0.0000**	**91.5738**	**91.5738**	**0.0270**	**0.0000**	**92.2489**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.3 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8300e-003	0.0282	0.0389	5.0000e-005		1.4800e-003	1.4800e-003		1.3700e-003	1.3700e-003	0.0000	4.7184	4.7184	1.5300e-003	0.0000	4.7565
Total	**2.8300e-003**	**0.0282**	**0.0389**	**5.0000e-005**	**0.0000**	**1.4800e-003**	**1.4800e-003**	**0.0000**	**1.3700e-003**	**1.3700e-003**	**0.0000**	**4.7184**	**4.7184**	**1.5300e-003**	**0.0000**	**4.7565**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Google Middlefield, Const Phase 1, City Util - Affordable R6 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.7000e-004	7.6900e-003	0.0404	5.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	4.7183	4.7183	1.5300e-003	0.0000	4.7565
Total	**7.7000e-004**	**7.6900e-003**	**0.0404**	**5.0000e-005**	**0.0000**	**9.0000e-005**	**9.0000e-005**	**0.0000**	**9.0000e-005**	**9.0000e-005**	**0.0000**	**4.7183**	**4.7183**	**1.5300e-003**	**0.0000**	**4.7565**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Google Middlefield, Const Phase 1, City Util - Affordable R6 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.6033	0.0000	0.6033	0.3096	0.0000	0.3096	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1325	1.2791	1.1497	2.4000e-003		0.0599	0.0599		0.0562	0.0562	0.0000	209.2752	209.2752	0.0522	0.0000	210.5790
Total	**0.1325**	**1.2791**	**1.1497**	**2.4000e-003**	**0.6033**	**0.0599**	**0.6632**	**0.3096**	**0.0562**	**0.3658**	**0.0000**	**209.2752**	**209.2752**	**0.0522**	**0.0000**	**210.5790**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Google Middlefield, Const Phase 1, City Util - Affordable R6 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2353	0.0000	0.2353	0.0604	0.0000	0.0604	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0298	0.2008	1.3723	2.4000e-003		3.7200e-003	3.7200e-003		3.7200e-003	3.7200e-003	0.0000	209.2750	209.2750	0.0522	0.0000	210.5787
Total	**0.0298**	**0.2008**	**1.3723**	**2.4000e-003**	**0.2353**	**3.7200e-003**	**0.2390**	**0.0604**	**3.7200e-003**	**0.0641**	**0.0000**	**209.2750**	**209.2750**	**0.0522**	**0.0000**	**210.5787**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Google Middlefield, Const Phase 1, City Util - Affordable R6 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.5 Trenching/Foundation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0660	0.5833	0.7648	1.2500e-003		0.0305	0.0305		0.0296	0.0296	0.0000	108.4069	108.4069	0.0128	0.0000	108.7261
Total	**0.0660**	**0.5833**	**0.7648**	**1.2500e-003**		**0.0305**	**0.0305**		**0.0296**	**0.0296**	**0.0000**	**108.4069**	**108.4069**	**0.0128**	**0.0000**	**108.7261**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Google Middlefield, Const Phase 1, City Util - Affordable R6 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0133	0.0576	0.8193	1.2500e-003		1.7700e-003	1.7700e-003		1.7700e-003	1.7700e-003	0.0000	108.4068	108.4068	0.0128	0.0000	108.7259
Total	**0.0133**	**0.0576**	**0.8193**	**1.2500e-003**		**1.7700e-003**	**1.7700e-003**		**1.7700e-003**	**1.7700e-003**	**0.0000**	**108.4068**	**108.4068**	**0.0128**	**0.0000**	**108.7259**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Google Middlefield, Const Phase 1, City Util - Affordable R6 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0126	0.1144	0.1461	2.3000e-004		6.1900e-003	6.1900e-003		5.9100e-003	5.9100e-003	0.0000	19.9257	19.9257	3.2200e-003	0.0000	20.0062
Total	**0.0126**	**0.1144**	**0.1461**	**2.3000e-004**		**6.1900e-003**	**6.1900e-003**		**5.9100e-003**	**5.9100e-003**	**0.0000**	**19.9257**	**19.9257**	**3.2200e-003**	**0.0000**	**20.0062**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Google Middlefield, Const Phase 1, City Util - Affordable R6 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.5100e-003	0.0109	0.1545	2.3000e-004		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	19.9256	19.9256	3.2200e-003	0.0000	20.0062
Total	**2.5100e-003**	**0.0109**	**0.1545**	**2.3000e-004**		**3.3000e-004**	**3.3000e-004**		**3.3000e-004**	**3.3000e-004**	**0.0000**	**19.9256**	**19.9256**	**3.2200e-003**	**0.0000**	**20.0062**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Building Construction - 2024

Unmitigated Construction On-Site

Google Middlefield, Const Phase 1, City Util - Affordable R6 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0551	0.5037	0.6896	1.0900e-003		0.0253	0.0253		0.0241	0.0241	0.0000	94.3173	94.3173	0.0151	0.0000	94.6939
Total	**0.0551**	**0.5037**	**0.6896**	**1.0900e-003**		**0.0253**	**0.0253**		**0.0241**	**0.0241**	**0.0000**	**94.3173**	**94.3173**	**0.0151**	**0.0000**	**94.6939**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

Google Middlefield, Const Phase 1, City Util - Affordable R6 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0119	0.0514	0.7313	1.0900e-003		1.5800e-003	1.5800e-003		1.5800e-003	1.5800e-003	0.0000	94.3171	94.3171	0.0151	0.0000	94.6938
Total	**0.0119**	**0.0514**	**0.7313**	**1.0900e-003**		**1.5800e-003**	**1.5800e-003**		**1.5800e-003**	**1.5800e-003**	**0.0000**	**94.3171**	**94.3171**	**0.0151**	**0.0000**	**94.6938**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.7 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Google Middlefield, Const Phase 1, City Util - Affordable R6 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Off-Road	5.0600e-003	0.0524	0.0684	1.0000e-004		2.6700e-003	2.6700e-003		2.4600e-003	2.4600e-003	0.0000	8.4781	8.4781	2.7400e-003	0.0000	8.5466
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.0600e-003**	**0.0524**	**0.0684**	**1.0000e-004**		**2.6700e-003**	**2.6700e-003**		**2.4600e-003**	**2.4600e-003**	**0.0000**	**8.4781**	**8.4781**	**2.7400e-003**	**0.0000**	**8.5466**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Google Middlefield, Const Phase 1, City Util - Affordable R6 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Off-Road	1.1800e-003	5.1200e-003	0.0728	1.0000e-004		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	8.4781	8.4781	2.7400e-003	0.0000	8.5466
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.1800e-003**	**5.1200e-003**	**0.0728**	**1.0000e-004**		**1.6000e-004**	**1.6000e-004**		**1.6000e-004**	**1.6000e-004**	**0.0000**	**8.4781**	**8.4781**	**2.7400e-003**	**0.0000**	**8.5466**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.7 Paving - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Google Middlefield, Const Phase 1, City Util - Affordable R6 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Off-Road	1.8900e-003	0.0197	0.0273	4.0000e-005		9.4000e-004	9.4000e-004		8.6000e-004	8.6000e-004	0.0000	3.3916	3.3916	1.1000e-003	0.0000	3.4190
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.8900e-003**	**0.0197**	**0.0273**	**4.0000e-005**		**9.4000e-004**	**9.4000e-004**		**8.6000e-004**	**8.6000e-004**	**0.0000**	**3.3916**	**3.3916**	**1.1000e-003**	**0.0000**	**3.4190**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Google Middlefield, Const Phase 1, City Util - Affordable R6 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Off-Road	4.7000e-004	2.0500e-003	0.0291	4.0000e-005		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	3.3915	3.3915	1.1000e-003	0.0000	3.4190
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.7000e-004**	**2.0500e-003**	**0.0291**	**4.0000e-005**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**	**0.0000**	**3.3915**	**3.3915**	**1.1000e-003**	**0.0000**	**3.4190**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.8 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Google Middlefield, Const Phase 1, City Util - Affordable R6 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Archit. Coating	0.2196					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.2196**					**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Google Middlefield, Const Phase 1, City Util - Affordable R6 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Archit. Coating	0.2196					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.2196**					**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Google Middlefield, Const Phase 1, District Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Google Middlefield, Const Phase 1, District Util - Infrastructure - Mitigated

Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	1.00	Acre	1.00	43,560.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2026
Utility Company	Silicon Valley Clean Energy				
CO2 Intensity (lb/MWhr)	2	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - As per supplied construction schedule

Land Use - As per supplied construction schedule

Construction Phase - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - provided construction data

Trips and VMT - 0 trips EMFAC2021 adjustements, Infrastructure - 1 striper truck

Grading -

Architectural Coating - As per supplied construction schedule

Construction Off-road Equipment Mitigation - BMPs, Tier 4 final+Electrical

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12

Google Middlefield, Const Phase 1, District Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	2.00	136.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblOffRoadEquipment	HorsePower	9.00	0.00
tblOffRoadEquipment	HorsePower	81.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	7.00	2.70
tblTripsAndVMT	WorkerTripNumber	25.00	0.00

Google Middlefield, Const Phase 1, District Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2024	0.0224	0.2106	0.3036	4.9000e-004	0.0000	0.0100	0.0100	0.0000	9.4100e-003	9.4100e-003	0.0000	42.3634	42.3634	0.0106	0.0000	42.6278
2025	0.0332	0.3069	0.4752	7.7000e-004	0.0000	0.0140	0.0140	0.0000	0.0132	0.0132	0.0000	66.3307	66.3307	0.0165	0.0000	66.7433
Maximum	**0.0332**	**0.3069**	**0.4752**	**7.7000e-004**	**0.0000**	**0.0140**	**0.0140**	**0.0000**	**0.0132**	**0.0132**	**0.0000**	**66.3307**	**66.3307**	**0.0165**	**0.0000**	**66.7433**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2024	5.6400e-003	0.0290	0.3401	4.9000e-004	0.0000	7.4000e-004	7.4000e-004	0.0000	7.4000e-004	7.4000e-004	0.0000	42.3633	42.3633	0.0106	0.0000	42.6277
2025	8.8300e-003	0.0454	0.5326	7.7000e-004	0.0000	1.1500e-003	1.1500e-003	0.0000	1.1500e-003	1.1500e-003	0.0000	66.3306	66.3306	0.0165	0.0000	66.7432
Maximum	**8.8300e-003**	**0.0454**	**0.5326**	**7.7000e-004**	**0.0000**	**1.1500e-003**	**1.1500e-003**	**0.0000**	**1.1500e-003**	**1.1500e-003**	**0.0000**	**66.3306**	**66.3306**	**0.0165**	**0.0000**	**66.7432**

Google Middlefield, Const Phase 1, District Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	73.97	85.61	-12.07	0.00	0.00	92.14	92.14	0.00	91.63	91.63	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	10-31-2024	1-30-2025	0.3390	0.0516
2	1-31-2025	4-29-2025	0.2353	0.0376
		Highest	0.3390	0.0516

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Infrastructure	Grading	10/31/2024	4/7/2025	6	136	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 1

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating –

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Infrastructure	Cement and Mortar Mixers	1	10.70	0	0.56
Infrastructure	Concrete/Industrial Saws	1	1.40	0	0.73
Infrastructure	Generator Sets	1	5.40	84	0.74
Infrastructure	Graders	0	0.00	187	0.41
Infrastructure	Pavers	2	7.20	130	0.42
Infrastructure	Plate Compactors	2	5.80	8	0.43

Google Middlefield, Const Phase 1, District Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Infrastructure	Rollers	1	10.50	80	0.38
Infrastructure	Rubber Tired Dozers	0	0.00	247	0.40
Infrastructure	Sweepers/Scrubbers	1	1.20	64	0.46
Infrastructure	Tractors/Loaders/Backhoes	1	2.70	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Infrastructure	10	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Alternative Fuel for Construction Equipment

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Infrastructure - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0224	0.2106	0.3036	4.9000e-004		0.0100	0.0100		9.4100e-003	9.4100e-003	0.0000	42.3634	42.3634	0.0106	0.0000	42.6278

Google Middlefield, Const Phase 1, District Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0224**	**0.2106**	**0.3036**	**4.9000e-004**	**0.0000**	**0.0100**	**0.0100**	**0.0000**	**9.4100e-003**	**9.4100e-003**	**0.0000**	**42.3634**	**42.3634**	**0.0106**	**0.0000**	**42.6278**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.6400e-003	0.0290	0.3401	4.9000e-004		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	42.3633	42.3633	0.0106	0.0000	42.6277

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**5.6400e-003**	**0.0290**	**0.3401**	**4.9000e-004**	**0.0000**	**7.4000e-004**	**7.4000e-004**	**0.0000**	**7.4000e-004**	**7.4000e-004**	**0.0000**	**42.3633**	**42.3633**	**0.0106**	**0.0000**	**42.6277**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Infrastructure - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0332	0.3069	0.4752	7.7000e-004		0.0140	0.0140		0.0132	0.0132	0.0000	66.3307	66.3307	0.0165	0.0000	66.7433

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0332**	**0.3069**	**0.4752**	**7.7000e-004**	**0.0000**	**0.0140**	**0.0140**	**0.0000**	**0.0132**	**0.0132**	**0.0000**	**66.3307**	**66.3307**	**0.0165**	**0.0000**	**66.7433**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.8300e-003	0.0454	0.5326	7.7000e-004		1.1500e-003	1.1500e-003		1.1500e-003	1.1500e-003	0.0000	66.3306	66.3306	0.0165	0.0000	66.7432

Google Middlefield, Const Phase 1, District Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**8.8300e-003**	**0.0454**	**0.5326**	**7.7000e-004**	**0.0000**	**1.1500e-003**	**1.1500e-003**	**0.0000**	**1.1500e-003**	**1.1500e-003**	**0.0000**	**66.3306**	**66.3306**	**0.0165**	**0.0000**	**66.7432**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Google Middlefield, Const Phase 2, District Util - O1,O2 - Mitigated

Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	631.94	1000sqft	8.68	631,939.00	0
Enclosed Parking with Elevator	700.00	Space	0.00	218,576.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2029
Utility Company	Silicon Valley Clean Energy				
CO2 Intensity (lb/MWhr)	2	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - As per supplied construction schedule

Land Use - As per supplied construction schedule

Construction Phase - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Trips and VMT - 0 trips for emfac2021 adjustments, demo = 2,831 ton of asphalt, site prep = 1 water truck

Date: 12/2/2021 3:40 PM

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Demolition - existing buiding demo = 264,881-sf

Grading - grading = 230,046-cy + 34,000-cy export + 1,713-cy export geothermal bore

Architectural Coating - At least 80% of paints have to be super-compliant VOC = effectively 20g/L interior and 30g/L exterior

Construction Off-road Equipment Mitigation - BMPs, Tier 4 final+Electrical

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	30.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	20.00
tblArchitecturalCoating	EF_Parking	150.00	30.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	30.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	20.00
tblAreaCoating	Area_Nonresidential_Exterior	315970	323690
tblAreaCoating	Area_Nonresidential_Interior	947909	971069
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	15.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	128.00
tblConstructionPhase	NumDays	230.00	1,000.00
tblConstructionPhase	NumDays	20.00	147.00
tblConstructionPhase	NumDays	20.00	103.00
tblConstructionPhase	NumDays	20.00	128.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstructionPhase	NumDays	10.00	38.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblGrading	MaterialExported	0.00	265,759.00
tblLandUse	LandUseSquareFeet	631,940.00	631,939.00
tblLandUse	LandUseSquareFeet	280,000.00	218,576.00
tblLandUse	LotAcreage	14.51	8.68
tblLandUse	LotAcreage	6.30	0.00
tblOffRoadEquipment	HorsePower	78.00	0.00
tblOffRoadEquipment	HorsePower	81.00	0.00
tblOffRoadEquipment	HorsePower	231.00	0.00
tblOffRoadEquipment	HorsePower	130.00	0.00
tblOffRoadEquipment	HorsePower	46.00	0.00
tblOffRoadEquipment	HorsePower	63.00	0.00
tblOffRoadEquipment	HorsePower	63.00	0.00
tblOffRoadEquipment	HorsePower	63.00	0.00
tblOffRoadEquipment	HorsePower	78.00	0.00
tblOffRoadEquipment	HorsePower	78.00	0.00
tblOffRoadEquipment	HorsePower	9.00	0.00
tblOffRoadEquipment	HorsePower	81.00	0.00
tblOffRoadEquipment	HorsePower	231.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.30
tblOffRoadEquipment	UsageHours	8.00	8.20
tblOffRoadEquipment	UsageHours	7.00	10.30
tblOffRoadEquipment	UsageHours	8.00	10.50
tblOffRoadEquipment	UsageHours	8.00	9.50
tblOffRoadEquipment	UsageHours	8.00	7.50
tblOffRoadEquipment	UsageHours	8.00	5.40
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	1.90
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	2.10
tblOffRoadEquipment	UsageHours	8.00	6.60
tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	8.00	9.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.80
tblOffRoadEquipment	UsageHours	8.00	10.80
tblOffRoadEquipment	UsageHours	8.00	8.10
tblOffRoadEquipment	UsageHours	8.00	2.20

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblSolidWaste	SolidWasteGenerationRate	587.70	602.06
tblTripsAndVMT	HaulingTripNumber	1,205.00	0.00
tblTripsAndVMT	HaulingTripNumber	33,220.00	0.00
tblTripsAndVMT	VendorTripNumber	139.00	0.00
tblTripsAndVMT	WorkerTripNumber	33.00	0.00
tblTripsAndVMT	WorkerTripNumber	8.00	0.00
tblTripsAndVMT	WorkerTripNumber	83.00	0.00
tblTripsAndVMT	WorkerTripNumber	50.00	0.00
tblTripsAndVMT	WorkerTripNumber	294.00	0.00
tblTripsAndVMT	WorkerTripNumber	18.00	0.00
tblTripsAndVMT	WorkerTripNumber	59.00	0.00
tblWater	IndoorWaterUseRate	112,317,064.71	115,061,273.78
tblWater	OutdoorWaterUseRate	68,839,491.27	70,521,425.86

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2024	0.0565	0.5208	0.6367	1.1100e-003	0.0461	0.0249	0.0711	6.9800e-003	0.0231	0.0301	0.0000	97.0518	97.0518	0.0286	0.0000	97.7663
2025	0.6858	6.3298	7.3775	0.0166	1.9974	0.2701	2.2675	0.9906	0.2525	1.2431	0.0000	1,446.6484	1,446.6484	0.3869	0.0000	1,456.3207
2026	0.1750	1.5647	2.2669	4.1100e-003	0.0000	0.0695	0.0695	0.0000	0.0668	0.0668	0.0000	356.0066	356.0066	0.0568	0.0000	357.4274
2027	0.0564	0.5186	0.7579	1.2000e-003	0.0000	0.0240	0.0240	0.0000	0.0229	0.0229	0.0000	103.9523	103.9523	0.0164	0.0000	104.3622

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2028	0.7001	0.7529	1.0802	1.6600e-003	0.0000	0.0352	0.0352	0.0000	0.0332	0.0332	0.0000	144.0009	144.0009	0.0294	0.0000	144.7346
2029	0.0767	0.2734	0.3995	6.3000e-004	0.0000	0.0126	0.0126	0.0000	0.0121	0.0121	0.0000	54.7992	54.7992	8.6400e-003	0.0000	55.0152
Maximum	**0.7001**	**6.3298**	**7.3775**	**0.0166**	**1.9974**	**0.2701**	**2.2675**	**0.9906**	**0.2525**	**1.2431**	**0.0000**	**1,446.6484**	**1,446.6484**	**0.3869**	**0.0000**	**1,456.3207**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2024	0.0140	0.0850	0.7369	1.1100e-003	0.0180	1.7800e-003	0.0198	1.3600e-003	1.7800e-003	3.1400e-003	0.0000	97.0517	97.0517	0.0286	0.0000	97.7662
2025	0.2012	1.0792	9.5016	0.0166	0.7790	0.0261	0.8051	0.1932	0.0261	0.2192	0.0000	1,446.6467	1,446.6467	0.3869	0.0000	1,456.3189
2026	0.0450	0.1950	2.5721	4.1100e-003	0.0000	6.0000e-003	6.0000e-003	0.0000	6.0000e-003	6.0000e-003	0.0000	356.0062	356.0062	0.0568	0.0000	357.4270
2027	0.0131	0.0566	0.8060	1.2000e-003	0.0000	1.7400e-003	1.7400e-003	0.0000	1.7400e-003	1.7400e-003	0.0000	103.9522	103.9522	0.0164	0.0000	104.3621
2028	0.6398	0.0808	1.1500	1.6600e-003	0.0000	2.4900e-003	2.4900e-003	0.0000	2.4900e-003	2.4900e-003	0.0000	144.0007	144.0007	0.0294	0.0000	144.7344
2029	0.0539	0.0299	0.4249	6.3000e-004	0.0000	9.2000e-004	9.2000e-004	0.0000	9.2000e-004	9.2000e-004	0.0000	54.7991	54.7991	8.6400e-003	0.0000	55.0152
Maximum	**0.6398**	**1.0792**	**9.5016**	**0.0166**	**0.7790**	**0.0261**	**0.8051**	**0.1932**	**0.0261**	**0.2192**	**0.0000**	**1,446.6467**	**1,446.6467**	**0.3869**	**0.0000**	**1,456.3189**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**44.76**	**84.67**	**-21.35**	**0.00**	**61.00**	**91.06**	**66.29**	**80.50**	**90.50**	**83.41**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

1	11-1-2024	1-31-2025	0.8501	0.1500
2	2-1-2025	4-30-2025	2.5481	0.4912
3	5-1-2025	7-31-2025	3.1649	0.5912
4	8-1-2025	10-31-2025	0.6180	0.0882
5	11-1-2025	1-31-2026	0.6180	0.0882
6	2-1-2026	4-30-2026	0.5978	0.0853
7	5-1-2026	7-31-2026	0.6941	0.0959
8	8-1-2026	10-31-2026	0.1449	0.0176
9	11-1-2026	1-31-2027	0.1449	0.0176
10	2-1-2027	4-30-2027	0.1401	0.0170
11	5-1-2027	7-31-2027	0.1449	0.0176
12	8-1-2027	10-31-2027	0.1449	0.0176
13	11-1-2027	1-31-2028	0.1449	0.0176
14	2-1-2028	4-30-2028	0.1417	0.0172
15	5-1-2028	7-31-2028	0.2773	0.0329
16	8-1-2028	10-31-2028	0.6176	0.3809
17	11-1-2028	1-31-2029	0.4625	0.3352
18	2-1-2029	4-30-2029	0.1401	0.0170
19	5-1-2029	7-31-2029	0.1134	0.0137
		Highest	3.1649	0.5912

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	11/1/2024	4/21/2025	6	147	
2	Site Preparation	Site Preparation	2/15/2025	3/31/2025	6	38	
3	Grading	Grading	3/17/2025	7/14/2025	6	103	

Google Middlefield, Const Phase 2, District Util - O1,O2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4	Trenching/Foundation	Trenching	7/2/2025	7/21/2026	6	330	
5	Building Construction	Building Construction	5/2/2026	7/11/2029	6	1000	
6	Paving	Paving	5/16/2028	10/11/2028	6	128	
7	Architectural Coating	Architectural Coating	8/15/2028	1/10/2029	6	128	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 289.69

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 947,909; Non-Residential Outdoor: 315,970; Striped Parking Area: 13,115

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Aerial Lifts	1	6.50	0	0.31
Demolition	Air Compressors	1	4.20	0	0.48
Demolition	Concrete/Industrial Saws	3	8.20	0	0.73
Demolition	Excavators	3	10.50	158	0.38
Demolition	Forklifts	1	10.00	89	0.20
Demolition	Generator Sets	1	5.40	84	0.74
Demolition	Rubber Tired Dozers	1	10.00	247	0.40
Demolition	Sweepers/Scrubbers	1	6.50	64	0.46
Demolition	Tractors/Loaders/Backhoes	1	8.10	97	0.37
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Sweepers/Scrubbers	1	4.30	64	0.46
Site Preparation	Tractors/Loaders/Backhoes	2	8.10	97	0.37
Grading	Air Compressors	1	4.20	0	0.48
Grading	Bore/Drill Rigs	2	2.00	221	0.50
Grading	Bore/Drill Rigs	5	9.50	221	0.50
Grading	Bore/Drill Rigs	4	6.60	221	0.50

Google Middlefield, Const Phase 2, District Util - O1,O2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Grading	Excavators	5	9.50	158	0.38
Grading	Generator Sets	1	8.10	84	0.74
Grading	Graders	0	0.00	187	0.41
Grading	Plate Compactors	2	1.90	8	0.43
Grading	Pumps	1	24.00	84	0.74
Grading	Rubber Tired Dozers	5	9.00	247	0.40
Grading	Skid Steer Loaders	1	3.60	65	0.37
Grading	Sweepers/Scrubbers	2	8.70	64	0.46
Grading	Tractors/Loaders/Backhoes	4	10.80	97	0.37
Trenching/Foundation	Aerial Lifts	4	7.70	0	0.31
Trenching/Foundation	Bore/Drill Rigs	4	1.60	221	0.50
Trenching/Foundation	Cranes	1	10.30	0	0.29
Trenching/Foundation	Forklifts	4	10.00	89	0.20
Trenching/Foundation	Generator Sets	1	5.40	84	0.74
Trenching/Foundation	Pumps	4	5.40	84	0.74
Trenching/Foundation	Tractors/Loaders/Backhoes	2	1.00	97	0.37
Building Construction	Aerial Lifts	2	9.70	0	0.31
Building Construction	Cement and Mortar Mixers	1	7.10	0	0.56
Building Construction	Cranes	1	10.30	0	0.29
Building Construction	Forklifts	2	7.50	89	0.20
Building Construction	Generator Sets	1	5.40	84	0.74
Building Construction	Plate Compactors	1	0.90	8	0.43
Building Construction	Tractors/Loaders/Backhoes	1	0.80	97	0.37
Building Construction	Welders	1	2.20	0	0.45
Paving	Concrete/Industrial Saws	2	0.30	0	0.73
Paving	Pavers	1	1.90	0	0.42
Paving	Paving Equipment	0	0.00	132	0.36
Paving	Rollers	1	2.10	80	0.38
Paving	Rollers	2	6.60	80	0.38

Google Middlefield, Const Phase 2, District Util - O1,O2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Paving	Tractors/Loaders/Backhoes	1	5.40	97	0.37
Architectural Coating	Air Compressors	1	8.30	0	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	13	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	33	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching/Foundation	20	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Alternative Fuel for Construction Equipment

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Google Middlefield, Const Phase 2, District Util - O1,O2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Fugitive Dust					0.0461	0.0000	0.0461	6.9800e-003	0.0000	6.9800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0565	0.5208	0.6367	1.1100e-003		0.0249	0.0249		0.0231	0.0231	0.0000	97.0518	97.0518	0.0286	0.0000	97.7663
Total	**0.0565**	**0.5208**	**0.6367**	**1.1100e-003**	**0.0461**	**0.0249**	**0.0711**	**6.9800e-003**	**0.0231**	**0.0301**	**0.0000**	**97.0518**	**97.0518**	**0.0286**	**0.0000**	**97.7663**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Google Middlefield, Const Phase 2, District Util - O1,O2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Fugitive Dust					0.0180	0.0000	0.0180	1.3600e-003	0.0000	1.3600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0140	0.0850	0.7369	1.1100e-003		1.7800e-003	1.7800e-003		1.7800e-003	1.7800e-003	0.0000	97.0517	97.0517	0.0286	0.0000	97.7662
Total	**0.0140**	**0.0850**	**0.7369**	**1.1100e-003**	**0.0180**	**1.7800e-003**	**0.0198**	**1.3600e-003**	**1.7800e-003**	**3.1400e-003**	**0.0000**	**97.0517**	**97.0517**	**0.0286**	**0.0000**	**97.7662**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Demolition - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Google Middlefield, Const Phase 2, District Util - O1,O2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Fugitive Dust					0.0843	0.0000	0.0843	0.0128	0.0000	0.0128	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0959	0.8683	1.1529	2.0200e-003		0.0399	0.0399		0.0369	0.0369	0.0000	177.3300	177.3300	0.0522	0.0000	178.6340
Total	**0.0959**	**0.8683**	**1.1529**	**2.0200e-003**	**0.0843**	**0.0399**	**0.1241**	**0.0128**	**0.0369**	**0.0497**	**0.0000**	**177.3300**	**177.3300**	**0.0522**	**0.0000**	**178.6340**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Google Middlefield, Const Phase 2, District Util - O1,O2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Fugitive Dust					0.0329	0.0000	0.0329	2.4900e-003	0.0000	2.4900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0256	0.1552	1.3462	2.0200e-003		3.2500e-003	3.2500e-003		3.2500e-003	3.2500e-003	0.0000	177.3298	177.3298	0.0522	0.0000	178.6338
Total	**0.0256**	**0.1552**	**1.3462**	**2.0200e-003**	**0.0329**	**3.2500e-003**	**0.0361**	**2.4900e-003**	**3.2500e-003**	**5.7400e-003**	**0.0000**	**177.3298**	**177.3298**	**0.0522**	**0.0000**	**178.6338**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.3 Site Preparation - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Google Middlefield, Const Phase 2, District Util - O1,O2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6900e-003	0.0663	0.1052	1.5000e-004		2.9300e-003	2.9300e-003		2.6900e-003	2.6900e-003	0.0000	12.8237	12.8237	4.1500e-003	0.0000	12.9274
Total	**6.6900e-003**	**0.0663**	**0.1052**	**1.5000e-004**	**0.0000**	**2.9300e-003**	**2.9300e-003**	**0.0000**	**2.6900e-003**	**2.6900e-003**	**0.0000**	**12.8237**	**12.8237**	**4.1500e-003**	**0.0000**	**12.9274**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Google Middlefield, Const Phase 2, District Util - O1,O2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1000e-003	0.0209	0.1097	1.5000e-004		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	12.8237	12.8237	4.1500e-003	0.0000	12.9273
Total	**2.1000e-003**	**0.0209**	**0.1097**	**1.5000e-004**	**0.0000**	**2.4000e-004**	**2.4000e-004**	**0.0000**	**2.4000e-004**	**2.4000e-004**	**0.0000**	**12.8237**	**12.8237**	**4.1500e-003**	**0.0000**	**12.9273**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.4 Grading - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Google Middlefield, Const Phase 2, District Util - O1,O2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Fugitive Dust					1.9132	0.0000	1.9132	0.9778	0.0000	0.9778	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4586	4.2894	4.5213	0.0114		0.1788	0.1788		0.1661	0.1661	0.0000	996.4063	996.4063	0.2889	0.0000	1,003.6298
Total	**0.4586**	**4.2894**	**4.5213**	**0.0114**	**1.9132**	**0.1788**	**2.0919**	**0.9778**	**0.1661**	**1.1439**	**0.0000**	**996.4063**	**996.4063**	**0.2889**	**0.0000**	**1,003.6298**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Google Middlefield, Const Phase 2, District Util - O1,O2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Fugitive Dust					0.7461	0.0000	0.7461	0.1907	0.0000	0.1907	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1407	0.7605	6.1998	0.0114		0.0182	0.0182		0.0182	0.0182	0.0000	996.4051	996.4051	0.2889	0.0000	1,003.6286
Total	**0.1407**	**0.7605**	**6.1998**	**0.0114**	**0.7461**	**0.0182**	**0.7643**	**0.1907**	**0.0182**	**0.2089**	**0.0000**	**996.4051**	**996.4051**	**0.2889**	**0.0000**	**1,003.6286**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.5 Trenching/Foundation - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Google Middlefield, Const Phase 2, District Util - O1,O2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Off-Road	0.1246	1.1058	1.5980	3.0000e-003		0.0485	0.0485		0.0468	0.0468	0.0000	260.0885	260.0885	0.0416	0.0000	261.1296
Total	**0.1246**	**1.1058**	**1.5980**	**3.0000e-003**		**0.0485**	**0.0485**		**0.0468**	**0.0468**	**0.0000**	**260.0885**	**260.0885**	**0.0416**	**0.0000**	**261.1296**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Google Middlefield, Const Phase 2, District Util - O1,O2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-Road	0.0329	0.1426	1.8458	3.0000e-003		4.3900e-003	4.3900e-003		4.3900e-003	4.3900e-003	0.0000	260.0882	260.0882	0.0416	0.0000	261.1292
Total	**0.0329**	**0.1426**	**1.8458**	**3.0000e-003**		**4.3900e-003**	**4.3900e-003**		**4.3900e-003**	**4.3900e-003**	**0.0000**	**260.0882**	**260.0882**	**0.0416**	**0.0000**	**261.1292**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.5 Trenching/Foundation - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1373	1.2185	1.7609	3.3100e-003		0.0535	0.0535		0.0515	0.0515	0.0000	286.5943	286.5943	0.0459	0.0000	287.7415

Google Middlefield, Const Phase 2, District Util - O1,O2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.1373**	**1.2185**	**1.7609**	**3.3100e-003**		**0.0535**	**0.0535**		**0.0515**	**0.0515**	**0.0000**	**286.5943**	**286.5943**	**0.0459**	**0.0000**	**287.7415**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0363	0.1571	2.0339	3.3100e-003		4.8400e-003	4.8400e-003		4.8400e-003	4.8400e-003	0.0000	286.5940	286.5940	0.0459	0.0000	287.7411
Total	**0.0363**	**0.1571**	**2.0339**	**3.3100e-003**		**4.8400e-003**	**4.8400e-003**		**4.8400e-003**	**4.8400e-003**	**0.0000**	**286.5940**	**286.5940**	**0.0459**	**0.0000**	**287.7411**

Google Middlefield, Const Phase 2, District Util - O1,O2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0377	0.3463	0.5061	8.0000e-004		0.0160	0.0160		0.0153	0.0153	0.0000	69.4123	69.4123	0.0110	0.0000	69.6860
Total	**0.0377**	**0.3463**	**0.5061**	**8.0000e-004**		**0.0160**	**0.0160**		**0.0153**	**0.0153**	**0.0000**	**69.4123**	**69.4123**	**0.0110**	**0.0000**	**69.6860**

Google Middlefield, Const Phase 2, District Util - O1,O2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.7300e-003	0.0378	0.5382	8.0000e-004		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003	0.0000	69.4122	69.4122	0.0110	0.0000	69.6859
Total	**8.7300e-003**	**0.0378**	**0.5382**	**8.0000e-004**		**1.1600e-003**	**1.1600e-003**		**1.1600e-003**	**1.1600e-003**	**0.0000**	**69.4122**	**69.4122**	**0.0110**	**0.0000**	**69.6859**

Mitigated Construction Off-Site

Google Middlefield, Const Phase 2, District Util - O1,O2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0564	0.5186	0.7579	1.2000e-003		0.0240	0.0240		0.0229	0.0229	0.0000	103.9523	103.9523	0.0164	0.0000	104.3622
Total	**0.0564**	**0.5186**	**0.7579**	**1.2000e-003**		**0.0240**	**0.0240**		**0.0229**	**0.0229**	**0.0000**	**103.9523**	**103.9523**	**0.0164**	**0.0000**	**104.3622**

Unmitigated Construction Off-Site

Google Middlefield, Const Phase 2, District Util - O1,O2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0131	0.0566	0.8060	1.2000e-003		1.7400e-003	1.7400e-003		1.7400e-003	1.7400e-003	0.0000	103.9522	103.9522	0.0164	0.0000	104.3621
Total	**0.0131**	**0.0566**	**0.8060**	**1.2000e-003**		**1.7400e-003**	**1.7400e-003**		**1.7400e-003**	**1.7400e-003**	**0.0000**	**103.9522**	**103.9522**	**0.0164**	**0.0000**	**104.3621**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Google Middlefield, Const Phase 2, District Util - O1,O2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0564	0.5186	0.7579	1.2000e-003		0.0240	0.0240		0.0229	0.0229	0.0000	103.9523	103.9523	0.0164	0.0000	104.3622
Total	**0.0564**	**0.5186**	**0.7579**	**1.2000e-003**		**0.0240**	**0.0240**		**0.0229**	**0.0229**	**0.0000**	**103.9523**	**103.9523**	**0.0164**	**0.0000**	**104.3622**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Google Middlefield, Const Phase 2, District Util - O1,O2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0131	0.0566	0.8060	1.2000e-003		1.7400e-003	1.7400e-003		1.7400e-003	1.7400e-003	0.0000	103.9522	103.9522	0.0164	0.0000	104.3621
Total	**0.0131**	**0.0566**	**0.8060**	**1.2000e-003**		**1.7400e-003**	**1.7400e-003**		**1.7400e-003**	**1.7400e-003**	**0.0000**	**103.9522**	**103.9522**	**0.0164**	**0.0000**	**104.3621**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Google Middlefield, Const Phase 2, District Util - O1,O2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0297	0.2734	0.3995	6.3000e-004		0.0126	0.0126		0.0121	0.0121	0.0000	54.7992	54.7992	8.6400e-003	0.0000	55.0152
Total	**0.0297**	**0.2734**	**0.3995**	**6.3000e-004**		**0.0126**	**0.0126**		**0.0121**	**0.0121**	**0.0000**	**54.7992**	**54.7992**	**8.6400e-003**	**0.0000**	**55.0152**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Google Middlefield, Const Phase 2, District Util - O1,O2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.8900e-003	0.0299	0.4249	6.3000e-004		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	54.7991	54.7991	8.6400e-003	0.0000	55.0152
Total	**6.8900e-003**	**0.0299**	**0.4249**	**6.3000e-004**		**9.2000e-004**	**9.2000e-004**		**9.2000e-004**	**9.2000e-004**	**0.0000**	**54.7991**	**54.7991**	**8.6400e-003**	**0.0000**	**55.0152**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Google Middlefield, Const Phase 2, District Util - O1,O2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.7 Paving - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0225	0.2343	0.3224	4.6000e-004		0.0112	0.0112		0.0103	0.0103	0.0000	40.0486	40.0486	0.0130	0.0000	40.3724
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0225**	**0.2343**	**0.3224**	**4.6000e-004**		**0.0112**	**0.0112**		**0.0103**	**0.0103**	**0.0000**	**40.0486**	**40.0486**	**0.0130**	**0.0000**	**40.3724**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Google Middlefield, Const Phase 2, District Util - O1,O2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.5800e-003	0.0242	0.3440	4.6000e-004		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	40.0485	40.0485	0.0130	0.0000	40.3723
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.5800e-003**	**0.0242**	**0.3440**	**4.6000e-004**		**7.4000e-004**	**7.4000e-004**		**7.4000e-004**	**7.4000e-004**	**0.0000**	**40.0485**	**40.0485**	**0.0130**	**0.0000**	**40.3723**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Google Middlefield, Const Phase 2, District Util - O1,O2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.8 Architectural Coating - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6212					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.6212**					**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Date: 12/2/2021 3:40 PM

Google Middlefield, Const Phase 2, District Util - O1,O2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6212					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.6212**					**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Google Middlefield, Const Phase 2, District Util - O1,O2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Architectural Coating - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0470					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0470**					**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

Google Middlefield, Const Phase 2, District Util - O1,O2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0470					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0470**					**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Google Middlefield, Const Phase 2, District Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Google Middlefield, Const Phase 2, District Util - Infrastructure - Mitigated

Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	1.00	Acre	1.00	43,560.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2027
Utility Company	Silicon Valley Clean Energy				
CO2 Intensity (lb/MWhr)	2	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - As per supplied construction schedule

Land Use -

Construction Phase - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Trips and VMT - 0 trip emfac2021 adjustments, infra - 1 stripper truck

Grading -

Architectural Coating -

Construction Off-road Equipment Mitigation - BMPs, Tier 4 final + Electrical

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12

Google Middlefield, Const Phase 2, District Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	2.00	136.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblOffRoadEquipment	HorsePower	78.00	0.00
tblOffRoadEquipment	HorsePower	9.00	0.00

Google Middlefield, Const Phase 2, District Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	HorsePower	81.00	0.00
tblOffRoadEquipment	HorsePower	46.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	7.00	2.70
tblTripsAndVMT	WorkerTripNumber	33.00	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2026	0.0338	0.3024	0.4661	7.8000e-004	0.0000	0.0134	0.0134	0.0000	0.0128	0.0128	0.0000	67.1889	67.1889	0.0113	0.0000	67.4715
2027	0.0546	0.4885	0.7529	1.2600e-003	0.0000	0.0216	0.0216	0.0000	0.0207	0.0207	0.0000	108.5360	108.5360	0.0183	0.0000	108.9924
Maximum	**0.0546**	**0.4885**	**0.7529**	**1.2600e-003**	**0.0000**	**0.0216**	**0.0216**	**0.0000**	**0.0207**	**0.0207**	**0.0000**	**108.5360**	**108.5360**	**0.0183**	**0.0000**	**108.9924**

Mitigated Construction

Google Middlefield, Const Phase 2, District Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2026	8.5100e-003	0.0414	0.5173	7.8000e-004	0.0000	1.1200e-003	1.1200e-003	0.0000	1.1200e-003	1.1200e-003	0.0000	67.1889	67.1889	0.0113	0.0000	67.4714
2027	0.0138	0.0668	0.8356	1.2600e-003	0.0000	1.8100e-003	1.8100e-003	0.0000	1.8100e-003	1.8100e-003	0.0000	108.5358	108.5358	0.0183	0.0000	108.9922
Maximum	**0.0138**	**0.0668**	**0.8356**	**1.2600e-003**	**0.0000**	**1.8100e-003**	**1.8100e-003**	**0.0000**	**1.8100e-003**	**1.8100e-003**	**0.0000**	**108.5358**	**108.5358**	**0.0183**	**0.0000**	**108.9922**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**74.80**	**86.32**	**-10.98**	**0.00**	**0.00**	**91.61**	**91.61**	**0.00**	**91.26**	**91.26**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**11-1-2026**	**1-31-2027**	0.5098	0.0756
2	**2-1-2027**	**4-30-2027**	0.3713	0.0551
		Highest	0.5098	0.0756

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	11/1/2026	4/8/2027	6	136	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 1

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating –

Google Middlefield, Const Phase 2, District Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Air Compressors	1	2.50	0	0.48
Grading	Cement and Mortar Mixers	1	10.70	0	0.56
Grading	Concrete/Industrial Saws	1	1.40	0	0.73
Grading	Generator Sets	1	5.40	84	0.74
Grading	Graders	0	0.00	187	0.41
Grading	Pavers	2	7.10	130	0.42
Grading	Plate Compactors	2	5.80	8	0.43
Grading	Pumps	1	14.10	84	0.74
Grading	Rollers	1	10.50	80	0.38
Grading	Rubber Tired Dozers	0	0.00	247	0.40
Grading	Sweepers/Scrubbers	1	1.20	64	0.46
Grading	Tractors/Loaders/Backhoes	1	2.70	97	0.37
Grading	Welders	1	2.60	0	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	13	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Alternative Fuel for Construction Equipment

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Google Middlefield, Const Phase 2, District Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Grading - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0338	0.3024	0.4661	7.8000e-004		0.0134	0.0134		0.0128	0.0128	0.0000	67.1889	67.1889	0.0113	0.0000	67.4715
Total	**0.0338**	**0.3024**	**0.4661**	**7.8000e-004**	**0.0000**	**0.0134**	**0.0134**	**0.0000**	**0.0128**	**0.0128**	**0.0000**	**67.1889**	**67.1889**	**0.0113**	**0.0000**	**67.4715**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Google Middlefield, Const Phase 2, District Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.5100e-003	0.0414	0.5173	7.8000e-004		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003	0.0000	67.1889	67.1889	0.0113	0.0000	67.4714
Total	**8.5100e-003**	**0.0414**	**0.5173**	**7.8000e-004**	**0.0000**	**1.1200e-003**	**1.1200e-003**	**0.0000**	**1.1200e-003**	**1.1200e-003**	**0.0000**	**67.1889**	**67.1889**	**0.0113**	**0.0000**	**67.4714**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Grading - 2027

Google Middlefield, Const Phase 2, District Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0546	0.4885	0.7529	1.2600e-003		0.0216	0.0216		0.0207	0.0207	0.0000	108.5360	108.5360	0.0183	0.0000	108.9924
Total	**0.0546**	**0.4885**	**0.7529**	**1.2600e-003**	**0.0000**	**0.0216**	**0.0216**	**0.0000**	**0.0207**	**0.0207**	**0.0000**	**108.5360**	**108.5360**	**0.0183**	**0.0000**	**108.9924**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

Google Middlefield, Const Phase 2, District Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0138	0.0668	0.8356	1.2600e-003		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003	0.0000	108.5358	108.5358	0.0183	0.0000	108.9922
Total	**0.0138**	**0.0668**	**0.8356**	**1.2600e-003**	**0.0000**	**1.8100e-003**	**1.8100e-003**	**0.0000**	**1.8100e-003**	**1.8100e-003**	**0.0000**	**108.5358**	**108.5358**	**0.0183**	**0.0000**	**108.9922**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Mitigated

Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	799.00	Space	0.00	237,000.00	0
Apartments Mid Rise	770.00	Dwelling Unit	9.54	704,566.00	2202
Strip Mall	7.49	1000sqft	0.00	7,492.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2030
Utility Company	Silicon Valley Clean Energy				
CO2 Intensity (lb/MWhr)	2	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - As per supplied construction schedule
Land Use - As per construction schedule
Construction Phase - As per construction schedule
Off-road Equipment - As per supplied construction schedule
Off-road Equipment - As per supplied construction schedule
Off-road Equipment - As per supplied construction schedule
Off-road Equipment - As per supplied construction schedule
Off-road Equipment - As per supplied construction schedule
Off-road Equipment - As per supplied construction schedule
Off-road Equipment - As per supplied construction schedule

Date: 12/2/2021 3:54 PM

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Trips and VMT - 0 trips emfac2021 adjustments, demo = 8,033 tons asphalt, site prerp = 1 water truck

Demolition - existing building demo = 58,692-sf

Grading - grading = 140,384-cy export + 1,713-cy export geothermal bore

Architectural Coating - At least 80% of paints have to be super-compliant VOC = effectively 20g/L interior and 30g/L exterior

Construction Off-road Equipment Mitigation - BMPs, Tier 4 final + Electrical

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	30.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	20.00
tblArchitecturalCoating	EF_Parking	150.00	30.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	30.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	20.00
tblAreaCoating	Area_Nonresidential_Exterior	3746	3500
tblAreaCoating	Area_Nonresidential_Interior	11238	10500
tblAreaCoating	Area_Residential_Exterior	475582	427613
tblAreaCoating	Area_Residential_Interior	1426746	1282838
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	123.00
tblConstructionPhase	NumDays	230.00	1,008.00

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstructionPhase	NumDays	20.00	100.00
tblConstructionPhase	NumDays	20.00	144.00
tblConstructionPhase	NumDays	20.00	123.00
tblConstructionPhase	NumDays	10.00	41.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblFireplaces	NumberGas	115.50	102.60
tblFireplaces	NumberNoFireplace	30.80	27.36
tblFireplaces	NumberWood	130.90	116.28
tblGrading	MaterialExported	0.00	142,097.00
tblLandUse	LandUseSquareFeet	319,600.00	237,000.00
tblLandUse	LandUseSquareFeet	770,000.00	704,566.00
tblLandUse	LandUseSquareFeet	7,490.00	7,492.00
tblLandUse	LotAcreage	7.19	0.00
tblLandUse	LotAcreage	20.26	9.54
tblLandUse	LotAcreage	0.17	0.00
tblOffRoadEquipment	HorsePower	78.00	0.00
tblOffRoadEquipment	HorsePower	81.00	0.00
tblOffRoadEquipment	HorsePower	231.00	0.00
tblOffRoadEquipment	HorsePower	46.00	0.00
tblOffRoadEquipment	HorsePower	63.00	0.00
tblOffRoadEquipment	HorsePower	63.00	0.00
tblOffRoadEquipment	HorsePower	63.00	0.00
tblOffRoadEquipment	HorsePower	78.00	0.00

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	HorsePower	78.00	0.00
tblOffRoadEquipment	HorsePower	9.00	0.00
tblOffRoadEquipment	HorsePower	81.00	0.00
tblOffRoadEquipment	HorsePower	231.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.30
tblOffRoadEquipment	UsageHours	8.00	2.70
tblOffRoadEquipment	UsageHours	7.00	10.30
tblOffRoadEquipment	UsageHours	8.00	7.90
tblOffRoadEquipment	UsageHours	8.00	7.90
tblOffRoadEquipment	UsageHours	8.00	7.50
tblOffRoadEquipment	UsageHours	8.00	5.40
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	6.60
tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	8.00	7.50

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.80
tblOffRoadEquipment	UsageHours	8.00	10.80
tblOffRoadEquipment	UsageHours	8.00	8.10
tblOffRoadEquipment	UsageHours	8.00	2.20
tblSolidWaste	SolidWasteGenerationRate	354.20	314.64
tblSolidWaste	SolidWasteGenerationRate	7.86	7.35
tblTripsAndVMT	HaulingTripNumber	267.00	0.00
tblTripsAndVMT	HaulingTripNumber	17,762.00	0.00
tblTripsAndVMT	VendorTripNumber	122.00	0.00
tblTripsAndVMT	WorkerTripNumber	30.00	0.00
tblTripsAndVMT	WorkerTripNumber	8.00	0.00
tblTripsAndVMT	WorkerTripNumber	60.00	0.00
tblTripsAndVMT	WorkerTripNumber	35.00	0.00
tblTripsAndVMT	WorkerTripNumber	656.00	0.00
tblTripsAndVMT	WorkerTripNumber	13.00	0.00
tblTripsAndVMT	WorkerTripNumber	131.00	0.00
tblWater	IndoorWaterUseRate	50,168,599.73	44,565,353.53
tblWater	IndoorWaterUseRate	554,803.19	518,507.65
tblWater	OutdoorWaterUseRate	31,628,030.26	28,095,548.96
tblWater	OutdoorWaterUseRate	340,040.66	317,795.01
tblWoodstoves	NumberCatalytic	15.40	13.68
tblWoodstoves	NumberNoncatalytic	15.40	13.68

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2026	0.6175	5.7400	6.4855	0.0142	1.8061	0.2463	2.0524	0.9148	0.2309	1.1457	0.0000	1,238.9244	1,238.9244	0.3140	0.0000	1,246.7737
2027	0.1638	1.4766	2.1245	3.9800e-003	0.0000	0.0647	0.0647	0.0000	0.0621	0.0621	0.0000	345.0936	345.0936	0.0593	0.0000	346.5752
2028	1.0843	0.7089	1.0219	1.5700e-003	0.0000	0.0330	0.0330	0.0000	0.0312	0.0312	0.0000	136.7373	136.7373	0.0270	0.0000	137.4122
2029	0.0564	0.5186	0.7579	1.2000e-003	0.0000	0.0240	0.0240	0.0000	0.0229	0.0229	0.0000	103.9523	103.9523	0.0164	0.0000	104.3622
2030	2.8800e-003	0.0204	0.0445	8.0000e-005	0.0000	3.6000e-004	3.6000e-004	0.0000	3.6000e-004	3.6000e-004	0.0000	6.4903	6.4903	2.3000e-004	0.0000	6.4961
Maximum	**1.0843**	**5.7400**	**6.4855**	**0.0142**	**1.8061**	**0.2463**	**2.0524**	**0.9148**	**0.2309**	**1.1457**	**0.0000**	**1,238.9244**	**1,238.9244**	**0.3140**	**0.0000**	**1,246.7737**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2026	0.1733	1.0215	8.1589	0.0142	0.7044	0.0221	0.7265	0.1784	0.0221	0.2005	0.0000	1,238.9230	1,238.9230	0.3140	0.0000	1,246.7722
2027	0.0440	0.1904	2.4574	3.9800e-003	0.0000	5.8600e-003	5.8600e-003	0.0000	5.8600e-003	5.8600e-003	0.0000	345.0932	345.0932	0.0593	0.0000	346.5748
2028	1.0273	0.0764	1.0876	1.5700e-003	0.0000	2.3500e-003	2.3500e-003	0.0000	2.3500e-003	2.3500e-003	0.0000	136.7371	136.7371	0.0270	0.0000	137.4121
2029	0.0131	0.0566	0.8060	1.2000e-003	0.0000	1.7400e-003	1.7400e-003	0.0000	1.7400e-003	1.7400e-003	0.0000	103.9522	103.9522	0.0164	0.0000	104.3621
2030	7.5000e-004	3.2600e-003	0.0464	8.0000e-005	0.0000	1.0000e-004	1.0000e-004	0.0000	1.0000e-004	1.0000e-004	0.0000	6.4903	6.4903	2.3000e-004	0.0000	6.4961

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Maximum	1.0273	1.0215	8.1589	0.0142	0.7044	0.0221	0.7265	0.1784	0.0221	0.2005	0.0000	1,238.9230	1,238.9230	0.3140	0.0000	1,246.7722

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	34.63	84.07	-20.34	0.00	61.00	91.26	66.13	80.50	90.74	83.32	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2026	3-31-2026	1.1858	0.2313
2	4-1-2026	6-30-2026	2.7336	0.5263
3	7-1-2026	9-30-2026	1.9646	0.3671
4	10-1-2026	12-31-2026	0.4773	0.0708
5	1-1-2027	3-31-2027	0.5177	0.0755
6	4-1-2027	6-30-2027	0.5235	0.0763
7	7-1-2027	9-30-2027	0.4415	0.0635
8	10-1-2027	12-31-2027	0.1572	0.0190
9	1-1-2028	3-31-2028	0.6213	0.3715
10	4-1-2028	6-30-2028	0.8529	0.6657
11	7-1-2028	9-30-2028	0.1800	0.0527
12	10-1-2028	12-31-2028	0.1449	0.0176
13	1-1-2029	3-31-2029	0.1417	0.0172
14	4-1-2029	6-30-2029	0.1433	0.0174
15	7-1-2029	9-30-2029	0.1449	0.0176
16	10-1-2029	12-31-2029	0.1449	0.0176
17	1-1-2030	3-31-2030	0.0233	0.0040
		Highest	2.7336	0.6657

3.0 Construction Detail

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2026	4/27/2026	6	100	
2	Site Preparation	Site Preparation	3/1/2026	4/17/2026	6	41	
3	Grading	Grading	3/18/2026	9/1/2026	6	144	
4	Trenching/Foundation	Trenching	5/17/2026	9/9/2027	6	412	
5	Building Construction	Building Construction	11/3/2026	1/21/2030	6	1008	
6	Paving	Paving	12/24/2027	5/15/2028	6	123	
7	Architectural Coating	Architectural Coating	2/13/2028	7/5/2028	6	123	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 270

Acres of Paving: 0

Residential Indoor: 1,426,746; Residential Outdoor: 475,582; Non-Residential Indoor: 11,238; Non-Residential Outdoor: 3,746; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Aerial Lifts	1	6.50	0	0.31
Demolition	Air Compressors	1	4.20	0	0.48
Demolition	Concrete/Industrial Saws	1	2.70	0	0.73
Demolition	Excavators	4	7.90	158	0.38
Demolition	Forklifts	1	10.00	89	0.20
Demolition	Generator Sets	1	5.40	84	0.74
Demolition	Rubber Tired Dozers	1	10.00	247	0.40
Demolition	Sweepers/Scrubbers	1	6.50	64	0.46
Demolition	Tractors/Loaders/Backhoes	1	8.10	97	0.37
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Sweepers/Scrubbers	1	4.30	64	0.46

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Site Preparation	Tractors/Loaders/Backhoes	2	8.10	97	0.37
Grading	Air Compressors	1	4.20	0	0.48
Grading	Bore/Drill Rigs	2	2.00	221	0.50
Grading	Bore/Drill Rigs	2	4.00	221	0.50
Grading	Bore/Drill Rigs	4	6.30	221	0.50
Grading	Excavators	2	7.90	158	0.38
Grading	Generator Sets	1	8.10	84	0.74
Grading	Graders	0	0.00	187	0.41
Grading	Plate Compactors	2	1.90	8	0.43
Grading	Pumps	1	24.00	84	0.74
Grading	Rubber Tired Dozers	4	7.50	247	0.40
Grading	Scrapers	0	0.00	367	0.48
Grading	Skid Steer Loaders	1	3.60	65	0.37
Grading	Sweepers/Scrubbers	2	8.70	64	0.46
Grading	Tractors/Loaders/Backhoes	2	10.80	97	0.37
Trenching/Foundation	Aerial Lifts	2	9.70	0	0.31
Trenching/Foundation	Bore/Drill Rigs	4	1.60	221	0.50
Trenching/Foundation	Cranes	1	10.30	0	0.29
Trenching/Foundation	Forklifts	2	10.00	89	0.20
Trenching/Foundation	Generator Sets	1	5.40	84	0.74
Trenching/Foundation	Pumps	2	5.40	84	0.74
Trenching/Foundation	Tractors/Loaders/Backhoes	2	1.00	97	0.37
Building Construction	Aerial Lifts	2	9.70	0	0.31
Building Construction	Cement and Mortar Mixers	1	7.10	0	0.56
Building Construction	Cranes	1	10.30	0	0.29
Building Construction	Forklifts	2	7.50	89	0.20
Building Construction	Generator Sets	1	5.40	84	0.74
Building Construction	Plate Compactors	1	0.90	8	0.43
Building Construction	Tractors/Loaders/Backhoes	1	0.80	97	0.37

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Building Construction	Welders	1	2.20	0	0.45
Paving	Concrete/Industrial Saws	2	0.40	0	0.73
Paving	Pavers	0	0.00	130	0.42
Paving	Paving Equipment	0	0.00	132	0.36
Paving	Rollers	2	6.60	80	0.38
Paving	Tractors/Loaders/Backhoes	1	5.40	97	0.37
Architectural Coating	Air Compressors	1	8.30	0	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	12	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	24	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching/Foundation	14	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Alternative Fuel for Construction Equipment

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2026

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0289	0.0000	0.0289	4.3700e-003	0.0000	4.3700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1010	0.9148	1.2156	2.1300e-003		0.0420	0.0420		0.0389	0.0389	0.0000	186.9468	186.9468	0.0550	0.0000	188.3218
Total	**0.1010**	**0.9148**	**1.2156**	**2.1300e-003**	**0.0289**	**0.0420**	**0.0709**	**4.3700e-003**	**0.0389**	**0.0433**	**0.0000**	**186.9468**	**186.9468**	**0.0550**	**0.0000**	**188.3218**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0113	0.0000	0.0113	8.5000e-004	0.0000	8.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0269	0.1635	1.4195	2.1300e-003		3.4200e-003	3.4200e-003		3.4200e-003	3.4200e-003	0.0000	186.9466	186.9466	0.0550	0.0000	188.3215
Total	**0.0269**	**0.1635**	**1.4195**	**2.1300e-003**	**0.0113**	**3.4200e-003**	**0.0147**	**8.5000e-004**	**3.4200e-003**	**4.2700e-003**	**0.0000**	**186.9466**	**186.9466**	**0.0550**	**0.0000**	**188.3215**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.3 Site Preparation - 2026

Unmitigated Construction On-Site

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.2200e-003	0.0715	0.1135	1.6000e-004		3.1600e-003	3.1600e-003		2.9100e-003	2.9100e-003	0.0000	13.8361	13.8361	4.4700e-003	0.0000	13.9479
Total	**7.2200e-003**	**0.0715**	**0.1135**	**1.6000e-004**	**0.0000**	**3.1600e-003**	**3.1600e-003**	**0.0000**	**2.9100e-003**	**2.9100e-003**	**0.0000**	**13.8361**	**13.8361**	**4.4700e-003**	**0.0000**	**13.9479**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.2600e-003	0.0225	0.1184	1.6000e-004		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	13.8361	13.8361	4.4700e-003	0.0000	13.9479
Total	**2.2600e-003**	**0.0225**	**0.1184**	**1.6000e-004**	**0.0000**	**2.6000e-004**	**2.6000e-004**	**0.0000**	**2.6000e-004**	**2.6000e-004**	**0.0000**	**13.8361**	**13.8361**	**4.4700e-003**	**0.0000**	**13.9479**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.4 Grading - 2026

Unmitigated Construction On-Site

Date: 12/2/2021 3:54 PM

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.7772	0.0000	1.7772	0.9104	0.0000	0.9104	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4037	3.8102	3.8072	9.2000e-003		0.1607	0.1607		0.1502	0.1502	0.0000	804.1855	804.1855	0.2135	0.0000	809.5232
Total	**0.4037**	**3.8102**	**3.8072**	**9.2000e-003**	**1.7772**	**0.1607**	**1.9379**	**0.9104**	**0.1502**	**1.0606**	**0.0000**	**804.1855**	**804.1855**	**0.2135**	**0.0000**	**809.5232**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.6931	0.0000	0.6931	0.1775	0.0000	0.1775	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1142	0.7059	5.0066	9.2000e-003		0.0145	0.0145		0.0145	0.0145	0.0000	804.1846	804.1846	0.2135	0.0000	809.5222
Total	**0.1142**	**0.7059**	**5.0066**	**9.2000e-003**	**0.6931**	**0.0145**	**0.7076**	**0.1775**	**0.0145**	**0.1920**	**0.0000**	**804.1846**	**804.1846**	**0.2135**	**0.0000**	**809.5222**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.5 Trenching/Foundation - 2026

Unmitigated Construction On-Site

Date: 12/2/2021 3:54 PM

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0964	0.8589	1.2257	2.5000e-003		0.0365	0.0365		0.0352	0.0352	0.0000	217.0181	217.0181	0.0383	0.0000	217.9761
Total	**0.0964**	**0.8589**	**1.2257**	**2.5000e-003**		**0.0365**	**0.0365**		**0.0352**	**0.0352**	**0.0000**	**217.0181**	**217.0181**	**0.0383**	**0.0000**	**217.9761**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0278	0.1203	1.4831	2.5000e-003		3.7000e-003	3.7000e-003		3.7000e-003	3.7000e-003	0.0000	217.0179	217.0179	0.0383	0.0000	217.9759
Total	**0.0278**	**0.1203**	**1.4831**	**2.5000e-003**		**3.7000e-003**	**3.7000e-003**		**3.7000e-003**	**3.7000e-003**	**0.0000**	**217.0179**	**217.0179**	**0.0383**	**0.0000**	**217.9759**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.5 Trenching/Foundation - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Off-Road	0.1063	0.9466	1.3507	2.7500e-003		0.0402	0.0402		0.0388	0.0388	0.0000	239.1628	239.1628	0.0422	0.0000	240.2186
Total	**0.1063**	**0.9466**	**1.3507**	**2.7500e-003**		**0.0402**	**0.0402**		**0.0388**	**0.0388**	**0.0000**	**239.1628**	**239.1628**	**0.0422**	**0.0000**	**240.2186**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-Road	0.0306	0.1326	1.6344	2.7500e-003		4.0800e-003	4.0800e-003		4.0800e-003	4.0800e-003	0.0000	239.1626	239.1626	0.0422	0.0000	240.2183
Total	**0.0306**	**0.1326**	**1.6344**	**2.7500e-003**		**4.0800e-003**	**4.0800e-003**		**4.0800e-003**	**4.0800e-003**	**0.0000**	**239.1626**	**239.1626**	**0.0422**	**0.0000**	**240.2183**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.1900e-003	0.0845	0.1235	2.0000e-004		3.9000e-003	3.9000e-003		3.7200e-003	3.7200e-003	0.0000	16.9379	16.9379	2.6700e-003	0.0000	17.0047

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**9.1900e-003**	**0.0845**	**0.1235**	**2.0000e-004**		**3.9000e-003**	**3.9000e-003**		**3.7200e-003**	**3.7200e-003**	**0.0000**	**16.9379**	**16.9379**	**2.6700e-003**	**0.0000**	**17.0047**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.1300e-003	9.2300e-003	0.1313	2.0000e-004		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	16.9379	16.9379	2.6700e-003	0.0000	17.0047
Total	**2.1300e-003**	**9.2300e-003**	**0.1313**	**2.0000e-004**		**2.8000e-004**	**2.8000e-004**		**2.8000e-004**	**2.8000e-004**	**0.0000**	**16.9379**	**16.9379**	**2.6700e-003**	**0.0000**	**17.0047**

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0564	0.5186	0.7579	1.2000e-003		0.0240	0.0240		0.0229	0.0229	0.0000	103.9523	103.9523	0.0164	0.0000	104.3622
Total	**0.0564**	**0.5186**	**0.7579**	**1.2000e-003**		**0.0240**	**0.0240**		**0.0229**	**0.0229**	**0.0000**	**103.9523**	**103.9523**	**0.0164**	**0.0000**	**104.3622**

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0131	0.0566	0.8060	1.2000e-003		1.7400e-003	1.7400e-003		1.7400e-003	1.7400e-003	0.0000	103.9522	103.9522	0.0164	0.0000	104.3621
Total	**0.0131**	**0.0566**	**0.8060**	**1.2000e-003**		**1.7400e-003**	**1.7400e-003**		**1.7400e-003**	**1.7400e-003**	**0.0000**	**103.9522**	**103.9522**	**0.0164**	**0.0000**	**104.3621**

Mitigated Construction Off-Site

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0564	0.5186	0.7579	1.2000e-003		0.0240	0.0240		0.0229	0.0229	0.0000	103.9523	103.9523	0.0164	0.0000	104.3622
Total	**0.0564**	**0.5186**	**0.7579**	**1.2000e-003**		**0.0240**	**0.0240**		**0.0229**	**0.0229**	**0.0000**	**103.9523**	**103.9523**	**0.0164**	**0.0000**	**104.3622**

Unmitigated Construction Off-Site

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0131	0.0566	0.8060	1.2000e-003		1.7400e-003	1.7400e-003		1.7400e-003	1.7400e-003	0.0000	103.9522	103.9522	0.0164	0.0000	104.3621
Total	**0.0131**	**0.0566**	**0.8060**	**1.2000e-003**		**1.7400e-003**	**1.7400e-003**		**1.7400e-003**	**1.7400e-003**	**0.0000**	**103.9522**	**103.9522**	**0.0164**	**0.0000**	**104.3621**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0564	0.5186	0.7579	1.2000e-003		0.0240	0.0240		0.0229	0.0229	0.0000	103.9523	103.9523	0.0164	0.0000	104.3622
Total	**0.0564**	**0.5186**	**0.7579**	**1.2000e-003**		**0.0240**	**0.0240**		**0.0229**	**0.0229**	**0.0000**	**103.9523**	**103.9523**	**0.0164**	**0.0000**	**104.3622**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0131	0.0566	0.8060	1.2000e-003		1.7400e-003	1.7400e-003		1.7400e-003	1.7400e-003	0.0000	103.9522	103.9522	0.0164	0.0000	104.3621
Total	**0.0131**	**0.0566**	**0.8060**	**1.2000e-003**		**1.7400e-003**	**1.7400e-003**		**1.7400e-003**	**1.7400e-003**	**0.0000**	**103.9522**	**103.9522**	**0.0164**	**0.0000**	**104.3621**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Building Construction - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.8800e-003	0.0204	0.0445	8.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004	0.0000	6.4903	6.4903	2.3000e-004	0.0000	6.4961
Total	**2.8800e-003**	**0.0204**	**0.0445**	**8.0000e-005**		**3.6000e-004**	**3.6000e-004**		**3.6000e-004**	**3.6000e-004**	**0.0000**	**6.4903**	**6.4903**	**2.3000e-004**	**0.0000**	**6.4961**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.5000e-004	3.2600e-003	0.0464	8.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	6.4903	6.4903	2.3000e-004	0.0000	6.4961
Total	**7.5000e-004**	**3.2600e-003**	**0.0464**	**8.0000e-005**		**1.0000e-004**	**1.0000e-004**		**1.0000e-004**	**1.0000e-004**	**0.0000**	**6.4903**	**6.4903**	**2.3000e-004**	**0.0000**	**6.4961**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.7 Paving - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.1000e-003	0.0115	0.0159	2.0000e-005		5.5000e-004	5.5000e-004		5.0000e-004	5.0000e-004	0.0000	1.9784	1.9784	6.4000e-004	0.0000	1.9944
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.1000e-003**	**0.0115**	**0.0159**	**2.0000e-005**		**5.5000e-004**	**5.5000e-004**		**5.0000e-004**	**5.0000e-004**	**0.0000**	**1.9784**	**1.9784**	**6.4000e-004**	**0.0000**	**1.9944**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.8000e-004	1.1900e-003	0.0170	2.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	1.9784	1.9784	6.4000e-004	0.0000	1.9944
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.8000e-004**	**1.1900e-003**	**0.0170**	**2.0000e-005**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**	**0.0000**	**1.9784**	**1.9784**	**6.4000e-004**	**0.0000**	**1.9944**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.7 Paving - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0183	0.1904	0.2640	3.7000e-004		9.0600e-003	9.0600e-003		8.3400e-003	8.3400e-003	0.0000	32.7849	32.7849	0.0106	0.0000	33.0500
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0183**	**0.1904**	**0.2640**	**3.7000e-004**		**9.0600e-003**	**9.0600e-003**		**8.3400e-003**	**8.3400e-003**	**0.0000**	**32.7849**	**32.7849**	**0.0106**	**0.0000**	**33.0500**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.5700e-003	0.0198	0.2815	3.7000e-004		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	32.7849	32.7849	0.0106	0.0000	33.0500
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.5700e-003**	**0.0198**	**0.2815**	**3.7000e-004**		**6.1000e-004**	**6.1000e-004**		**6.1000e-004**	**6.1000e-004**	**0.0000**	**32.7849**	**32.7849**	**0.0106**	**0.0000**	**33.0500**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.8 Architectural Coating - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.0096					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.0096**					**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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Google Middlefield, Const Phase 3 (R3, R4b, R5), District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.0096					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.0096**					**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Google Middlefield, Const Phase 3 Affordable R4a, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Google Middlefield, Const Phase 3 Affordable R4a, District Util - Mitigated

Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	210.00	Space	0.00	64,000.00	0
Apartments Mid Rise	210.00	Dwelling Unit	1.32	190,000.00	601

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2028
Utility Company	Silicon Valley Clean Energy				
CO2 Intensity (lb/MWhr)	2	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - As per supplied construction schedule

Land Use - As per supplied construction schedule

Construction Phase - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Trips and VMT - 0 trips emfac2021 adjustments, demo = 1,000 ton aspphalt, site prep = 1 water truck

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Google Middlefield, Const Phase 3 Affordable R4a, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Demolition - existing building demo = 53,170-sf

Grading - grading = 42,787-cy export

Architectural Coating - At least 80% of paints have to be super-compliant VOC = effectively 20g/L interior and 30g/L exterior

Construction Off-road Equipment Mitigation - BMPs, Tier 4 final + Electrical

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	30.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	20.00
tblArchitecturalCoating	EF_Parking	150.00	30.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	30.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	20.00
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	10.00	39.00
tblConstructionPhase	NumDays	200.00	319.00
tblConstructionPhase	NumDays	20.00	86.00
tblConstructionPhase	NumDays	4.00	46.00
tblConstructionPhase	NumDays	10.00	39.00
tblConstructionPhase	NumDays	2.00	13.00
tblConstructionPhase	NumDaysWeek	5.00	6.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblGrading	MaterialExported	0.00	42,787.00
tblLandUse	LandUseSquareFeet	84,000.00	64,000.00
tblLandUse	LandUseSquareFeet	210,000.00	190,000.00
tblLandUse	LotAcreage	1.89	0.00
tblLandUse	LotAcreage	5.53	1.32
tblOffRoadEquipment	HorsePower	63.00	0.00
tblOffRoadEquipment	HorsePower	78.00	0.00
tblOffRoadEquipment	HorsePower	81.00	0.00
tblOffRoadEquipment	HorsePower	78.00	0.00
tblOffRoadEquipment	HorsePower	63.00	0.00
tblOffRoadEquipment	HorsePower	231.00	0.00
tblOffRoadEquipment	HorsePower	63.00	0.00
tblOffRoadEquipment	HorsePower	9.00	0.00
tblOffRoadEquipment	HorsePower	231.00	0.00
tblOffRoadEquipment	HorsePower	46.00	0.00
tblOffRoadEquipment	HorsePower	81.00	0.00
tblOffRoadEquipment	HorsePower	78.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	8.00	2.70
tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	8.00	8.10
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	8.00	8.10
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	7.50
tblOffRoadEquipment	UsageHours	7.00	10.80
tblOffRoadEquipment	UsageHours	6.00	10.30
tblOffRoadEquipment	UsageHours	6.00	7.50
tblOffRoadEquipment	UsageHours	8.00	5.40
tblOffRoadEquipment	UsageHours	6.00	0.80
tblOffRoadEquipment	UsageHours	8.00	2.20
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	6.60
tblOffRoadEquipment	UsageHours	8.00	5.40
tblOffRoadEquipment	UsageHours	6.00	8.30
tblTripsAndVMT	HaulingTripNumber	242.00	0.00
tblTripsAndVMT	HaulingTripNumber	5,348.00	0.00
tblTripsAndVMT	VendorTripNumber	33.00	0.00
tblTripsAndVMT	WorkerTripNumber	30.00	0.00
tblTripsAndVMT	WorkerTripNumber	8.00	0.00
tblTripsAndVMT	WorkerTripNumber	50.00	0.00
tblTripsAndVMT	WorkerTripNumber	25.00	0.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblTripsAndVMT	WorkerTripNumber	178.00	0.00
tblTripsAndVMT	WorkerTripNumber	13.00	0.00
tblTripsAndVMT	WorkerTripNumber	36.00	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2026	0.0404	0.3659	0.4863	8.5000e-004	0.0122	0.0168	0.0290	1.8400e-003	0.0156	0.0174	0.0000	74.7787	74.7787	0.0220	0.0000	75.3287
2027	0.4784	2.1928	2.6505	4.8800e-003	0.5816	0.0974	0.6789	0.2929	0.0917	0.3846	0.0000	424.8664	424.8664	0.0945	0.0000	427.2297
2028	0.0710	0.3976	0.5811	9.2000e-004	0.0000	0.0184	0.0184	0.0000	0.0175	0.0175	0.0000	79.7079	79.7079	0.0126	0.0000	80.0222
Maximum	**0.4784**	**2.1928**	**2.6505**	**4.8800e-003**	**0.5816**	**0.0974**	**0.6789**	**0.2929**	**0.0917**	**0.3846**	**0.0000**	**424.8664**	**424.8664**	**0.0945**	**0.0000**	**427.2297**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2026	0.0108	0.0654	0.5678	8.5000e-004	4.7500e-003	1.3700e-003	6.1200e-003	3.6000e-004	1.3700e-003	1.7300e-003	0.0000	74.7786	74.7786	0.0220	0.0000	75.3286

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2027	0.3007	0.3452	3.0376	4.8800e-003	0.2268	7.4400e-003	0.2342	0.0571	7.4400e-003	0.0646	0.0000	424.8659	424.8659	0.0945	0.0000	427.2292
2028	0.0377	0.0434	0.6180	9.2000e-004	0.0000	1.3400e-003	1.3400e-003	0.0000	1.3400e-003	1.3400e-003	0.0000	79.7078	79.7078	0.0126	0.0000	80.0221
Maximum	**0.3007**	**0.3452**	**3.0376**	**4.8800e-003**	**0.2268**	**7.4400e-003**	**0.2342**	**0.0571**	**7.4400e-003**	**0.0646**	**0.0000**	**424.8659**	**424.8659**	**0.0945**	**0.0000**	**427.2292**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**40.79**	**84.64**	**-13.60**	**0.00**	**61.00**	**92.34**	**66.72**	**80.50**	**91.87**	**83.88**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**11-15-2026**	**2-14-2027**	0.8010	0.1502
2	**2-15-2027**	**5-14-2027**	1.3288	0.2419
3	**5-15-2027**	**8-14-2027**	0.3189	0.0399
4	**8-15-2027**	**11-14-2027**	0.2924	0.0358
5	**11-15-2027**	**2-14-2028**	0.4244	0.2862
6	**2-15-2028**	**5-14-2028**	0.1417	0.0172
7	**5-15-2028**	**8-14-2028**	0.1449	0.0176
8	**8-15-2028**	**9-30-2028**	0.0740	0.0090
		Highest	1.3288	0.2862

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	11/15/2026	2/23/2027	6	86	
2	Site Preparation	Site Preparation	2/23/2027	3/9/2027	6	13	
3	Grading	Grading	3/10/2027	5/1/2027	6	46	
4	Trenching/Foundation	Trenching	5/2/2027	9/30/2027	6	130	

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5	Building Construction	Building Construction	10/1/2027	10/6/2028	6	319	
6	Paving	Paving	10/8/2027	11/22/2027	6	39	
7	Architectural Coating	Architectural Coating	11/22/2027	1/5/2028	6	39	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 86.25

Acres of Paving: 0

Residential Indoor: 384,750; Residential Outdoor: 128,250; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 3,840

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Aerial Lifts	1	6.50	0	0.31
Demolition	Air Compressors	1	4.20	0	0.48
Demolition	Concrete/Industrial Saws	1	2.70	0	0.73
Demolition	Excavators	4	7.90	158	0.38
Demolition	Forklifts	1	10.00	89	0.20
Demolition	Generator Sets	1	5.40	84	0.74
Demolition	Rubber Tired Dozers	1	10.00	247	0.40
Demolition	Sweepers/Scrubbers	1	6.50	64	0.46
Demolition	Tractors/Loaders/Backhoes	1	8.10	97	0.37
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Sweepers/Scrubbers	1	4.30	64	0.46
Site Preparation	Tractors/Loaders/Backhoes	2	8.10	97	0.37
Grading	Air Compressors	1	4.20	0	0.48
Grading	Bore/Drill Rigs	2	2.00	221	0.50
Grading	Bore/Drill Rigs	2	4.00	221	0.50
Grading	Excavators	2	7.90	158	0.38
Grading	Generator Sets	1	8.10	84	0.74

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Grading	Graders	0	0.00	187	0.41
Grading	Plate Compactors	2	1.90	8	0.43
Grading	Pumps	1	24.00	84	0.74
Grading	Rubber Tired Dozers	4	7.50	247	0.40
Grading	Scrapers	0	0.00	367	0.48
Grading	Skid Steer Loaders	1	3.50	65	0.37
Grading	Sweepers/Scrubbers	2	8.70	64	0.46
Grading	Tractors/Loaders/Backhoes	2	10.80	97	0.37
Trenching/Foundation	Aerial Lifts	2	9.70	0	0.31
Trenching/Foundation	Cranes	1	10.30	0	0.29
Trenching/Foundation	Forklifts	2	10.00	89	0.20
Trenching/Foundation	Generator Sets	1	5.40	84	0.74
Trenching/Foundation	Pumps	2	5.40	84	0.74
Trenching/Foundation	Tractors/Loaders/Backhoes	2	1.00	97	0.37
Building Construction	Aerial Lifts	2	9.70	0	0.31
Building Construction	Cement and Mortar Mixers	1	7.10	0	0.56
Building Construction	Cranes	1	10.30	0	0.29
Building Construction	Forklifts	2	7.50	89	0.20
Building Construction	Generator Sets	1	5.40	84	0.74
Building Construction	Plate Compactors	1	0.90	8	0.43
Building Construction	Tractors/Loaders/Backhoes	1	0.80	97	0.37
Building Construction	Welders	1	2.20	0	0.45
Paving	Concrete/Industrial Saws	2	0.40	0	0.73
Paving	Pavers	0	0.00	130	0.42
Paving	Paving Equipment	0	0.00	132	0.36
Paving	Rollers	2	6.60	80	0.38
Paving	Tractors/Loaders/Backhoes	1	5.40	97	0.37
Architectural Coating	Air Compressors	1	8.30	0	0.48

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	12	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	20	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching/Foundation	10	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Alternative Fuel for Construction Equipment

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0122	0.0000	0.0122	1.8400e-003	0.0000	1.8400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0404	0.3659	0.4863	8.5000e-004		0.0168	0.0168		0.0156	0.0156	0.0000	74.7787	74.7787	0.0220	0.0000	75.3287

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0404**	**0.3659**	**0.4863**	**8.5000e-004**	**0.0122**	**0.0168**	**0.0290**	**1.8400e-003**	**0.0156**	**0.0174**	**0.0000**	**74.7787**	**74.7787**	**0.0220**	**0.0000**	**75.3287**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.7500e-003	0.0000	4.7500e-003	3.6000e-004	0.0000	3.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0108	0.0654	0.5678	8.5000e-004		1.3700e-003	1.3700e-003		1.3700e-003	1.3700e-003	0.0000	74.7786	74.7786	0.0220	0.0000	75.3286

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0108**	**0.0654**	**0.5678**	**8.5000e-004**	**4.7500e-003**	**1.3700e-003**	**6.1200e-003**	**3.6000e-004**	**1.3700e-003**	**1.7300e-003**	**0.0000**	**74.7786**	**74.7786**	**0.0220**	**0.0000**	**75.3286**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Demolition - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0140	0.0000	0.0140	2.1200e-003	0.0000	2.1200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0465	0.4208	0.5592	9.8000e-004		0.0193	0.0193		0.0179	0.0179	0.0000	85.9955	85.9955	0.0253	0.0000	86.6280

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0465**	**0.4208**	**0.5592**	**9.8000e-004**	**0.0140**	**0.0193**	**0.0333**	**2.1200e-003**	**0.0179**	**0.0200**	**0.0000**	**85.9955**	**85.9955**	**0.0253**	**0.0000**	**86.6280**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.4600e-003	0.0000	5.4600e-003	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0124	0.0752	0.6530	9.8000e-004		1.5700e-003	1.5700e-003		1.5700e-003	1.5700e-003	0.0000	85.9954	85.9954	0.0253	0.0000	86.6279

Google Middlefield, Const Phase 3 Affordable R4a, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0124**	**0.0752**	**0.6530**	**9.8000e-004**	**5.4600e-003**	**1.5700e-003**	**7.0300e-003**	**4.1000e-004**	**1.5700e-003**	**1.9800e-003**	**0.0000**	**85.9954**	**85.9954**	**0.0253**	**0.0000**	**86.6279**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.3 Site Preparation - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.2900e-003	0.0227	0.0360	5.0000e-005		1.0000e-003	1.0000e-003		9.2000e-004	9.2000e-004	0.0000	4.3870	4.3870	1.4200e-003	0.0000	4.4225

Google Middlefield, Const Phase 3 Affordable R4a, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**2.2900e-003**	**0.0227**	**0.0360**	**5.0000e-005**	**0.0000**	**1.0000e-003**	**1.0000e-003**	**0.0000**	**9.2000e-004**	**9.2000e-004**	**0.0000**	**4.3870**	**4.3870**	**1.4200e-003**	**0.0000**	**4.4225**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.2000e-004	7.1400e-003	0.0375	5.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	4.3870	4.3870	1.4200e-003	0.0000	4.4225

Google Middlefield, Const Phase 3 Affordable R4a, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**7.2000e-004**	**7.1400e-003**	**0.0375**	**5.0000e-005**	**0.0000**	**8.0000e-005**	**8.0000e-005**	**0.0000**	**8.0000e-005**	**8.0000e-005**	**0.0000**	**4.3870**	**4.3870**	**1.4200e-003**	**0.0000**	**4.4225**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.4 Grading - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.5676	0.0000	0.5676	0.2908	0.0000	0.2908	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1138	1.0818	1.0683	2.2500e-003		0.0469	0.0469		0.0439	0.0439	0.0000	196.5536	196.5536	0.0487	0.0000	197.7708

Google Middlefield, Const Phase 3 Affordable R4a, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.1138**	**1.0818**	**1.0683**	**2.2500e-003**	**0.5676**	**0.0469**	**0.6145**	**0.2908**	**0.0439**	**0.3347**	**0.0000**	**196.5536**	**196.5536**	**0.0487**	**0.0000**	**197.7708**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2214	0.0000	0.2214	0.0567	0.0000	0.0567	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0280	0.1885	1.2882	2.2500e-003		3.4900e-003	3.4900e-003		3.4900e-003	3.4900e-003	0.0000	196.5533	196.5533	0.0487	0.0000	197.7705

Google Middlefield, Const Phase 3 Affordable R4a, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0280**	**0.1885**	**1.2882**	**2.2500e-003**	**0.2214**	**3.4900e-003**	**0.2248**	**0.0567**	**3.4900e-003**	**0.0602**	**0.0000**	**196.5533**	**196.5533**	**0.0487**	**0.0000**	**197.7705**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.5 Trenching/Foundation - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0531	0.4727	0.7071	1.1600e-003		0.0210	0.0210		0.0204	0.0204	0.0000	100.6706	100.6706	0.0114	0.0000	100.9561
Total	**0.0531**	**0.4727**	**0.7071**	**1.1600e-003**		**0.0210**	**0.0210**		**0.0204**	**0.0204**	**0.0000**	**100.6706**	**100.6706**	**0.0114**	**0.0000**	**100.9561**

Date: 12/2/2021 4:14 PM

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0123	0.0535	0.7607	1.1600e-003		1.6400e-003	1.6400e-003		1.6400e-003	1.6400e-003	0.0000	100.6705	100.6705	0.0114	0.0000	100.9560
Total	**0.0123**	**0.0535**	**0.7607**	**1.1600e-003**		**1.6400e-003**	**1.6400e-003**		**1.6400e-003**	**1.6400e-003**	**0.0000**	**100.6705**	**100.6705**	**0.0114**	**0.0000**	**100.9560**

Google Middlefield, Const Phase 3 Affordable R4a, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0142	0.1309	0.1913	3.0000e-004		6.0500e-003	6.0500e-003		5.7700e-003	5.7700e-003	0.0000	26.2372	26.2372	4.1400e-003	0.0000	26.3406
Total	**0.0142**	**0.1309**	**0.1913**	**3.0000e-004**		**6.0500e-003**	**6.0500e-003**		**5.7700e-003**	**5.7700e-003**	**0.0000**	**26.2372**	**26.2372**	**4.1400e-003**	**0.0000**	**26.3406**

Unmitigated Construction Off-Site

Date: 12/2/2021 4:14 PM

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.3000e-003	0.0143	0.2034	3.0000e-004		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	26.2371	26.2371	4.1400e-003	0.0000	26.3406
Total	**3.3000e-003**	**0.0143**	**0.2034**	**3.0000e-004**		**4.4000e-004**	**4.4000e-004**		**4.4000e-004**	**4.4000e-004**	**0.0000**	**26.2371**	**26.2371**	**4.1400e-003**	**0.0000**	**26.3406**

Mitigated Construction Off-Site

Google Middlefield, Const Phase 3 Affordable R4a, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0433	0.3976	0.5811	9.2000e-004		0.0184	0.0184		0.0175	0.0175	0.0000	79.7079	79.7079	0.0126	0.0000	80.0222
Total	**0.0433**	**0.3976**	**0.5811**	**9.2000e-004**		**0.0184**	**0.0184**		**0.0175**	**0.0175**	**0.0000**	**79.7079**	**79.7079**	**0.0126**	**0.0000**	**80.0222**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Google Middlefield, Const Phase 3 Affordable R4a, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0100	0.0434	0.6180	9.2000e-004		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003	0.0000	79.7078	79.7078	0.0126	0.0000	80.0221
Total	**0.0100**	**0.0434**	**0.6180**	**9.2000e-004**		**1.3400e-003**	**1.3400e-003**		**1.3400e-003**	**1.3400e-003**	**0.0000**	**79.7078**	**79.7078**	**0.0126**	**0.0000**	**80.0221**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Google Middlefield, Const Phase 3 Affordable R4a, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.7 Paving - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.1500e-003	0.0640	0.0888	1.3000e-004		3.0500e-003	3.0500e-003		2.8000e-003	2.8000e-003	0.0000	11.0225	11.0225	3.5600e-003	0.0000	11.1117
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**6.1500e-003**	**0.0640**	**0.0888**	**1.3000e-004**		**3.0500e-003**	**3.0500e-003**		**2.8000e-003**	**2.8000e-003**	**0.0000**	**11.0225**	**11.0225**	**3.5600e-003**	**0.0000**	**11.1117**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Google Middlefield, Const Phase 3 Affordable R4a, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.5300e-003	6.6500e-003	0.0947	1.3000e-004		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	11.0225	11.0225	3.5600e-003	0.0000	11.1116
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.5300e-003**	**6.6500e-003**	**0.0947**	**1.3000e-004**		**2.0000e-004**	**2.0000e-004**		**2.0000e-004**	**2.0000e-004**	**0.0000**	**11.0225**	**11.0225**	**3.5600e-003**	**0.0000**	**11.1116**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Google Middlefield, Const Phase 3 Affordable R4a, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.8 Architectural Coating - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2425					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.2425**					**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Google Middlefield, Const Phase 3 Affordable R4a, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2425					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.2425**					**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Google Middlefield, Const Phase 3 Affordable R4a, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.8 Architectural Coating - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0277					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0277**					**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Google Middlefield, Const Phase 3 Affordable R4a, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0277					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0277**					**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Date: 12/2/2021 4:14 PM

Google Middlefield, Const Phase 3 Affordable R4a, District Util - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Google Middlefield, Const Phase 3, City Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Google Middlefield, Const Phase 3, City Util - Infrastructure - Mitigated

Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	1.00	Acre	1.00	43,560.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2027
Utility Company	Silicon Valley Clean Energy				
CO2 Intensity (lb/MWhr)	2	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - As per supplied construction schedule

Land Use - As per supplied construction schedule

Construction Phase - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - As per supplied construction equipment

Trips and VMT - 0 trips emfac2021 adjustments, infra = 1 striper truck

Demolition -

Grading -

Architectural Coating -

Construction Off-road Equipment Mitigation - BMPs, Tier 4 final + Electrical

Table Name	Column Name	Default Value	New Value

Google Middlefield, Const Phase 3, City Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblAreaCoating	Area_Parking	2614	3840
tblAreaCoating	Area_Residential_Exterior	0	128250
tblAreaCoating	Area_Residential_Interior	0	384750
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	12
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	2.00	102.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblFleetMix	HHD	6.2400e-003	0.00

Google Middlefield, Const Phase 3, City Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblFleetMix	LDA	0.58	0.00
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.2570e-003	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	2.6240e-003	0.00
tblFleetMix	MHD	8.1590e-003	0.00
tblFleetMix	OBUS	8.7700e-004	0.00
tblFleetMix	SBUS	8.7400e-004	0.00
tblFleetMix	UBUS	3.5600e-004	0.00
tblOffRoadEquipment	HorsePower	78.00	0.00
tblOffRoadEquipment	HorsePower	9.00	0.00
tblOffRoadEquipment	HorsePower	81.00	0.00
tblOffRoadEquipment	HorsePower	46.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	7.00	2.70
tblTripsAndVMT	WorkerTripNumber	25.00	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

Google Middlefield, Const Phase 3, City Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2027	0.0405	0.3751	0.5802	9.4000e-004	0.0000	0.0171	0.0171	0.0000	0.0161	0.0161	0.0000	80.9886	80.9886	0.0201	0.0000	81.4914
Maximum	**0.0405**	**0.3751**	**0.5802**	**9.4000e-004**	**0.0000**	**0.0171**	**0.0171**	**0.0000**	**0.0161**	**0.0161**	**0.0000**	**80.9886**	**80.9886**	**0.0201**	**0.0000**	**81.4914**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2027	0.0108	0.0555	0.6500	9.4000e-004	0.0000	1.4100e-003	1.4100e-003	0.0000	1.4100e-003	1.4100e-003	0.0000	80.9885	80.9885	0.0201	0.0000	81.4913
Maximum	**0.0108**	**0.0555**	**0.6500**	**9.4000e-004**	**0.0000**	**1.4100e-003**	**1.4100e-003**	**0.0000**	**1.4100e-003**	**1.4100e-003**	**0.0000**	**80.9885**	**80.9885**	**0.0201**	**0.0000**	**81.4913**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**73.40**	**85.20**	**-12.02**	**0.00**	**0.00**	**91.77**	**91.77**	**0.00**	**91.24**	**91.24**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**1-1-2027**	**3-31-2027**	0.3143	0.0501
2	**4-1-2027**	**6-30-2027**	0.1013	0.0162
		Highest	0.3143	0.0501

Google Middlefield, Const Phase 3, City Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Infrastructure	Grading	1/1/2027	4/29/2027	6	102	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 1

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating –

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Infrastructure	Air Compressors	0	0.00	0	0.48
Infrastructure	Cement and Mortar Mixers	1	10.70	0	0.56
Infrastructure	Concrete/Industrial Saws	1	1.40	0	0.73
Infrastructure	Generator Sets	1	5.40	84	0.74
Infrastructure	Graders	0	0.00	187	0.41
Infrastructure	Pavers	2	7.10	130	0.42
Infrastructure	Plate Compactors	2	5.80	8	0.43
Infrastructure	Pumps	0	0.00	84	0.74
Infrastructure	Rollers	1	10.50	80	0.38
Infrastructure	Rubber Tired Dozers	0	0.00	247	0.40
Infrastructure	Sweepers/Scrubbers	1	1.20	64	0.46
Infrastructure	Tractors/Loaders/Backhoes	1	2.70	97	0.37
Infrastructure	Welders	0	0.00	0	0.45

Trips and VMT

Google Middlefield, Const Phase 3, City Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Infrastructure	10	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Alternative Fuel for Construction Equipment

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Infrastructure - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0405	0.3751	0.5802	9.4000e-004		0.0171	0.0171		0.0161	0.0161	0.0000	80.9886	80.9886	0.0201	0.0000	81.4914
Total	**0.0405**	**0.3751**	**0.5802**	**9.4000e-004**	**0.0000**	**0.0171**	**0.0171**	**0.0000**	**0.0161**	**0.0161**	**0.0000**	**80.9886**	**80.9886**	**0.0201**	**0.0000**	**81.4914**

Unmitigated Construction Off-Site

Google Middlefield, Const Phase 3, City Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0108	0.0555	0.6500	9.4000e-004		1.4100e-003	1.4100e-003		1.4100e-003	1.4100e-003	0.0000	80.9885	80.9885	0.0201	0.0000	81.4913
Total	**0.0108**	**0.0555**	**0.6500**	**9.4000e-004**	**0.0000**	**1.4100e-003**	**1.4100e-003**	**0.0000**	**1.4100e-003**	**1.4100e-003**	**0.0000**	**80.9885**	**80.9885**	**0.0201**	**0.0000**	**81.4913**

Mitigated Construction Off-Site

Google Middlefield, Const Phase 3, City Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Mitigated

Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	689.06	1000sqft	12.33	689,061.00	0
Enclosed Parking with Elevator	1,969.00	Space	0.00	420,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2031
Utility Company	Silicon Valley Clean Energy				
CO2 Intensity (lb/MWhr)	2	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - As per supplied construction schedule

Land Use - As per supplied construction schedule

Construction Phase - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Off-road Equipment - As per supplied construction schedule

Trips and VMT - 0 trips for emfac2021 adjustments, demo = 10,106 ton asphalt, site prep - 1 water truck

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Demolition - existing building demo = 132,996-sf

Grading - grading = 110,949-cy export + 1,713-cy export geothermal bore

Architectural Coating - At least 80% of paints have to be super-compliant VOC = effectively 20g/L interior and 30g/L exterior

Construction Off-road Equipment Mitigation - BMPs, Tier 4 final+Electrical

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	30.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	20.00
tblArchitecturalCoating	EF_Parking	150.00	30.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	30.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	20.00
tblAreaCoating	Area_Nonresidential_Exterior	344531	343500
tblAreaCoating	Area_Nonresidential_Interior	1033592	1030500
tblAreaCoating	Area_Parking	25200	47184
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	205.00
tblConstructionPhase	NumDays	300.00	1,120.00
tblConstructionPhase	NumDays	20.00	234.00
tblConstructionPhase	NumDays	30.00	86.00

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstructionPhase	NumDays	20.00	205.00
tblConstructionPhase	NumDays	10.00	54.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblGrading	MaterialExported	0.00	112,662.00
tblLandUse	LandUseSquareFeet	689,060.00	689,061.00
tblLandUse	LandUseSquareFeet	787,600.00	420,000.00
tblLandUse	LotAcreage	15.82	12.33
tblLandUse	LotAcreage	17.72	0.00
tblOffRoadEquipment	HorsePower	78.00	0.00
tblOffRoadEquipment	HorsePower	81.00	0.00
tblOffRoadEquipment	HorsePower	231.00	0.00
tblOffRoadEquipment	HorsePower	130.00	0.00
tblOffRoadEquipment	HorsePower	46.00	0.00
tblOffRoadEquipment	HorsePower	63.00	0.00
tblOffRoadEquipment	HorsePower	63.00	0.00
tblOffRoadEquipment	HorsePower	63.00	0.00
tblOffRoadEquipment	HorsePower	78.00	0.00
tblOffRoadEquipment	HorsePower	78.00	0.00
tblOffRoadEquipment	HorsePower	9.00	0.00
tblOffRoadEquipment	HorsePower	81.00	0.00
tblOffRoadEquipment	HorsePower	231.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.30
tblOffRoadEquipment	UsageHours	8.00	8.20
tblOffRoadEquipment	UsageHours	7.00	10.30
tblOffRoadEquipment	UsageHours	8.00	7.90
tblOffRoadEquipment	UsageHours	8.00	7.90
tblOffRoadEquipment	UsageHours	8.00	7.50
tblOffRoadEquipment	UsageHours	8.00	5.40
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	4.80
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	5.30
tblOffRoadEquipment	UsageHours	8.00	6.60
tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	8.00	9.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.80
tblOffRoadEquipment	UsageHours	8.00	10.80

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	UsageHours	8.00	8.10
tblOffRoadEquipment	UsageHours	8.00	2.20
tblSolidWaste	SolidWasteGenerationRate	640.83	638.91
tblTripsAndVMT	HaulingTripNumber	605.00	0.00
tblTripsAndVMT	HaulingTripNumber	14,083.00	0.00
tblTripsAndVMT	VendorTripNumber	182.00	0.00
tblTripsAndVMT	WorkerTripNumber	35.00	0.00
tblTripsAndVMT	WorkerTripNumber	8.00	0.00
tblTripsAndVMT	WorkerTripNumber	73.00	0.00
tblTripsAndVMT	WorkerTripNumber	40.00	0.00
tblTripsAndVMT	WorkerTripNumber	397.00	0.00
tblTripsAndVMT	WorkerTripNumber	18.00	0.00
tblTripsAndVMT	WorkerTripNumber	79.00	0.00
tblWater	IndoorWaterUseRate	122,469,216.39	122,103,084.87
tblWater	OutdoorWaterUseRate	75,061,777.79	74,837,374.60

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2026	0.6440	5.9804	7.0179	0.0139	1.6567	0.2640	1.9207	0.8254	0.2460	1.0714	0.0000	1,216.7848	1,216.7848	0.3308	0.0000	1,225.0550
2027	0.1883	1.7021	2.4606	4.1900e-003	0.0000	0.0781	0.0781	0.0000	0.0746	0.0746	0.0000	363.9883	363.9883	0.0620	0.0000	365.5393
2028	0.9995	2.4347	3.4958	5.7500e-003	0.0000	0.1127	0.1127	0.0000	0.1070	0.1070	0.0000	499.7134	499.7134	0.0935	0.0000	502.0509

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2029	0.0586	0.5380	0.7860	1.2500e-003	0.0000	0.0248	0.0248	0.0000	0.0237	0.0237	0.0000	108.1521	108.1521	0.0171	0.0000	108.5797
2030	0.0501	0.3543	0.7744	1.3200e-003	0.0000	6.3400e-003	6.3400e-003	0.0000	6.3400e-003	6.3400e-003	0.0000	112.8584	112.8584	4.0400e-003	0.0000	112.9594
2031	0.0150	0.1064	0.2326	4.0000e-004	0.0000	1.9000e-003	1.9000e-003	0.0000	1.9000e-003	1.9000e-003	0.0000	33.8936	33.8936	1.2100e-003	0.0000	33.9239
Maximum	**0.9995**	**5.9804**	**7.0179**	**0.0139**	**1.6567**	**0.2640**	**1.9207**	**0.8254**	**0.2460**	**1.0714**	**0.0000**	**1,216.7848**	**1,216.7848**	**0.3308**	**0.0000**	**1,225.0550**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2026	0.1716	0.9960	8.4791	0.0139	0.6461	0.0220	0.6681	0.1610	0.0220	0.1829	0.0000	1,216.7834	1,216.7834	0.3308	0.0000	1,225.0535
2027	0.0464	0.2009	2.7211	4.1900e-003	0.0000	6.1800e-003	6.1800e-003	0.0000	6.1800e-003	6.1800e-003	0.0000	363.9878	363.9878	0.0620	0.0000	365.5389
2028	0.8004	0.2784	3.8243	5.7500e-003	0.0000	8.5700e-003	8.5700e-003	0.0000	8.5700e-003	8.5700e-003	0.0000	499.7128	499.7128	0.0935	0.0000	502.0503
2029	0.0136	0.0590	0.8372	1.2500e-003	0.0000	1.8100e-003	1.8100e-003	0.0000	1.8100e-003	1.8100e-003	0.0000	108.1520	108.1520	0.0171	0.0000	108.5796
2030	0.0131	0.0566	0.8060	1.3200e-003	0.0000	1.7400e-003	1.7400e-003	0.0000	1.7400e-003	1.7400e-003	0.0000	112.8582	112.8582	4.0400e-003	0.0000	112.9593
2031	3.9300e-003	0.0170	0.2421	4.0000e-004	0.0000	5.2000e-004	5.2000e-004	0.0000	5.2000e-004	5.2000e-004	0.0000	33.8935	33.8935	1.2100e-003	0.0000	33.9239
Maximum	**0.8004**	**0.9960**	**8.4791**	**0.0139**	**0.6461**	**0.0220**	**0.6681**	**0.1610**	**0.0220**	**0.1829**	**0.0000**	**1,216.7834**	**1,216.7834**	**0.3308**	**0.0000**	**1,225.0535**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**46.36**	**85.54**	**-14.51**	**0.00**	**61.00**	**91.64**	**67.97**	**80.50**	**91.12**	**84.30**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	4-1-2026	6-30-2026	1.7418	0.3228
2	7-1-2026	9-30-2026	3.6637	0.6400
3	10-1-2026	12-31-2026	1.2091	0.2031
4	1-1-2027	3-31-2027	0.4162	0.0550
5	4-1-2027	6-30-2027	0.4209	0.0556
6	7-1-2027	9-30-2027	0.4397	0.0579
7	10-1-2027	12-31-2027	0.6121	0.0786
8	1-1-2028	3-31-2028	0.9546	0.3031
9	4-1-2028	6-30-2028	1.0253	0.3738
10	7-1-2028	9-30-2028	0.8882	0.3282
11	10-1-2028	12-31-2028	0.5703	0.0738
12	1-1-2029	3-31-2029	0.1602	0.0196
13	4-1-2029	6-30-2029	0.1433	0.0174
14	7-1-2029	9-30-2029	0.1449	0.0176
15	10-1-2029	12-31-2029	0.1449	0.0176
16	1-1-2030	3-31-2030	0.0997	0.0172
17	4-1-2030	6-30-2030	0.1008	0.0174
18	7-1-2030	9-30-2030	0.1019	0.0176
19	10-1-2030	12-31-2030	0.1019	0.0176
20	1-1-2031	3-31-2031	0.0997	0.0172
21	4-1-2031	6-30-2031	0.0210	0.0036
		Highest	3.6637	0.6400

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

1	Demolition	Demolition	4/1/2026	12/29/2026	6	234	
2	Site Preparation	Site Preparation	5/22/2026	7/23/2026	6	54	
3	Grading	Grading	6/5/2026	9/12/2026	6	86	
4	Trenching/Foundation	Trenching	7/26/2026	1/4/2029	6	766	
5	Building Construction	Building Construction	9/22/2027	4/19/2031	6	1120	
6	Paving	Paving	12/11/2027	8/5/2028	6	205	
7	Architectural Coating	Architectural Coating	1/24/2028	9/18/2028	6	205	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 241.88

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,033,592; Non-Residential Outdoor: 344,531; Striped Parking Area: 25,200

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Aerial Lifts	1	6.50	0	0.31
Demolition	Air Compressors	1	4.20	0	0.48
Demolition	Concrete/Industrial Saws	3	8.20	0	0.73
Demolition	Excavators	4	7.90	158	0.38
Demolition	Forklifts	1	10.00	89	0.20
Demolition	Generator Sets	1	5.40	84	0.74
Demolition	Rubber Tired Dozers	1	10.00	247	0.40
Demolition	Sweepers/Scrubbers	1	6.50	64	0.46
Demolition	Tractors/Loaders/Backhoes	1	8.10	97	0.37
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Sweepers/Scrubbers	1	4.30	64	0.46
Site Preparation	Tractors/Loaders/Backhoes	2	8.10	97	0.37
Grading	Air Compressors	1	4.20	0	0.48

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Grading	Bore/Drill Rigs	2	2.00	221	0.50
Grading	Bore/Drill Rigs	2	4.00	221	0.50
Grading	Bore/Drill Rigs	4	6.70	221	0.50
Grading	Excavators	4	7.90	158	0.38
Grading	Generator Sets	1	8.10	84	0.74
Grading	Graders	0	0.00	187	0.41
Grading	Plate Compactors	2	2.00	8	0.43
Grading	Pumps	1	24.00	84	0.74
Grading	Rubber Tired Dozers	5	9.00	247	0.40
Grading	Skid Steer Loaders	1	3.60	65	0.37
Grading	Sweepers/Scrubbers	2	8.70	64	0.46
Grading	Tractors/Loaders/Backhoes	4	10.80	97	0.37
Trenching/Foundation	Aerial Lifts	2	5.20	0	0.31
Trenching/Foundation	Bore/Drill Rigs	4	0.60	221	0.50
Trenching/Foundation	Cranes	1	6.90	0	0.29
Trenching/Foundation	Forklifts	4	10.00	89	0.20
Trenching/Foundation	Generator Sets	1	5.40	84	0.74
Trenching/Foundation	Pumps	2	5.40	84	0.74
Trenching/Foundation	Tractors/Loaders/Backhoes	2	0.50	97	0.37
Building Construction	Aerial Lifts	2	9.70	0	0.31
Building Construction	Cement and Mortar Mixers	1	7.10	0	0.56
Building Construction	Cranes	1	10.30	0	0.29
Building Construction	Forklifts	2	7.50	89	0.20
Building Construction	Generator Sets	1	5.40	84	0.74
Building Construction	Plate Compactors	1	0.90	8	0.43
Building Construction	Tractors/Loaders/Backhoes	1	0.80	97	0.37
Building Construction	Welders	1	2.20	0	0.45
Paving	Concrete/Industrial Saws	2	0.40	0	0.73
Paving	Pavers	1	4.80	0	0.42

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Paving	Paving Equipment	0	0.00	132	0.36
Paving	Rollers	1	5.30	80	0.38
Paving	Rollers	2	6.60	80	0.38
Paving	Tractors/Loaders/Backhoes	1	5.40	97	0.37
Architectural Coating	Air Compressors	1	8.30	0	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	14	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	29	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching/Foundation	16	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Alternative Fuel for Construction Equipment

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2026

Unmitigated Construction On-Site

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0655	0.0000	0.0655	9.9100e-003	0.0000	9.9100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2364	2.1405	2.8445	4.9900e-003		0.0983	0.0983		0.0911	0.0911	0.0000	437.4555	437.4555	0.1287	0.0000	440.6729
Total	**0.2364**	**2.1405**	**2.8445**	**4.9900e-003**	**0.0655**	**0.0983**	**0.1638**	**9.9100e-003**	**0.0911**	**0.1010**	**0.0000**	**437.4555**	**437.4555**	**0.1287**	**0.0000**	**440.6729**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0255	0.0000	0.0255	1.9300e-003	0.0000	1.9300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0630	0.3827	3.3217	4.9900e-003		8.0100e-003	8.0100e-003		8.0100e-003	8.0100e-003	0.0000	437.4550	437.4550	0.1287	0.0000	440.6724
Total	**0.0630**	**0.3827**	**3.3217**	**4.9900e-003**	**0.0255**	**8.0100e-003**	**0.0335**	**1.9300e-003**	**8.0100e-003**	**9.9400e-003**	**0.0000**	**437.4550**	**437.4550**	**0.1287**	**0.0000**	**440.6724**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.3 Site Preparation - 2026

Unmitigated Construction On-Site

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.5100e-003	0.0942	0.1495	2.1000e-004		4.1600e-003	4.1600e-003		3.8300e-003	3.8300e-003	0.0000	18.2231	18.2231	5.8900e-003	0.0000	18.3705
Total	**9.5100e-003**	**0.0942**	**0.1495**	**2.1000e-004**	**0.0000**	**4.1600e-003**	**4.1600e-003**	**0.0000**	**3.8300e-003**	**3.8300e-003**	**0.0000**	**18.2231**	**18.2231**	**5.8900e-003**	**0.0000**	**18.3705**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9800e-003	0.0297	0.1559	2.1000e-004		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004	0.0000	18.2231	18.2231	5.8900e-003	0.0000	18.3704
Total	**2.9800e-003**	**0.0297**	**0.1559**	**2.1000e-004**	**0.0000**	**3.4000e-004**	**3.4000e-004**	**0.0000**	**3.4000e-004**	**3.4000e-004**	**0.0000**	**18.2231**	**18.2231**	**5.8900e-003**	**0.0000**	**18.3704**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.4 Grading - 2026

Unmitigated Construction On-Site

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.5912	0.0000	1.5912	0.8155	0.0000	0.8155	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3247	3.0853	3.0688	7.0700e-003		0.1313	0.1313		0.1222	0.1222	0.0000	618.3137	618.3137	0.1722	0.0000	622.6174
Total	**0.3247**	**3.0853**	**3.0688**	**7.0700e-003**	**1.5912**	**0.1313**	**1.7225**	**0.8155**	**0.1222**	**0.9376**	**0.0000**	**618.3137**	**618.3137**	**0.1722**	**0.0000**	**622.6174**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.6206	0.0000	0.6206	0.1590	0.0000	0.1590	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0875	0.5050	3.9406	7.0700e-003		0.0112	0.0112		0.0112	0.0112	0.0000	618.3130	618.3130	0.1722	0.0000	622.6167
Total	**0.0875**	**0.5050**	**3.9406**	**7.0700e-003**	**0.6206**	**0.0112**	**0.6318**	**0.1590**	**0.0112**	**0.1702**	**0.0000**	**618.3130**	**618.3130**	**0.1722**	**0.0000**	**622.6167**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.5 Trenching/Foundation - 2026

Unmitigated Construction On-Site

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0734	0.6604	0.9550	1.6500e-003		0.0302	0.0302		0.0289	0.0289	0.0000	142.7924	142.7924	0.0241	0.0000	143.3942
Total	**0.0734**	**0.6604**	**0.9550**	**1.6500e-003**		**0.0302**	**0.0302**		**0.0289**	**0.0289**	**0.0000**	**142.7924**	**142.7924**	**0.0241**	**0.0000**	**143.3942**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Off-Road	0.0182	0.0787	1.0609	1.6500e-003		2.4200e-003	2.4200e-003		2.4200e-003	2.4200e-003	0.0000	142.7923	142.7923	0.0241	0.0000	143.3940
Total	**0.0182**	**0.0787**	**1.0609**	**1.6500e-003**		**2.4200e-003**	**2.4200e-003**		**2.4200e-003**	**2.4200e-003**	**0.0000**	**142.7923**	**142.7923**	**0.0241**	**0.0000**	**143.3940**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.5 Trenching/Foundation - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-Road	0.1690	1.5198	2.1979	3.7900e-003		0.0696	0.0696		0.0666	0.0666	0.0000	328.6326	328.6326	0.0554	0.0000	330.0175
Total	**0.1690**	**1.5198**	**2.1979**	**3.7900e-003**		**0.0696**	**0.0696**		**0.0666**	**0.0666**	**0.0000**	**328.6326**	**328.6326**	**0.0554**	**0.0000**	**330.0175**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0418	0.1812	2.4416	3.7900e-003		5.5800e-003	5.5800e-003		5.5800e-003	5.5800e-003	0.0000	328.6322	328.6322	0.0554	0.0000	330.0171

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0418**	**0.1812**	**2.4416**	**3.7900e-003**		**5.5800e-003**	**5.5800e-003**		**5.5800e-003**	**5.5800e-003**	**0.0000**	**328.6322**	**328.6322**	**0.0554**	**0.0000**	**330.0171**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.5 Trenching/Foundation - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1690	1.5198	2.1979	3.7900e-003		0.0696	0.0696		0.0666	0.0666	0.0000	328.6326	328.6326	0.0554	0.0000	330.0175
Total	**0.1690**	**1.5198**	**2.1979**	**3.7900e-003**		**0.0696**	**0.0696**		**0.0666**	**0.0666**	**0.0000**	**328.6326**	**328.6326**	**0.0554**	**0.0000**	**330.0175**

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0418	0.1812	2.4416	3.7900e-003		5.5800e-003	5.5800e-003		5.5800e-003	5.5800e-003	0.0000	328.6322	328.6322	0.0554	0.0000	330.0171
Total	**0.0418**	**0.1812**	**2.4416**	**3.7900e-003**		**5.5800e-003**	**5.5800e-003**		**5.5800e-003**	**5.5800e-003**	**0.0000**	**328.6322**	**328.6322**	**0.0554**	**0.0000**	**330.0171**

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.5 Trenching/Foundation - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.1600e-003	0.0194	0.0281	5.0000e-005		8.9000e-004	8.9000e-004		8.5000e-004	8.5000e-004	0.0000	4.1998	4.1998	7.1000e-004	0.0000	4.2175
Total	**2.1600e-003**	**0.0194**	**0.0281**	**5.0000e-005**		**8.9000e-004**	**8.9000e-004**		**8.5000e-004**	**8.5000e-004**	**0.0000**	**4.1998**	**4.1998**	**7.1000e-004**	**0.0000**	**4.2175**

Unmitigated Construction Off-Site

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.3000e-004	2.3200e-003	0.0312	5.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	4.1998	4.1998	7.1000e-004	0.0000	4.2175
Total	**5.3000e-004**	**2.3200e-003**	**0.0312**	**5.0000e-005**		**7.0000e-005**	**7.0000e-005**		**7.0000e-005**	**7.0000e-005**	**0.0000**	**4.1998**	**4.1998**	**7.1000e-004**	**0.0000**	**4.2175**

Mitigated Construction Off-Site

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0157	0.1441	0.2107	3.3000e-004		6.6600e-003	6.6600e-003		6.3500e-003	6.3500e-003	0.0000	28.8941	28.8941	4.5600e-003	0.0000	29.0080
Total	**0.0157**	**0.1441**	**0.2107**	**3.3000e-004**		**6.6600e-003**	**6.6600e-003**		**6.3500e-003**	**6.3500e-003**	**0.0000**	**28.8941**	**28.8941**	**4.5600e-003**	**0.0000**	**29.0080**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.6300e-003	0.0157	0.2240	3.3000e-004		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004	0.0000	28.8941	28.8941	4.5600e-003	0.0000	29.0080
Total	**3.6300e-003**	**0.0157**	**0.2240**	**3.3000e-004**		**4.8000e-004**	**4.8000e-004**		**4.8000e-004**	**4.8000e-004**	**0.0000**	**28.8941**	**28.8941**	**4.5600e-003**	**0.0000**	**29.0080**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0564	0.5186	0.7579	1.2000e-003		0.0240	0.0240		0.0229	0.0229	0.0000	103.9523	103.9523	0.0164	0.0000	104.3622
Total	**0.0564**	**0.5186**	**0.7579**	**1.2000e-003**		**0.0240**	**0.0240**		**0.0229**	**0.0229**	**0.0000**	**103.9523**	**103.9523**	**0.0164**	**0.0000**	**104.3622**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0131	0.0566	0.8060	1.2000e-003		1.7400e-003	1.7400e-003		1.7400e-003	1.7400e-003	0.0000	103.9522	103.9522	0.0164	0.0000	104.3621
Total	**0.0131**	**0.0566**	**0.8060**	**1.2000e-003**		**1.7400e-003**	**1.7400e-003**		**1.7400e-003**	**1.7400e-003**	**0.0000**	**103.9522**	**103.9522**	**0.0164**	**0.0000**	**104.3621**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0564	0.5186	0.7579	1.2000e-003		0.0240	0.0240		0.0229	0.0229	0.0000	103.9523	103.9523	0.0164	0.0000	104.3622
Total	**0.0564**	**0.5186**	**0.7579**	**1.2000e-003**		**0.0240**	**0.0240**		**0.0229**	**0.0229**	**0.0000**	**103.9523**	**103.9523**	**0.0164**	**0.0000**	**104.3622**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0131	0.0566	0.8060	1.2000e-003		1.7400e-003	1.7400e-003		1.7400e-003	1.7400e-003	0.0000	103.9522	103.9522	0.0164	0.0000	104.3621
Total	**0.0131**	**0.0566**	**0.8060**	**1.2000e-003**		**1.7400e-003**	**1.7400e-003**		**1.7400e-003**	**1.7400e-003**	**0.0000**	**103.9522**	**103.9522**	**0.0164**	**0.0000**	**104.3621**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Building Construction - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0501	0.3543	0.7744	1.3200e-003		6.3400e-003	6.3400e-003		6.3400e-003	6.3400e-003	0.0000	112.8584	112.8584	4.0400e-003	0.0000	112.9594
Total	**0.0501**	**0.3543**	**0.7744**	**1.3200e-003**		**6.3400e-003**	**6.3400e-003**		**6.3400e-003**	**6.3400e-003**	**0.0000**	**112.8584**	**112.8584**	**4.0400e-003**	**0.0000**	**112.9594**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0131	0.0566	0.8060	1.3200e-003		1.7400e-003	1.7400e-003		1.7400e-003	1.7400e-003	0.0000	112.8582	112.8582	4.0400e-003	0.0000	112.9593
Total	**0.0131**	**0.0566**	**0.8060**	**1.3200e-003**		**1.7400e-003**	**1.7400e-003**		**1.7400e-003**	**1.7400e-003**	**0.0000**	**112.8582**	**112.8582**	**4.0400e-003**	**0.0000**	**112.9593**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Building Construction - 2031

Unmitigated Construction On-Site

Date: 12/2/2021 4:32 PM

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0150	0.1064	0.2326	4.0000e-004		1.9000e-003	1.9000e-003		1.9000e-003	1.9000e-003	0.0000	33.8936	33.8936	1.2100e-003	0.0000	33.9239
Total	**0.0150**	**0.1064**	**0.2326**	**4.0000e-004**		**1.9000e-003**	**1.9000e-003**		**1.9000e-003**	**1.9000e-003**	**0.0000**	**33.8936**	**33.8936**	**1.2100e-003**	**0.0000**	**33.9239**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.9300e-003	0.0170	0.2421	4.0000e-004		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	33.8935	33.8935	1.2100e-003	0.0000	33.9239
Total	**3.9300e-003**	**0.0170**	**0.2421**	**4.0000e-004**		**5.2000e-004**	**5.2000e-004**		**5.2000e-004**	**5.2000e-004**	**0.0000**	**33.8935**	**33.8935**	**1.2100e-003**	**0.0000**	**33.9239**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.7 Paving - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Off-Road	3.6500e-003	0.0381	0.0520	7.0000e-005		1.8400e-003	1.8400e-003		1.6900e-003	1.6900e-003	0.0000	6.4616	6.4616	2.0900e-003	0.0000	6.5138
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.6500e-003**	**0.0381**	**0.0520**	**7.0000e-005**		**1.8400e-003**	**1.8400e-003**		**1.6900e-003**	**1.6900e-003**	**0.0000**	**6.4616**	**6.4616**	**2.0900e-003**	**0.0000**	**6.5138**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Off-Road	9.0000e-004	3.9000e-003	0.0555	7.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	6.4616	6.4616	2.0900e-003	0.0000	6.5138
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**9.0000e-004**	**3.9000e-003**	**0.0555**	**7.0000e-005**		**1.2000e-004**	**1.2000e-004**		**1.2000e-004**	**1.2000e-004**	**0.0000**	**6.4616**	**6.4616**	**2.0900e-003**	**0.0000**	**6.5138**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.7 Paving - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Off-Road	0.0380	0.3963	0.5400	7.6000e-004		0.0191	0.0191		0.0176	0.0176	0.0000	67.1285	67.1285	0.0217	0.0000	67.6712
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0380**	**0.3963**	**0.5400**	**7.6000e-004**		**0.0191**	**0.0191**		**0.0176**	**0.0176**	**0.0000**	**67.1285**	**67.1285**	**0.0217**	**0.0000**	**67.6712**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Off-Road	9.3500e-003	0.0405	0.5768	7.6000e-004		1.2500e-003	1.2500e-003		1.2500e-003	1.2500e-003	0.0000	67.1284	67.1284	0.0217	0.0000	67.6711
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**9.3500e-003**	**0.0405**	**0.5768**	**7.6000e-004**		**1.2500e-003**	**1.2500e-003**		**1.2500e-003**	**1.2500e-003**	**0.0000**	**67.1284**	**67.1284**	**0.0217**	**0.0000**	**67.6711**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.8 Architectural Coating - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Archit. Coating	0.7361					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.7361**					**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Google Middlefield, Const Phase 4, District Util - O3,O4,O5,P1,P2 - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Archit. Coating	0.7361					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.7361**					**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Google Middlefield, Const Phase 4, District Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Google Middlefield, Const Phase 4, District Util - Infrastructure - Mitigated

Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	1.00	Acre	1.00	43,560.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2027
Utility Company	Silicon Valley Clean Energy				
CO2 Intensity (lb/MWhr)	2	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - As per supplied construction schedule

Land Use -

Construction Phase - As per supplied construction schedule

Off-road Equipment -

Off-road Equipment - provided construction equipment

Trips and VMT - 0 trips emfac 2021, infra = 1 striper truck

Grading -

Architectural Coating -

Construction Off-road Equipment Mitigation - BMPs, Tier 4 final + Electrical

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Parking	150	0

Google Middlefield, Const Phase 4, District Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblAreaCoating	Area_Parking	2614	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	0
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	150	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	100	0
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	2.00	68.00

Google Middlefield, Const Phase 4, District Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstructionPhase	NumDaysWeek	5.00	6.00
tblFleetMix	HHD	6.2400e-003	0.00
tblFleetMix	LDA	0.58	0.00
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.2570e-003	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	2.6240e-003	0.00
tblFleetMix	MHD	8.1590e-003	0.00
tblFleetMix	OBUS	8.7700e-004	0.00
tblFleetMix	SBUS	8.7400e-004	0.00
tblFleetMix	UBUS	3.5600e-004	0.00
tblOffRoadEquipment	HorsePower	78.00	0.00
tblOffRoadEquipment	HorsePower	9.00	0.00
tblOffRoadEquipment	HorsePower	81.00	0.00
tblOffRoadEquipment	HorsePower	46.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	7.00	2.70
tblTripsAndVMT	WorkerTripNumber	25.00	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

Google Middlefield, Const Phase 4, District Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2028	0.0270	0.2501	0.3868	6.2000e-004	0.0000	0.0114	0.0114	0.0000	0.0107	0.0107	0.0000	53.9924	53.9924	0.0134	0.0000	54.3276
Maximum	**0.0270**	**0.2501**	**0.3868**	**6.2000e-004**	**0.0000**	**0.0114**	**0.0114**	**0.0000**	**0.0107**	**0.0107**	**0.0000**	**53.9924**	**53.9924**	**0.0134**	**0.0000**	**54.3276**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2028	7.1900e-003	0.0370	0.4333	6.2000e-004	0.0000	9.4000e-004	9.4000e-004	0.0000	9.4000e-004	9.4000e-004	0.0000	53.9923	53.9923	0.0134	0.0000	54.3275
Maximum	**7.1900e-003**	**0.0370**	**0.4333**	**6.2000e-004**	**0.0000**	**9.4000e-004**	**9.4000e-004**	**0.0000**	**9.4000e-004**	**9.4000e-004**	**0.0000**	**53.9923**	**53.9923**	**0.0134**	**0.0000**	**54.3275**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**73.38**	**85.20**	**-12.02**	**0.00**	**0.00**	**91.78**	**91.78**	**0.00**	**91.24**	**91.24**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**3-1-2028**	**5-31-2028**	0.2759	0.0440
		Highest	0.2759	0.0440

Google Middlefield, Const Phase 4, District Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Infrastructure	Grading	3/1/2028	5/18/2028	6	68	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 1

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating –

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Infrastructure	Air Compressors	0	0.00	0	0.48
Infrastructure	Cement and Mortar Mixers	1	10.70	0	0.56
Infrastructure	Concrete/Industrial Saws	1	1.40	0	0.73
Infrastructure	Generator Sets	1	5.40	84	0.74
Infrastructure	Graders	0	0.00	187	0.41
Infrastructure	Pavers	2	7.10	130	0.42
Infrastructure	Plate Compactors	2	5.80	8	0.43
Infrastructure	Pumps	0	0.00	84	0.74
Infrastructure	Rollers	1	10.50	80	0.38
Infrastructure	Rubber Tired Dozers	0	0.00	247	0.40
Infrastructure	Sweepers/Scrubbers	1	1.20	64	0.46
Infrastructure	Tractors/Loaders/Backhoes	1	2.70	97	0.37
Infrastructure	Welders	0	0.00	0	0.45

Trips and VMT

Google Middlefield, Const Phase 4, District Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Infrastructure	10	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Alternative Fuel for Construction Equipment

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Infrastructure - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0270	0.2501	0.3868	6.2000e-004		0.0114	0.0114		0.0107	0.0107	0.0000	53.9924	53.9924	0.0134	0.0000	54.3276
Total	**0.0270**	**0.2501**	**0.3868**	**6.2000e-004**	**0.0000**	**0.0114**	**0.0114**	**0.0000**	**0.0107**	**0.0107**	**0.0000**	**53.9924**	**53.9924**	**0.0134**	**0.0000**	**54.3276**

Unmitigated Construction Off-Site

Google Middlefield, Const Phase 4, District Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.1900e-003	0.0370	0.4333	6.2000e-004		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	53.9923	53.9923	0.0134	0.0000	54.3275
Total	**7.1900e-003**	**0.0370**	**0.4333**	**6.2000e-004**	**0.0000**	**9.4000e-004**	**9.4000e-004**	**0.0000**	**9.4000e-004**	**9.4000e-004**	**0.0000**	**53.9923**	**53.9923**	**0.0134**	**0.0000**	**54.3275**

Mitigated Construction Off-Site

Date: 12/2/2021 4:43 PM

Google Middlefield, Const Phase 4, District Util - Infrastructure - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Google Middlefield Campus - Operational - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Google Middlefield Campus - Operational

Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	1,317.00	1000sqft	0.00	1,317,000.00	0
Enclosed Parking with Elevator	2,507.00	Space	0.00	833,000.00	0
Unenclosed Parking with Elevator	1,969.00	Space	0.00	420,000.00	0
City Park	5.00	Acre	5.00	217,800.00	0
Recreational Swimming Pool	9.00	1000sqft	0.00	9,000.00	0
Apartments Mid Rise	1,900.00	Dwelling Unit	35.00	1,726,000.00	5434
Strip Mall	41.00	1000sqft	0.00	41,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2032
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on Traffic Land Uses for Trip Generation 9/28/2021 + Parking

Construction Phase - Operation only

Off-road Equipment - Operation only

Demolition - Operation only

Grading -

Date: 11/29/2021 1:43 PM

Google Middlefield Campus - Operational - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Vehicle Trips - Res 4.69/4.23/3.53 Off 5.25/1.19/0.38 Ret 32.10/30.45/14.80 Comm 28.82/9.0/13.4 Park 15.38/...

Vehicle Emission Factors - Emfac2021

Road Dust - Santa Clara County average silt loading 0.0435

Woodstoves - No hearth

Consumer Products - Consumer Product = 80% of CalEEMod default in 2030 = 0.0000171

Energy Use - No natural gas accept office and retail (ie restaurants)

Water And Wastewater - WTP only

Area Mitigation - Low VOC paints (10%) for exterior and 50% interior

Fleet Mix - Emfac2021

Stationary Sources - Emergency Generators and Fire Pumps - 11 standby diesel gen: 6 @500kw and 5 @900kw

Stationary Sources - Emergency Generators and Fire Pumps EF - BACT applies to >999hp of 0.5 NOx and 0.02 PM

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	15
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	150	15
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	100	50
tblConsumerProducts	ROG_EF	2.14E-05	1.71E-05
tblEnergyUse	NT24NG	3,155.00	0.00
tblEnergyUse	NT24NG	0.06	0.00
tblEnergyUse	T24NG	5,226.68	0.00
tblEnergyUse	T24NG	16.14	0.00
tblFireplaces	FireplaceDayYear	11.14	0.00
tblFireplaces	FireplaceHourDay	3.50	0.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberGas	285.00	0.00
tblFireplaces	NumberNoFireplace	76.00	0.00
tblFireplaces	NumberWood	323.00	0.00
tblFleetMix	HHD	5.9810e-003	8.0080e-003

Google Middlefield Campus - Operational - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblFleetMix	HHD	5.9810e-003	8.0080e-003
tblFleetMix	HHD	5.9810e-003	8.0080e-003
tblFleetMix	HHD	5.9810e-003	8.0080e-003
tblFleetMix	HHD	5.9810e-003	8.0080e-003
tblFleetMix	HHD	5.9810e-003	8.0080e-003
tblFleetMix	HHD	5.9810e-003	8.0080e-003
tblFleetMix	LDA	0.58	0.51
tblFleetMix	LDA	0.58	0.51
tblFleetMix	LDA	0.58	0.51
tblFleetMix	LDA	0.58	0.51
tblFleetMix	LDA	0.58	0.51
tblFleetMix	LDA	0.58	0.51
tblFleetMix	LDA	0.58	0.51
tblFleetMix	LDT1	0.06	0.03
tblFleetMix	LDT1	0.06	0.03
tblFleetMix	LDT1	0.06	0.03
tblFleetMix	LDT1	0.06	0.03
tblFleetMix	LDT1	0.06	0.03
tblFleetMix	LDT1	0.06	0.03
tblFleetMix	LDT1	0.06	0.03
tblFleetMix	LDT2	0.18	0.24
tblFleetMix	LDT2	0.18	0.24
tblFleetMix	LDT2	0.18	0.24
tblFleetMix	LDT2	0.18	0.24
tblFleetMix	LDT2	0.18	0.24
tblFleetMix	LDT2	0.18	0.24
tblFleetMix	LDT2	0.18	0.24
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD1	0.02	0.02

Google Middlefield Campus - Operational - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	5.4800e-003	6.3180e-003
tblFleetMix	LHD2	5.4800e-003	6.3180e-003
tblFleetMix	LHD2	5.4800e-003	6.3180e-003
tblFleetMix	LHD2	5.4800e-003	6.3180e-003
tblFleetMix	LHD2	5.4800e-003	6.3180e-003
tblFleetMix	LHD2	5.4800e-003	6.3180e-003
tblFleetMix	LHD2	5.4800e-003	6.3180e-003
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MDV	0.12	0.14
tblFleetMix	MDV	0.12	0.14
tblFleetMix	MDV	0.12	0.14
tblFleetMix	MDV	0.12	0.14
tblFleetMix	MDV	0.12	0.14
tblFleetMix	MDV	0.12	0.14
tblFleetMix	MDV	0.12	0.14
tblFleetMix	MH	2.4970e-003	2.1960e-003
tblFleetMix	MH	2.4970e-003	2.1960e-003
tblFleetMix	MH	2.4970e-003	2.1960e-003

Google Middlefield Campus - Operational - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblFleetMix	MH	2.4970e-003	2.1960e-003
tblFleetMix	MH	2.4970e-003	2.1960e-003
tblFleetMix	MH	2.4970e-003	2.1960e-003
tblFleetMix	MH	2.4970e-003	2.1960e-003
tblFleetMix	MHD	8.1500e-003	9.7960e-003
tblFleetMix	MHD	8.1500e-003	9.7960e-003
tblFleetMix	MHD	8.1500e-003	9.7960e-003
tblFleetMix	MHD	8.1500e-003	9.7960e-003
tblFleetMix	MHD	8.1500e-003	9.7960e-003
tblFleetMix	MHD	8.1500e-003	9.7960e-003
tblFleetMix	MHD	8.1500e-003	9.7960e-003
tblFleetMix	OBUS	8.3400e-004	1.0580e-003
tblFleetMix	OBUS	8.3400e-004	1.0580e-003
tblFleetMix	OBUS	8.3400e-004	1.0580e-003
tblFleetMix	OBUS	8.3400e-004	1.0580e-003
tblFleetMix	OBUS	8.3400e-004	1.0580e-003
tblFleetMix	OBUS	8.3400e-004	1.0580e-003
tblFleetMix	OBUS	8.3400e-004	1.0580e-003
tblFleetMix	SBUS	8.1000e-004	6.7700e-004
tblFleetMix	SBUS	8.1000e-004	6.7700e-004
tblFleetMix	SBUS	8.1000e-004	6.7700e-004
tblFleetMix	SBUS	8.1000e-004	6.7700e-004
tblFleetMix	SBUS	8.1000e-004	6.7700e-004
tblFleetMix	SBUS	8.1000e-004	6.7700e-004
tblFleetMix	SBUS	8.1000e-004	6.7700e-004
tblFleetMix	UBUS	3.2300e-004	3.9100e-004
tblFleetMix	UBUS	3.2300e-004	3.9100e-004
tblFleetMix	UBUS	3.2300e-004	3.9100e-004
tblFleetMix	UBUS	3.2300e-004	3.9100e-004

Google Middlefield Campus - Operational - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblFleetMix	UBUS	3.2300e-004	3.9100e-004
tblFleetMix	UBUS	3.2300e-004	3.9100e-004
tblFleetMix	UBUS	3.2300e-004	3.9100e-004
tblLandUse	LandUseSquareFeet	1,002,800.00	833,000.00
tblLandUse	LandUseSquareFeet	787,600.00	420,000.00
tblLandUse	LandUseSquareFeet	1,900,000.00	1,726,000.00
tblLandUse	LotAcreage	30.23	0.00
tblLandUse	LotAcreage	22.56	0.00
tblLandUse	LotAcreage	17.72	0.00
tblLandUse	LotAcreage	0.21	0.00
tblLandUse	LotAcreage	50.00	35.00
tblLandUse	LotAcreage	0.94	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblRoadDust	RoadSiltLoading	0.1	0.04
tblStationaryGeneratorsPumpsEF	NOX_EF	4.56	0.50
tblStationaryGeneratorsPumpsEF	PM10_EF	0.15	0.02
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.15	0.02
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	1,206.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	670.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	5.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	6.00
tblVehicleEF	HHD	0.02	0.18
tblVehicleEF	HHD	0.04	0.07
tblVehicleEF	HHD	6.31	4.89
tblVehicleEF	HHD	0.41	0.56
tblVehicleEF	HHD	7.1980e-003	9.0500e-004

Google Middlefield Campus - Operational - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	HHD	900.79	684.14
tblVehicleEF	HHD	1,177.32	1,313.45
tblVehicleEF	HHD	0.05	8.0690e-003
tblVehicleEF	HHD	0.14	0.11
tblVehicleEF	HHD	0.19	0.21
tblVehicleEF	HHD	2.0000e-006	3.0000e-006
tblVehicleEF	HHD	5.18	3.70
tblVehicleEF	HHD	2.50	1.35
tblVehicleEF	HHD	2.31	2.51
tblVehicleEF	HHD	2.0620e-003	1.6290e-003
tblVehicleEF	HHD	0.06	0.08
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	1.9730e-003	1.5510e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.9100e-003	8.7900e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	1.0000e-006	1.8000e-005
tblVehicleEF	HHD	5.6000e-005	6.0000e-006
tblVehicleEF	HHD	0.42	0.30
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	2.3000e-005	5.1000e-005
tblVehicleEF	HHD	2.0000e-006	0.00
tblVehicleEF	HHD	8.3820e-003	5.9010e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.0000e-006	0.00

Google Middlefield Campus - Operational - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	HHD	1.0000e-006	1.8000e-005
tblVehicleEF	HHD	5.6000e-005	6.0000e-006
tblVehicleEF	HHD	0.49	0.52
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	0.07	0.09
tblVehicleEF	HHD	2.3000e-005	5.1000e-005
tblVehicleEF	HHD	2.0000e-006	0.00
tblVehicleEF	LDA	8.3700e-004	1.1380e-003
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.39	0.46
tblVehicleEF	LDA	1.61	1.92
tblVehicleEF	LDA	192.92	213.22
tblVehicleEF	LDA	40.52	54.23
tblVehicleEF	LDA	3.0820e-003	3.0260e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.12	0.17
tblVehicleEF	LDA	0.04	7.2060e-003
tblVehicleEF	LDA	8.0200e-004	7.4300e-004
tblVehicleEF	LDA	1.1340e-003	1.3220e-003
tblVehicleEF	LDA	0.02	2.5220e-003
tblVehicleEF	LDA	7.3800e-004	6.8300e-004
tblVehicleEF	LDA	1.0420e-003	1.2150e-003
tblVehicleEF	LDA	0.02	0.22
tblVehicleEF	LDA	0.06	0.05
tblVehicleEF	LDA	0.02	0.00
tblVehicleEF	LDA	2.7370e-003	3.8330e-003
tblVehicleEF	LDA	0.02	0.16
tblVehicleEF	LDA	0.10	0.18

Google Middlefield Campus - Operational - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LDA	1.9080e-003	2.1080e-003
tblVehicleEF	LDA	4.0100e-004	5.3600e-004
tblVehicleEF	LDA	0.02	0.22
tblVehicleEF	LDA	0.06	0.05
tblVehicleEF	LDA	0.02	0.00
tblVehicleEF	LDA	3.9760e-003	5.5900e-003
tblVehicleEF	LDA	0.02	0.16
tblVehicleEF	LDA	0.11	0.19
tblVehicleEF	LDT1	1.3310e-003	2.6660e-003
tblVehicleEF	LDT1	0.03	0.06
tblVehicleEF	LDT1	0.48	0.79
tblVehicleEF	LDT1	1.73	2.97
tblVehicleEF	LDT1	233.03	287.56
tblVehicleEF	LDT1	49.56	73.42
tblVehicleEF	LDT1	3.4190e-003	5.0740e-003
tblVehicleEF	LDT1	0.02	0.03
tblVehicleEF	LDT1	0.03	0.05
tblVehicleEF	LDT1	0.14	0.25
tblVehicleEF	LDT1	0.04	9.2860e-003
tblVehicleEF	LDT1	9.1200e-004	1.0900e-003
tblVehicleEF	LDT1	1.2880e-003	1.8250e-003
tblVehicleEF	LDT1	0.02	3.2500e-003
tblVehicleEF	LDT1	8.3900e-004	1.0020e-003
tblVehicleEF	LDT1	1.1840e-003	1.6780e-003
tblVehicleEF	LDT1	0.04	0.43
tblVehicleEF	LDT1	0.08	0.11
tblVehicleEF	LDT1	0.04	0.00
tblVehicleEF	LDT1	4.9370e-003	0.01
tblVehicleEF	LDT1	0.05	0.32

Google Middlefield Campus - Operational - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LDT1	0.13	0.29
tblVehicleEF	LDT1	2.3060e-003	2.8430e-003
tblVehicleEF	LDT1	4.9000e-004	7.2600e-004
tblVehicleEF	LDT1	0.04	0.43
tblVehicleEF	LDT1	0.08	0.11
tblVehicleEF	LDT1	0.04	0.00
tblVehicleEF	LDT1	7.2040e-003	0.02
tblVehicleEF	LDT1	0.05	0.32
tblVehicleEF	LDT1	0.14	0.32
tblVehicleEF	LDT2	1.4870e-003	1.7280e-003
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.52	0.61
tblVehicleEF	LDT2	2.15	2.55
tblVehicleEF	LDT2	238.62	297.32
tblVehicleEF	LDT2	51.13	74.83
tblVehicleEF	LDT2	3.7670e-003	4.2280e-003
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.03	0.04
tblVehicleEF	LDT2	0.15	0.23
tblVehicleEF	LDT2	0.04	9.0180e-003
tblVehicleEF	LDT2	8.9900e-004	8.8500e-004
tblVehicleEF	LDT2	1.2020e-003	1.4860e-003
tblVehicleEF	LDT2	0.02	3.1560e-003
tblVehicleEF	LDT2	8.2800e-004	8.1400e-004
tblVehicleEF	LDT2	1.1050e-003	1.3660e-003
tblVehicleEF	LDT2	0.04	0.24
tblVehicleEF	LDT2	0.08	0.06
tblVehicleEF	LDT2	0.04	0.00
tblVehicleEF	LDT2	5.5060e-003	6.1680e-003

Google Middlefield Campus - Operational - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LDT2	0.05	0.18
tblVehicleEF	LDT2	0.16	0.24
tblVehicleEF	LDT2	2.3600e-003	2.9390e-003
tblVehicleEF	LDT2	5.0600e-004	7.4000e-004
tblVehicleEF	LDT2	0.04	0.24
tblVehicleEF	LDT2	0.08	0.06
tblVehicleEF	LDT2	0.04	0.00
tblVehicleEF	LDT2	7.9950e-003	8.9870e-003
tblVehicleEF	LDT2	0.05	0.18
tblVehicleEF	LDT2	0.17	0.26
tblVehicleEF	LHD1	3.9430e-003	3.9910e-003
tblVehicleEF	LHD1	4.6520e-003	3.1520e-003
tblVehicleEF	LHD1	7.9680e-003	0.01
tblVehicleEF	LHD1	0.18	0.17
tblVehicleEF	LHD1	0.41	0.46
tblVehicleEF	LHD1	0.85	1.95
tblVehicleEF	LHD1	8.08	7.39
tblVehicleEF	LHD1	680.27	619.11
tblVehicleEF	LHD1	9.72	14.96
tblVehicleEF	LHD1	7.2100e-004	5.5900e-004
tblVehicleEF	LHD1	0.04	0.03
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	0.04	0.03
tblVehicleEF	LHD1	0.23	0.24
tblVehicleEF	LHD1	0.21	0.30
tblVehicleEF	LHD1	9.3200e-004	6.4300e-004
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	9.9250e-003	9.2750e-003
tblVehicleEF	LHD1	6.4550e-003	8.1170e-003

Google Middlefield Campus - Operational - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LHD1	2.0200e-004	1.1200e-004
tblVehicleEF	LHD1	8.9200e-004	6.1500e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.4810e-003	2.3190e-003
tblVehicleEF	LHD1	6.1320e-003	7.7380e-003
tblVehicleEF	LHD1	1.8500e-004	1.0300e-004
tblVehicleEF	LHD1	1.2840e-003	0.08
tblVehicleEF	LHD1	0.05	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	7.2400e-004	0.00
tblVehicleEF	LHD1	0.07	0.04
tblVehicleEF	LHD1	0.15	0.11
tblVehicleEF	LHD1	0.04	0.07
tblVehicleEF	LHD1	7.8000e-005	7.2000e-005
tblVehicleEF	LHD1	6.6320e-003	6.0400e-003
tblVehicleEF	LHD1	9.6000e-005	1.4800e-004
tblVehicleEF	LHD1	1.2840e-003	0.08
tblVehicleEF	LHD1	0.05	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	7.2400e-004	0.00
tblVehicleEF	LHD1	0.08	0.05
tblVehicleEF	LHD1	0.15	0.11
tblVehicleEF	LHD1	0.04	0.08
tblVehicleEF	LHD2	2.3850e-003	2.3610e-003
tblVehicleEF	LHD2	5.1380e-003	3.9200e-003
tblVehicleEF	LHD2	4.2200e-003	7.9180e-003
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	0.48	0.34
tblVehicleEF	LHD2	0.47	1.09

Google Middlefield Campus - Operational - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LHD2	12.75	13.27
tblVehicleEF	LHD2	663.31	664.99
tblVehicleEF	LHD2	6.19	8.24
tblVehicleEF	LHD2	1.6410e-003	1.6800e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.31	0.41
tblVehicleEF	LHD2	0.11	0.16
tblVehicleEF	LHD2	1.5020e-003	1.4640e-003
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.0300e-004	4.8000e-005
tblVehicleEF	LHD2	1.4370e-003	1.4000e-003
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	2.7140e-003	2.6030e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	9.5000e-005	4.4000e-005
tblVehicleEF	LHD2	5.8200e-004	0.05
tblVehicleEF	LHD2	0.02	9.9900e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4800e-004	0.00
tblVehicleEF	LHD2	0.10	0.07
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.02	0.04
tblVehicleEF	LHD2	1.2200e-004	1.2700e-004
tblVehicleEF	LHD2	6.3970e-003	6.3950e-003
tblVehicleEF	LHD2	6.1000e-005	8.2000e-005

Google Middlefield Campus - Operational - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LHD2	5.8200e-004	0.05
tblVehicleEF	LHD2	0.02	9.9900e-003
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	3.4800e-004	0.00
tblVehicleEF	LHD2	0.11	0.09
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.02	0.04
tblVehicleEF	MCY	0.32	0.14
tblVehicleEF	MCY	0.25	0.15
tblVehicleEF	MCY	17.43	10.79
tblVehicleEF	MCY	9.23	7.80
tblVehicleEF	MCY	209.70	185.51
tblVehicleEF	MCY	58.86	41.43
tblVehicleEF	MCY	0.07	0.04
tblVehicleEF	MCY	0.02	5.9170e-003
tblVehicleEF	MCY	1.14	0.50
tblVehicleEF	MCY	0.27	0.09
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.1610e-003	2.0330e-003
tblVehicleEF	MCY	2.8170e-003	3.3580e-003
tblVehicleEF	MCY	5.0400e-003	4.2000e-003
tblVehicleEF	MCY	2.0150e-003	1.8970e-003
tblVehicleEF	MCY	2.6310e-003	3.1380e-003
tblVehicleEF	MCY	0.89	3.55
tblVehicleEF	MCY	0.63	3.55
tblVehicleEF	MCY	0.47	0.00
tblVehicleEF	MCY	2.12	0.86
tblVehicleEF	MCY	0.44	3.78
tblVehicleEF	MCY	1.87	1.08

Google Middlefield Campus - Operational - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MCY	2.0750e-003	1.8340e-003
tblVehicleEF	MCY	5.8200e-004	4.1000e-004
tblVehicleEF	MCY	0.89	0.08
tblVehicleEF	MCY	0.63	3.55
tblVehicleEF	MCY	0.47	0.00
tblVehicleEF	MCY	2.66	1.06
tblVehicleEF	MCY	0.44	3.78
tblVehicleEF	MCY	2.03	1.18
tblVehicleEF	MDV	1.5060e-003	1.8800e-003
tblVehicleEF	MDV	0.04	0.06
tblVehicleEF	MDV	0.51	0.63
tblVehicleEF	MDV	2.17	2.58
tblVehicleEF	MDV	287.90	354.25
tblVehicleEF	MDV	60.31	88.60
tblVehicleEF	MDV	4.9180e-003	4.9600e-003
tblVehicleEF	MDV	0.02	0.03
tblVehicleEF	MDV	0.03	0.04
tblVehicleEF	MDV	0.16	0.25
tblVehicleEF	MDV	0.04	9.0670e-003
tblVehicleEF	MDV	9.0200e-004	8.6800e-004
tblVehicleEF	MDV	1.2020e-003	1.4420e-003
tblVehicleEF	MDV	0.02	3.1740e-003
tblVehicleEF	MDV	8.3200e-004	7.9900e-004
tblVehicleEF	MDV	1.1050e-003	1.3260e-003
tblVehicleEF	MDV	0.05	0.27
tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.05	0.00
tblVehicleEF	MDV	5.6960e-003	7.0410e-003
tblVehicleEF	MDV	0.05	0.20

Google Middlefield Campus - Operational - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MDV	0.17	0.27
tblVehicleEF	MDV	2.8450e-003	3.5000e-003
tblVehicleEF	MDV	5.9700e-004	8.7600e-004
tblVehicleEF	MDV	0.05	0.27
tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.05	0.00
tblVehicleEF	MDV	8.2490e-003	0.01
tblVehicleEF	MDV	0.05	0.20
tblVehicleEF	MDV	0.19	0.29
tblVehicleEF	MH	4.5570e-003	5.3580e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.26	0.31
tblVehicleEF	MH	1.57	1.81
tblVehicleEF	MH	1,317.47	1,650.08
tblVehicleEF	MH	14.98	19.59
tblVehicleEF	MH	0.05	0.07
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.01	1.22
tblVehicleEF	MH	0.23	0.29
tblVehicleEF	MH	0.13	0.04
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	2.0800e-004	2.2500e-004
tblVehicleEF	MH	0.06	0.02
tblVehicleEF	MH	3.3000e-003	3.3430e-003
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	1.9100e-004	2.0700e-004
tblVehicleEF	MH	0.29	17.44
tblVehicleEF	MH	0.02	4.02

Google Middlefield Campus - Operational - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MH	0.12	0.00
tblVehicleEF	MH	0.04	0.05
tblVehicleEF	MH	4.2040e-003	0.10
tblVehicleEF	MH	0.07	0.08
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	1.4800e-004	1.9400e-004
tblVehicleEF	MH	0.29	17.44
tblVehicleEF	MH	0.02	4.02
tblVehicleEF	MH	0.12	0.00
tblVehicleEF	MH	0.04	0.06
tblVehicleEF	MH	4.2040e-003	0.10
tblVehicleEF	MH	0.08	0.09
tblVehicleEF	MHD	3.9410e-003	0.02
tblVehicleEF	MHD	9.5900e-004	9.1920e-003
tblVehicleEF	MHD	8.4940e-003	6.0070e-003
tblVehicleEF	MHD	0.41	0.60
tblVehicleEF	MHD	0.14	0.13
tblVehicleEF	MHD	0.86	0.63
tblVehicleEF	MHD	63.15	133.49
tblVehicleEF	MHD	970.67	983.88
tblVehicleEF	MHD	8.57	6.19
tblVehicleEF	MHD	9.0610e-003	0.02
tblVehicleEF	MHD	0.12	0.13
tblVehicleEF	MHD	8.0290e-003	4.3710e-003
tblVehicleEF	MHD	0.33	0.67
tblVehicleEF	MHD	1.42	0.47
tblVehicleEF	MHD	1.68	1.11
tblVehicleEF	MHD	1.3000e-004	4.5300e-004
tblVehicleEF	MHD	0.13	0.04

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MHD	6.9560e-003	4.1570e-003
tblVehicleEF	MHD	1.1400e-004	7.6000e-005
tblVehicleEF	MHD	1.2400e-004	4.3200e-004
tblVehicleEF	MHD	0.06	0.01
tblVehicleEF	MHD	6.6470e-003	3.9700e-003
tblVehicleEF	MHD	1.0500e-004	6.9000e-005
tblVehicleEF	MHD	2.8300e-004	0.01
tblVehicleEF	MHD	0.01	2.8890e-003
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.7000e-004	0.00
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.01	0.03
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	5.9900e-004	1.2250e-003
tblVehicleEF	MHD	9.2640e-003	9.3010e-003
tblVehicleEF	MHD	8.5000e-005	6.1000e-005
tblVehicleEF	MHD	2.8300e-004	0.01
tblVehicleEF	MHD	0.01	2.8890e-003
tblVehicleEF	MHD	0.03	0.04
tblVehicleEF	MHD	1.7000e-004	0.00
tblVehicleEF	MHD	0.01	0.02
tblVehicleEF	MHD	0.01	0.03
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	OBUS	7.1140e-003	7.4520e-003
tblVehicleEF	OBUS	1.9920e-003	0.01
tblVehicleEF	OBUS	0.02	0.01
tblVehicleEF	OBUS	0.65	0.55
tblVehicleEF	OBUS	0.24	0.24
tblVehicleEF	OBUS	1.55	1.35

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	OBUS	95.97	88.80
tblVehicleEF	OBUS	1,186.24	1,200.29
tblVehicleEF	OBUS	13.22	11.07
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.12	0.15
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.43	0.32
tblVehicleEF	OBUS	1.46	0.76
tblVehicleEF	OBUS	1.13	0.88
tblVehicleEF	OBUS	1.4300e-004	2.6600e-004
tblVehicleEF	OBUS	0.13	0.05
tblVehicleEF	OBUS	8.0290e-003	0.01
tblVehicleEF	OBUS	1.6100e-004	1.1000e-004
tblVehicleEF	OBUS	1.3700e-004	2.5400e-004
tblVehicleEF	OBUS	0.06	0.02
tblVehicleEF	OBUS	7.6670e-003	0.01
tblVehicleEF	OBUS	1.4800e-004	1.0100e-004
tblVehicleEF	OBUS	1.0700e-003	0.06
tblVehicleEF	OBUS	0.02	0.01
tblVehicleEF	OBUS	0.05	0.04
tblVehicleEF	OBUS	4.9400e-004	0.00
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	0.08	0.07
tblVehicleEF	OBUS	9.1100e-004	8.3600e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.3100e-004	1.0900e-004
tblVehicleEF	OBUS	1.0700e-003	0.06
tblVehicleEF	OBUS	0.02	0.01

Google Middlefield Campus - Operational - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	OBUS	0.06	0.05
tblVehicleEF	OBUS	4.9400e-004	0.00
tblVehicleEF	OBUS	0.02	0.04
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	0.08	0.07
tblVehicleEF	SBUS	0.08	0.08
tblVehicleEF	SBUS	3.7810e-003	0.08
tblVehicleEF	SBUS	6.9130e-003	5.1590e-003
tblVehicleEF	SBUS	3.18	1.83
tblVehicleEF	SBUS	0.33	0.61
tblVehicleEF	SBUS	0.92	0.64
tblVehicleEF	SBUS	332.18	175.19
tblVehicleEF	SBUS	940.73	895.15
tblVehicleEF	SBUS	5.43	3.87
tblVehicleEF	SBUS	0.04	0.02
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	7.1420e-003	4.9710e-003
tblVehicleEF	SBUS	2.38	0.95
tblVehicleEF	SBUS	2.49	1.20
tblVehicleEF	SBUS	1.32	0.53
tblVehicleEF	SBUS	1.5650e-003	5.7000e-004
tblVehicleEF	SBUS	0.74	0.04
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	6.9360e-003
tblVehicleEF	SBUS	7.5000e-005	4.6000e-005
tblVehicleEF	SBUS	1.4970e-003	5.4400e-004
tblVehicleEF	SBUS	0.32	0.02
tblVehicleEF	SBUS	2.6510e-003	2.6010e-003
tblVehicleEF	SBUS	0.02	6.6190e-003

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	SBUS	6.9000e-005	4.2000e-005
tblVehicleEF	SBUS	1.0230e-003	0.05
tblVehicleEF	SBUS	9.6430e-003	0.01
tblVehicleEF	SBUS	0.35	0.20
tblVehicleEF	SBUS	4.8900e-004	0.00
tblVehicleEF	SBUS	0.05	0.03
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	3.1710e-003	1.5730e-003
tblVehicleEF	SBUS	9.0110e-003	8.2990e-003
tblVehicleEF	SBUS	5.4000e-005	3.8000e-005
tblVehicleEF	SBUS	1.0230e-003	0.05
tblVehicleEF	SBUS	9.6430e-003	0.01
tblVehicleEF	SBUS	0.50	0.32
tblVehicleEF	SBUS	4.8900e-004	0.00
tblVehicleEF	SBUS	0.06	0.12
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	UBUS	1.86	0.63
tblVehicleEF	UBUS	2.3200e-003	2.3900e-003
tblVehicleEF	UBUS	14.11	7.31
tblVehicleEF	UBUS	0.14	0.49
tblVehicleEF	UBUS	1,668.51	711.24
tblVehicleEF	UBUS	1.40	2.96
tblVehicleEF	UBUS	0.28	0.11
tblVehicleEF	UBUS	1.2960e-003	4.2510e-003
tblVehicleEF	UBUS	0.71	0.15
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.07	0.21

Google Middlefield Campus - Operational - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	UBUS	0.03	0.11
tblVehicleEF	UBUS	5.1160e-003	2.9010e-003
tblVehicleEF	UBUS	1.5000e-005	1.3000e-005
tblVehicleEF	UBUS	0.03	0.07
tblVehicleEF	UBUS	8.3320e-003	0.03
tblVehicleEF	UBUS	4.8930e-003	2.7720e-003
tblVehicleEF	UBUS	1.4000e-005	1.2000e-005
tblVehicleEF	UBUS	9.3000e-005	7.2670e-003
tblVehicleEF	UBUS	1.3310e-003	1.9420e-003
tblVehicleEF	UBUS	5.6000e-005	0.00
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	3.2100e-004	7.8800e-003
tblVehicleEF	UBUS	9.8660e-003	7.9120e-003
tblVehicleEF	UBUS	0.01	4.9480e-003
tblVehicleEF	UBUS	1.4000e-005	2.9000e-005
tblVehicleEF	UBUS	9.3000e-005	7.2670e-003
tblVehicleEF	UBUS	1.3310e-003	1.9420e-003
tblVehicleEF	UBUS	5.6000e-005	0.00
tblVehicleEF	UBUS	1.90	0.67
tblVehicleEF	UBUS	3.2100e-004	7.8800e-003
tblVehicleEF	UBUS	0.01	8.6620e-003
tblVehicleTrips	ST_TR	4.91	4.23
tblVehicleTrips	ST_TR	1.96	15.38
tblVehicleTrips	ST_TR	2.21	1.19
tblVehicleTrips	ST_TR	42.04	30.45
tblVehicleTrips	SU_TR	4.09	3.53
tblVehicleTrips	SU_TR	2.19	15.38
tblVehicleTrips	SU_TR	0.70	0.38
tblVehicleTrips	SU_TR	20.43	14.80

Google Middlefield Campus - Operational - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	WD_TR	5.44	4.69
tblVehicleTrips	WD_TR	0.78	15.38
tblVehicleTrips	WD_TR	9.74	5.25
tblVehicleTrips	WD_TR	44.32	32.10
tblWoodstoves	NumberCatalytic	38.00	0.00
tblWoodstoves	NumberNoncatalytic	38.00	0.00
tblWoodstoves	WoodstoveDayYear	14.12	0.00
tblWoodstoves	WoodstoveWoodMass	582.40	0.00

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	12.0824	0.1627	14.1239	7.5000e-004		0.0784	0.0784		0.0784	0.0784	0.0000	23.1492	23.1492	0.0222	0.0000	23.7048
Energy	5.2000e-004	4.7000e-003	3.9500e-003	3.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004	0.0000	3,311.1252	3,311.1252	0.5350	0.0649	3,343.8461
Mobile	6.8227	4.1530	43.1005	0.1119	5.4998	0.0610	5.5607	1.3965	0.0569	1.4533	0.0000	10,340.4776	10,340.4776	0.4700	0.4557	10,488.0296
Stationary	0.4123	0.5823	1.0513	1.9800e-003		0.0291	0.0291		0.0291	0.0291	0.0000	191.3506	191.3506	0.0268	0.0000	192.0213
Waste						0.0000	0.0000		0.0000	0.0000	445.2790	0.0000	445.2790	26.3152	0.0000	1,103.1597
Water						0.0000	0.0000		0.0000	0.0000	114.6674	255.3217	369.9890	11.8187	0.2831	749.8207
Total	**19.3180**	**4.9026**	**58.2797**	**0.1147**	**5.4998**	**0.1689**	**5.6686**	**1.3965**	**0.1648**	**1.5612**	**559.9463**	**14,121.4243**	**14,681.3706**	**39.1880**	**0.8037**	**15,900.5824**

Google Middlefield Campus - Operational - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	10.8645	0.1627	14.1239	7.5000e-004		0.0784	0.0784		0.0784	0.0784	0.0000	23.1492	23.1492	0.0222	0.0000	23.7048
Energy	5.2000e-004	4.7000e-003	3.9500e-003	3.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004	0.0000	3,311.1252	3,311.1252	0.5350	0.0649	3,343.8461
Mobile	6.8227	4.1530	43.1005	0.1119	5.4998	0.0610	5.5607	1.3965	0.0569	1.4533	0.0000	10,340.4776	10,340.4776	0.4700	0.4557	10,488.0296
Stationary	0.4123	0.5823	1.0513	1.9800e-003		0.0291	0.0291		0.0291	0.0291	0.0000	191.3506	191.3506	0.0268	0.0000	192.0213
Waste						0.0000	0.0000		0.0000	0.0000	445.2790	0.0000	445.2790	26.3152	0.0000	1,103.1597
Water						0.0000	0.0000		0.0000	0.0000	114.6674	255.3217	369.9890	11.8187	0.2831	749.8207
Total	**18.1000**	**4.9026**	**58.2797**	**0.1147**	**5.4998**	**0.1689**	**5.6686**	**1.3965**	**0.1648**	**1.5612**	**559.9463**	**14,121.4243**	**14,681.3706**	**39.1880**	**0.8037**	**15,900.5824**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**6.30**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Google Middlefield Campus - Operational - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	6.8227	4.1530	43.1005	0.1119	5.4998	0.0610	5.5607	1.3965	0.0569	1.4533	0.0000	10,340.4776	10,340.4776	0.4700	0.4557	10,488.0296
Unmitigated	6.8227	4.1530	43.1005	0.1119	5.4998	0.0610	5.5607	1.3965	0.0569	1.4533	0.0000	10,340.4776	10,340.4776	0.4700	0.4557	10,488.0296

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	8,911.00	8,037.00	6707.00	19,565,343	19,565,343
City Park	76.90	76.90	76.90	164,170	164,170
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	6,914.25	1,567.23	500.46	12,508,287	12,508,287
Recreational Swimming Pool	259.38	81.90	122.40	387,584	387,584
Strip Mall	1,316.10	1,248.45	606.80	1,855,905	1,855,905
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	17,477.63	11,011.48	8,013.56	34,481,290	34,481,290

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Recreational Swimming Pool	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9

Google Middlefield Campus - Operational - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15
Unenclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.510485	0.033966	0.242112	0.138317	0.024764	0.006318	0.009796	0.008008	0.001058	0.000391	0.021910	0.000677	0.002196
City Park	0.510485	0.033966	0.242112	0.138317	0.024764	0.006318	0.009796	0.008008	0.001058	0.000391	0.021910	0.000677	0.002196
Enclosed Parking with Elevator	0.510485	0.033966	0.242112	0.138317	0.024764	0.006318	0.009796	0.008008	0.001058	0.000391	0.021910	0.000677	0.002196
General Office Building	0.510485	0.033966	0.242112	0.138317	0.024764	0.006318	0.009796	0.008008	0.001058	0.000391	0.021910	0.000677	0.002196
Recreational Swimming Pool	0.510485	0.033966	0.242112	0.138317	0.024764	0.006318	0.009796	0.008008	0.001058	0.000391	0.021910	0.000677	0.002196
Strip Mall	0.510485	0.033966	0.242112	0.138317	0.024764	0.006318	0.009796	0.008008	0.001058	0.000391	0.021910	0.000677	0.002196
Unenclosed Parking with Elevator	0.510485	0.033966	0.242112	0.138317	0.024764	0.006318	0.009796	0.008008	0.001058	0.000391	0.021910	0.000677	0.002196

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3,306.0055	3,306.0055	0.5349	0.0648	3,338.6960
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3,306.0055	3,306.0055	0.5349	0.0648	3,338.6960
NaturalGas Mitigated	5.2000e-004	4.7000e-003	3.9500e-003	3.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004	0.0000	5.1197	5.1197	1.0000e-004	9.0000e-005	5.1502

Google Middlefield Campus - Operational - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

NaturalGas Unmitigated	5.2000e-004	4.7000e-003	3.9500e-003	3.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004	0.0000	5.1197	5.1197	1.0000e-004	9.0000e-005	5.1502

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	95940	5.2000e-004	4.7000e-003	3.9500e-003	3.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004	0.0000	5.1197	5.1197	1.0000e-004	9.0000e-005	5.1502
Unenclosed Parking with	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**5.2000e-004**	**4.7000e-003**	**3.9500e-003**	**3.0000e-005**		**3.6000e-004**	**3.6000e-004**		**3.6000e-004**	**3.6000e-004**	**0.0000**	**5.1197**	**5.1197**	**1.0000e-004**	**9.0000e-005**	**5.1502**

Mitigated

Google Middlefield Campus - Operational - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	95940	5.2000e-004	4.7000e-003	3.9500e-003	3.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004	0.0000	5.1197	5.1197	1.0000e-004	9.0000e-005	5.1502
Unenclosed Parking with	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**5.2000e-004**	**4.7000e-003**	**3.9500e-003**	**3.0000e-005**		**3.6000e-004**	**3.6000e-004**		**3.6000e-004**	**3.6000e-004**	**0.0000**	**5.1197**	**5.1197**	**1.0000e-004**	**9.0000e-005**	**5.1502**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	7.34622e+006	679.6997	0.1100	0.0133	686.4207
City Park	0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	4.53152e+006	419.2733	0.0678	8.2200e-003	423.4192
General Office Building	2.26129e+007	2,092.2299	0.3385	0.0410	2,112.9183

Google Middlefield Campus - Operational - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	425990	39.4142	6.3800e-003	7.7000e-004	39.8039
Unenclosed Parking with	814800	75.3884	0.0122	1.4800e-003	76.1338
Total		**3,306.0055**	**0.5349**	**0.0648**	**3,338.6960**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	7.34622e+006	679.6997	0.1100	0.0133	686.4207
City Park	0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	4.53152e+006	419.2733	0.0678	8.2200e-003	423.4192
General Office Building	2.26129e+007	2,092.2299	0.3385	0.0410	2,112.9183
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	425990	39.4142	6.3800e-003	7.7000e-004	39.8039
Unenclosed Parking with	814800	75.3884	0.0122	1.4800e-003	76.1338
Total		**3,306.0055**	**0.5349**	**0.0648**	**3,338.6960**

6.0 Area Detail

Google Middlefield Campus - Operational - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	10.8645	0.1627	14.1239	7.5000e-004		0.0784	0.0784		0.0784	0.0784	0.0000	23.1492	23.1492	0.0222	0.0000	23.7048
Unmitigated	12.0824	0.1627	14.1239	7.5000e-004		0.0784	0.0784		0.0784	0.0784	0.0000	23.1492	23.1492	0.0222	0.0000	23.7048

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.9493					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	9.7074					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Google Middlefield Campus - Operational - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4258	0.1627	14.1239	7.5000e-004		0.0784	0.0784		0.0784	0.0784	0.0000	23.1492	23.1492	0.0222	0.0000	23.7048
Total	**12.0824**	**0.1627**	**14.1239**	**7.5000e-004**		**0.0784**	**0.0784**		**0.0784**	**0.0784**	**0.0000**	**23.1492**	**23.1492**	**0.0222**	**0.0000**	**23.7048**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.7313					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	9.7074					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4258	0.1627	14.1239	7.5000e-004		0.0784	0.0784		0.0784	0.0784	0.0000	23.1492	23.1492	0.0222	0.0000	23.7048
Total	**10.8645**	**0.1627**	**14.1239**	**7.5000e-004**		**0.0784**	**0.0784**		**0.0784**	**0.0784**	**0.0000**	**23.1492**	**23.1492**	**0.0222**	**0.0000**	**23.7048**

7.0 Water Detail

7.1 Mitigation Measures Water

Google Middlefield Campus - Operational - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	369.9890	11.8187	0.2831	749.8207
Unmitigated	369.9890	11.8187	0.2831	749.8207

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	123.793 / 78.0432	126.5230	4.0479	0.0970	256.6138
City Park	0 / 5.95741	1.9292	3.1000e-004	4.0000e-005	1.9483
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	234.075 / 143.466	237.9091	7.6538	0.1833	483.8803
Recreational Swimming Pool	0.532288 / 0.326241	0.5410	0.0174	4.2000e-004	1.1004
Strip Mall	3.03697 / 1.86137	3.0867	0.0993	2.3800e-003	6.2780
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000

Google Middlefield Campus - Operational - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**369.9890**	**11.8187**	**0.2831**	**749.8207**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	123.793 / 78.0432	126.5230	4.0479	0.0970	256.6138
City Park	0 / 5.95741	1.9292	3.1000e-004	4.0000e-005	1.9483
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	234.075 / 143.466	237.9091	7.6538	0.1833	483.8803
Recreational Swimming Pool	0.532288 / 0.326241	0.5410	0.0174	4.2000e-004	1.1004
Strip Mall	3.03697 / 1.86137	3.0867	0.0993	2.3800e-003	6.2780
Unenclosed Parking with	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**369.9890**	**11.8187**	**0.2831**	**749.8207**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

Google Middlefield Campus - Operational - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	445.2790	26.3152	0.0000	1,103.1597
Unmitigated	445.2790	26.3152	0.0000	1,103.1597

8.2 Waste by Land Use

Unmitigated

Land Use	Waste Disposed	Total CO2	CH4	N2O	CO2e
	tons	MT/yr			
Apartments Mid Rise	874	177.4141	10.4849	0.0000	439.5359
City Park	0.43	0.0873	5.1600e-003	0.0000	0.2163
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	1224.81	248.6254	14.6933	0.0000	615.9588
Recreational Swimming Pool	51.3	10.4134	0.6154	0.0000	25.7989
Strip Mall	43.05	8.7388	0.5165	0.0000	21.6499
Unenclosed Parking with	0	0.0000	0.0000	0.0000	0.0000
Total		**445.2790**	**26.3152**	**0.0000**	**1,103.1598**

Google Middlefield Campus - Operational - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated

Land Use	Waste Disposed tons	Total CO2 MT/yr	CH4	N2O	CO2e
Apartments Mid Rise	874	177.4141	10.4849	0.0000	439.5359
City Park	0.43	0.0873	5.1600e-003	0.0000	0.2163
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	1224.81	248.6254	14.6933	0.0000	615.9588
Recreational Swimming Pool	51.3	10.4134	0.6154	0.0000	25.7989
Strip Mall	43.05	8.7388	0.5165	0.0000	21.6499
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Total		**445.2790**	**26.3152**	**0.0000**	**1,103.1598**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Google Middlefield Campus - Operational - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	6	0	50	670	0.73	Diesel
Emergency Generator	5	0	50	1206	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (600 - 750 HP)	0.1649	0.4610	0.4205	7.9000e-004		0.0243	0.0243		0.0243	0.0243	0.0000	76.5402	76.5402	0.0107	0.0000	76.8085
Emergency Generator - Diesel (750 - 9999 HP)	0.2474	0.1213	0.6308	1.1900e-003		4.8500e-003	4.8500e-003		4.8500e-003	4.8500e-003	0.0000	114.8104	114.8104	0.0161	0.0000	115.2128
Total	**0.4123**	**0.5823**	**1.0513**	**1.9800e-003**		**0.0291**	**0.0291**		**0.0291**	**0.0291**	**0.0000**	**191.3506**	**191.3506**	**0.0268**	**0.0000**	**192.0213**

11.0 Vegetation

Existing Google Middlefield - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Existing Google Middlefield
Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	685.00	1000sqft	15.73	685,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2021
Utility Company	Silicon Valley Clean Energy				
CO2 Intensity (lb/MWhr)	2	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Existing use from Traffic Trip Generation table 9/28/2021

Vehicle Trips - Exist Office = 9.16/2.08/0.66

Vehicle Emission Factors - Emfac2021

Road Dust - Santa Clara County silt loading average

Energy Use - Existing uses

Fleet Mix - Emfac2021

Table Name	Column Name	Default Value	New Value
tblEnergyUse	LightingElect	4.72	3.88
tblEnergyUse	T24E	8.01	5.45
tblEnergyUse	T24NG	19.90	16.14

Existing Google Middlefield - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblFleetMix	HHD	6.4250e-003	6.9330e-003
tblFleetMix	LDA	0.57	0.54
tblFleetMix	LDT1	0.05	0.05
tblFleetMix	LDT2	0.19	0.22
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	4.8940e-003	5.3010e-003
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MH	2.9780e-003	2.9920e-003
tblFleetMix	MHD	8.2890e-003	9.4610e-003
tblFleetMix	OBUS	9.6600e-004	1.0730e-003
tblFleetMix	SBUS	9.5000e-004	6.7500e-004
tblFleetMix	UBUS	4.0700e-004	4.2700e-004
tblRoadDust	RoadSiltLoading	0.1	0.04
tblVehicleEF	HHD	0.03	0.20
tblVehicleEF	HHD	0.06	0.13
tblVehicleEF	HHD	5.63	4.80
tblVehicleEF	HHD	0.68	0.86
tblVehicleEF	HHD	5.9160e-003	2.8700e-004
tblVehicleEF	HHD	1,088.79	882.48
tblVehicleEF	HHD	1,552.03	1,685.13
tblVehicleEF	HHD	0.06	0.04
tblVehicleEF	HHD	0.17	0.14
tblVehicleEF	HHD	0.25	0.27
tblVehicleEF	HHD	1.5000e-005	2.5000e-005
tblVehicleEF	HHD	5.97	4.57
tblVehicleEF	HHD	4.12	2.78
tblVehicleEF	HHD	1.86	2.24
tblVehicleEF	HHD	8.5660e-003	4.3030e-003

Existing Google Middlefield - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	HHD	0.06	0.08
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.06	0.04
tblVehicleEF	HHD	1.0000e-006	2.0000e-006
tblVehicleEF	HHD	8.1960e-003	4.1120e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8680e-003	8.7790e-003
tblVehicleEF	HHD	0.06	0.04
tblVehicleEF	HHD	4.0000e-006	4.5600e-004
tblVehicleEF	HHD	1.8500e-004	1.3600e-004
tblVehicleEF	HHD	0.43	0.34
tblVehicleEF	HHD	2.0000e-006	0.00
tblVehicleEF	HHD	0.14	0.05
tblVehicleEF	HHD	1.0000e-004	1.2210e-003
tblVehicleEF	HHD	3.0000e-006	0.00
tblVehicleEF	HHD	0.01	7.8730e-003
tblVehicleEF	HHD	0.01	0.02
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	4.0000e-006	4.5600e-004
tblVehicleEF	HHD	1.8500e-004	1.3600e-004
tblVehicleEF	HHD	0.50	0.57
tblVehicleEF	HHD	2.0000e-006	0.00
tblVehicleEF	HHD	0.21	0.18
tblVehicleEF	HHD	1.0000e-004	1.2210e-003
tblVehicleEF	HHD	3.0000e-006	1.0000e-006
tblVehicleEF	LDA	2.6060e-003	2.9950e-003
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.66	0.83
tblVehicleEF	LDA	2.29	3.58

Existing Google Middlefield - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LDA	257.27	266.46
tblVehicleEF	LDA	54.50	68.97
tblVehicleEF	LDA	4.9650e-003	5.4030e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.20	0.28
tblVehicleEF	LDA	0.04	7.2670e-003
tblVehicleEF	LDA	1.4910e-003	1.3570e-003
tblVehicleEF	LDA	1.8970e-003	2.1510e-003
tblVehicleEF	LDA	0.02	2.5430e-003
tblVehicleEF	LDA	1.3730e-003	1.2500e-003
tblVehicleEF	LDA	1.7440e-003	1.9780e-003
tblVehicleEF	LDA	0.05	0.31
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.00
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.24
tblVehicleEF	LDA	0.26	0.38
tblVehicleEF	LDA	2.5450e-003	2.6340e-003
tblVehicleEF	LDA	5.3900e-004	6.8200e-004
tblVehicleEF	LDA	0.05	0.31
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.00
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.03	0.24
tblVehicleEF	LDA	0.28	0.41
tblVehicleEF	LDT1	5.6210e-003	8.6440e-003
tblVehicleEF	LDT1	0.08	0.13
tblVehicleEF	LDT1	1.19	1.85

Existing Google Middlefield - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LDT1	2.52	6.58
tblVehicleEF	LDT1	305.87	341.20
tblVehicleEF	LDT1	65.70	91.83
tblVehicleEF	LDT1	8.0230e-003	0.01
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.11	0.18
tblVehicleEF	LDT1	0.27	0.45
tblVehicleEF	LDT1	0.04	9.2200e-003
tblVehicleEF	LDT1	2.0610e-003	2.3470e-003
tblVehicleEF	LDT1	2.5740e-003	3.4520e-003
tblVehicleEF	LDT1	0.02	3.2270e-003
tblVehicleEF	LDT1	1.8980e-003	2.1610e-003
tblVehicleEF	LDT1	2.3670e-003	3.1750e-003
tblVehicleEF	LDT1	0.10	0.68
tblVehicleEF	LDT1	0.19	0.19
tblVehicleEF	LDT1	0.08	0.00
tblVehicleEF	LDT1	0.02	0.04
tblVehicleEF	LDT1	0.09	0.56
tblVehicleEF	LDT1	0.38	0.68
tblVehicleEF	LDT1	3.0270e-003	3.3730e-003
tblVehicleEF	LDT1	6.5000e-004	9.0800e-004
tblVehicleEF	LDT1	0.10	0.68
tblVehicleEF	LDT1	0.19	0.19
tblVehicleEF	LDT1	0.08	0.00
tblVehicleEF	LDT1	0.04	0.06
tblVehicleEF	LDT1	0.09	0.56
tblVehicleEF	LDT1	0.42	0.74
tblVehicleEF	LDT2	4.0150e-003	3.7370e-003
tblVehicleEF	LDT2	0.08	0.10

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LDT2	0.92	1.03
tblVehicleEF	LDT2	2.97	4.37
tblVehicleEF	LDT2	335.42	363.40
tblVehicleEF	LDT2	72.55	93.76
tblVehicleEF	LDT2	7.3230e-003	7.6890e-003
tblVehicleEF	LDT2	0.03	0.04
tblVehicleEF	LDT2	0.09	0.10
tblVehicleEF	LDT2	0.32	0.42
tblVehicleEF	LDT2	0.04	8.9000e-003
tblVehicleEF	LDT2	1.4890e-003	1.4880e-003
tblVehicleEF	LDT2	1.8600e-003	2.2930e-003
tblVehicleEF	LDT2	0.02	3.1150e-003
tblVehicleEF	LDT2	1.3700e-003	1.3690e-003
tblVehicleEF	LDT2	1.7100e-003	2.1080e-003
tblVehicleEF	LDT2	0.07	0.31
tblVehicleEF	LDT2	0.13	0.09
tblVehicleEF	LDT2	0.06	0.00
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.23
tblVehicleEF	LDT2	0.36	0.47
tblVehicleEF	LDT2	3.3180e-003	3.5920e-003
tblVehicleEF	LDT2	7.1800e-004	9.2700e-004
tblVehicleEF	LDT2	0.07	0.31
tblVehicleEF	LDT2	0.13	0.09
tblVehicleEF	LDT2	0.06	0.00
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.23
tblVehicleEF	LDT2	0.40	0.51
tblVehicleEF	LHD1	5.5240e-003	5.8780e-003

Existing Google Middlefield - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	0.19	0.20
tblVehicleEF	LHD1	0.92	1.15
tblVehicleEF	LHD1	1.18	2.12
tblVehicleEF	LHD1	9.08	8.98
tblVehicleEF	LHD1	823.31	834.15
tblVehicleEF	LHD1	12.42	18.35
tblVehicleEF	LHD1	7.2900e-004	6.4200e-004
tblVehicleEF	LHD1	0.05	0.04
tblVehicleEF	LHD1	0.03	0.04
tblVehicleEF	LHD1	0.06	0.05
tblVehicleEF	LHD1	0.93	0.97
tblVehicleEF	LHD1	0.36	0.50
tblVehicleEF	LHD1	7.8900e-004	6.5900e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	9.6690e-003	9.3520e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	2.8300e-004	2.9700e-004
tblVehicleEF	LHD1	7.5500e-004	6.3100e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.4170e-003	2.3380e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	2.6000e-004	2.7300e-004
tblVehicleEF	LHD1	2.2740e-003	0.15
tblVehicleEF	LHD1	0.08	0.04
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.1320e-003	0.00
tblVehicleEF	LHD1	0.10	0.11

Existing Google Middlefield - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LHD1	0.23	0.21
tblVehicleEF	LHD1	0.09	0.14
tblVehicleEF	LHD1	8.0450e-003	8.1570e-003
tblVehicleEF	LHD1	1.2300e-004	1.8100e-004
tblVehicleEF	LHD1	2.2740e-003	0.15
tblVehicleEF	LHD1	0.08	0.04
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.1320e-003	0.00
tblVehicleEF	LHD1	0.13	0.14
tblVehicleEF	LHD1	0.23	0.21
tblVehicleEF	LHD1	0.10	0.15
tblVehicleEF	LHD2	3.4180e-003	3.6190e-003
tblVehicleEF	LHD2	8.1220e-003	9.1300e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	0.14	0.15
tblVehicleEF	LHD2	0.71	0.74
tblVehicleEF	LHD2	0.71	1.29
tblVehicleEF	LHD2	14.19	14.03
tblVehicleEF	LHD2	796.11	872.36
tblVehicleEF	LHD2	8.35	10.91
tblVehicleEF	LHD2	1.7420e-003	1.6730e-003
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	1.13	1.26
tblVehicleEF	LHD2	0.21	0.28
tblVehicleEF	LHD2	1.3930e-003	1.3140e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01

Existing Google Middlefield - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	1.5100e-004	1.4400e-004
tblVehicleEF	LHD2	1.3330e-003	1.2570e-003
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	2.6760e-003	2.6430e-003
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	1.3800e-004	1.3200e-004
tblVehicleEF	LHD2	1.2620e-003	0.08
tblVehicleEF	LHD2	0.05	0.02
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.1900e-004	0.00
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	0.05	0.08
tblVehicleEF	LHD2	1.3600e-004	1.3500e-004
tblVehicleEF	LHD2	7.6920e-003	8.4180e-003
tblVehicleEF	LHD2	8.3000e-005	1.0800e-004
tblVehicleEF	LHD2	1.2620e-003	0.08
tblVehicleEF	LHD2	0.05	0.02
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.1900e-004	0.00
tblVehicleEF	LHD2	0.14	0.16
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	0.06	0.08
tblVehicleEF	MCY	0.33	0.18
tblVehicleEF	MCY	0.26	0.20
tblVehicleEF	MCY	19.56	14.16
tblVehicleEF	MCY	8.98	8.17
tblVehicleEF	MCY	210.39	189.76

Existing Google Middlefield - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MCY	61.76	52.23
tblVehicleEF	MCY	0.07	0.04
tblVehicleEF	MCY	0.02	9.1460e-003
tblVehicleEF	MCY	1.15	0.63
tblVehicleEF	MCY	0.27	0.16
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	1.8930e-003	1.8720e-003
tblVehicleEF	MCY	3.2130e-003	3.8430e-003
tblVehicleEF	MCY	5.0400e-003	4.2000e-003
tblVehicleEF	MCY	1.7720e-003	1.7550e-003
tblVehicleEF	MCY	3.0300e-003	3.6260e-003
tblVehicleEF	MCY	0.91	3.99
tblVehicleEF	MCY	0.72	3.56
tblVehicleEF	MCY	0.50	0.00
tblVehicleEF	MCY	2.25	1.21
tblVehicleEF	MCY	0.57	3.72
tblVehicleEF	MCY	1.97	1.49
tblVehicleEF	MCY	2.0820e-003	1.8760e-003
tblVehicleEF	MCY	6.1100e-004	5.1600e-004
tblVehicleEF	MCY	0.91	0.09
tblVehicleEF	MCY	0.72	3.56
tblVehicleEF	MCY	0.50	0.00
tblVehicleEF	MCY	2.77	1.44
tblVehicleEF	MCY	0.57	3.72
tblVehicleEF	MCY	2.14	1.62
tblVehicleEF	MDV	5.3420e-003	5.7600e-003
tblVehicleEF	MDV	0.09	0.13
tblVehicleEF	MDV	1.10	1.30
tblVehicleEF	MDV	3.49	4.94

Existing Google Middlefield - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MDV	406.59	439.91
tblVehicleEF	MDV	87.26	112.73
tblVehicleEF	MDV	0.01	0.01
tblVehicleEF	MDV	0.04	0.05
tblVehicleEF	MDV	0.12	0.16
tblVehicleEF	MDV	0.40	0.56
tblVehicleEF	MDV	0.04	9.1080e-003
tblVehicleEF	MDV	1.6790e-003	1.6270e-003
tblVehicleEF	MDV	2.1320e-003	2.5440e-003
tblVehicleEF	MDV	0.02	3.1880e-003
tblVehicleEF	MDV	1.5490e-003	1.5000e-003
tblVehicleEF	MDV	1.9610e-003	2.3400e-003
tblVehicleEF	MDV	0.08	0.38
tblVehicleEF	MDV	0.15	0.11
tblVehicleEF	MDV	0.07	0.00
tblVehicleEF	MDV	0.02	0.03
tblVehicleEF	MDV	0.07	0.29
tblVehicleEF	MDV	0.47	0.66
tblVehicleEF	MDV	4.0190e-003	4.3460e-003
tblVehicleEF	MDV	8.6400e-004	1.1140e-003
tblVehicleEF	MDV	0.08	0.38
tblVehicleEF	MDV	0.15	0.11
tblVehicleEF	MDV	0.07	0.00
tblVehicleEF	MDV	0.03	0.04
tblVehicleEF	MDV	0.07	0.29
tblVehicleEF	MDV	0.51	0.73
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	1.62	2.55

Existing Google Middlefield - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MH	2.37	2.95
tblVehicleEF	MH	1,583.82	1,711.66
tblVehicleEF	MH	19.77	24.31
tblVehicleEF	MH	0.06	0.07
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.51	1.72
tblVehicleEF	MH	0.25	0.30
tblVehicleEF	MH	0.13	0.04
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	3.1000e-004	4.0300e-004
tblVehicleEF	MH	0.06	0.02
tblVehicleEF	MH	3.2650e-003	3.2740e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	2.8500e-004	3.7100e-004
tblVehicleEF	MH	0.87	38.95
tblVehicleEF	MH	0.07	11.50
tblVehicleEF	MH	0.29	0.00
tblVehicleEF	MH	0.09	0.12
tblVehicleEF	MH	0.02	0.26
tblVehicleEF	MH	0.11	0.13
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.9600e-004	2.4000e-004
tblVehicleEF	MH	0.87	38.95
tblVehicleEF	MH	0.07	11.50
tblVehicleEF	MH	0.29	0.00
tblVehicleEF	MH	0.12	0.17
tblVehicleEF	MH	0.02	0.26
tblVehicleEF	MH	0.12	0.14

Existing Google Middlefield - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MHD	3.3710e-003	0.01
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	9.5540e-003	0.01
tblVehicleEF	MHD	0.37	0.65
tblVehicleEF	MHD	0.76	0.60
tblVehicleEF	MHD	1.20	1.33
tblVehicleEF	MHD	77.13	165.91
tblVehicleEF	MHD	1,160.41	1,253.35
tblVehicleEF	MHD	9.11	9.47
tblVehicleEF	MHD	0.01	0.03
tblVehicleEF	MHD	0.15	0.16
tblVehicleEF	MHD	6.5660e-003	6.0720e-003
tblVehicleEF	MHD	0.67	1.09
tblVehicleEF	MHD	2.89	1.74
tblVehicleEF	MHD	1.17	1.25
tblVehicleEF	MHD	2.1340e-003	3.6160e-003
tblVehicleEF	MHD	0.13	0.05
tblVehicleEF	MHD	0.07	0.02
tblVehicleEF	MHD	1.2300e-004	1.3300e-004
tblVehicleEF	MHD	2.0410e-003	3.4600e-003
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	0.07	0.02
tblVehicleEF	MHD	1.1300e-004	1.2200e-004
tblVehicleEF	MHD	4.8800e-004	0.03
tblVehicleEF	MHD	0.02	8.6750e-003
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	2.3700e-004	0.00
tblVehicleEF	MHD	0.19	0.07
tblVehicleEF	MHD	0.03	0.07

Existing Google Middlefield - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	7.3100e-004	1.5480e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	9.0000e-005	9.4000e-005
tblVehicleEF	MHD	4.8800e-004	0.03
tblVehicleEF	MHD	0.02	8.6750e-003
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	2.3700e-004	0.00
tblVehicleEF	MHD	0.22	0.09
tblVehicleEF	MHD	0.03	0.07
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	OBUS	7.4560e-003	7.5900e-003
tblVehicleEF	OBUS	8.2760e-003	0.01
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.57	0.48
tblVehicleEF	OBUS	0.77	0.73
tblVehicleEF	OBUS	1.97	2.22
tblVehicleEF	OBUS	98.57	85.13
tblVehicleEF	OBUS	1,386.54	1,432.80
tblVehicleEF	OBUS	15.72	17.14
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.14	0.16
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.61	0.42
tblVehicleEF	OBUS	2.07	1.32
tblVehicleEF	OBUS	0.95	0.88
tblVehicleEF	OBUS	2.1490e-003	7.8500e-004
tblVehicleEF	OBUS	0.13	0.05
tblVehicleEF	OBUS	0.03	0.02

Existing Google Middlefield - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	OBUS	1.3500e-004	1.5000e-004
tblVehicleEF	OBUS	2.0560e-003	7.5100e-004
tblVehicleEF	OBUS	0.06	0.02
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	1.2400e-004	1.3800e-004
tblVehicleEF	OBUS	1.0870e-003	0.07
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.04
tblVehicleEF	OBUS	4.7200e-004	0.00
tblVehicleEF	OBUS	0.10	0.07
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	0.09	0.10
tblVehicleEF	OBUS	9.3600e-004	8.0700e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.5600e-004	1.6900e-004
tblVehicleEF	OBUS	1.0870e-003	0.07
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.07	0.06
tblVehicleEF	OBUS	4.7200e-004	0.00
tblVehicleEF	OBUS	0.12	0.09
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	0.10	0.11
tblVehicleEF	SBUS	0.05	0.07
tblVehicleEF	SBUS	6.8250e-003	0.09
tblVehicleEF	SBUS	4.3890e-003	4.5290e-003
tblVehicleEF	SBUS	1.99	1.57
tblVehicleEF	SBUS	0.56	0.97
tblVehicleEF	SBUS	0.66	0.66
tblVehicleEF	SBUS	347.43	194.78

Existing Google Middlefield - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	SBUS	1,081.24	1,079.66
tblVehicleEF	SBUS	3.67	3.62
tblVehicleEF	SBUS	0.05	0.03
tblVehicleEF	SBUS	0.14	0.14
tblVehicleEF	SBUS	3.9430e-003	3.7760e-003
tblVehicleEF	SBUS	3.69	1.54
tblVehicleEF	SBUS	5.30	3.17
tblVehicleEF	SBUS	0.73	0.45
tblVehicleEF	SBUS	4.5040e-003	1.6970e-003
tblVehicleEF	SBUS	0.74	0.05
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	4.0000e-005	3.6000e-005
tblVehicleEF	SBUS	4.3090e-003	1.6230e-003
tblVehicleEF	SBUS	0.32	0.02
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	3.7000e-005	3.3000e-005
tblVehicleEF	SBUS	4.6600e-004	0.02
tblVehicleEF	SBUS	4.4900e-003	6.3100e-003
tblVehicleEF	SBUS	0.22	0.17
tblVehicleEF	SBUS	1.8600e-004	0.00
tblVehicleEF	SBUS	0.09	0.06
tblVehicleEF	SBUS	9.2720e-003	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	3.3040e-003	1.7790e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.6600e-004	0.02
tblVehicleEF	SBUS	4.4900e-003	6.3100e-003
tblVehicleEF	SBUS	0.31	0.28

Existing Google Middlefield - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	SBUS	1.8600e-004	0.00
tblVehicleEF	SBUS	0.11	0.17
tblVehicleEF	SBUS	9.2720e-003	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	UBUS	1.38	0.35
tblVehicleEF	UBUS	2.6650e-003	4.6730e-003
tblVehicleEF	UBUS	10.36	4.10
tblVehicleEF	UBUS	0.14	0.49
tblVehicleEF	UBUS	1,606.74	1,102.61
tblVehicleEF	UBUS	1.64	3.33
tblVehicleEF	UBUS	0.27	0.17
tblVehicleEF	UBUS	1.3980e-003	7.2220e-003
tblVehicleEF	UBUS	0.73	0.33
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	0.07	0.11
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	5.2780e-003	6.2220e-003
tblVehicleEF	UBUS	2.0000e-006	8.0000e-006
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	8.3320e-003	8.1250e-003
tblVehicleEF	UBUS	5.0490e-003	5.9500e-003
tblVehicleEF	UBUS	2.0000e-006	8.0000e-006
tblVehicleEF	UBUS	1.7500e-004	0.01
tblVehicleEF	UBUS	2.6930e-003	4.5950e-003
tblVehicleEF	UBUS	1.1000e-004	0.00
tblVehicleEF	UBUS	0.02	0.06
tblVehicleEF	UBUS	6.6900e-004	8.1290e-003
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.01	9.4800e-003

Existing Google Middlefield - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	UBUS	1.6000e-005	3.3000e-005
tblVehicleEF	UBUS	1.7500e-004	0.01
tblVehicleEF	UBUS	2.6930e-003	4.5950e-003
tblVehicleEF	UBUS	1.1000e-004	0.00
tblVehicleEF	UBUS	1.41	0.42
tblVehicleEF	UBUS	6.6900e-004	8.1290e-003
tblVehicleEF	UBUS	0.01	0.02
tblVehicleTrips	ST_TR	2.21	2.08
tblVehicleTrips	SU_TR	0.70	0.66
tblVehicleTrips	WD_TR	9.74	9.16

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.0330	6.0000e-005	6.3200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0122	0.0122	3.0000e-005	0.0000	0.0131
Energy	0.0598	0.5440	0.4569	3.2600e-003		0.0413	0.0413		0.0413	0.0413	0.0000	602.8480	602.8480	0.0114	0.0109	606.3670
Mobile	3.4795	2.8892	23.8790	0.0449	1.8082	0.0364	1.8446	0.4590	0.0341	0.4930	0.0000	4,144.5366	4,144.5366	0.2633	0.2107	4,213.8989
Waste						0.0000	0.0000		0.0000	0.0000	129.3154	0.0000	129.3154	7.6423	0.0000	320.3734
Water						0.0000	0.0000		0.0000	0.0000	38.6249	0.8346	39.4595	3.9672	0.0937	166.5527
Total	**6.5724**	**3.4332**	**24.3423**	**0.0482**	**1.8082**	**0.0778**	**1.8860**	**0.4590**	**0.0754**	**0.5344**	**167.9403**	**4,748.2314**	**4,916.1717**	**11.8841**	**0.3152**	**5,307.2051**

Existing Google Middlefield - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.0330	6.0000e-005	6.3200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0122	0.0122	3.0000e-005	0.0000	0.0131
Energy	0.0598	0.5440	0.4569	3.2600e-003		0.0413	0.0413		0.0413	0.0413	0.0000	602.8480	602.8480	0.0114	0.0109	606.3670
Mobile	3.4795	2.8892	23.8790	0.0449	1.8082	0.0364	1.8446	0.4590	0.0341	0.4930	0.0000	4,144.5366	4,144.5366	0.2633	0.2107	4,213.8989
Waste						0.0000	0.0000		0.0000	0.0000	129.3154	0.0000	129.3154	7.6423	0.0000	320.3734
Water						0.0000	0.0000		0.0000	0.0000	38.6249	0.8346	39.4595	3.9672	0.0937	166.5527
Total	**6.5724**	**3.4332**	**24.3423**	**0.0482**	**1.8082**	**0.0778**	**1.8860**	**0.4590**	**0.0754**	**0.5344**	**167.9403**	**4,748.2314**	**4,916.1717**	**11.8841**	**0.3152**	**5,307.2051**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Existing Google Middlefield - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.4795	2.8892	23.8790	0.0449	1.8082	0.0364	1.8446	0.4590	0.0341	0.4930	0.0000	4,144.5366	4,144.5366	0.2633	0.2107	4,213.8989
Unmitigated	3.4795	2.8892	23.8790	0.0449	1.8082	0.0364	1.8446	0.4590	0.0341	0.4930	0.0000	4,144.5366	4,144.5366	0.2633	0.2107	4,213.8989

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	6,274.60	1,424.80	452.10	11,351,292	11,351,292
Total	6,274.60	1,424.80	452.10	11,351,292	11,351,292

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.540455	0.045763	0.219871	0.122171	0.022751	0.005301	0.009461	0.006933	0.001073	0.000427	0.022127	0.000675	0.002992

5.0 Energy Detail

Historical Energy Use: Y

Existing Google Middlefield - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	10.6698	10.6698	0.0000	0.0000	10.6698
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	10.6698	10.6698	0.0000	0.0000	10.6698
NaturalGas Mitigated	0.0598	0.5440	0.4569	3.2600e-003		0.0413	0.0413		0.0413	0.0413	0.0000	592.1782	592.1782	0.0114	0.0109	595.6972
NaturalGas Unmitigated	0.0598	0.5440	0.4569	3.2600e-003		0.0413	0.0413		0.0413	0.0413	0.0000	592.1782	592.1782	0.0114	0.0109	595.6972

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	1.1097e+007	0.0598	0.5440	0.4569	3.2600e-003		0.0413	0.0413		0.0413	0.0413	0.0000	592.1782	592.1782	0.0114	0.0109	595.6972
Total		**0.0598**	**0.5440**	**0.4569**	**3.2600e-003**		**0.0413**	**0.0413**		**0.0413**	**0.0413**	**0.0000**	**592.1782**	**592.1782**	**0.0114**	**0.0109**	**595.6972**

Existing Google Middlefield - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	1.1097e+007	0.0598	0.5440	0.4569	3.2600e-003		0.0413	0.0413		0.0413	0.0413	0.0000	592.1782	592.1782	0.0114	0.0109	595.6972
Total		**0.0598**	**0.5440**	**0.4569**	**3.2600e-003**		**0.0413**	**0.0413**		**0.0413**	**0.0413**	**0.0000**	**592.1782**	**592.1782**	**0.0114**	**0.0109**	**595.6972**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	1.17614e+007	10.6698	0.0000	0.0000	10.6698
Total		**10.6698**	**0.0000**	**0.0000**	**10.6698**

Mitigated

Existing Google Middlefield - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	1.17614e+007	10.6698	0.0000	0.0000	10.6698
Total		**10.6698**	**0.0000**	**0.0000**	**10.6698**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.0330	6.0000e-005	6.3200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0122	0.0122	3.0000e-005	0.0000	0.0131
Unmitigated	3.0330	6.0000e-005	6.3200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0122	0.0122	3.0000e-005	0.0000	0.0131

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Existing Google Middlefield - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3572					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.6753					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.9000e-004	6.0000e-005	6.3200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0122	0.0122	3.0000e-005	0.0000	0.0131
Total	**3.0330**	**6.0000e-005**	**6.3200e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0122**	**0.0122**	**3.0000e-005**	**0.0000**	**0.0131**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3572					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.6753					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.9000e-004	6.0000e-005	6.3200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0122	0.0122	3.0000e-005	0.0000	0.0131
Total	**3.0330**	**6.0000e-005**	**6.3200e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0122**	**0.0122**	**3.0000e-005**	**0.0000**	**0.0131**

7.0 Water Detail

7.1 Mitigation Measures Water

Existing Google Middlefield - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	39.4595	3.9672	0.0937	166.5527
Unmitigated	39.4595	3.9672	0.0937	166.5527

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	121.748 / 74.6195	39.4595	3.9672	0.0937	166.5527
Total		**39.4595**	**3.9672**	**0.0937**	**166.5527**

Mitigated

Existing Google Middlefield - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	121.748 / 74.6195	39.4595	3.9672	0.0937	166.5527
Total		**39.4595**	**3.9672**	**0.0937**	**166.5527**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	129.3154	7.6423	0.0000	320.3734
Unmitigated	129.3154	7.6423	0.0000	320.3734

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e

Existing Google Middlefield - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Land Use	tons	MT/yr			
General Office Building	637.05	129.3154	7.6423	0.0000	320.3734
Total		**129.3154**	**7.6423**	**0.0000**	**320.3734**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	637.05	129.3154	7.6423	0.0000	320.3734
Total		**129.3154**	**7.6423**	**0.0000**	**320.3734**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Existing Google Middlefield - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

P1 (R1+R2) - CalEEMod Construction Inputs

Phase	CalEEMod WORKER TRIPS	CalEEMod VENDOR TRIPS	Total Worker Trips	Total Vendor Trips	CalEEMod HAULING TRIPS	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class	*Worker VMT*	*Vendor VMT*	*Hauling VMT*
Demolition	50	0	2800	0	1849	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	30240	0	36980
Site Preparation	15	2	240	32	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	2592	233.6	0
Grading	103	0	5768	0	25429	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	62294.4	0	508580
Trenching	60	0	9660	0	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	104328	0	0
Building Construction	691	140	272945	55300	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	2947806	403690	0
Paving	23	0	1104	0	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	11923.2	0	0
Architectural Coating	138	0	6624	0	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	71539.2	0	0

Number of Days Per Year					
2022-2023	11/1/22	12/31/23	426	366	
2024	1/1/24	12/31/24	366	314	
2025	1/1/25	4/30/25	120	103	
			912	**783**	***Total Workdays***

Phase	Start Date	End Date	Days/Week	Workdays
Demolition	11/1/2022	1/4/2023	6	56
Site Preparation	1/5/2023	1/23/2023	6	16
Grading	1/24/2023	3/29/2023	6	56
Trenching	3/31/2023	10/4/2023	6	161
Building Construction	10/5/2023	1/7/2025	6	395
Paving	1/8/2025	3/4/2025	6	48
Architectural Coating	3/6/2025	4/30/2025	6	48

Summary of Construction Traffic Emissions (EMFAC2021)

CATEGORY	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	NBio- CO2	CH4	N2O	CO2e
						Grams								
Hauling	19755.16	1240196.88	575806.93	8323.34	163122.44	77750.00	240872.44	24544.74	33882.99	58427.74	##########	74982.44	146752.67	#########
Vendor	26884.63	889983.47	436798.36	5632.92	120773.16	43518.03	164291.19	18172.52	19354.96	37527.48	##########	34516.46	89878.34	#########
Worker	401382.40	338686.22	4267026.17	9703.98	965986.12	57545.12	1023531.24	145350.22	20663.51	166013.73	##########	37037.92	31188.74	#########
Total (g)	448022.20	2468866.57	5279631.46	23660.24	1249881.71	178813.16	1428694.87	188067.49	73901.47	261968.95	##########	146536.82	267819.75	#########
Total (lbs)	987.72	5442.92	11639.59	52.16	2755.52	394.22	3149.73	414.62	162.92	577.54	5537280.73	323.06	590.44	#########
Total (tons)	0.49	2.72	5.82	0.03	1.38	0.20	1.57	0.21	0.08	0.29	2768.64	0.16	0.30	2860.65
Total (MT)											2511.67	0.15	0.27	2595.14

YEAR	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	NBio- CO2	CH4	N2O	CO2e
							Tons							
2022-2023	0.2307	1.2712	2.7185	0.0122	0.6436	0.0921	0.7356	0.0968	0.0381	0.1349	1173.2135	0.0684	0.1251	1212.2045
2024	0.1982	1.0922	2.3356	0.0105	0.5529	0.0791	0.6320	0.0832	0.0327	0.1159	1007.9721	0.0588	0.1075	1041.4715
2025	0.0650	0.3581	0.7658	0.0034	0.1813	0.0259	0.2072	0.0273	0.0107	0.0380	330.4827	0.0193	0.0352	341.4661

Category		Mix %	Adj	ROG_DIURN	ROG_HTSK	ROG_IDLEX	ROG_RESTL	ROG_RUNEX	ROG_RUNLS	ROG_STREX	NOX_IDLEX	NOX_RUNEX	NOX_STREX	CO_IDLEX	CO_RUNEX	CO_STREX	SO2_IDLEX	SO2_RUNEX	SO2_STREX	Road Dust PM10	PM10_PM BW	PM10_PM TW	PM10_IDLEX	PM10_RUNEX	PM10_STREX	Road Dust PM25	PM25_PM BW	PM25_PM TW	PM25_IDLEX	PM25_RUNEX	PM25_STREX	CO2_NBIO_IDLEX	CO2_NBIO_RUNEX	CO2_NBIO_STREX	CH4_IDLEX	CH4_RUNEX	CH4_STREX	N2O_IDLEX	N2O_RUNEX	N2O_STREX
																														19	22	23	8	9	10						
Hauling	HHDT	100.0	1	0.000287604	8.55424E-05	0.332404817	0	0.01953334	0.00077057	5.28839E-07	4.1629787	1.930480649	2.692504026	5.211988	0.79481483	0.000555	0.00746083	0.01488345	2.65981E-07		0.081444	0.035123	0.002283	0.025833	9.98684E-07		0.028506	0.008781	0.002179	0.0247116	9.183E-07	850.51039	1643.0479	0.0269048	0.235881	0.125647179	9.74075E-08	0.136898	0.262148415	2.46823E-05
	MHD	0.0	0	0.028424515	0.006961572	0.027529656	0	0.04434978	0.05660825	0.052337336	0.9240436	1.219274528	1.396113281	0.673566	0.40377012	1.152494	0.00150213	0.011767743	8.73526E-05	0.299	0.045469	0.012	0.002542	0.014931	0.000112942	0.04499	0.015914	0.003	0.002431	0.0142769	0.0001038	161.33734	1239.5984	8.8359741	0.012943	0.009906777	0.009245497	0.024829	0.159885109	0.006096523
Vendor	HHDT	50.0	0.5	0.000143802	4.27712E-05	0.166202408	0	0.00976667	0.00038529	2.6442E-07	2.0814893	0.965240325	1.346252013	2.605994	0.39740742	0.000277	0.00373041	0.007441725	1.32991E-07		0.040722	0.017561	0.001142	0.012916	4.99342E-07		0.014253	0.00439	0.001089	0.0123558	4.591E-07	425.2552	821.52395	0.0134524	0.11794	0.06282359	4.87037E-08	0.068449	0.131074208	1.23411E-05
	MHD	50.0	0.5	0.014212257	0.003480786	0.013764828	0	0.02217489	0.02830413	0.026168668	0.4620218	0.609637264	0.698056641	0.336783	0.20188506	0.576247	0.00075106	0.005883871	4.36763E-05		0.022735	0.006	0.001271	0.007465	5.64711E-05		0.007957	0.0015	0.001216	0.0071384	5.192E-05	80.66867	619.79918	4.417987	0.006471	0.004953388	0.004622749	0.012414	0.079942554	0.003048262
		1	0.01435606	0.003523557	0.179967236	0	0.03194156	0.02868941	0.026168932	2.5435111	1.574877589	2.044308654	2.942777	0.59929248	0.576524	0.00448148	0.013325596	4.38093E-05	0.299	0.063457	0.023561	0.002413	0.020382	5.69705E-05	0.04499	0.02221	0.00589	0.002305	0.0194942	5.238E-05	505.92387	1441.3231	4.4314394	0.124412	0.067776978	0.004622797	0.080863	0.211016762	0.003060603
Worker	LDA	50.0	0.5	0.143306127	0.042683769	0	0	0.0045285	0.10768412	0.159592017	0	0.021192179	0.122461753	0	0.35029931	1.546631	0	0.001252255	0.000323762		0.0036	0.004	0	0.000614	0.000990927		0.00126	0.001	0	0.0005655	0.0009111	0	126.68013	32.749475	0	0.001154545	0.034539145	0	0.002249406	0.015441065
	LDT1	25.0	0.25	0.156677436	0.04332923	0	0	0.0077825	0.12516577	0.145126689	0	0.035722679	0.100614187	0	0.38639431	1.408382	0	0.000820722	0.000217772		0.002307	0.002	0	0.000514	0.000767762		0.000807	0.0005	0	0.0004735	0.000706	0	83.019433	22.02833	0	0.00173807	0.028010471	0	0.002554131	0.009913954
	LDT2	25.0	0.25	0.074138692	0.021036563	0	0	0.00307324	0.05534742	0.101569939	0	0.019062039	0.088569484	0	0.22117686	0.96209	0	0.000860099	0.000220741		0.002219	0.002	0	0.000345	0.000540097		0.000777	0.0005	0	0.0003173	0.0004966	0	87.013301	22.328622	0	0.000769908	0.021709383	0	0.001617133	0.009562758
			1	0.374122256	0.107049562	0	0	0.015382	0.28819731	0.406288645	0	0.075976897	0.311645425	0	0.95807047	3.917103	0	0.002933076	0.000762276	0.299	0.008126	0.008	0	0.001473	0.002298785	0.04499	0.002844	0.002	0	0.0013563	0.0021137	0	296.71286	77.106427	0	0.003662524	0.084258998	0	0.00642067	0.034917777

Adjustment Factors

Vehicle Category	Fuel	Population	Pop Fract	VMT (miles/day)	VMT Fract	Trips/day	Trip Fract
HHDT	GAS	3.45400877	2.69956E-05	114.3092811	0.0001094	69.10780752	0.00054
HHDT	DSL	8235.05861	0.064362977	991289.0051	0.9485014	120860.7913	0.944615
HHDT	ELEC	6.70171019	5.23787E-05	411.5053623	0.0003937	103.2043986	0.000807
HHDT	NG	753.736566	0.005891	53295.9669	0.0509955	6914.033693	0.054038
		8998.9509		1045110.787		127947.1372	
LDA	GAS	601938.315	0.19206191	22370251.09	0.8808827	2795479.204	0.89196
LDA	DSL	1871.12468	0.000597024	56220.79718	0.0022138	8000.531418	0.002553
LDA	ELEC	53751.1479	0.017150508	2268185.318	0.0893153	265250.078	0.084634
LDA	PIH	15805.3202	0.005043042	700610.9132	0.0275882	65354.99917	0.020853
		673365.908		25395268.12		3134084.812	
LDT1	GAS	53782.2529	0.223247606	1744480.187	0.994579	239737.9214	0.995141
LDT1	DSL	26.0471372	0.00010812	391.8698325	0.0002234	75.17736541	0.000312
LDT1	ELEC	194.894071	0.000808996	7068.184366	0.0040298	916.4831754	0.003804
LDT1	PIH	43.2767736	0.00017964	2048.369176	0.0011678	178.9494589	0.000743
		54046.4708		1753988.611		240908.5314	
LDT2	GAS	280180.421	0.21079713	10140966.51	0.9851236	1311795.544	0.986945
LDT2	DSL	978.496696	0.000736184	36936.87393	0.0035882	4673.40093	0.003516
LDT2	ELEC	1105.87891	0.000832021	38931.70292	0.0037819	5663.050709	0.004261
LDT2	PIH	1696.54984	0.00127642	77270.65796	0.0075063	7015.233604	0.005278
		283961.347		10294105.74		1329147.229	
LHDT1	GAS	19180.9619	0.046881935	711085.4725	0.6492922	285767.7523	0.698471
LHDT1	DSL	9807.465	0.023971318	384084.7884	0.3507078	123365.5719	0.301529
		28988.4269	0.070853253	1095170.261		409133.3242	
LHDT2	GAS	2494.38222	0.026675189	90793.03842	0.3393343	37162.5785	0.397421
LHDT2	DSL	4479.53156	0.047904587	176769.2012	0.6606657	56346.87178	0.602579
		6973.91378	0.074579775	267562.2397		93509.45028	
MCY	GAS	27894.4952	0.022129605	164894.5081	1	55788.99047	1
MDV	GAS	153799.111	0.209656025	5358084.151	0.9694571	712433.9369	0.971176
MDV	DSL	2374.91797	0.003237443	86834.44186	0.0157113	11267.05043	0.015359
MDV	ELEC	1130.11541	0.001540552	40073.70084	0.0072507	5799.833494	0.007906
MDV	PIH	986.08952	0.001344218	41899.13712	0.007581	4077.480166	0.005558
		158290.234		5526891.431		733578.301	
MH	GAS	2522.74469	7.243206206	22546.87041	0.706982	252.3753785	0.72461
MH	DSL	959.157809	2.753896511	9344.849437	0.293018	95.91578086	0.27539
		3481.9025		31891.71984		348.2911593	
MHDT	GAS	1418.70283	0.009356561	70785.85764	0.1397588	28385.40626	0.187206
MHDT	DSL	10273.5539	0.067755654	431550.3805	0.8520481	122418.6563	0.80737
MHDT	ELEC	4.74983535	3.13259E-05	101.802183	0.000201	59.6458006	0.000393
MHDT	NG	83.840997	0.000552944	4047.873672	0.0079921	762.8100386	0.005031
		11780.8476		506485.9139		151626.5184	
OBUS	GAS	458.8974	0.025287686	20830.07544	0.2513121	9181.619188	0.505956
OBUS	DSL	870.420888	0.047964818	61645.65846	0.7437468	8910.754707	0.49103
OBUS	NG	6.14560043	0.000338655	409.546615	0.0049411	54.69584387	0.003014
		1335.46389		82885.28051		18147.06974	
SBUS	GAS	166.986694	0.015646312	8309.307836	0.3419275	667.946776	0.062585
SBUS	DSL	667.118492	0.06250764	15392.68347	0.633408	9659.875763	0.905111
SBUS	ELEC	0.30237325	2.83318E-05	3.510494287	0.0001445	4.378364621	0.00041
SBUS	NG	23.50762	0.002202616	595.8705457	0.02452	340.3903371	0.031894
		857.915179		24301.37234		10672.59124	
UBUS	GAS	45.9470881	0.021676301	4798.243635	0.0818022	183.7883525	0.086705
UBUS	DSL	436.6681	0.206005416	48829.71129	0.832467	1746.672398	0.824022
UBUS	ELEC	5.04675694	0.029854597	199.0027319	0.0412042	20.18702775	0.119418
UBUS	NG	42.2611383	0.019937393	4829.672688	0.0823381	169.0445533	0.07975
		529.923083		58656.63034		2119.692332	

Source: EMFAC2021 (v1.0.1) Emission Rates
Region Type: County
Region: Santa Clara
Calendar Year: 2023
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN

Region	Calendar Y	Vehicle Cat	Model Yea	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	Energy Con	NOx_RUNEX	NOx_IDLEX	NOx_STREX	PM2.5_RU	PM2.5_IDL	PM2.5_STR	PM2.5_PM	PM10_RUN	PM10_IDLE	PM10_STR	PM10_PM	PM10_PMI	CO2_RUNEX	CO2_IDLEX	CO2_STREX	CH4_RUNEX	CH4_IDLEX	CH4_STREX	N2O_RUNEX	N2O_IDLEX	N2O_STREX	ROG_RUNI	ROG_IDLEX	ROG_STREX	ROG_HOTS	ROG_RUNI	ROG_DIUR	TOG_RUNEX	TOG_IDLEX	TOG_STREX	TOG_HOTS	TOG_RUNI	TOG_DIUR	NH3_RUNEX	CO_RUNEX	CO_IDLEX	CO_STREX	SOx_RUNE	SOx_IDLEX	SOx_STREX
Santa Clara	2023	HHDT	Aggregate	Aggregate	Gasoline	3.454009	114.3093	114.3093	0	69.10781	0	8.107874	0	1.602501	0.00493	0	0.0017	0.005	0.035266	0.005362	0	0.001849	0.02	0.100759	2306.817	0	49.81185	0.340225	0	0.00018	0.208909	0	0.045697	2.104867	0	0.000979	0.158374	1.426645	10.65375	3.071416	0	0.001072	0.158374	1.426645	10.65375	0.040468	83.0074	0	1.02738	0.022805	0	0.000492
Santa Clara	2023	HHDT	Aggregate	Aggregate	Diesel	8235.059	991289	991289	0	120860.8	0	1.969368	63.40488	2.849455	0.025957	0.031631	0	0.008769	0.027531	0.027131	0.033061	0	0.035077	0.078661	1656.801	12241.32	0	0.000809	0.237446	0	0.26103	1.928625	0	0.017417	5.112156	0	0	0	0	0.019828	5.819801	0	0	0	0	0.214624	0.087393	74.20136	0	0.015689	0.115918	0
Santa Clara	2023	HHDT	Aggregate	Aggregate	Electricity	6.70171	411.5054	0	411.5054	103.2044	754.9233	0	0	0	0	0	0	0.00874	0.013383	0	0	0	0.03496	0.038238	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2023	HHDT	Aggregate	Aggregate	Natural Ga	753.7366	53295.97	53295.97	0	6914.034	0	1.208844	13.92832	0	0.001774	0.024237	0	0.009	0.046729	0.001929	0.02636	0	0.036	0.133512	1398.51	10630.2	0	2.44811	37.44665	0	0.285095	2.167036	0	0.054572	0.572265	0	0	0	0	2.520799	38.25947	0	0	0	0	0.860105	13.78246	74.03965	0	0	0	0
Santa Clara	2023	LDA	Aggregate	Aggregate	Gasoline	601938.3	22370251	22370251	0	2795479	0	0.047412	0	0.27189	0.001217	0	0.001992	0.002	0.002656	0.001323	0	0.002167	0.008	0.007588	282.586	0	71.87767	0.002603	0	0.076449	0.004995	0	0.034134	0.01016	0	0.353794	0.094758	0.240611	1.480552	0.014823	0	0.387359	0.094758	0.240611	1.480552	0.033781	0.787617	0	3.436611	0.002794	0	0.000711
Santa Clara	2023	LDA	Aggregate	Aggregate	Diesel	1871.125	56220.8	56220.8	0	8000.531	0	0.238318	0	0	0.018559	0	0	0.002	0.002698	0.019399	0	0	0.008	0.007709	234.6327	0	0	0.001413	0	0	0.036966	0	0	0.030417	0	0	0	0	0	0.034627	0	0	0	0	0	0.00231	0.342459	0	0	0.002223	0	0
Santa Clara	2023	LDA	Aggregate	Aggregate	Electricity	53751.15	2268185	0	2268185	265250.1	875706.7	0	0	0	0	0	0	0.002	0.001532	0	0	0	0.008	0.004377	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2023	LDA	Aggregate	Aggregate	Plug-in Hyb	15805.32	700610.9	356649.7	343961.3	65355	103886.6	0.00334	0	0.11551	0.000664	0	0.002171	0.002	0.001373	0.000722	0	0.002361	0.008	0.003922	141.9339	0	66.50966	0.000457	0	0.042604	0.000605	0	0.020916	0.001444	0	0.173285	0.040642	0.036088	0.447056	0.002108	0	0.189725	0.040642	0.036088	0.447056	0.019705	0.219019	0	1.339893	0.001403	0	0.000658
Santa Clara	2023	LDT1	Aggregate	Aggregate	Gasoline	53782.25	1744480	1744480	0	239737.9	0	0.143293	0	0.404336	0.00185	0	0.002837	0.002	0.003239	0.002012	0	0.003085	0.008	0.009253	333.6435	0	88.48953	0.006987	0	0.112557	0.010257	0	0.039834	0.031222	0	0.583212	0.174145	0.503091	2.807011	0.045546	0	0.638542	0.174145	0.503091	2.807011	0.035775	1.553409	0	5.660037	0.003298	0	0.000875
Santa Clara	2023	LDT1	Aggregate	Aggregate	Diesel	26.04714	391.8698	391.8698	0	75.17737	0	1.659056	0	0	0.24041	0	0	0.002	0.003728	0.25128	0	0	0.008	0.010651	415.6155	0	0	0.013928	0	0	0.06548	0	0	0.299852	0	0	0	0	0	0.341362	0	0	0	0	0	0.0031	1.601395	0	0	0.003938	0	0
Santa Clara	2023	LDT1	Aggregate	Aggregate	Electricity	194.8941	7068.184	0	7068.184	916.4832	2728.903	0	0	0	0	0	0	0.002	0.00154	0	0	0	0.008	0.0044	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2023	LDT1	Aggregate	Aggregate	Plug-in Hyb	43.27677	2048.369	944.1579	1104.211	178.9495	333.5047	0.003025	0	0.11551	0.000387	0	0.00141	0.002	0.001383	0.000421	0	0.001534	0.008	0.003951	128.5161	0	72.39136	0.000412	0	0.042439	0.000544	0	0.020762	0.001308	0	0.173285	0.024584	0.021781	0.285922	0.001909	0	0.189725	0.024584	0.021781	0.285922	0.019359	0.198314	0	1.339893	0.001271	0	0.000716
Santa Clara	2023	LDT2	Aggregate	Aggregate	Gasoline	280180.4	10140967	10140967	0	1311796	0	0.077207	0	0.358346	0.001265	0	0.002003	0.002	0.003125	0.001375	0	0.002179	0.008	0.008929	351.1382	0	90.07377	0.003121	0	0.087759	0.006381	0	0.038646	0.012417	0	0.410727	0.085119	0.224187	1.404898	0.018118	0	0.449694	0.085119	0.224187	1.404898	0.035545	0.896823	0	3.892097	0.003471	0	0.00089
Santa Clara	2023	LDT2	Aggregate	Aggregate	Diesel	978.4967	36936.87	36936.87	0	4673.401	0	0.046157	0	0	0.005431	0	0	0.002	0.003102	0.005677	0	0	0.008	0.008863	315.6668	0	0	0.00065	0	0	0.049733	0	0	0.013984	0	0	0	0	0	0.015919	0	0	0	0	0	0.0031	0.132099	0	0	0.002991	0	0
Santa Clara	2023	LDT2	Aggregate	Aggregate	Electricity	1105.879	38931.7	0	38931.7	5663.051	15030.85	0	0	0	0	0	0	0.002	0.001525	0	0	0	0.008	0.004357	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2023	LDT2	Aggregate	Aggregate	Plug-in Hyb	1696.55	77270.66	37142.68	40127.98	7015.234	12119.85	0.003154	0	0.11551	0.000504	0	0.001759	0.002	0.001378	0.000548	0	0.001913	0.008	0.003938	134.0231	0	78.93358	0.000429	0	0.042457	0.000568	0	0.020778	0.001364	0	0.173285	0.02624	0.024448	0.318232	0.00199	0	0.189725	0.02624	0.024448	0.318232	0.020144	0.206812	0	1.339893	0.001325	0	0.00078
Santa Clara	2023	LHDT1	Aggregate	Aggregate	Gasoline	19180.96	711085.5	711085.5	0	285767.8	0	0.197814	0.037373	0.6588	0.001595	0	0.000328	0.002	0.0273	0.001734	0	0.000356	0.008	0.078	889.7424	120.2664	25.83956	0.009485	0.115635	0.034516	0.011082	0.003012	0.051891	0.047656	0.428153	0.172233	0.050564	0.277601	2.913784	0.069539	0.62476	0.188574	0.050564	0.277601	2.913784	0.044872	1.225109	3.753425	3.080251	0.008796	0.001189	0.000255
Santa Clara	2023	LHDT1	Aggregate	Aggregate	Diesel	9807.465	384084.8	384084.8	0	123365.6	0	1.780633	2.029274	0	0.038253	0.026974	0	0.003	0.0273	0.039983	0.028193	0	0.012	0.078	635.427	132.908	0	0.008623	0.005098	0	0.100112	0.02094	0	0.185652	0.10976	0	0	0	0	0.211352	0.124954	0	0	0	0	0.16551	0.518876	0.909745	0	0.006021	0.001259	0
Santa Clara	2023	LHDT2	Aggregate	Aggregate	Gasoline	2494.382	90793.04	90793.04	0	37162.58	0	0.187016	0.036817	0.642061	0.001446	0	0.00026	0.002	0.03185	0.001572	0	0.000283	0.008	0.091	997.3845	138.7974	25.72325	0.007074	0.114568	0.033461	0.01097	0.002967	0.050452	0.033047	0.42203	0.165607	0.046993	0.25097	2.676301	0.048222	0.615826	0.181319	0.046993	0.25097	2.676301	0.044967	0.961891	3.759407	3.119312	0.00986	0.001372	0.000254
Santa Clara	2023	LHDT2	Aggregate	Aggregate	Diesel	4479.532	176769.2	176769.2	0	56346.87	0	1.416942	1.998258	0	0.034177	0.027026	0	0.003	0.03185	0.035723	0.028248	0	0.012	0.091	764.5039	212.1206	0	0.007824	0.005098	0	0.120448	0.03342	0	0.168448	0.10976	0	0	0	0	0.191767	0.124954	0	0	0	0	0.178982	0.44054	0.909745	0	0.007244	0.00201	0
Santa Clara	2023	MCY	Aggregate	Aggregate	Gasoline	27894.5	164894.5	164894.5	0	55788.99	0	0.586927	0	0.142374	0.001778	0	0.003413	0.001	0.0042	0.001899	0	0.003626	0.004	0.012	188.3093	0	49.59811	0.167622	0	0.187482	0.040223	0	0.008379	1.105923	0	1.392636	3.5601	3.745685	3.947874	1.324135	0	1.513873	3.5601	3.745685	3.947874	0.00876	13.08956	0	8.051197	0.001862	0	0.00049
Santa Clara	2023	MDV	Aggregate	Aggregate	Gasoline	153799.1	5358084	5358084	0	712433.9	0	0.11759	0	0.470106	0.001289	0	0.002144	0.002	0.003187	0.001402	0	0.002331	0.008	0.009106	426.0995	0	109.7064	0.004406	0	0.110292	0.008479	0	0.043081	0.018826	0	0.559259	0.101975	0.285798	1.72733	0.02744	0	0.612315	0.101975	0.285798	1.72733	0.035428	1.067328	0	4.333252	0.004212	0	0.001085
Santa Clara	2023	MDV	Aggregate	Aggregate	Diesel	2374.918	86834.44	86834.44	0	11267.05	0	0.053096	0	0	0.00515	0	0	0.002	0.003181	0.005383	0	0	0.008	0.00909	413.3141	0	0	0.000529	0	0	0.005118	0	0	0.011397	0	0	0	0	0	0.012975	0	0	0	0	0	0.0031	0.202592	0	0	0.003916	0	0
Santa Clara	2023	MDV	Aggregate	Aggregate	Electricity	1130.115	40073.7	0	40073.7	5799.833	15471.76	0	0	0	0	0	0	0.002	0.001524	0	0	0	0.008	0.004354	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2023	MDV	Aggregate	Aggregate	Plug-in Hyb	986.0895	41899.14	20787.35	21111.79	4077.48	6376.389	0.003256	0	0.11551	0.000638	0	0.002151	0.002	0.001376	0.000693	0	0.002339	0.008	0.00393	138.3296	0	98.37574	0.000441	0	0.042261	0.000581	0	0.020595	0.001408	0	0.173285	0.02985	0.028058	0.359617	0.002054	0	0.189725	0.02985	0.028058	0.359617	0.020837	0.213457	0	1.339893	0.001368	0	0.000973
Santa Clara	2023	MH	Aggregate	Aggregate	Gasoline	2522.745	22546.87	22546.87	0	252.3754	0	0.479133	0	0.412521	0.001781	0	0.000428	0.003	0.015756	0.001937	0	0.000466	0.012	0.045017	1948.243	0	31.87585	0.018146	0	0.038028	0.02809	0	0.042647	0.082252	0	0.163779	13.03985	0.30297	4.773625	0.120022	0	0.179318	13.03985	0.30297	4.773625	0.044742	2.111943	0	3.629376	0.01926	0	0.000315
Santa Clara	2023	MH	Aggregate	Aggregate	Diesel	959.1578	9344.849	9344.849	0	95.91578	0	4.269554	0	0	0.097907	0	0	0.004	0.015675	0.102334	0	0	0.016	0.044785	1081.435	0	0	0.005704	0	0	0.17038	0	0	0.122812	0	0	0	0	0	0.139813	0	0	0	0	0	0.150005	0.410284	0	0	0.010247	0	0
Santa Clara	2023	MHDT	Aggregate	Aggregate	Gasoline	1418.703	70785.86	70785.86	0	28385.41	0	0.562864	0.088304	0.453053	0.001386	0	0.000555	0.003	0.015756	0.001507	0	0.000603	0.012	0.045017	1792.411	536.9661	47.19918	0.018074	0.254589	0.049387	0.026381	0.007064	0.032566	0.09086	1.010025	0.279571	0.037187	0.302385	3.037923	0.132583	1.473826	0.306095	0.037187	0.302385	3.037923	0.04497	1.909686	15.08517	6.156285	0.01772	0.005308	0.000467
Santa Clara	2023	MHDT	Aggregate	Aggregate	Diesel	10273.55	431550.4	431550.4	0	122418.2	0	1.337342	13.57242	1.624162	0.016518	0.035742	0	0.003	0.015941	0.017265	0.037358	0	0.012	0.045546	1151.562	2263.789	0	0.010721	0.012298	0	0.181429	0.356661	0	0.037048	0.26478	0	0	0	0	0.042176	0.301431	0	0	0	0	0.209014	0.132571	7.583386	0	0.010905	0.021437	0
Santa Clara	2023	MHDT	Aggregate	Aggregate	Electricity	4.749835	101.8022	0	101.8022	59.6458	108.685	0	0	0	0	0	0	0.003	0.00799	0	0	0	0.012	0.022828	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2023	MHDT	Aggregate	Aggregate	Natural Ga	83.841	4047.874	4047.874	0	762.81	0	0.141319	6.52743	0	0.001137	0.017647	0	0.003	0.016002	0.001236	0.019193	0	0.012	0.045721	989.385	5296.533	0	0.740055	17.59163	0	0.201693	1.079733	0	0.010574	0.25135	0	0	0	0	0.755281	17.95355	0	0	0	0	1.06	2.992708	33.64344	0	0	0	0
Santa Clara	2023	OBUS	Aggregate	Aggregate	Gasoline	458.8974	20830.08	20830.08	0	9181.619	0	0.553081	0.064991	0.405616	0.000893	0	0.000264	0.003	0.01568	0.000972	0	0.000287	0.012	0.044799	1784.092	381.8461	31.89445	0.015808	0.194938	0.036281	0.026177	0.005253	0.030766	0.078109	0.745234	0.192301	0.034706	0.154035	2.766253	0.113977	1.087444	0.210546	0.034706	0.154035	2.766253	0.044918	1.743956	5.768375	4.071703	0.017638	0.003775	0.000315
Santa Clara	2023	OBUS	Aggregate	Aggregate	Diesel	870.4209	61645.66	61645.66	0	8910.755	0	1.203188	7.410097	1.541404	0.020323	0.008632	0	0.003	0.018018	0.021242	0.009022	0	0.012	0.05148	1282.538	1552.949	0	0.001991	0.020568	0	0.202064	0.244668	0	0.04286	0.442828	0	0	0	0	0.048793	0.504126	0	0	0	0	0.215865	0.153454	7.510858	0	0.012145	0.014706	0
Santa Clara	2023	OBUS	Aggregate	Aggregate	Natural Ga	6.1456	409.5466	409.5466	0	54.69584	0	0.219315	1.549107	0	0.000923	0.00362	0	0.003	0.016148	0.001004	0.003937	0	0.012	0.046137	1017.405	1188.285	0	0.774069	4.381267	0	0.207405	0.24224	0	0.01106	0.0626	0	0	0	0	0.789994	4.471404	0	0	0	0	1.06	3.211954	6.724204	0	0	0	0
Santa Clara	2023	SBUS	Aggregate	Aggregate	Gasoline	166.9867	8309.308	8309.308	0	667.9468	0	0.519317	0.925703	0.7051	0.000862	0	0.000056	0.002	0.015721	0.000937	0	0.000609	0.008	0.044917	815.0909	2602.033	58.66947	0.011871	2.46208	0.074918	0.027733	0.086224	0.064904	0.057744	10.62943	0.427061	0.112221	0.259299	1.591441	0.084259	15.51043	0.467578	0.112221	0.259299	1.591441	0.045	1.469507	82.16746	10.56434	0.008058	0.025724	0.00058
Santa Clara	2023	SBUS	Aggregate	Aggregate	Diesel	667.1185	15392.68	15392.68	0	9659.876	0	4.028015	22.39863	0.467155	0.020908	0.02125	0	0.003	0.015721	0.021853	0.022211	0	0.012	0.044917	1148.524	2237.814	0	0.002748	0.008083	0	0.18095	0.352568	0	0.059161	0.174017	0	0	0	0	0.06735	0.198106	0	0	0	0	0.144154	0.181489	4.581854	0	0.010876	0.021191	0
Santa Clara	2023	SBUS	Aggregate	Aggregate	Electricity	0.302373	3.510494	0	3.510494	4.378365	3.69815	0	0	0	0	0	0	0.003	0.00786	0	0	0	0.012	0.022459	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2023	SBUS	Aggregate	Aggregate	Natural Ga	23.50762	595.8705	595.8705	0	340.3903	0	0.587321	5.282702	0	0.003378	0.011076	0	0.003	0.015721	0.003674	0.012046	0	0.012	0.044917	1271.127	4058.811	0	3.490611	15.40242	0	0.259128	0.827415	0	0.049874	0.22007	0	0	0	0	3.562424	15.7193	0	0	0	0	1.06	11.90284	20.11199	0	0	0	0
Santa Clara	2023	UBUS	Aggregate	Aggregate	Gasoline	45.94709	4798.244	4798.244	0	183.7884	0	0.026807	0	0.443444	0.001143	0	0.000128	0.002	0.03185	0.001243	0	0.00014	0.008	0.091	926.2924	0	36.84613	0.002031	0	0.041715	0.004215	0	0.070149	0.005614	0	0.147842	0.038144	0.09212	0.456803	0.008192	0	0.161868	0.038144	0.09212	0.456803	0.045	0.571128	0	6.073786	0.009157	0	0.000364
Santa Clara	2023	UBUS	Aggregate	Aggregate	Diesel	436.6681	48829.71	48829.71	0	1746.672	0	0.386256	0	0	0.007022	0	0	0.0083	0.0385	0.00734	0	0	0.0332	0.11	1100.965	0	0	0.003215	0	0	0.173457	0	0	0.069208	0	0	0	0	0	0.078788	0	0	0	0	0	0.18785	0.079368	0	0	0.010432	0	0
Santa Clara	2023	UBUS	Aggregate	Aggregate	Electricity	5.046757	199.0027	0	199.0027	20.18703	346.9103	0	0	0	0	0	0	0.009	0.01925	0	0	0	0.036	0.055	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2023	UBUS	Aggregate	Aggregate	Natural Ga	42.26114	4829.673	4829.673	0	169.0446	0	0.05878	0	0	0.000282	0	0	0.008182	0.0385	0.000295	0	0	0.032727	0.11	1299.127	0	0	4.245742	0	0	0.264835	0	0	0.060663	0	0	0	0	0	4.333091	0	0	0	0	0	0.97	49.04231	0	0	0	0	0

P1 Aff R6 - CalEEMod Construction Inputs

Phase	CalEEMod WORKER TRIPS	CalEEMod VENDOR TRIPS	Total Worker Trips	Total Vendor Trips	CalEEMod HAULING TRIPS	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class	*Worker VMT*	*Vendor VMT*	*Hauling VMT*
Demolition	30	0	1470	0	216	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	15876	0	4320
Site Preparation	8	1	112	14	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	1209.6	102.2	0
Grading	48	0	2352	0	2,942	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	25401.6	0	58840
Trenching/Foundation	25	0	3500	0	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	37800	0	0
Building Construction	137	24	47128	8256	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	508982.4	60268.8	0
Paving	13	0	546	0	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	5896.8	0	0
Architectural Coating	27	0	1134	0	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	12247.2	0	0

Number of Days Per Year					
2023	1/1/23	12/31/23	365	313	
2024	1/1/24	12/31/24	366	314	
2025	1/1/25	3/4/25	63	54	
			794	**682**	***Total Workdays***

Phase	Start Date	End Date	Days/Week	Workdays
Demolition	1/1/2023	2/27/2023	6	49
Site Preparation	2/27/2023	3/14/2023	6	14
Grading	3/15/2023	5/10/2023	6	49
Trenching/Foundation	5/12/2023	10/21/2023	6	140
Building Construction	10/22/2023	11/26/2024	6	344
Paving	11/27/2024	1/14/2025	6	42
Architectural Coating	1/15/2025	3/4/2025	6	42

Summary of Construction Traffic Emissions (EMFAC2021)

CATEGORY	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	NBio- CO2	CH4	N2O	CO2e
						Grams								
Hauling	2287.07	143578.77	66661.72	963.60	18884.84	9001.19	27886.03	2841.57	3922.67	6764.23	##########	8680.79	16989.70	#########
Vendor	4018.22	133018.20	65284.51	841.90	18050.93	6504.27	24555.20	2716.09	2892.82	5608.91	91234757.40	5158.88	13433.35	#########
Worker	75464.58	63676.96	802250.73	1824.46	181616.67	10819.16	192435.82	27327.54	3884.98	31212.52	##########	6963.56	5863.85	#########
Total (g)	81769.87	340273.94	934196.95	3629.97	218552.44	26324.61	244877.05	32885.20	10700.47	43585.67	##########	20803.23	36286.89	#########
Total (lbs)	180.27	750.18	2059.55	8.00	481.83	58.04	539.86	72.50	23.59	96.09	842738.40	45.86	80.00	867724.65
Total (tons)	0.09	0.38	1.03	0.00	0.24	0.03	0.27	0.04	0.01	0.05	421.37	0.02	0.04	433.86
Total (MT)											382.26	0.02	0.04	393.59

YEAR														
							Tons							
2023	0.0414	0.1724	0.4734	0.0018	0.1107	0.0133	0.1241	0.0167	0.0054	0.0221	175.7239	0.0096	0.0167	180.9339
2024	0.0415	0.1729	0.4747	0.0018	0.1111	0.0134	0.1244	0.0167	0.0054	0.0221	176.2054	0.0096	0.0167	181.4296
2025	0.0072	0.0298	0.0817	0.0003	0.0191	0.0023	0.0214	0.0029	0.0009	0.0038	30.3304	0.0017	0.0029	31.2297

Category		Mix %	Adj	ROG_DIURN	ROG_HTSK	ROG_IDLEX	ROG_RESTL	ROG_RUNEX	ROG_RUNLS	ROG_STREX	NOX_IDLEX	NOX_RUNEX	NOX_STREX	CO_IDLEX	CO_RUNEX	CO_STREX	SO2_IDLEX	SO2_RUNEX	SO2_STREX	Road Dust PM10	PM10_PM BW	PM10_PM TW	PM10_IDLEX	PM10_RUNEX	PM10_STREX	Road Dust PM25	PM25_PM BW	PM25_PM TW	PM25_IDLEX	PM25_RUNEX	PM25_STREX	CO2_NBIO_IDLEX	CO2_NBIO_RUNEX	CO2_NBIO_STREX	CH4_IDLEX	CH4_RUNEX	CH4_STREX	N2O_IDLEX	N2O_RUNEX	N2O_STREX
																														19	22	23	8	9	10						
Hauling	HHDT	100.0	1	0.000287604	8.55424E-05	0.332404817	0	0.01953334	0.00077057	5.28839E-07	4.1629787	1.930480649	2.692504026	5.211988	0.79481483	0.000555	0.00746083	0.01488345	2.65981E-07		0.081444	0.035123	0.002283	0.025833	9.98684E-07		0.028506	0.008781	0.002179	0.0247116	9.183E-07	850.51039	1643.0479	0.0269048	0.235881	0.125647179	9.74075E-08	0.136898	0.262148415	2.46823E-05
	MHD	0.0	0	0.028424515	0.006961572	0.027529656	0	0.04434978	0.05660825	0.052337336	0.9240436	1.219274528	1.396113281	0.673566	0.40377012	1.152494	0.00150213	0.011767743	8.73526E-05	0.299	0.045469	0.012	0.002542	0.014931	0.000112942	0.04499	0.015914	0.003	0.002431	0.0142769	0.0001038	161.33734	1239.5984	8.8359741	0.012943	0.009906777	0.009245497	0.024829	0.159885109	0.006096523
Vendor	HHDT	50.0	0.5	0.000143802	4.27712E-05	0.166202408	0	0.00976667	0.00038529	2.6442E-07	2.0814893	0.965240325	1.346252013	2.605994	0.39740742	0.000277	0.00373041	0.007441725	1.32991E-07		0.040722	0.017561	0.001142	0.012916	4.99342E-07		0.014253	0.00439	0.001089	0.0123558	4.591E-07	425.2552	821.52395	0.0134524	0.11794	0.06282359	4.87037E-08	0.068449	0.131074208	1.23411E-05
	MHD	50.0	0.5	0.014212257	0.003480786	0.013764828	0	0.02217489	0.02830413	0.026168668	0.4620218	0.609637264	0.698056641	0.336783	0.20188506	0.576247	0.00075106	0.005883871	4.36763E-05		0.022735	0.006	0.001271	0.007465	5.64711E-05		0.007957	0.0015	0.001216	0.0071384	5.192E-05	80.66867	619.79918	4.417987	0.006471	0.004953388	0.004622749	0.012414	0.079942554	0.003048262
		1	0.01435606	0.003523557	0.179967236	0	0.03194156	0.02868941	0.026168932	2.5435111	1.574877589	2.044308654	2.942777	0.59929248	0.576524	0.00448148	0.013325596	4.38093E-05	0.299	0.063457	0.023561	0.002413	0.020382	5.69705E-05	0.04499	0.02221	0.00589	0.002305	0.0194942	5.238E-05	505.92387	1441.3231	4.4314394	0.124412	0.067776978	0.004622797	0.080863	0.211016762	0.003060603
Worker	LDA	50.0	0.5	0.143306127	0.042683769	0	0	0.0045285	0.10768412	0.159592017	0	0.021192179	0.122461753	0	0.35029931	1.546631	0	0.001252255	0.000323762		0.0036	0.004	0	0.000614	0.000990927		0.00126	0.001	0	0.0005655	0.0009111	0	126.68013	32.749475	0	0.001154545	0.034539145	0	0.002249406	0.015441065
	LDT1	25.0	0.25	0.156677436	0.04332923	0	0	0.0077825	0.12516577	0.145126689	0	0.035722679	0.100614187	0	0.38639431	1.408382	0	0.000820722	0.000217772		0.002307	0.002	0	0.000514	0.000767762		0.000807	0.0005	0	0.0004735	0.000706	0	83.019433	22.02833	0	0.00173807	0.028010471	0	0.002554131	0.009913954
	LDT2	25.0	0.25	0.074138692	0.021036563	0	0	0.00307324	0.05534742	0.101569939	0	0.019062039	0.088569484	0	0.22117686	0.96209	0	0.000860099	0.000220741		0.002219	0.002	0	0.000345	0.000540097		0.000777	0.0005	0	0.0003173	0.0004966	0	87.013301	22.328622	0	0.000769908	0.021709383	0	0.001617133	0.009562758
			1	0.374122256	0.107049562	0	0	0.015382	0.28819731	0.406288645	0	0.075976897	0.311645425	0	0.95807047	3.917103	0	0.002933076	0.000762276	0.299	0.008126	0.008	0	0.001473	0.002298785	0.04499	0.002844	0.002	0	0.0013563	0.0021137	0	296.71286	77.106427	0	0.003662524	0.084258998	0	0.00642067	0.034917777

Adjustment Factors

Vehicle Category	Fuel	Population	Pop Fract	VMT (miles/day)	VMT Fract	Trips/day	Trip Fract
HHDT	GAS	3.45400877	2.69956E-05	114.3092811	0.0001094	69.10780752	0.00054
HHDT	DSL	8235.05861	0.064362977	991289.0051	0.9485014	120860.7913	0.944615
HHDT	ELEC	6.70171019	5.23787E-05	411.5053623	0.0003937	103.2043986	0.000807
HHDT	NG	753.736566	0.005891	53295.9669	0.0509955	6914.033693	0.054038
		8998.9509		1045110.787		127947.1372	
LDA	GAS	601938.315	0.19206191	22370251.09	0.8808827	2795479.204	0.89196
LDA	DSL	1871.12468	0.000597024	56220.79718	0.0022138	8000.531418	0.002553
LDA	ELEC	53751.1479	0.017150508	2268185.318	0.0893153	265250.078	0.084634
LDA	PIH	15805.3202	0.005043042	700610.9132	0.0275882	65354.99917	0.020853
		673365.908		25395268.12		3134084.812	
LDT1	GAS	53782.2529	0.223247606	1744480.187	0.994579	239737.9214	0.995141
LDT1	DSL	26.0471372	0.00010812	391.8698325	0.0002234	75.17736541	0.000312
LDT1	ELEC	194.894071	0.000808996	7068.184366	0.0040298	916.4831754	0.003804
LDT1	PIH	43.2767736	0.00017964	2048.369176	0.0011678	178.9494589	0.000743
		54046.4708		1753988.611		240908.5314	
LDT2	GAS	280180.421	0.21079713	10140966.51	0.9851236	1311795.544	0.986945
LDT2	DSL	978.496696	0.000736184	36936.87393	0.0035882	4673.40093	0.003516
LDT2	ELEC	1105.87891	0.000832021	38931.70292	0.0037819	5663.050709	0.004261
LDT2	PIH	1696.54984	0.00127642	77270.65796	0.0075063	7015.233604	0.005278
		283961.347		10294105.74		1329147.229	
LHDT1	GAS	19180.9619	0.046881935	711085.4725	0.6492922	285767.7523	0.698471
LHDT1	DSL	9807.465	0.023971318	384084.7884	0.3507078	123365.5719	0.301529
		28988.4269	0.070853253	1095170.261		409133.3242	
LHDT2	GAS	2494.38222	0.026675189	90793.03842	0.3393343	37162.5785	0.397421
LHDT2	DSL	4479.53156	0.047904587	176769.2012	0.6606657	56346.87178	0.602579
		6973.91378	0.074579775	267562.2397		93509.45028	
MCY	GAS	27894.4952	0.022129605	164894.5081	1	55788.99047	1
MDV	GAS	153799.111	0.209656025	5358084.151	0.9694571	712433.9369	0.971176
MDV	DSL	2374.91797	0.003237443	86834.44186	0.0157113	11267.05043	0.015359
MDV	ELEC	1130.11541	0.001540552	40073.70084	0.0072507	5799.833494	0.007906
MDV	PIH	986.08952	0.001344218	41899.13712	0.007581	4077.480166	0.005558
		158290.234		5526891.431		733578.301	
MH	GAS	2522.74469	7.243206206	22546.87041	0.706982	252.3753785	0.72461
MH	DSL	959.157809	2.753896511	9344.849437	0.293018	95.91578086	0.27539
		3481.9025		31891.71984		348.2911593	
MHDT	GAS	1418.70283	0.009356561	70785.85764	0.1397588	28385.40626	0.187206
MHDT	DSL	10273.5539	0.067755654	431550.3805	0.8520481	122418.6563	0.80737
MHDT	ELEC	4.74983535	3.13259E-05	101.802183	0.000201	59.6458006	0.000393
MHDT	NG	83.840997	0.000552944	4047.873672	0.0079921	762.8100386	0.005031
		11780.8476		506485.9139		151626.5184	
OBUS	GAS	458.8974	0.025287686	20830.07544	0.2513121	9181.619188	0.505956
OBUS	DSL	870.420888	0.047964818	61645.65846	0.7437468	8910.754707	0.49103
OBUS	NG	6.14560043	0.000338655	409.546615	0.0049411	54.69584387	0.003014
		1335.46389		82885.28051		18147.06974	
SBUS	GAS	166.986694	0.015646312	8309.307836	0.3419275	667.946776	0.062585
SBUS	DSL	667.118492	0.06250764	15392.68347	0.633408	9659.875763	0.905111
SBUS	ELEC	0.30237325	2.83318E-05	3.510494287	0.0001445	4.378364621	0.00041
SBUS	NG	23.50762	0.002202616	595.8705457	0.02452	340.3903371	0.031894
		857.915179		24301.37234		10672.59124	
UBUS	GAS	45.9470881	0.021676301	4798.243635	0.0818022	183.7883525	0.086705
UBUS	DSL	436.6681	0.206005416	48829.71129	0.832467	1746.672398	0.824022
UBUS	ELEC	5.04675694	0.029854597	199.0027319	0.0412042	20.18702775	0.119418
UBUS	NG	42.2611383	0.019937393	4829.672688	0.0823381	169.0445533	0.07975
		529.923083		58656.63034		2119.692332	

Source: EMFAC2021 (v1.0.1) Emission Rates
Region Type: County
Region: Santa Clara
Calendar Year: 2023
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN

Region	Calendar Y	Vehicle Cat	Model Yea	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	Energy Con	NOx_RUNEX	NOx_IDLEX	NOx_STREX	PM2.5_RU	PM2.5_IDL	PM2.5_STR	PM2.5_PM	PM10_RUN	PM10_IDLE	PM10_STR	PM10_PM	PM10_PMI	CO2_RUNEX	CO2_IDLEX	CO2_STREX	CH4_RUNEX	CH4_IDLEX	CH4_STREX	N2O_RUNEX	N2O_IDLEX	N2O_STREX	ROG_RUNI	ROG_IDLEX	ROG_STREX	ROG_HOTS	ROG_RUNI	ROG_DIUR	TOG_RUNEX	TOG_IDLEX	TOG_STREX	TOG_HOTS	TOG_RUNI	TOG_DIUR	NH3_RUNEX	CO_RUNEX	CO_IDLEX	CO_STREX	SOx_RUNE	SOx_IDLEX	SOx_STREX
Santa Clara	2023	HHDT	Aggregate	Aggregate	Gasoline	3.454009	114.3093	114.3093	0	69.10781	0	8.107874	0	1.602501	0.00493	0	0.0017	0.005	0.035266	0.005362	0	0.001849	0.02	0.100759	2306.817	0	49.81185	0.340225	0	0.00018	0.208909	0	0.045697	2.104867	0	0.000979	0.158374	1.426645	10.65375	3.071416	0	0.001072	0.158374	1.426645	10.65375	0.040468	83.0074	0	1.02738	0.022805	0	0.000492
Santa Clara	2023	HHDT	Aggregate	Aggregate	Diesel	8235.059	991289	991289	0	120860.8	0	1.969368	63.40488	2.849455	0.025957	0.031631	0	0.008769	0.027531	0.027131	0.033061	0	0.035077	0.078661	1656.801	12241.32	0	0.000809	0.237446	0	0.26103	1.928625	0	0.017417	5.112156	0	0	0	0	0.019828	5.819801	0	0	0	0	0.214624	0.087393	74.20136	0	0.015689	0.115918	0
Santa Clara	2023	HHDT	Aggregate	Aggregate	Electricity	6.70171	411.5054	0	411.5054	103.2044	754.9233	0	0	0	0	0	0	0.00874	0.013383	0	0	0	0.03496	0.038238	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2023	HHDT	Aggregate	Aggregate	Natural Ga	753.7366	53295.97	53295.97	0	6914.034	0	1.208844	13.92832	0	0.001774	0.024237	0	0.009	0.046729	0.001929	0.02636	0	0.036	0.133512	1398.51	10630.2	0	2.44811	37.44665	0	0.285095	2.167036	0	0.054572	0.572265	0	0	0	0	2.520799	38.25947	0	0	0	0	0.860105	13.78246	74.03965	0	0	0	0
Santa Clara	2023	LDA	Aggregate	Aggregate	Gasoline	601938.3	22370251	22370251	0	2795479	0	0.047412	0	0.27189	0.001217	0	0.001992	0.002	0.002656	0.001323	0	0.002167	0.008	0.007588	282.586	0	71.87767	0.002603	0	0.076449	0.004995	0	0.034134	0.01016	0	0.353794	0.094758	0.240611	1.480552	0.014823	0	0.387359	0.094758	0.240611	1.480552	0.033781	0.787617	0	3.436611	0.002794	0	0.000711
Santa Clara	2023	LDA	Aggregate	Aggregate	Diesel	1871.125	56220.8	56220.8	0	8000.531	0	0.238318	0	0	0.018559	0	0	0.002	0.002698	0.019399	0	0	0.008	0.007709	234.6327	0	0	0.001413	0	0	0.036966	0	0	0.030417	0	0	0	0	0	0.034627	0	0	0	0	0	0.00231	0.342459	0	0	0.002223	0	0
Santa Clara	2023	LDA	Aggregate	Aggregate	Electricity	53751.15	2268185	0	2268185	265250.1	875706.7	0	0	0	0	0	0	0.002	0.001532	0	0	0	0.008	0.004377	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2023	LDA	Aggregate	Aggregate	Plug-in Hyb	15805.32	700610.9	356649.7	343961.3	65355	103886.6	0.00334	0	0.11551	0.000664	0	0.002171	0.002	0.001373	0.000722	0	0.002361	0.008	0.003922	141.9339	0	66.50966	0.000457	0	0.042604	0.000605	0	0.020916	0.001444	0	0.173285	0.040642	0.036088	0.447056	0.002108	0	0.189725	0.040642	0.036088	0.447056	0.019705	0.219019	0	1.339893	0.001403	0	0.000658
Santa Clara	2023	LDT1	Aggregate	Aggregate	Gasoline	53782.25	1744480	1744480	0	239737.9	0	0.143293	0	0.404336	0.00185	0	0.002837	0.002	0.003239	0.002012	0	0.003085	0.008	0.009253	333.6435	0	88.48953	0.006987	0	0.112557	0.010257	0	0.039834	0.031222	0	0.583212	0.174145	0.503091	2.807011	0.045546	0	0.638542	0.174145	0.503091	2.807011	0.035775	1.553409	0	5.660037	0.003298	0	0.000875
Santa Clara	2023	LDT1	Aggregate	Aggregate	Diesel	26.04714	391.8698	391.8698	0	75.17737	0	1.659056	0	0	0.24041	0	0	0.002	0.003728	0.25128	0	0	0.008	0.010651	415.6155	0	0	0.013928	0	0	0.06548	0	0	0.299852	0	0	0	0	0	0.341362	0	0	0	0	0	0.0031	1.601395	0	0	0.003938	0	0
Santa Clara	2023	LDT1	Aggregate	Aggregate	Electricity	194.8941	7068.184	0	7068.184	916.4832	2728.903	0	0	0	0	0	0	0.002	0.00154	0	0	0	0.008	0.0044	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2023	LDT1	Aggregate	Aggregate	Plug-in Hyb	43.27677	2048.369	944.1579	1104.211	178.9495	333.5047	0.003025	0	0.11551	0.000387	0	0.00141	0.002	0.001383	0.000421	0	0.001534	0.008	0.003951	128.5161	0	72.39136	0.000412	0	0.042439	0.000544	0	0.020762	0.001308	0	0.173285	0.024584	0.021781	0.285922	0.001909	0	0.189725	0.024584	0.021781	0.285922	0.019359	0.198314	0	1.339893	0.001271	0	0.000716
Santa Clara	2023	LDT2	Aggregate	Aggregate	Gasoline	280180.4	10140967	10140967	0	1311796	0	0.077207	0	0.358346	0.001265	0	0.002003	0.002	0.003125	0.001375	0	0.002179	0.008	0.008929	351.1382	0	90.07377	0.003121	0	0.087759	0.006381	0	0.038646	0.012417	0	0.410727	0.085119	0.224187	1.404898	0.018118	0	0.449694	0.085119	0.224187	1.404898	0.035545	0.896823	0	3.892097	0.003471	0	0.00089
Santa Clara	2023	LDT2	Aggregate	Aggregate	Diesel	978.4967	36936.87	36936.87	0	4673.401	0	0.046157	0	0	0.005431	0	0	0.002	0.003102	0.005677	0	0	0.008	0.008863	315.6668	0	0	0.00065	0	0	0.049733	0	0	0.013984	0	0	0	0	0	0.015919	0	0	0	0	0	0.0031	0.132099	0	0	0.002991	0	0
Santa Clara	2023	LDT2	Aggregate	Aggregate	Electricity	1105.879	38931.7	0	38931.7	5663.051	15030.85	0	0	0	0	0	0	0.002	0.001525	0	0	0	0.008	0.004357	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2023	LDT2	Aggregate	Aggregate	Plug-in Hyb	1696.55	77270.66	37142.68	40127.98	7015.234	12119.85	0.003154	0	0.11551	0.000504	0	0.001759	0.002	0.001378	0.000548	0	0.001913	0.008	0.003938	134.0231	0	78.93358	0.000429	0	0.042457	0.000568	0	0.020778	0.001364	0	0.173285	0.02624	0.024448	0.318232	0.00199	0	0.189725	0.02624	0.024448	0.318232	0.020144	0.206812	0	1.339893	0.001325	0	0.00078
Santa Clara	2023	LHDT1	Aggregate	Aggregate	Gasoline	19180.96	711085.5	711085.5	0	285767.8	0	0.197814	0.037373	0.6588	0.001595	0	0.000328	0.002	0.0273	0.001734	0	0.000356	0.008	0.078	889.7424	120.2664	25.83956	0.009485	0.115635	0.034516	0.011082	0.003012	0.051891	0.047656	0.428153	0.172233	0.050564	0.277601	2.913784	0.069539	0.62476	0.188574	0.050564	0.277601	2.913784	0.044872	1.225109	3.753425	3.080251	0.008796	0.001189	0.000255
Santa Clara	2023	LHDT1	Aggregate	Aggregate	Diesel	9807.465	384084.8	384084.8	0	123365.6	0	1.780633	2.029274	0	0.038253	0.026974	0	0.003	0.0273	0.039983	0.028193	0	0.012	0.078	635.427	132.908	0	0.008623	0.005098	0	0.100112	0.02094	0	0.185652	0.10976	0	0	0	0	0.211352	0.124954	0	0	0	0	0.16551	0.518876	0.909745	0	0.006021	0.001259	0
Santa Clara	2023	LHDT2	Aggregate	Aggregate	Gasoline	2494.382	90793.04	90793.04	0	37162.58	0	0.187016	0.036817	0.642061	0.001446	0	0.00026	0.002	0.03185	0.001572	0	0.000283	0.008	0.091	997.3845	138.7974	25.72325	0.007074	0.114568	0.033461	0.01097	0.002967	0.050452	0.033047	0.42203	0.165607	0.046993	0.25097	2.676301	0.048222	0.615826	0.181319	0.046993	0.25097	2.676301	0.044967	0.961891	3.759407	3.119312	0.00986	0.001372	0.000254
Santa Clara	2023	LHDT2	Aggregate	Aggregate	Diesel	4479.532	176769.2	176769.2	0	56346.87	0	1.416942	1.998258	0	0.034177	0.027026	0	0.003	0.03185	0.035723	0.028248	0	0.012	0.091	764.5039	212.1206	0	0.007824	0.005098	0	0.120448	0.03342	0	0.168448	0.10976	0	0	0	0	0.191767	0.124954	0	0	0	0	0.178982	0.44054	0.909745	0	0.007244	0.00201	0
Santa Clara	2023	MCY	Aggregate	Aggregate	Gasoline	27894.5	164894.5	164894.5	0	55788.99	0	0.586927	0	0.142374	0.001778	0	0.003413	0.001	0.0042	0.001899	0	0.003626	0.004	0.012	188.3093	0	49.59811	0.167622	0	0.187482	0.040223	0	0.008379	1.105923	0	1.392636	3.5601	3.745685	3.947874	1.324135	0	1.513873	3.5601	3.745685	3.947874	0.00876	13.08956	0	8.051197	0.001862	0	0.00049
Santa Clara	2023	MDV	Aggregate	Aggregate	Gasoline	153799.1	5358084	5358084	0	712433.9	0	0.11759	0	0.470106	0.001289	0	0.002144	0.002	0.003187	0.001402	0	0.002331	0.008	0.009106	426.0995	0	109.7064	0.004406	0	0.110292	0.008479	0	0.043081	0.018826	0	0.559259	0.101975	0.285798	1.72733	0.02744	0	0.612315	0.101975	0.285798	1.72733	0.035428	1.067328	0	4.333252	0.004212	0	0.001085
Santa Clara	2023	MDV	Aggregate	Aggregate	Diesel	2374.918	86834.44	86834.44	0	11267.05	0	0.053096	0	0	0.00515	0	0	0.002	0.003181	0.005383	0	0	0.008	0.00909	413.3141	0	0	0.000529	0	0	0.005118	0	0	0.011397	0	0	0	0	0	0.012975	0	0	0	0	0	0.0031	0.202592	0	0	0.003916	0	0
Santa Clara	2023	MDV	Aggregate	Aggregate	Electricity	1130.115	40073.7	0	40073.7	5799.833	15471.76	0	0	0	0	0	0	0.002	0.001524	0	0	0	0.008	0.004354	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2023	MDV	Aggregate	Aggregate	Plug-in Hyb	986.0895	41899.14	20787.35	21111.79	4077.48	6376.389	0.003256	0	0.11551	0.000638	0	0.002151	0.002	0.001376	0.000693	0	0.002339	0.008	0.00393	138.3296	0	98.37574	0.000441	0	0.042261	0.000581	0	0.020595	0.001408	0	0.173285	0.02985	0.028058	0.359617	0.002054	0	0.189725	0.02985	0.028058	0.359617	0.020837	0.213457	0	1.339893	0.001368	0	0.000973
Santa Clara	2023	MH	Aggregate	Aggregate	Gasoline	2522.745	22546.87	22546.87	0	252.3754	0	0.479133	0	0.412521	0.001781	0	0.000428	0.003	0.015756	0.001937	0	0.000466	0.012	0.045017	1948.243	0	31.87585	0.018146	0	0.038028	0.02809	0	0.042647	0.082252	0	0.163779	13.03985	0.30297	4.773625	0.120022	0	0.179318	13.03985	0.30297	4.773625	0.044742	2.111943	0	3.629376	0.01926	0	0.000315
Santa Clara	2023	MH	Aggregate	Aggregate	Diesel	959.1578	9344.849	9344.849	0	95.91578	0	4.269554	0	0	0.097907	0	0	0.004	0.015675	0.102334	0	0	0.016	0.044785	1081.435	0	0	0.005704	0	0	0.17038	0	0	0.122812	0	0	0	0	0	0.139813	0	0	0	0	0	0.150005	0.410284	0	0	0.010247	0	0
Santa Clara	2023	MHDT	Aggregate	Aggregate	Gasoline	1418.703	70785.86	70785.86	0	28385.41	0	0.562864	0.088304	0.453053	0.001386	0	0.000555	0.003	0.015756	0.001507	0	0.000603	0.012	0.045017	1792.411	536.9661	47.19918	0.018074	0.254589	0.049387	0.026381	0.007064	0.032566	0.09086	1.010025	0.279571	0.037187	0.302385	3.037923	0.132583	1.473826	0.306095	0.037187	0.302385	3.037923	0.04497	1.909686	15.08517	6.156285	0.01772	0.005308	0.000467
Santa Clara	2023	MHDT	Aggregate	Aggregate	Diesel	10273.55	431550.4	431550.4	0	122418.2	0	1.337342	13.57242	1.624162	0.016518	0.035742	0	0.003	0.015941	0.017265	0.037358	0	0.012	0.045546	1151.562	2263.789	0	0.010721	0.012298	0	0.181429	0.356661	0	0.037048	0.26478	0	0	0	0	0.042176	0.301431	0	0	0	0	0.209014	0.132571	7.583386	0	0.010905	0.021437	0
Santa Clara	2023	MHDT	Aggregate	Aggregate	Electricity	4.749835	101.8022	0	101.8022	59.6458	108.685	0	0	0	0	0	0	0.003	0.00799	0	0	0	0.012	0.022828	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2023	MHDT	Aggregate	Aggregate	Natural Ga	83.841	4047.874	4047.874	0	762.81	0	0.141319	6.52743	0	0.001137	0.017647	0	0.003	0.016002	0.001236	0.019193	0	0.012	0.045721	989.385	5296.533	0	0.740055	17.59163	0	0.201693	1.079733	0	0.010574	0.25135	0	0	0	0	0.755281	17.95355	0	0	0	0	1.06	2.992708	33.64344	0	0	0	0
Santa Clara	2023	OBUS	Aggregate	Aggregate	Gasoline	458.8974	20830.08	20830.08	0	9181.619	0	0.553081	0.064991	0.405616	0.000893	0	0.000264	0.003	0.01568	0.000972	0	0.000287	0.012	0.044799	1784.092	381.8461	31.89445	0.015808	0.194938	0.036281	0.026177	0.005253	0.030766	0.078109	0.745234	0.192301	0.034706	0.154035	2.766253	0.113977	1.087444	0.210546	0.034706	0.154035	2.766253	0.044918	1.743956	5.768375	4.071703	0.017638	0.003775	0.000315
Santa Clara	2023	OBUS	Aggregate	Aggregate	Diesel	870.4209	61645.66	61645.66	0	8910.755	0	1.203188	7.410097	1.541404	0.020323	0.008632	0	0.003	0.018018	0.021242	0.009022	0	0.012	0.05148	1282.538	1552.949	0	0.001991	0.020568	0	0.202064	0.244668	0	0.04286	0.442828	0	0	0	0	0.048793	0.504126	0	0	0	0	0.215865	0.153454	7.510858	0	0.012145	0.014706	0
Santa Clara	2023	OBUS	Aggregate	Aggregate	Natural Ga	6.1456	409.5466	409.5466	0	54.69584	0	0.219315	1.549107	0	0.000923	0.00362	0	0.003	0.016148	0.001004	0.003937	0	0.012	0.046137	1017.405	1188.285	0	0.774069	4.381267	0	0.207405	0.24224	0	0.01106	0.0626	0	0	0	0	0.789994	4.471404	0	0	0	0	1.06	3.211954	6.724204	0	0	0	0
Santa Clara	2023	SBUS	Aggregate	Aggregate	Gasoline	166.9867	8309.308	8309.308	0	667.9468	0	0.519317	0.925703	0.7051	0.000862	0	0.000056	0.002	0.015721	0.000937	0	0.000609	0.008	0.044917	815.0909	2602.033	58.66947	0.011871	2.46208	0.074918	0.027733	0.086224	0.064904	0.057744	10.62943	0.427061	0.112221	0.259299	1.591441	0.084259	15.51043	0.467578	0.112221	0.259299	1.591441	0.045	1.469507	82.16746	10.56434	0.008058	0.025724	0.00058
Santa Clara	2023	SBUS	Aggregate	Aggregate	Diesel	667.1185	15392.68	15392.68	0	9659.876	0	4.028015	22.39863	0.467155	0.020908	0.02125	0	0.003	0.015721	0.021853	0.022211	0	0.012	0.044917	1148.524	2237.814	0	0.002748	0.008083	0	0.18095	0.352568	0	0.059161	0.174017	0	0	0	0	0.06735	0.198106	0	0	0	0	0.144154	0.181489	4.581854	0	0.010876	0.021191	0
Santa Clara	2023	SBUS	Aggregate	Aggregate	Electricity	0.302373	3.510494	0	3.510494	4.378365	3.69815	0	0	0	0	0	0	0.003	0.00786	0	0	0	0.012	0.022459	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2023	SBUS	Aggregate	Aggregate	Natural Ga	23.50762	595.8705	595.8705	0	340.3903	0	0.587321	5.282702	0	0.003378	0.011076	0	0.003	0.015721	0.003674	0.012046	0	0.012	0.044917	1271.127	4058.811	0	3.490611	15.40242	0	0.259128	0.827415	0	0.049874	0.22007	0	0	0	0	3.562424	15.7193	0	0	0	0	1.06	11.90284	20.11199	0	0	0	0
Santa Clara	2023	UBUS	Aggregate	Aggregate	Gasoline	45.94709	4798.244	4798.244	0	183.7884	0	0.026807	0	0.443444	0.001143	0	0.000128	0.002	0.03185	0.001243	0	0.00014	0.008	0.091	926.2924	0	36.84613	0.002031	0	0.041715	0.004215	0	0.070149	0.005614	0	0.147842	0.038144	0.09212	0.456803	0.008192	0	0.161868	0.038144	0.09212	0.456803	0.045	0.571128	0	6.073786	0.009157	0	0.000364
Santa Clara	2023	UBUS	Aggregate	Aggregate	Diesel	436.6681	48829.71	48829.71	0	1746.672	0	0.386256	0	0	0.007022	0	0	0.0083	0.0385	0.00734	0	0	0.0332	0.11	1100.965	0	0	0.003215	0	0	0.173457	0	0	0.069208	0	0	0	0	0	0.078788	0	0	0	0	0	0.18785	0.079368	0	0	0.010432	0	0
Santa Clara	2023	UBUS	Aggregate	Aggregate	Electricity	5.046757	199.0027	0	199.0027	20.18703	346.9103	0	0	0	0	0	0	0.009	0.01925	0	0	0	0.036	0.055	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2023	UBUS	Aggregate	Aggregate	Natural Ga	42.26114	4829.673	4829.673	0	169.0446	0	0.05878	0	0	0.000282	0	0	0.008182	0.0385	0.000295	0	0	0.032727	0.11	1299.127	0	0	4.245742	0	0	0.264835	0	0	0.060663	0	0	0	0	0	4.333091	0	0	0	0	0	0.97	49.04231	0	0	0	0	0

P1 Infra - CalEEMod Construction Inputs

Phase	CalEEMod WORKER TRIPS	CalEEMod VENDOR TRIPS	Total Worker Trips	Total Vendor Trips	CalEEMod HAULING TRIPS	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class	*Worker VMT*	*Vendor VMT*	*Hauling VMT*
Infrastructure	25	1	3400	136	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	36720	992.8	0

Number of Days Per Year					
2024	10/31/24	12/31/24	62	54	
2025	1/1/25	4/7/25	97	84	
			159	**137**	***Total Workdays***

Phase	Start Date	End Date	Days/Week	Workdays
Infrastructure	10/31/2024	4/7/2025	6	136

Summary of Construction Traffic Emissions (EMFAC2021)

CATEGORY	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	NBio- CO2	CH4	N2O	CO2e
						Grams								
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
Vendor	61.40	2092.94	1028.54	13.66	296.85	105.68	402.52	44.67	46.41	91.07	1480984.96	82.54	217.87	#########
Worker	4271.76	3479.31	45002.94	107.93	10979.28	650.38	11629.66	1652.03	231.86	1883.89	10917913.23	389.44	332.51	#########
Total (g)	4333.16	5572.26	46031.48	121.58	11276.13	756.06	12032.18	1696.70	278.27	1974.97	12398898.20	471.99	550.39	#########
Total (lbs)	9.55	12.28	101.48	0.27	24.86	1.67	26.53	3.74	0.61	4.35	27334.89	1.04	1.21	27722.50
Total (tons)	0.00	0.01	0.05	0.00	0.01	0.00	0.01	0.00	0.00	0.00	13.67	0.00	0.00	13.86
Total (MT)											12.40	0.00	0.00	12.57

YEAR	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	NBio- CO2	CH4	N2O	CO2e
							Tons							
2024	0.0019	0.0024	0.0198	0.0001	0.0048	0.0003	0.0052	0.0007	0.0001	0.0008	4.8348	0.0002	0.0002	4.9033
2025	0.0029	0.0037	0.0310	0.0001	0.0076	0.0005	0.0081	0.0011	0.0002	0.0013	7.5641	0.0003	0.0003	7.6714

		Mix %	Adj	ROG_DIURN	ROG_HTSK	ROG_IDLEX	ROG_RESTL	ROG_RUNEX	ROG_RUNLS	ROG_STREX	NOX_IDLEX	NOX_RUNEX	NOX_STREX	CO_IDLEX	CO_RUNEX	CO_STREX	SO2_IDLEX	SO2_RUNEX	SO2_STREX	Road Dust PM10	PM10_PM BW	PM10_PM TW	PM10_IDLEX	PM10_RUNEX	PM10_STREX	Road Dust PM25	PM25_PM BW	PM25_PM TW	PM25_IDLEX	PM25_RUNEX	PM25_STREX	CO2_NBIO_IDLEX	CO2_NBIO_RUNEX	CO2_NBIO_STREX	CH4_IDLEX	CH4_RUNEX	CH4_STREX	N2O_IDLEX	N2O_RUNEX	N2O_STREX
Category																														19	22	23	8	9	10						
Hauling	HHDT	100.0	1	0.000195977	5.82846E-05	0.329789936	0	0.01860554	0.00052501	4.36152E-07	4.1112137	1.850604526	2.731408381	5.19556	0.77488683	0.000626	0.00728035	0.014635772	1.93499E-07		0.081298	0.035125	0.002182	0.025474	6.09682E-07		0.028454	0.008781	0.002082	0.0243688	5.606E-07	832.31669	1617.1297	0.019573	0.232934	0.121678903	8.02769E-08	0.134072	0.258076714	1.94763E-05
	MHD	0.0	0	0.025794994	0.006259754	0.026359118	0	0.03811329	0.05096401	0.04894298	0.8943127	1.112921974	1.40789614	0.671381	0.34617278	1.07433	0.00148998	0.011664295	8.43209E-05	0.299	0.045399	0.012	0.002128	0.012985	0.000106814	0.04499	0.01589	0.003	0.002035	0.0124151	9.821E-05	160.25985	1229.1806	8.5293121	0.013383	0.009658327	0.008772715	0.024689	0.158249654	0.006031915
Vendor	HHDT	50.0	0.5	9.79886E-05	2.91423E-05	0.164894968	0	0.00930277	0.0002625	2.18076E-07	2.0556069	0.925302263	1.36570419	2.59778	0.38744341	0.000313	0.00364017	0.007317886	9.67497E-08		0.040649	0.017563	0.001091	0.012737	3.04841E-07		0.014227	0.004391	0.001041	0.0121844	2.803E-07	416.15835	808.56485	0.0097865	0.116467	0.060839451	4.01385E-08	0.067036	0.129038357	9.73817E-06
	MHD	50.0	0.5	0.012897497	0.003129877	0.013179559	0	0.01905664	0.02548201	0.02447149	0.4471563	0.556460987	0.70394807	0.335691	0.17308639	0.537165	0.00074499	0.005832147	4.21605E-05		0.0227	0.006	0.001064	0.006492	5.3407E-05		0.007945	0.0015	0.001018	0.0062075	4.911E-05	80.129824	614.5903	4.2646561	0.006691	0.004829164	0.004386358	0.012344	0.079124827	0.003015958
			1	0.012995486	0.003159019	0.178074527	0	0.02835941	0.02574451	0.024471708	2.5027632	1.48176325	2.06965226	2.933471	0.56052298	0.537478	0.00438516	0.013150033	4.22572E-05	0.299	0.063348	0.023563	0.002155	0.01923	5.37119E-05	0.04499	0.022172	0.005891	0.002059	0.0183919	4.939E-05	496.28827	1423.1552	4.2744426	0.123158	0.065668615	0.004386398	0.07938	0.208163184	0.003025696
Worker	LDA	50.0	0.5	0.136796864	0.040510207		0	0.00394285	0.10236849	0.147535756	0	0.018684555	0.115476587	0	0.32485557	1.445873	0	0.001219878	0.000315615		0.003584	0.004	0	0.000585	0.000954881		0.001254	0.001	0	0.000539	0.000878	0	123.40405	31.925346	0	0.001026569	0.03235985	0	0.002081025	0.014940319
	LDT1	25.0	0.25	0.148814258	0.041105424		0	0.00690435	0.11745495	0.134116008	0	0.0319581	0.094816504	0	0.35468144	1.306204	0	0.00080836	0.000213259		0.002306	0.002	0	0.000482	0.00072446		0.000807	0.0005	0	0.0004435	0.0006661	0	81.76883	21.571794	0	0.001555571	0.026204278	0	0.00234364	0.009623613
	LDT2	25.0	0.25	0.072043204	0.020150051		0	0.00277508	0.05358915	0.094795741	0	0.017007912	0.082407943	0	0.2073317	0.905899	0	0.00084201	0.000215566		0.002217	0.002	0	0.000333	0.000526973		0.000776	0.0005	0	0.0003065	0.0004845	0	85.183477	21.80511	0	0.000704556	0.020482149	0	0.001504676	0.009197602
			1	0.357654326	0.101765681		0	0.01362228	0.2734126	0.376447505	0	0.067650567	0.292701033	0	0.88686871	3.657977	0	0.002870248	0.000744439	0.299	0.008107	0.008	0	0.001401	0.002206314	0.04499	0.002837	0.002	0	0.001289	0.0020286	0	290.35636	75.302249	0	0.003286696	0.079046277	0	0.005929341	0.033761535

Adjustment Factors

Vehicle Category	Fuel	Population	Pop Fract	VMT (miles/day)	VMT Fract	Trips/day	Trip Fract
HHDT	GAS	2.58870796	1.95479E-05	115.1525769	0.0001088	51.79486882	0.000391
HHDT	DSL	8486.69344	0.064085007	1001095.457	0.9456821	124748.3826	0.942004
HHDT	ELEC	28.3303862	0.000213929	2794.260589	0.0026396	378.794564	0.00286
HHDT	NG	794.400964	0.005998707	54591.27048	0.0515695	7249.716942	0.054744
		9312.0135		1058596.14		132428.689	
LDA	GAS	600108.166	0.190572388	22290343.74	0.8713379	2786616.833	0.884928
LDA	DSL	1750.02352	0.000555743	51573.47594	0.002016	7442.609511	0.002364
LDA	ELEC	57627.4034	0.018300354	2472767.413	0.0966614	282732.9828	0.089786
LDA	PIH	17457.0988	0.005543736	767059.2064	0.0299846	72185.10346	0.022923
		676942.692		25581743.84		3148977.529	
LDT1	GAS	52693.3661	0.22315027	1706864.169	0.9932977	234793.4065	0.994323
LDT1	DSL	23.4623252	9.93602E-05	343.9307557	0.0002001	66.44458855	0.000281
LDT1	ELEC	211.002813	0.000893572	8008.645616	0.0046606	994.4346051	0.004211
LDT1	PIH	67.6457784	0.000286472	3164.460326	0.0018415	279.7152939	0.001185
		52995.477		1718381.206		236134.001	
LDT2	GAS	285585.435	0.210271162	10322758.41	0.9820916	1336438.482	0.983994
LDT2	DSL	1015.45285	0.000747659	37944.25501	0.00361	4835.433637	0.00356
LDT2	ELEC	1597.56671	0.001176258	55532.59168	0.0052833	8150.926864	0.006001
LDT2	PIH	2116.57955	0.001558398	94757.7077	0.0090151	8752.056437	0.006444
		290315.034		10510992.96		1358176.899	
LHDT1	GAS	19314.1424	0.046441179	722529.3133	0.6418809	287751.9438	0.691904
LHDT1	DSL	10107.7368	0.024304222	398004.1011	0.353579	127142.6136	0.305717
LHDT1	ELEC	70.8283556	0.000170308	5110.544281	0.0045401	989.4272741	0.002379
		29492.7076	0.070915709	1125643.959		415883.9847	
LHDT2	GAS	2506.9057	0.026111	91452.57471	0.331033	37349.15959	0.389015
LHDT2	DSL	4663.45548	0.048572823	183558.3761	0.6644305	58660.40334	0.610985
LHDT2	ELEC	18.3325933	0.000190945	1253.286273	0.0045365	242.6680052	0.002528
		7188.69377	0.074874768	276264.2371		96009.56293	
MCY	GAS	28171.5095	0.022104648	166022.3441	1	56343.01906	1
MDV	GAS	156642.427	0.208531065	5468053.925	0.9650793	726101.0934	0.966626
MDV	DSL	2400.61454	0.003195831	86292.68513	0.0152302	11318.82209	0.015068
MDV	ELEC	1678.68445	0.002234758	58660.62986	0.0103533	8578.49571	0.01142
MDV	PIH	1250.85709	0.00166521	52904.03132	0.0093373	5172.294058	0.006886
		161972.583		5665911.271		751170.7052	
MH	GAS	2420.56984	7.121629885	22012.30271	0.6985681	242.1538069	0.712448
MH	DSL	977.36061	2.875521464	9498.302477	0.3014319	97.73606104	0.287552
		3397.93045		31510.60519		339.8898679	
MHDT	GAS	1414.55168	0.009216738	71600.35148	0.1399516	28302.34992	0.184409
MHDT	DSL	10390.528	0.067701153	434043.5933	0.8483911	123938.9566	0.807544
MHDT	ELEC	30.9160141	0.000201438	1660.353407	0.0032454	407.4535626	0.002655
MHDT	NG	90.5944854	0.000590283	4303.5812	0.0084119	827.6228005	0.005393
		11926.5902		511607.8794		153476.3829	
OBUS	GAS	443.146734	0.024493158	19894.31417	0.2414205	8866.47985	0.490059
OBUS	DSL	893.137556	0.049364596	61949.05075	0.7517609	9141.625389	0.505267
OBUS	ELEC	1.08748138	6.01062E-05	92.50104822	0.0011225	21.7583274	0.001203
OBUS	NG	7.05736996	0.000390068	469.3876372	0.0056961	62.81059268	0.003472
		1344.42914		82405.25361		18092.67416	
SBUS	GAS	172.694787	0.016022959	8584.865553	0.348885	690.7791473	0.064092
SBUS	DSL	670.595844	0.062219191	15345.26177	0.6236244	9710.227827	0.900934
SBUS	ELEC	2.06466629	0.000191564	64.35501341	0.0026154	23.64639413	0.002194
SBUS	NG	24.3995047	0.002263834	612.0940704	0.0248752	353.3048277	0.03278
		869.754802		24606.57641		10777.9582	
UBUS	GAS	46.0831322	0.021676301	4812.450683	0.0818022	184.3325287	0.086705
UBUS	DSL	437.474468	0.205776552	48917.60551	0.8315035	1749.897872	0.823106
UBUS	ELEC	5.34756545	0.031392036	235.0625504	0.0483152	21.3902618	0.125568
UBUS	NG	42.5869588	0.020031792	4865.187143	0.0826987	170.347835	0.080127
		531.492124		58830.30589		2125.968497	

Source: EMFAC2021 (v1.0.1) Emission Rates
Region Type: County
Region: Santa Clara
Calendar Year: 2024
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN

Region	Calendar Y	Vehicle Cat	Model Yea	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	Energy Con	NOx_RUNEX	NOx_IDLEX	NOx_STREX	PM2.5_RU	PM2.5_IDL	PM2.5_STR	PM2.5_PM	PM2.5_PM	PM10_RUN	PM10_IDLE	PM10_STR	PM10_PM	PM10_PMI	CO2_RUNEX	CO2_IDLEX	CO2_STREX	CH4_RUNEX	CH4_IDLEX	CH4_STREX	N2O_RUNEX	N2O_IDLEX	N2O_STREX	ROG_RUNI	ROG_IDLEX	ROG_STREX	ROG_HOTS	ROG_RUNI	ROG_DIUR	TOG_RUNEX	TOG_IDLEX	TOG_STREX	TOG_HOTS	TOG_RUNI	TOG_DIUR	NH3_RUNEX	CO_RUNEX	CO_IDLEX	CO_STREX	SOx_RUNE	SOx_IDLEX	SOx_STREX
Santa Clara	2024	HHDT	Aggregate	Aggregate	Gasoline	2.58E+08	115.1526	115.1526	0	0	51.79487	0	7.013725	0	1.695629	0.003612	0	0.001433	0.005	0.03384	0.003929	0	0.001559	0.02	0.096686	2166.164	0	50.04419	0.246012	0	0.000205	0.192927	0	0.049797	1.47824	0	0.001115	0.149022	1.34233	10.02547	2.157045	0	0.001221	0.149022	1.34233	10.02547	0.04274	52.51903	0	1.60109	0.021415	0	0.000495
Santa Clara	2024	HHDT	Aggregate	Aggregate	Diesel	8486.693	1001095	1001095	0	0	124748.4	0	1.894567	62.88367	2.898867	0.025674	0.03017	0	0.00877	0.027454	0.026835	0.031534	0	0.035082	0.07844	1634.1	11997.01	0	0.000777	0.23663	0	0.257453	1.890134	0	0.016732	5.094584	0	0	0	0	0.019048	5.799796	0	0	0	0	0.215084	0.082524	74.10576	0	0.015474	0.113605	0
Santa Clara	2024	HHDT	Aggregate	Aggregate	Electricity	28.33039	2794.261	0	2794.261	378.7946	5152.341	0	0	0	0	0	0	0	0.008585	0.014055	0	0	0	0.034341	0.040158	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2024	HHDT	Aggregate	Aggregate	Natural Ga	794.401	54591.27	54591.27	0	0	7249.717	0	1.128254	13.55515	0	0.001724	0.024776	0	0.009	0.047521	0.001875	0.026946	0	0.036	0.135775	1387.534	10583.64	0	2.344742	36.30276	0	0.282858	2.157544	0	0.050833	0.550696	0	0	0	0	2.412728	37.08609	0	0	0	0	0.85184	13.40196	74.43135	0	0	0	0
Santa Clara	2024	LDA	Aggregate	Aggregate	Gasoline	600108.2	22290344	22290344	0	0	2786617	0	0.042281	0	0.257993	0.001177	0	0.001931	0.002	0.002656	0.00128	0	0.0021	0.008	0.007587	277.9403	0	70.44944	0.002338	0	0.072036	0.004672	0	0.033228	0.008937	0	0.328953	0.090491	0.230394	1.422636	0.013041	0	0.360162	0.090491	0.230394	1.422636	0.034712	0.737516	0	3.233068	0.002748	0	0.000686
Santa Clara	2024	LDA	Aggregate	Aggregate	Diesel	1750.024	51573.48	51573.48	0	0	7442.61	0	0.213181	0	0	0.016747	0	0	0.002	0.002706	0.017504	0	0	0.008	0.00773	232.7849	0	0	0.001289	0	0	0	0	0	0.027749	0	0	0	0	0	0.03159	0	0	0	0	0	0.0031	0.331109	0	0	0.002206	0	0
Santa Clara	2024	LDA	Aggregate	Aggregate	Electricity	57627.4	2472767	0	2472767	282733	954692.3	0	0	0	0	0	0	0	0.002	0.001533	0	0	0	0.008	0.00438	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2024	LDA	Aggregate	Aggregate	Plug-in Hyb	17457.1	767059.2	381568.7	385490.5	72185.1	116429.6	0.003264	0	0.11551	0.000618	0	0.00207	0.002	0.001377	0.000672	0	0.002252	0.008	0.003935	138.6993	0	65.78653	0.000444	0	0.04244	0.000587	0	0.020762	0.001412	0	0.173285	0.041111	0.037292	0.447104	0.019502	0.214038	0	0.189725	0.041111	0.037292	0.447104	0.019502	0.214038	0	1.339893	0.001371	0	0.00065
Santa Clara	2024	LDT1	Aggregate	Aggregate	Gasoline	52693.37	1706864	1706864	0	0	234793.4	0	0.128357	0	0.381294	0.001737	0	0.002678	0.002	0.00324	0.001889	0	0.002913	0.008	0.009258	128.9675	0	86.69483	0.006261	0	0.105365	0.009424	0	0.03869	0.027741	0	0.539321	0.165332	0.472477	2.667158	0.040475	0	0.590488	0.165332	0.472477	2.667158	0.036079	1.427621	0	5.253053	0.003252	0	0.000857
Santa Clara	2024	LDT1	Aggregate	Aggregate	Diesel	23.46233	343.9308	343.9308	0	0	66.44459	0	1.651932	0	0	0.239373	0	0	0.002	0.003724	0.250196	0	0	0.008	0.01064	415.4307	0	0	0.013862	0	0	0.065451	0	0	0.298448	0	0	0	0	0	0.339763	0	0	0	0	0	0.0031	1.593665	0	0	0.003936	0	0
Santa Clara	2024	LDT1	Aggregate	Aggregate	Electricity	211.0028	8008.646	0	8008.646	994.4346	3091.998	0	0	0	0	0	0	0	0.002	0.001539	0	0	0	0.008	0.004397	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2024	LDT1	Aggregate	Aggregate	Plug-in Hyb	67.64578	3164.46	1414.302	1750.158	279.7153	528.6	0.002933	0	0.11551	0.000367	0	0.001381	0.002	0.001389	0.0004	0	0.001502	0.008	0.003967	124.6157	0	71.36186	0.000397	0	0.042219	0.000522	0	0.020556	0.001268	0	0.173285	0.024153	0.020965	0.279628	0.001851	0	0.189725	0.024153	0.020965	0.279628	0.018771	0.192305	0	1.339893	0.001232	0	0.000705
Santa Clara	2024	LDT2	Aggregate	Aggregate	Gasoline	285585.4	10322758	10322758	0	0	1336438	0	0.069091	0	0.334237	0.001227	0	0.001959	0.002	0.003127	0.001334	0	0.00213	0.008	0.008936	344.6046	0	88.12796	0.002864	0	0.082985	0.005943	0	0.037254	0.011242	0	0.384216	0.081741	0.217688	1.368189	0.016404	0	0.420668	0.081741	0.217688	1.368189	0.036359	0.842122	0	3.673764	0.003407	0	0.000871
Santa Clara	2024	LDT2	Aggregate	Aggregate	Diesel	1015.453	37944.26	37944.26	0	0	4835.434	0	0.041515	0	0	0.004813	0	0	0.002	0.003113	0.005031	0	0	0.008	0.008895	311.1925	0	0	0.000609	0	0	0.049029	0	0	0.013105	0	0	0	0	0	0.014919	0	0	0	0	0	0.0031	0.129976	0	0	0.002949	0	0
Santa Clara	2024	LDT2	Aggregate	Aggregate	Electricity	1597.567	55532.59	0	55532.59	8150.927	21440.16	0	0	0	0	0	0	0	0.002	0.001526	0	0	0	0.008	0.004359	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2024	LDT2	Aggregate	Aggregate	Plug-in Hyb	2116.58	94757.71	44376.61	50381.09	8752.056	15216.59	0.003073	0	0.11551	0.000467	0	0.001672	0.002	0.001383	0.000508	0	0.001819	0.008	0.003953	130.578	0	78.06	0.000416	0	0.042233	0.000547	0	0.020569	0.001329	0	0.173285	0.025949	0.023686	0.309385	0.001939	0	0.189725	0.025949	0.023686	0.309385	0.019635	0.201506	0	1.339893	0.001291	0	0.000772
Santa Clara	2024	LHDT1	Aggregate	Aggregate	Gasoline	19314.14	722529.3	722529.3	0	0	287751.9	0	0.17374	0.036221	0.636996	0.001534	0	0.000302	0.002	0.0273	0.001668	0	0.000328	0.008	0.078	871.4559	119.0993	25.78022	0.008358	0.112945	0.032997	0.009778	0.002977	0.050968	0.041718	0.415023	0.163611	0.047402	0.263136	2.768514	0.060875	0.605601	0.179134	0.047402	0.263136	2.768514	0.044898	1.142278	3.756209	3.123927	0.008615	0.001177	0.000255
Santa Clara	2024	LHDT1	Aggregate	Aggregate	Diesel	10107.74	398004.1	398004.1	0	0	127142.6	0	1.563015	1.92168	0	0.035058	0.026804	0	0.003	0.0273	0.036643	0.028016	0	0.012	0.078	631.4008	131.1503	0	0.008006	0.005098	0	0.099477	0.020663	0	0.172364	0.10976	0	0	0	0	0.196225	0.124954	0	0	0	0	0.172781	0.473594	0.909745	0	0.005983	0.001243	0
Santa Clara	2024	LHDT1	Aggregate	Aggregate	Electricity	70.82836	5110.544	0	5110.544	989.4273	3345.376	0	0	0	0	0	0	0	0.002	0.01365	0	0	0	0.008	0.039	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2024	LHDT2	Aggregate	Aggregate	Gasoline	2506.906	91452.57	91452.57	0	0	37349.16	0	0.16518	0.035604	0.621534	0.00139	0	0.000239	0.002	0.03185	0.001512	0	0.000259	0.008	0.091	980.0361	137.5922	25.51292	0.006183	0.111453	0.031983	0.009819	0.00291	0.049384	0.028613	0.40822	0.157242	0.04419	0.238167	2.558385	0.041752	0.595674	0.17216	0.04419	0.238167	2.558385	0.044971	0.899209	3.762546	3.129931	0.009689	0.00136	0.000252
Santa Clara	2024	LHDT2	Aggregate	Aggregate	Diesel	4663.455	183558.4	183558.4	0	0	58660.4	0	1.266102	1.895403	0	0.032055	0.027	0	0.003	0.03185	0.033504	0.028221	0	0.012	0.091	756.8682	209.5618	0	0.007406	0.005098	0	0.119245	0.033017	0	0.159439	0.10976	0	0	0	0	0.18151	0.124954	0	0	0	0	0.184132	0.411861	0.909745	0	0.007172	0.001986	0
Santa Clara	2024	LHDT2	Aggregate	Aggregate	Electricity	18.33259	1253.286	0	1253.286	242.668	808.0022	0	0	0	0	0	0	0	0.002	0.015925	0	0	0	0.008	0.0455	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2024	MCY	Aggregate	Aggregate	Gasoline	28171.51	1660222.3	1660222.3	0	0	56343.02	0	0.571344	0	0.135477	0.001779	0	0.003248	0.001	0.0042	0.001902	0	0.003456	0.004	0.012	187.743	0	48.37697	0.162609	0	0.181972	0.039558	0	0.00802	1.062175	0	1.345317	3.559276	3.75283	3.900294	1.276951	0	1.462608	3.559276	3.75283	3.900294	0.088808	12.6697	0	8.002987	0.001856	0	0.000478
Santa Clara	2024	MDV	Aggregate	Aggregate	Gasoline	156642.4	5468054	5468054	0	0	726101.1	0	0.101279	0	0.42828	0.001229	0	0.002042	0.002	0.003184	0.001336	0	0.002221	0.008	0.009096	418.13	0	107.2801	0.003873	0	0.10186	0.007628	0	0.040967	0.01626	0	0.508806	0.097051	0.275722	1.677059	0.023715	0	0.557077	0.097051	0.275722	1.677059	0.036179	0.972241	0	4.022964	0.004134	0	0.001061
Santa Clara	2024	MDV	Aggregate	Aggregate	Diesel	2400.615	86292.69	86292.69	0	0	11318.82	0	0.048844	0	0	0.004909	0	0	0.002	0.003206	0.005131	0	0	0.008	0.009159	409.13	0	0	0.00051	0	0	0.064459	0	0	0.010978	0	0	0	0	0	0.012498	0	0	0	0	0	0.0031	0.201538	0	0	0.003877	0	0
Santa Clara	2024	MDV	Aggregate	Aggregate	Electricity	1678.684	58660.63	0	58660.63	8578.496	22647.84	0	0	0	0	0	0	0	0.002	0.001525	0	0	0	0.008	0.004358	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2024	MDV	Aggregate	Aggregate	Plug-in Hyb	1250.857	52904.03	25301.52	27602.51	5172.294	8336.781	0.003138	0	0.11551	0.000561	0	0.001962	0.002	0.001382	0.00061	0	0.002134	0.008	0.003948	133.3485	0	96.65661	0.000423	0	0.042047	0.000554	0	0.020395	0.001357	0	0.173285	0.030318	0.026684	0.341695	0.00198	0	0.189725	0.030318	0.026684	0.341695	0.020087	0.205781	0	1.339893	0.001318	0	0.000956
Santa Clara	2024	MH	Aggregate	Aggregate	Gasoline	2420.57	22012.3	22012.3	0	0	242.1538	0	0.420938	0	0.419963	0.001679	0	0.000404	0.003	0.015756	0.001826	0	0.000439	0.012	0.045017	1947.501	0	31.65056	0.015478	0	0.037539	0.025731	0	0.04407	0.06827	0	0.159123	12.21143	0.286769	4.596479	0.09962	0	0.174219	12.21143	0.286769	4.596479	0.044846	1.682224	0	3.497247	0.019253	0	0.000313
Santa Clara	2024	MH	Aggregate	Aggregate	Diesel	977.3606	9498.302	9498.302	0	0	97.73606	0	4.117169	0	0	0.091772	0	0	0.004	0.015675	0.099921	0	0	0.016	0.044785	1081.931	0	0	0.005558	0	0	0.170459	0	0	0.11965	0	0	0	0	0	0.136214	0	0	0	0	0	0.155539	0.397281	0	0	0.010252	0	0
Santa Clara	2024	MHDT	Aggregate	Aggregate	Gasoline	1414.552	71600.35	71600.35	0	0	28302.35	0	0.470752	0.088485	0.440963	0.001362	0	0.000533	0.003	0.015756	0.001482	0	0.000579	0.012	0.045017	1768.687	531.8002	46.25227	0.015051	0.25808	0.047572	0.022913	0.00727	0.03271	0.074951	1.01271	0.265405	0.033945	0.276365	2.798712	0.109368	1.477744	0.290585	0.033945	0.276365	2.798712	0.04498	1.56073	15.11634	5.825814	0.017485	0.005257	0.000457
Santa Clara	2024	MHDT	Aggregate	Aggregate	Diesel	1039.53	4340443.6	4340443.6	0	0	123939	0	1.232824	13.14099	1.642732	0.014397	0.029902	0	0.003	0.015941	0.015048	0.031254	0	0.012	0.045546	1147.309	2248.547	0	0.001507	0.01158	0	0.180759	0.35426	0	0.032455	0.249319	0	0	0	0	0.036947	0.283831	0	0	0	0	0.210532	0.120871	7.556027	0	0.010864	0.021292	0
Santa Clara	2024	MHDT	Aggregate	Aggregate	Electricity	30.91601	1660.353	0	1660.353	407.4536	1841.064	0	0	0	0	0	0	0	0.003	0.007956	0	0	0	0.012	0.022732	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2024	MHDT	Aggregate	Aggregate	Natural Ga	90.59449	4303.581	4303.581	0	0	827.6228	0	0.133415	6.499719	0	0.001179	0.018131	0	0.003	0.016007	0.001282	0.019719	0	0.012	0.045734	984.6917	5301.101	0	0.74573	17.31409	0	0.200736	1.080664	0	0.010655	0.247384	0	0	0	0	0.761072	17.6703	0	0	0	0	1.06	2.995842	34.7393	0	0	0	0
Santa Clara	2024	OBUS	Aggregate	Aggregate	Gasoline	443.1467	19894.31	19894.31	0	0	8866.48	0	0.49672	0.06506	0.408547	0.000907	0	0.000252	0.003	0.01568	0.000987	0	0.000274	0.012	0.044799	1764.001	379.4143	31.61308	0.013757	0.195733	0.03606	0.024018	0.005304	0.031028	0.067076	0.746281	0.190964	0.033873	0.154922	2.818385	0.097877	1.088971	0.209081	0.033873	0.154922	2.818385	0.044969	1.491576	5.774637	4.000641	0.017439	0.003751	0.000313
Santa Clara	2024	OBUS	Aggregate	Aggregate	Diesel	893.1376	61949.05	61949.05	0	0	9141.625	0	1.178643	7.363387	1.543157	0.019849	0.008167	0	0.003	0.018015	0.020746	0.008536	0	0.012	0.051472	1273.38	1538.564	0	0.001935	0.020479	0	0.200622	0.242401	0	0.04166	0.440905	0	0	0	0	0.047427	0.501937	0	0	0	0	0.216021	0.150181	7.500483	0	0.012058	0.014569	0
Santa Clara	2024	OBUS	Aggregate	Aggregate	Electricity	1.087481	92.50105	0	92.50105	21.75833	102.477	0	0	0	0	0	0	0	0.003	0.00784	0	0	0	0.012	0.022399	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2024	OBUS	Aggregate	Aggregate	Natural Ga	7.05737	469.3876	469.3876	0	0	62.81059	0	0.190585	1.537414	0	0.00106	0.003899	0	0.003	0.016148	0.001153	0.004241	0	0.012	0.046137	1004.237	1191.581	0	0.789796	4.236895	0	0.20472	0.242912	0	0.011285	0.060537	0	0	0	0	0.806045	4.324062	0	0	0	0	1.06	3.254325	7.353064	0	0	0	0
Santa Clara	2024	SBUS	Aggregate	Aggregate	Gasoline	172.6948	8584.866	8584.866	0	0	690.7791	0	0.50288	0.925939	0.716801	0.000864	0	0.000567	0.002	0.015721	0.000939	0	0.000616	0.008	0.044917	810.6064	2589.131	58.1367	0.011135	2.464862	0.074893	0.027101	0.086311	0.065929	0.054059	10.63288	0.426367	0.113914	0.274691	1.686167	0.078883	15.51547	0.466819	0.113914	0.274691	1.686167	0.045	1.38705	82.18841	10.36621	0.008014	0.025596	0.000575
Santa Clara	2024	SBUS	Aggregate	Aggregate	Diesel	670.5958	15345.26	15345.26	0	0	9710.228	0	3.821388	21.90481	0.482851	0.019766	0.019703	0	0.003	0.015721	0.02066	0.020594	0	0.012	0.044917	1144.18	2229	0	0.002665	0.008001	0	0.180266	0.35118	0	0.057376	0.172257	0	0	0	0	0.065318	0.196101	0	0	0	0	0.148025	0.1775	4.677792	0	0.010835	0.021107	0
Santa Clara	2024	SBUS	Aggregate	Aggregate	Electricity	2.064666	64.35501	0	64.35501	23.64639	67.79515	0	0	0	0	0	0	0	0.002539	0.00786	0	0	0	0.010157	0.022459	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2024	SBUS	Aggregate	Aggregate	Natural Ga	24.3995	612.0941	612.0941	0	0	353.3048	0	0.567729	5.270895	0	0.003378	0.011357	0	0.003	0.015721	0.003674	0.012352	0	0.012	0.044917	1261.305	4066.736	0	3.436672	15.25665	0	0.257125	0.829031	0	0.049103	0.217987	0	0	0	0	3.507376	15.57053	0	0	0	0	1.06	11.64901	20.74693	0	0	0	0
Santa Clara	2024	UBUS	Aggregate	Aggregate	Gasoline	46.08313	4812.451	4812.451	0	0	184.3325	0	0.027483	0	0.457232	0.001143	0	0.000128	0.002	0.03185	0.001243	0	0.00014	0.008	0.091	926.0836	0	36.94783	0.002034	0	0.043067	0.004288	0	0.071717	0.005634	0	0.152979	0.038099	0.092116	0.456438	0.008221	0	0.167492	0.038099	0.092116	0.456438	0.045	0.581148	0	6.130495	0.009155	0	0.000365
Santa Clara	2024	UBUS	Aggregate	Aggregate	Diesel	437.4745	48917.61	48917.61	0	0	1749.898	0	0.386257	0	0	0.007023	0	0	0.0083	0.0385	0.00734	0	0	0.0332	0.11	1101.14	0	0	0.003215	0	0	0.173485	0	0	0.069208	0	0	0	0	0	0.078788	0	0	0	0	0	0.187908	0.079368	0	0	0.010434	0	0
Santa Clara	2024	UBUS	Aggregate	Aggregate	Electricity	5.347565	235.0626	0	235.0626	21.39026	409.7714	0	0	0	0	0	0	0	0.00888	0.01925	0	0	0	0.03552	0.055	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2024	UBUS	Aggregate	Aggregate	Natural Ga	42.58696	4865.187	4865.187	0	0	170.3478	0	0.058788	0	0	0.000282	0	0	0.008183	0.0385	0.000295	0	0	0.032731	0.11	1299.206	0	0	4.246059	0	0	0.264852	0	0	0.060668	0	0	0	0	0	4.333415	0	0	0	0	0	0.97	49.04786	0	0	0	0	0

P2 (O1+O2) - CalEEMod Construction Inputs

Phase	CalEEMod WORKER TRIPS	CalEEMod VENDOR TRIPS	Total Worker Trips	Total Vendor Trips	CalEEMod HAULING TRIPS	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class	*Worker VMT*	*Vendor VMT*	*Hauling VMT*
Demolition	33	0	4851	0	1,771	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	52390.8	0	35420
Site Preparation	8	1	304	38	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	3283.2	277.4	0
Grading	83	0	8549	0	33,220	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	92329.2	0	664400
Trenching/Foundation	50	0	16500	0	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	178200	0	0
Building Construction	294	139	294000	139000	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	3175200	1014700	0
Paving	18	0	2304	0	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	24883.2	0	0
Architectural Coating	59	0	7552	0	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	81561.6	0	0

Number of Days Per Year					
2024	11/1/24	12/31/24	61	52	
2025	1/1/25	12/31/25	365	313	
2026	1/1/26	12/31/26	365	313	
2027	1/1/27	12/31/27	365	313	
2028	1/1/28	12/31/28	366	314	
2029	1/1/29	7/11/29	192	165	
			1714	**1470**	***Total Workdays***

Phase	Start Date	End Date	Days/Week	Workdays
Demolition	11/1/2024	4/21/2025	6	147
Site Preparation	2/15/2025	3/31/2025	6	38
Grading	3/17/2025	7/14/2025	6	103
Trenching/Foundation	7/2/2025	7/21/2026	6	330
Building Construction	5/2/2026	7/11/2029	6	1,000
Paving	5/16/2028	10/11/2028	6	128
Architectural Coating	8/15/2028	1/10/2029	6	128

Summary of Construction Traffic Emissions (EMFAC2021)

CATEGORY	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	NBio- CO2	CH4	N2O	CO2e
						Grams								
Hauling	24587.49	1534520.25	724101.05	10499.96	209246.18	99379.01	308625.19	31484.90	43184.79	74669.69	##########	93303.93	185351.34	#########
Vendor	62771.34	2139695.71	1051518.81	13967.91	303478.24	108037.56	411515.80	45663.83	47443.40	93107.23	##########	84385.75	222811.87	#########
Worker	422410.60	343610.69	4444306.09	10604.56	1078746.55	63901.75	1142648.30	162317.08	22781.20	185098.28	##########	38841.62	32833.44	#########
Total (g)	509769.43	4017826.65	6219925.95	35072.43	1591470.97	271318.31	1862789.29	239465.82	113409.38	352875.20	##########	216531.30	440996.65	#########
Total (lbs)	1123.85	8857.79	13712.59	77.32	3508.59	598.15	4106.75	527.93	250.02	777.96	8264165.77	477.37	972.23	#########
Total (tons)	0.56	4.43	6.86	0.04	1.75	0.30	2.05	0.26	0.13	0.39	4132.08	0.24	0.49	4282.91
Total (MT)											3748.56	0.22	0.44	3885.39

YEAR														
							Tons							
2024	0.0200	0.1576	0.2440	0.0014	0.0624	0.0106	0.0731	0.0094	0.0044	0.0138	133.4086	0.0077	0.0157	138.2783
2025	0.1197	0.9431	1.4601	0.0082	0.3736	0.0637	0.4373	0.0562	0.0266	0.0828	798.2645	0.0461	0.0939	827.4028
2026	0.1197	0.9431	1.4601	0.0082	0.3736	0.0637	0.4373	0.0562	0.0266	0.0828	798.2645	0.0461	0.0939	827.4028
2027	0.1197	0.9431	1.4601	0.0082	0.3736	0.0637	0.4373	0.0562	0.0266	0.0828	798.2645	0.0461	0.0939	827.4028
2028	0.1200	0.9457	1.4641	0.0083	0.3746	0.0639	0.4385	0.0564	0.0267	0.0831	800.4515	0.0462	0.0942	829.6696
2029	0.0629	0.4961	0.7680	0.0043	0.1965	0.0335	0.2300	0.0296	0.0140	0.0436	419.9090	0.0243	0.0494	435.2365

Category		Mix %	Adj	ROG_DIURN	ROG_HTSK	ROG_IDLEX	ROG_RESTL	ROG_RUNEX	ROG_RUNLS	ROG_STREX	NOX_IDLEX	NOX_RUNEX	NOX_STREX	CO_IDLEX	CO_RUNEX	CO_STREX	SO2_IDLEX	SO2_RUNEX	SO2_STREX	Road Dust PM10	PM10_PM BW	PM10_PM TW	PM10_IDLEX	PM10_RUNEX	PM10_STREX	Road Dust PM25	PM25_PM BW	PM25_PM TW	PM25_IDLEX	PM25_RUNEX	PM25_STREX	CO2_NBIO_IDLEX	CO2_NBIO_RUNEX	CO2_NBIO_STREX	CH4_IDLEX	CH4_RUNEX	CH4_STREX	N2O_IDLEX	N2O_RUNEX	N2O_STREX
																														19	22	23	8	9	10						
Hauling	HHDT	100.0	1	0.000195977	5.82846E-05	0.329789936	0	0.01860554	0.00052501	4.36152E-07	4.1112137	1.850604526	2.731408381	5.19556	0.77488683	0.000626	0.0072827	0.014639651	1.93548E-07		0.081298	0.035125	0.002182	0.025474	6.09682E-07		0.028454	0.008781	0.002082	0.0243688	5.606E-07	832.60057	1617.577	0.0195779	0.232934	0.121678903	8.02769E-08	0.134118	0.25814886	1.94763E-05
	MHD	0.0	0	0.025794994	0.006259754	0.026359118	0	0.03811329	0.05096401	0.04894298	0.8943127	1.112921974	1.40789614	0.671381	0.34617278	1.07433	0.00149055	0.011670536	8.43591E-05	0.299	0.045399	0.012	0.002128	0.012985	0.000106814	0.04499	0.01589	0.003	0.002035	0.0124151	9.821E-05	160.32438	1229.8378	8.5331774	0.013383	0.009658327	0.008772715	0.024699	0.158314421	0.006031915
Vendor	HHDT	50.0	0.5	9.79886E-05	2.91423E-05	0.164894968	0	0.00930277	0.0002625	2.18076E-07	2.0556069	0.925302263	1.36570419	2.59778	0.38744341	0.000313	0.00364135	0.007319825	9.6774E-08		0.040649	0.017563	0.001091	0.012737	3.04841E-07		0.014227	0.004391	0.001041	0.0121844	2.803E-07	416.30029	808.78849	0.009789	0.116467	0.060839451	4.01385E-08	0.067059	0.12907443	9.73817E-06
	MHD	50.0	0.5	0.012897497	0.003129877	0.013179559	0	0.01905664	0.02548201	0.02447149	0.4471563	0.556460987	0.70394807	0.335691	0.17308639	0.537165	0.00074528	0.005835268	4.2179GE-05		0.0227	0.006	0.001064	0.006492	5.3407E-05		0.007945	0.0015	0.001018	0.0062075	4.911E-05	80.162188	614.91891	4.2665887	0.006691	0.004829164	0.004386358	0.012349	0.07915721	0.003015958
			1	0.012995486	0.003159019	0.178074527	0	0.02835941	0.02574451	0.024471708	2.5027632	1.48176325	2.06965226	2.933471	0.5605298	0.537478	0.00438663	0.013155094	4.22763E-05	0.299	0.063348	0.023563	0.002155	0.01923	5.37119E-05	0.04499	0.022172	0.005891	0.002059	0.0183919	4.939E-05	496.46248	1423.7074	4.2763777	0.123158	0.065668615	0.004386398	0.079408	0.20823164	0.003025696
Worker	LDA	50.0	0.5	0.136207885	0.04033579	0	0	0.00394285	0.10192775	0.155730986	0	0.018684555	0.120019112	0	0.32485557	1.504239	0	0.001219878	0.000316819		0.003584	0.004	0	0.000585	0.000955432		0.001254	0.001	0	0.000539	0.0008785	0	123.40405	32.047136	0	0.00102526	0.033863182	0	0.002078035	0.015393658
	LDT1	25.0	0.25	0.148781013	0.041096241	0	0	0.00690435	0.11742871	0.134315138	0	0.0319581	0.094926069	0	0.35468144	1.307588	0	0.00080836	0.000213281		0.002306	0.002	0	0.000482	0.000724379		0.000807	0.0005	0	0.0004435	0.0006661	0	81.76883	21.573992	0	0.001555535	0.026240792	0	0.002343558	0.009634715
	LDT2	25.0	0.25	0.071955738	0.020125587	0	0	0.00277508	0.05352409	0.095925667	0	0.017007912	0.083018448	0	0.2073317	0.913906	0	0.00084201	0.0002157		0.002217	0.002	0	0.000333	0.000526864		0.000776	0.0005	0	0.0003065	0.0004844	0	85.183477	21.818674	0	0.000704371	0.02068762	0	0.001504255	0.009258515
			1	0.356944637	0.101557618	0	0	0.01362228	0.27288055	0.385971791	0	0.067650567	0.297963629	0	0.88686871	3.725734	0	0.002870248	0.000745799	0.299	0.008107	0.008	0	0.001401	0.002206675	0.04499	0.002837	0.002	0	0.001289	0.002029	0	290.35636	75.439802	0	0.003285167	0.080791594	0	0.005925848	0.034286889

Adjustment Factors

Vehicle Category	Fuel	Population	Pop Fract	VMT (miles/day)	VMT Fract	Trips/day	Trip Fract
HHDT	GAS	2.58870796	1.95479E-05	115.1525769	0.0001088	51.79486882	0.000391
HHDT	DSL	8486.69344	0.064085007	1001095.457	0.9456821	124748.3826	0.942004
HHDT	ELEC	28.3303862	0.000213929	2794.260589	0.0026396	378.794564	0.00286
HHDT	NG	794.400964	0.005998707	54591.27048	0.0515695	7249.716942	0.054744
		9312.0135		1058596.14		132428.689	
LDA	GAS	600108.166	0.189751879	22290343.74	0.8713379	2786616.833	0.881117
LDA	DSL	1750.02352	0.000553351	51573.47594	0.002016	7442.609511	0.002353
LDA	ELEC	57627.4034	0.018221562	2472767.413	0.0966614	282732.9828	0.089399
LDA	PIH	17457.0988	0.005519867	767059.2064	0.0299846	85801.6405	0.02713
		676942.692		25581743.84		3162594.066	
LDT1	GAS	52693.3661	0.223100419	1706864.169	0.9932977	234793.4065	0.994101
LDT1	DSL	23.4623252	9.9338E-05	343.9307557	0.0002001	66.44458855	0.000281
LDT1	ELEC	211.002813	0.000893373	8008.645616	0.0046606	994.4346051	0.00421
LDT1	PIH	67.6457784	0.000286408	3164.460326	0.0018415	332.4790011	0.001408
		52995.477		1718381.206		236186.7647	
LDT2	GAS	285585.435	0.210015878	10322758.41	0.9820916	1336438.482	0.9828
LDT2	DSL	1015.45285	0.000746751	37944.25501	0.00361	4835.433637	0.003556
LDT2	ELEC	1597.56671	0.00117483	55532.59168	0.0052833	8150.926864	0.005994
LDT2	PIH	2116.57955	0.001556506	94757.7077	0.0090151	10402.98849	0.00765
		290315.034		10510992.96		1359827.831	
LHDT1	GAS	19314.1424	0.046441179	722529.3133	0.6418809	287751.9438	0.691904
LHDT1	DSL	10107.7368	0.024304222	398004.1011	0.353579	127142.6136	0.305717
LHDT1	ELEC	70.8283556	0.000170308	5110.544281	0.0045401	989.4272741	0.002379
		29492.7076	0.070915709	1125643.959		415883.9847	
LHDT2	GAS	2506.9057	0.026111	91452.57471	0.331033	37349.15959	0.389015
LHDT2	DSL	4663.45548	0.048572823	183558.3761	0.6644305	58660.40334	0.610985
LHDT2	ELEC	18.3325933	0.000190945	1253.286273	0.0045365	242.6680052	0.002528
		7188.69377	0.074874768	276264.2371		96009.56293	
MCY	GAS	28171.5095	0.022104648	166022.3441	1	56343.01906	1
MDV	GAS	156642.427	0.208260563	5468053.925	0.9650793	726101.0934	0.965372
MDV	DSL	2400.61454	0.003191685	86292.68513	0.0152302	11318.82209	0.015049
MDV	ELEC	1678.68445	0.002231859	58660.62986	0.0103533	8578.49571	0.011405
MDV	PIH	1250.85709	0.00166305	52904.03132	0.0093373	6147.962587	0.008174
		161972.583		5665911.271		752146.3738	
MH	GAS	2420.56984	7.121629885	22012.30271	0.6985681	242.1538069	0.712448
MH	DSL	977.36061	2.875521464	9498.302477	0.3014319	97.73606104	0.287552
		3397.93045		31510.60519		339.8898679	
MHDT	GAS	1414.55168	0.009216738	71600.35148	0.1399516	28302.34992	0.184409
MHDT	DSL	10390.528	0.067701153	434043.5933	0.8483911	123938.9566	0.807544
MHDT	ELEC	30.9160141	0.000201438	1660.353407	0.0032454	407.4535626	0.002655
MHDT	NG	90.5944854	0.000590283	4303.5812	0.0084119	827.6228005	0.005393
		11926.5902		511607.8794		153476.3829	
OBUS	GAS	443.146734	0.024493158	19894.31417	0.2414205	8866.47985	0.490059
OBUS	DSL	893.137556	0.049364596	61949.05075	0.7517609	9141.625389	0.505267
OBUS	ELEC	1.08748138	6.01062E-05	92.50104822	0.0011225	21.7583274	0.001203
OBUS	NG	7.05736996	0.000390068	469.3876372	0.0056961	62.81059268	0.003472
		1344.42914		82405.25361		18092.67416	
SBUS	GAS	172.694787	0.016022959	8584.865553	0.348885	690.7791473	0.064092
SBUS	DSL	670.595844	0.062219191	15345.26177	0.6236244	9710.227827	0.900934
SBUS	ELEC	2.06466629	0.000191564	64.35501341	0.0026154	23.64639413	0.002194
SBUS	NG	24.3995047	0.002263834	612.0940704	0.0248752	353.3048277	0.03278
		869.754802		24606.57641		10777.9582	
UBUS	GAS	46.0831322	0.021676301	4812.450683	0.0818022	184.3325287	0.086705
UBUS	DSL	437.474468	0.205776552	48917.60551	0.8315035	1749.897872	0.823106
UBUS	ELEC	5.34756545	0.031392036	235.0625504	0.0483152	21.3902618	0.125568
UBUS	NG	42.5869588	0.020031792	4865.187143	0.0826987	170.347835	0.080127
		531.492124		58830.30589		2125.968497	

Source: EMFAC2021 (v1.0.0) Emission Rates
Region Type: County
Region: Santa Clara
Calendar Year: 2024
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN

Region	Calendar Y	Vehicle Cat	Model Yea	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	Energy Con	NOx_RUNEX	NOx_IDLEX	NOx_STREX	PM2.5_RU	PM2.5_IDL	PM2.5_STR	PM2.5_PM	PM2.5_PM	PM10_RUN	PM10_IDLE	PM10_STR	PM10_PM	PM10_PM	CO2_RUNE	CO2_IDLEX	CO2_STREX	CH4_RUNE	CH4_IDLEX	CH4_STREX	N2O_RUNE	N2O_IDLEX	N2O_STREX	ROG_RUNI	ROG_IDLEX	ROG_STREX	ROG_HOTS	ROG_RUNI	ROG_IDLEX	ROG_DIUR	TOG_RUNE	TOG_IDLEX	TOG_STREX	TOG_HOTS	TOG_RUNI	TOG_DIUR	NH3_RUNE	CO_RUNEX	CO_IDLEX	CO_STREX	SOx_RUNE	SOx_IDLEX	SOx_STREX
Santa Clara	2024	HHDT	Aggregate	Aggregate	Gasoline	2.588708	115.1526	115.1526	0	0	51.79487	0	7.013725	0	1.695629	0.003612	0	0.001433	0.005	0.03384	0.003929	0	0.001559	0.02	0.096686	2170.143	0	50.05673	0.246012	0	0.000205	0.192927	0	0.049797	1.47824	0	0.001115	0.149022	1.34233	10.02547	2.157045	0	0.001221	0.149022	1.34233	10.02547	0.04274	52.51903	0	1.60109	0.221454	0	0.000495
Santa Clara	2024	HHDT	Aggregate	Aggregate	Diesel	8486.693	1001095	1001095	0	0	124748.4	0	1.894567	62.88367	2.898867	0.025674	0.03017	0	0.00877	0.027454	0.026835	0.031534	0	0.035082	0.07844	1634.533	12000.89	0	0.000777	0.23663	0	0.257521	1.890745	0	0.016732	5.094584	0	0	0	0	0.019048	5.799796	0	0	0	0	0.215084	0.082524	74.10576	0	0.015478	0.113641	0
Santa Clara	2024	HHDT	Aggregate	Aggregate	Electricity	28.33039	2794.261	0	2794.261	378.7946	5152.341	0	0	0	0	0	0	0	0.008585	0.014055	0	0	0	0.034341	0.040158	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2024	HHDT	Aggregate	Aggregate	Natural Ga	794.401	54591.27	54591.27	0	0	7249.717	0	1.128254	13.55515	0	0.001724	0.024776	0	0.0099	0.047521	0.001875	0.026946	0	0.036	0.135775	1388.265	10589.52	0	2.344742	36.30276	0	0.283007	2.158743	0	0.050833	0.550696	0	0	0	0	2.412728	37.08609	0	0	0	0	0.85184	13.40196	74.43135	0	0	0	0
Santa Clara	2024	LDA	Aggregate	Aggregate	Gasoline	600108.2	22290344	22290344	0	0	2786617	0	0.042281	0	0.025793	0.001177	0	0.001931	0.002	0.002656	0.00128	0	0.0021	0.008	0.007587	277.9403	0	70.44944	0.002338	0	0.072036	0.004672	0	0.033228	0.008937	0	0.328953	0.090491	0.230394	1.422636	0.013041	0	0.360162	0.090491	0.230394	1.422636	0.034712	0.737516	0	3.233068	0.002748	0	0.000696
Santa Clara	2024	LDA	Aggregate	Aggregate	Diesel	1750.024	51573.48	51573.48	0	0	7442.61	0	0.213181	0	0	0.016747	0	0	0.002	0.002706	0.017504	0	0	0.008	0.00773	232.7849	0	0	0.001289	0	0	0.036675	0	0	0.027749	0	0	0	0	0	0.03159	0	0	0	0	0	0.0031	0.331109	0	0	0.002206	0	0
Santa Clara	2024	LDA	Aggregate	Aggregate	Electricity	57627.4	2472767	0	2472767	282733	954692.3	0	0	0	0	0	0	0	0.002	0.001533	0	0	0	0.008	0.00438	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2024	LDA	Aggregate	Aggregate	Plug-in Hyb	17457.1	767059.2	381568.7	385490.5	85801.64	116429.6	0.003264	0	0.4687	0.000618	0	0.002058	0.002	0.001377	0.000672	0	0.002238	0.008	0.003935	138.6993	0	74.45751	0.000357	0	0.1568	0.000388	0	0.055629	0.001412	0	0.796754	0.034587	0.031374	0.447104	0.00206	0	0.872345	0.034587	0.031374	0.447104	0.019502	0.214038	0	5.888845	0.001371	0	0.000736
Santa Clara	2024	LDT1	Aggregate	Aggregate	Gasoline	52693.37	1706864	1706864	0	0	234793.4	0	0.128357	0	0.381294	0.001737	0	0.002678	0.002	0.00324	0.001889	0	0.002913	0.008	0.009258	328.9675	0	86.69483	0.006261	0	0.105365	0.009424	0	0.03869	0.027741	0	0.539321	0.165332	0.472477	2.667158	0.040475	0	0.590488	0.165332	0.472477	2.667158	0.036079	1.427621	0	5.253053	0.003252	0	0.000857
Santa Clara	2024	LDT1	Aggregate	Aggregate	Diesel	23.46233	343.9308	343.9308	0	0	66.44459	0	1.651932	0	0	0.239373	0	0	0.002	0.003724	0.250196	0	0	0.008	0.01064	415.4307	0	0	0.013862	0	0	0.065451	0	0	0.298448	0	0	0	0	0	0.339763	0	0	0	0	0	0.0031	1.593665	0	0	0.003936	0	0
Santa Clara	2024	LDT1	Aggregate	Aggregate	Electricity	211.0028	8008.646	0	8008.646	994.4346	3091.998	0	0	0	0	0	0	0	0.002	0.001539	0	0	0	0.008	0.004397	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2024	LDT1	Aggregate	Aggregate	Plug-in Hyb	67.64578	3164.46	1414.302	1750.158	332.479	528.6	0.002933	0	0.4687	0.000367	0	0.001373	0.002	0.001389	0.0004	0	0.001493	0.008	0.003967	124.6157	0	79.97615	0.000319	0	0.15591	0.000344	0	0.05495	0.001268	0	0.796754	0.02032	0.017638	0.279628	0.001851	0	0.872345	0.02032	0.017638	0.279628	0.018771	0.192305	0	5.888845	0.001232	0	0.000791
Santa Clara	2024	LDT2	Aggregate	Aggregate	Gasoline	285585.4	10322758	10322758	0	0	1336438	0	0.069091	0	0.334237	0.001227	0	0.001959	0.002	0.003127	0.001334	0	0.00213	0.008	0.008936	344.6046	0	88.12796	0.002864	0	0.082985	0.005943	0	0.037254	0.011242	0	0.384216	0.081741	0.217688	1.368189	0.016404	0	0.420668	0.081741	0.217688	1.368189	0.036359	0.842122	0	3.673764	0.003407	0	0.000871
Santa Clara	2024	LDT2	Aggregate	Aggregate	Diesel	1015.453	37944.26	37944.26	0	0	4835.434	0	0.041515	0	0	0.004813	0	0	0.002	0.003113	0.005031	0	0	0.008	0.008895	311.1925	0	0	0.000609	0	0	0.049029	0	0	0.013105	0	0	0	0	0	0.014919	0	0	0	0	0	0.0031	0.129976	0	0	0.002949	0	0
Santa Clara	2024	LDT2	Aggregate	Aggregate	Electricity	1597.567	55532.59	0	55532.59	8150.927	21440.16	0	0	0	0	0	0	0	0.002	0.001526	0	0	0	0.008	0.004359	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2024	LDT2	Aggregate	Aggregate	Plug-in Hyb	2116.58	94757.71	44376.61	50381.09	10402.99	15216.59	0.003073	0	0.4687	0.000467	0	0.001662	0.002	0.001383	0.000508	0	0.001808	0.008	0.003953	130.578	0	86.60619	0.000334	0	0.155965	0.000361	0	0.054992	0.001329	0	0.796754	0.021831	0.019927	0.309385	0.001939	0	0.872345	0.021831	0.019927	0.309385	0.019635	0.201506	0	5.888845	0.001291	0	0.000856
Santa Clara	2024	LHDT1	Aggregate	Aggregate	Gasoline	19314.14	722529.3	722529.3	0	0	287751.9	0	0.172795	0.036221	0.633985	0.001534	0	0.000302	0.002	0.0273	0.001668	0	0.000328	0.008	0.078	872.9955	119.2079	25.73223	0.008333	0.113121	0.0327	0.009677	0.002988	0.050823	0.041628	0.415023	0.162188	0.047402	0.263136	2.768514	0.060744	0.605601	0.177575	0.047402	0.263136	2.768514	0.044898	1.136594	3.756209	3.083172	0.00863	0.001178	0.000254
Santa Clara	2024	LHDT1	Aggregate	Aggregate	Diesel	10107.74	398004.1	398004.1	0	0	127142.6	0	1.556402	1.92168	0	0.035057	0.026804	0	0.003	0.0273	0.036642	0.028016	0	0.012	0.078	632.9651	131.3094	0	0.008006	0.005098	0	0.099724	0.020688	0	0.172364	0.10976	0	0	0	0	0.196225	0.124954	0	0	0	0	0.172781	0.473592	0.909745	0	0.005998	0.001244	0
Santa Clara	2024	LHDT1	Aggregate	Aggregate	Electricity	70.82836	5110.544	0	5110.544	989.4273	3345.376	0	0	0	0	0	0	0	0.002	0.01365	0	0	0	0.008	0.039	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2024	LHDT2	Aggregate	Aggregate	Gasoline	2506.906	91452.57	91452.57	0	0	37349.16	0	0.161867	0.036635	0.633678	0.00139	0	0.000239	0.002	0.03185	0.001512	0	0.000259	0.008	0.091	981.6545	137.7625	25.46939	0.006204	0.114931	0.032387	0.00943	0.003022	0.050739	0.028705	0.420058	0.15902	0.04419	0.238167	2.558385	0.041886	0.612948	0.174107	0.04419	0.238167	2.558385	0.044971	0.893936	3.762546	3.087348	0.009705	0.001362	0.000252
Santa Clara	2024	LHDT2	Aggregate	Aggregate	Diesel	4663.455	183558.4	183558.4	0	0	58660.4	0	1.25838	1.895403	0	0.032055	0.027	0	0.003	0.03185	0.033504	0.028221	0	0.012	0.091	758.5711	209.8195	0	0.007406	0.005098	0	0.119513	0.033057	0	0.159442	0.10976	0	0	0	0	0.181514	0.124954	0	0	0	0	0.184132	0.41186	0.909745	0	0.007188	0.001988	0
Santa Clara	2024	LHDT2	Aggregate	Aggregate	Electricity	18.33259	1253.286	0	1253.286	242.668	808.0022	0	0	0	0	0	0	0	0.002	0.015925	0	0	0	0.008	0.0455	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2024	MCY	Aggregate	Aggregate	Gasoline	28171.51	1660222.3	1660222.3	0	0	56343.02	0	0.598844	0	0.148555	0.001827	0	0.003177	0.001	0.0042	0.001954	0	0.00338	0.004	0.012	190.6913	0	51.77839	0.171772	0	0.189534	0.040955	0	0.008948	1.123169	0	1.402019	3.559276	3.75283	3.900294	1.354171	0	1.524416	3.559276	3.75283	3.900294	0.088808	14.38328	0	7.689677	0.001885	0	0.000512
Santa Clara	2024	MDV	Aggregate	Aggregate	Gasoline	156642.4	5468054	5468054	0	0	726101.1	0	0.101279	0	0.42828	0.001229	0	0.002042	0.002	0.003184	0.001336	0	0.002221	0.008	0.009096	418.13	0	107.2801	0.003873	0	0.10186	0.007628	0	0.040967	0.01626	0	0.508806	0.097051	0.275722	1.677059	0.023715	0	0.557077	0.097051	0.275722	1.677059	0.036179	0.972241	0	4.022964	0.004134	0	0.001061
Santa Clara	2024	MDV	Aggregate	Aggregate	Diesel	2400.615	86292.69	86292.69	0	0	11318.82	0	0.048844	0	0	0.004909	0	0	0.002	0.003206	0.005131	0	0	0.008	0.009159	409.13	0	0	0.00051	0	0	0.064459	0	0	0.010978	0	0	0	0	0	0.012498	0	0	0	0	0	0.0031	0.201538	0	0	0.003877	0	0
Santa Clara	2024	MDV	Aggregate	Aggregate	Electricity	1678.684	58660.63	0	58660.63	8578.496	22647.84	0	0	0	0	0	0	0	0.002	0.001525	0	0	0	0.008	0.004358	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2024	MDV	Aggregate	Aggregate	Plug-in Hyb	1250.857	52904.03	25301.52	27602.51	6147.963	8336.781	0.003138	0	0.4687	0.000561	0	0.00195	0.002	0.001382	0.00061	0	0.002121	0.008	0.003948	133.3485	0	105.0137	0.00034	0	0.155221	0.000365	0	0.05443	0.001357	0	0.796754	0.025507	0.022449	0.341695	0.00198	0	0.872345	0.025507	0.022449	0.341695	0.020087	0.205781	0	5.888845	0.001318	0	0.001038
Santa Clara	2024	MH	Aggregate	Aggregate	Gasoline	2420.57	22012.3	22012.3	0	0	242.1538	0	0.420938	0	0.419963	0.001679	0	0.000404	0.003	0.015756	0.001826	0	0.000439	0.012	0.045017	1947.501	0	31.65056	0.015478	0	0.037539	0.025731	0	0.04407	0.06827	0	0.159123	12.21143	0.286769	4.596479	0.09962	0	0.174219	12.21143	0.286769	4.596479	0.044846	1.682224	0	3.497247	0.019253	0	0.000313
Santa Clara	2024	MH	Aggregate	Aggregate	Diesel	977.3606	9498.302	9498.302	0	0	97.73606	0	4.117169	0	0	0.091772	0	0	0.004	0.015675	0.095921	0	0	0.016	0.044785	1081.931	0	0	0.005558	0	0	0.170459	0	0	0.11965	0	0	0	0	0	0.136214	0	0	0	0	0	0.155539	0.397281	0	0	0.010252	0	0
Santa Clara	2024	MHDT	Aggregate	Aggregate	Gasoline	1414.552	71600.35	71600.35	0	0	28302.35	0	0.470752	0.088485	0.440963	0.001362	0	0.000533	0.003	0.015756	0.001482	0	0.000579	0.012	0.045017	1770.464	532.0924	46.27323	0.015051	0.25808	0.047572	0.022913	0.00727	0.03271	0.074951	1.01271	0.265405	0.033945	0.276365	2.798712	0.109368	1.477744	0.290585	0.033945	0.276365	2.798712	0.04498	1.56073	15.11634	5.825814	0.017503	0.00526	0.000457
Santa Clara	2024	MHDT	Aggregate	Aggregate	Diesel	1039.053	4340443.6	4340443.6	0	0	123939	0	1.232824	13.14099	1.642732	0.014397	0.029902	0	0.003	0.015941	0.015048	0.031254	0	0.012	0.045546	1147.78	2249.406	0	0.001507	0.01158	0	0.180833	0.354395	0	0.032455	0.249319	0	0	0	0	0.036947	0.283831	0	0	0	0	0.210532	0.120871	7.556027	0	0.010869	0.021301	0
Santa Clara	2024	MHDT	Aggregate	Aggregate	Electricity	30.91601	1660.353	0	1660.353	407.4536	2165.958	0	0	0	0	0	0	0	0.003	0.007956	0	0	0	0.012	0.022732	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2024	MHDT	Aggregate	Aggregate	Natural Ga	90.59449	4303.581	4303.581	0	0	827.6228	0	0.133415	6.499719	0	0.001179	0.018131	0	0.003	0.016007	0.001282	0.019719	0	0.012	0.045734	985.7588	5307.411	0	0.74573	17.31409	0	0.200953	1.08195	0	0.010655	0.247384	0	0	0	0	0.761072	17.6703	0	0	0	0	1.06	2.995842	34.7393	0	0	0	0
Santa Clara	2024	OBUS	Aggregate	Aggregate	Gasoline	443.1467	19894.31	19894.31	0	0	8866.48	0	0.49672	0.06506	0.408547	0.000907	0	0.000252	0.003	0.01568	0.000987	0	0.000274	0.012	0.044799	1765.144	379.5369	31.62131	0.013757	0.195733	0.03606	0.024018	0.005304	0.031028	0.067076	0.746281	0.190964	0.033873	0.154922	2.818385	0.097877	1.088971	0.209081	0.033873	0.154922	2.818385	0.044969	1.491576	5.774637	4.000641	0.01745	0.003752	0.000313
Santa Clara	2024	OBUS	Aggregate	Aggregate	Diesel	893.1376	61949.05	61949.05	0	0	9141.625	0	1.178643	7.363387	1.543157	0.019849	0.008167	0	0.003	0.018015	0.020746	0.008536	0	0.012	0.051472	1273.38	1538.564	0	0.001935	0.020479	0	0.200622	0.242401	0	0.04166	0.440905	0	0	0	0	0.047427	0.501937	0	0	0	0	0.216021	0.150181	7.500483	0	0.012058	0.014569	0
Santa Clara	2024	OBUS	Aggregate	Aggregate	Electricity	1.087481	92.50105	0	92.50105	21.75833	120.5612	0	0	0	0	0	0	0	0.003	0.00784	0	0	0	0.012	0.022399	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2024	OBUS	Aggregate	Aggregate	Natural Ga	7.05737	469.3876	469.3876	0	0	62.81059	0	0.190585	1.537414	0	0.00106	0.003899	0	0.003	0.016148	0.001153	0.004241	0	0.012	0.046137	1004.237	1191.581	0	0.789796	4.236895	0	0.20472	0.242912	0	0.011285	0.060537	0	0	0	0	0.806045	4.324062	0	0	0	0	1.06	3.254325	7.353064	0	0	0	0
Santa Clara	2024	SBUS	Aggregate	Aggregate	Gasoline	172.6948	8584.866	8584.866	0	0	690.7791	0	0.50288	0.925939	0.716801	0.000864	0	0.000567	0.002	0.015721	0.000939	0	0.000616	0.008	0.044917	810.994	2590.288	58.15601	0.011135	2.464862	0.074893	0.027101	0.086311	0.065929	0.054059	10.63288	0.426367	0.113914	0.274691	1.686167	0.078883	15.51547	0.466819	0.113914	0.274691	1.686167	0.045	1.38705	82.18841	10.36621	0.008018	0.025608	0.000575
Santa Clara	2024	SBUS	Aggregate	Aggregate	Diesel	670.5958	15345.26	15345.26	0	0	9710.228	0	3.821388	21.90481	0.482851	0.019766	0.019703	0	0.003	0.015721	0.02066	0.020594	0	0.012	0.044917	1144.573	2229.746	0	0.002665	0.008001	0	0.180328	0.351297	0	0.057376	0.172257	0	0	0	0	0.065318	0.196101	0	0	0	0	0.148025	0.1775	4.677792	0	0.010838	0.021114	0
Santa Clara	2024	SBUS	Aggregate	Aggregate	Electricity	2.064666	64.35501	0	64.35501	23.64639	79.759	0	0	0	0	0	0	0	0.002	0.002539	0.00786	0	0	0	0.010157	0.022459	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2024	SBUS	Aggregate	Aggregate	Natural Ga	24.3995	612.0941	612.0941	0	0	353.3048	0	0.567729	5.270895	0	0.003378	0.011357	0	0.003	0.015721	0.003674	0.012352	0	0.012	0.044917	1261.954	4069.912	0	3.436672	15.25665	0	0.257258	0.829678	0	0.049103	0.217987	0	0	0	0	3.507376	15.57053	0	0	0	0	1.06	11.64901	20.74693	0	0	0	0
Santa Clara	2024	UBUS	Aggregate	Aggregate	Gasoline	46.08313	4812.451	4812.451	0	0	184.3325	0	0.022257	0	0.486921	0.001143	0	0.000128	0.002	0.03185	0.001243	0	0.00014	0.008	0.091	926.1489	0	36.873	0.002057	0	0.045328	0.003566	0	0.078766	0.005717	0	0.161759	0.038099	0.092116	0.456438	0.008343	0	0.177106	0.038099	0.092116	0.456438	0.045	0.580123	0	6.063512	0.009156	0	0.000365
Santa Clara	2024	UBUS	Aggregate	Aggregate	Diesel	437.4745	48917.61	48917.61	0	0	1749.898	0	0.386257	0	0	0.007023	0	0	0.0083	0.0385	0.00734	0	0	0.0332	0.11	1101.14	0	0	0.003215	0	0	0.173485	0	0	0.069208	0	0	0	0	0	0.078788	0	0	0	0	0	0.187908	0.079368	0	0	0.010434	0	0
Santa Clara	2024	UBUS	Aggregate	Aggregate	Electricity	5.347565	235.0626	0	235.0626	21.39026	409.7714	0	0	0	0	0	0	0	0.00888	0.01925	0	0	0	0.03552	0.055	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2024	UBUS	Aggregate	Aggregate	Natural Ga	42.58696	4865.187	4865.187	0	0	170.3478	0	0.058788	0	0	0.000282	0	0	0.008183	0.0385	0.000295	0	0	0.032731	0.11	1299.206	0	0	4.246059	0	0	0.264852	0	0	0.060668	0	0	0	0	0	4.333415	0	0	0	0	0	0.97	49.04786	0	0	0	0	0

P2 Infra - CalEEMod Construction Inputs

Phase	CalEEMod WORKER TRIPS	CalEEMod VENDOR TRIPS	Total Worker Trips	Total Vendor Trips	CalEEMod HAULING TRIPS	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class	*Worker VMT*	*Vendor VMT*	*Hauling VMT*
Infrastructure	33	1	4488	136	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	48470.4	992.8	0

Number of Days Per Year					
2026	11/1/26	12/31/26	61	53	
2027	1/1/27	4/8/27	98	85	
			159	**137**	***Total Workdays***

Phase	Start Date	End Date	Days/Week	Workdays
Infrastructure	11/1/2026	4/8/2027	6	136

Summary of Construction Traffic Emissions (EMFAC2021)

CATEGORY	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	NBio- CO2	CH4	N2O	CO2e
						Grams								
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
Vendor	53.50	1906.74	950.83	13.18	296.85	103.53	400.38	44.67	44.40	89.07	1431145.58	77.01	210.24	#########
Worker	5006.10	3838.65	51946.07	136.56	14492.65	850.20	15342.85	2180.68	299.22	2479.90	13814414.64	443.09	392.52	#########
Total (g)	5059.60	5745.39	52896.90	149.74	14789.50	953.74	15743.23	2225.35	343.62	2568.97	15245560.22	520.11	602.76	#########
Total (lbs)	11.15	12.67	116.62	0.33	32.61	2.10	34.71	4.91	0.76	5.66	33610.71	1.15	1.33	34035.37
Total (tons)	0.01	0.01	0.06	0.00	0.02	0.00	0.02	0.00	0.00	0.00	16.81	0.00	0.00	17.02
Total (MT)											15.25	0.00	0.00	15.44

YEAR														
							Tons							
2026	0.0021	0.0024	0.0224	0.0001	0.0063	0.0004	0.0067	0.0009	0.0001	0.0011	5.8489	0.0002	0.0002	5.9228
2027	0.0034	0.0039	0.0359	0.0001	0.0100	0.0006	0.0107	0.0015	0.0002	0.0017	9.3966	0.0003	0.0004	9.5154

Category		Mix %	Adj	ROG_DIURN	ROG_HTSK	ROG_IDLEX	ROG_RESTL	ROG_RUNEX	ROG_RUNLS	ROG_STREX	NOX_IDLEX	NOX_RUNEX	NOX_STREX	CO_IDLEX	CO_RUNEX	CO_STREX	SO2_IDLEX	SO2_RUNEX	SO2_STREX	Road Dust PM10	PM10_PM BW	PM10_PM TW	PM10_IDLEX	PM10_RUNEX	PM10_STREX	Road Dust PM25	PM25_PM BW	PM25_PM TW	PM25_IDLEX	PM25_RUNEX	PM25_STREX	CO2_NBIO_IDLEX	CO2_NBIO_RUNEX	CO2_NBIO_STREX	CH4_IDLEX	CH4_RUNEX	CH4_STREX	N2O_IDLEX	N2O_RUNEX	N2O_STREX
																														19	22	23	8	9	10						
Hauling	HHDT	100.0	1	0.000106002	3.36143E-05	0.32445582	0	0.01701891	0.00030273	4.06848E-07	4.013652	1.701647234	2.760133946	5.153655	0.73309991	0.000738	0.00692351	0.014049606	1.33736E-07		0.081458	0.035132	0.002013	0.024769	3.29375E-07		0.02851	0.008783	0.001919	0.0236943	3.028E-07	795.66994	1554.9734	0.0135278	0.224309	0.111846137	7.49827E-08	0.128346	0.248265947	8.0417E-06
	MHD	0.0	0	0.021312827	0.005105771	0.024261021	0	0.02766184	0.04201809	0.043042965	0.837392	0.906228922	1.39169173	0.664762	0.2571492	0.934813	0.00145189	0.011343734	7.82441E-05	0.299	0.045088	0.012	0.001445	0.009635	9.6335E-05	0.04499	0.015781	0.003	0.001382	0.0092102	8.858E-05	156.6958	1196.5286	7.914622	0.014329	0.009524548	0.007918504	0.024186	0.153578352	0.005689167
Vendor	HHDT	50.0	0.5	5.30008E-05	1.68071E-05	0.16222791	0	0.00850945	0.00015136	2.03424E-07	2.006826	0.850823617	1.380066973	2.576828	0.36654996	0.000369	0.00346176	0.007024803	6.6868E-08		0.040729	0.017566	0.001006	0.012385	1.64687E-07		0.014255	0.004391	0.00096	0.0118471	1.514E-07	397.83497	777.4867	0.0067639	0.112154	0.055923068	3.74914E-08	0.064173	0.124132973	4.02085E-06
	MHD	50.0	0.5	0.010656414	0.002552885	0.01213051	0	0.01383092	0.02100905	0.021521482	0.418696	0.453114461	0.69584586	0.332381	0.1285746	0.467407	0.00072595	0.005671867	3.9122E-05		0.022544	0.006	0.000723	0.004818	4.81675E-05		0.00789	0.0015	0.000691	0.0046051	4.429E-05	78.3479	598.26431	3.957311	0.007164	0.004762274	0.003959252	0.012093	0.076789176	0.002844583
			1	0.010709414	0.002569693	0.17435842	0	0.02234037	0.02116041	0.021521686	2.425522	1.303938078	2.075912838	2.909209	0.49512456	0.467775	0.0041877	0.01269667	3.91889E-05	0.299	0.063273	0.023566	0.001729	0.017202	4.83322E-05	0.04499	0.022146	0.005891	0.001651	0.0164522	4.444E-05	476.18287	1375.751	3.9640749	0.119319	0.060685342	0.003959289	0.076266	0.200922149	0.002848604
Worker	LDA	50.0	0.5	0.127252154	0.036844958	0	0	0.00310372	0.09549445	0.127128959	0	0.015187697	0.103974769	0	0.2865276	1.277031	0	0.001162034	0.000300399		0.003561	0.004	0	0.000536	0.000895416		0.001246	0.001	0	0.000493	0.0008233	0	117.55101	30.386258	0	0.000837586	0.028479341	0	0.001839043	0.013991495
	LDT1	25.0	0.25	0.132430724	0.036894584	0	0	0.00546911	0.10347702	0.114577624	0	0.025800958	0.084390428	0	0.30194857	1.128878	0	0.000782025	0.000204392		0.002303	0.002	0	0.000427	0.000653661		0.000806	0.0005	0	0.0003926	0.000601	0	79.104787	20.674857	0	0.00125256	0.022898387	0	0.001992702	0.009041201
	LDT2	25.0	0.25	0.069772888	0.018822709	0	0	0.00230806	0.05209969	0.083130872	0	0.014000924	0.073061014	0	0.18549243	0.809666	0	0.000807532	0.000205841		0.002214	0.002	0	0.000311	0.000500467		0.000775	0.0005	0	0.000286	0.0004602	0	81.695643	20.821419	0	0.000600438	0.018292607	0	0.001336696	0.008608075
			1	0.329455766	0.09256225	0	0	0.01088088	0.25107116	0.324837454	0	0.054989579	0.261426211	0	0.7739686	3.215575	0	0.002751591	0.000710632	0.299	0.008078	0.008	0	0.001273	0.002049544	0.04499	0.002827	0.002	0	0.0011716	0.0018845	0	278.35144	71.882534	0	0.002690584	0.069670334	0	0.005168441	0.031640771

Adjustment Factors

Vehicle Category	Fuel	Population	Pop Fract	VMT (miles/day)	VMT Fract	Trips/day	Trip Fract
HHDT	GAS	1.89020752	1.35208E-05	133.7551311	0.0001234	37.81927211	0.000271
HHDT	DSL	8867.7948	0.063432193	1016011.772	0.9370067	130548.9889	0.93383
HHDT	ELEC	110.53021	0.000790633	11535.56622	0.0106386	1443.077984	0.010322
HHDT	NG	863.460788	0.006176418	56635.38916	0.0522314	7769.707198	0.055577
		9843.676		1084316.482		139799.5934	
LDA	GAS	598869.79	0.188087055	22031465.99	0.8579225	2780456.286	0.873258
LDA	DSL	1478.94439	0.000464492	42434.32107	0.0016524	6277.404518	0.001972
LDA	ELEC	64495.2374	0.020256021	2739705.459	0.1066863	312996.4352	0.098303
LDA	PIH	20380.4343	0.006400884	866414.1348	0.0337388	84273.09573	0.026468
		685224.406		25680019.9		3184003.221	
LDT1	GAS	50750.4663	0.2227592	1625960.476	0.9897832	225981.5443	0.991902
LDT1	DSL	18.4777091	8.11043E-05	256.5587046	0.0001562	50.46000376	0.000221
LDT1	ELEC	263.582249	0.001156942	10628.88084	0.0064702	1254.204016	0.005505
LDT1	PIH	130.681887	0.000573602	5898.081605	0.0035904	540.3696012	0.002372
		51163.2081		1642743.998		227826.578	
LDT2	GAS	296178.924	0.20930348	10561284.8	0.9761727	1383933.976	0.977997
LDT2	DSL	1079.58935	0.000762923	39200.14241	0.0036232	5104.360187	0.003607
LDT2	ELEC	2705.07863	0.001911623	90693.21971	0.0083827	13682.37248	0.009669
LDT2	PIH	2986.35294	0.002110393	127896.2709	0.0118214	12348.56941	0.008726
		302949.945		10819074.44		1415069.278	
LHDT1	GAS	19567.3461	0.045442701	734252.9018	0.6249776	291524.3015	0.677029
LHDT1	DSL	10635.3066	0.024699162	416619.2958	0.3546159	133778.7779	0.310684
LHDT1	ELEC	378.059313	0.000877995	23974.57119	0.0204066	5290.737608	0.012287
		30580.712	0.071019859	1174846.769		430593.817	
LHDT2	GAS	2513.65139	0.025065399	91174.02508	0.3142883	37449.6603	0.373437
LHDT2	DSL	4995.25765	0.049811253	193100.7206	0.6656423	62834.05723	0.626563
LHDT2	ELEC	96.3837305	0.00096111	5822.064359	0.0200694	1278.564611	0.012749
		7605.29277	0.075837763	290096.81		100283.7175	
MCY	GAS	28797.0402	0.022079204	167092.4818	1	57594.08046	1
MDV	GAS	162557.871	0.206502619	5631323.146	0.9567528	753924.3557	0.957735
MDV	DSL	2430.29858	0.003087288	84111.5401	0.0142904	11337.22426	0.014402
MDV	ELEC	2850.95624	0.003621664	95858.34981	0.0162862	14435.41314	0.018338
MDV	PIH	1813.35149	0.00230356	74577.72271	0.0126706	7498.208428	0.009525
		169652.477		5885870.759		787195.2015	
MH	GAS	2263.18626	6.910777091	21108.37627	0.6847412	226.409153	0.691354
MH	DSL	1010.77355	3.086458598	9718.417172	0.3152588	101.0773548	0.308646
		3273.9598		30826.79344		327.4865078	
MHDT	GAS	1410.72587	0.008877802	72468.64229	0.138924	28225.80314	0.177627
MHDT	DSL	10675.1143	0.067179283	435455.3677	0.8347775	127504.1973	0.802393
MHDT	ELEC	167.584141	0.001054619	8816.663208	0.0169017	2173.174133	0.013676
MHDT	NG	107.631411	0.000677332	4901.770989	0.0093968	1001.681745	0.006304
		12361.0558		521642.4442		158904.8563	
OBUS	GAS	419.199707	0.022896962	18162.11175	0.222027	8387.347733	0.458122
OBUS	DSL	949.045188	0.051837469	62674.48039	0.766179	9750.024999	0.532553
OBUS	ELEC	4.48415939	0.000244928	364.7881281	0.0044594	89.71906104	0.004901
OBUS	NG	9.10124392	0.000497116	599.9791039	0.0073346	81.00107088	0.004424
		1381.8303		81801.35938		18308.09286	
SBUS	GAS	183.793304	0.016745925	9054.55067	0.3599899	735.1732154	0.066984
SBUS	DSL	674.99811	0.061500976	15210.89393	0.6047531	9773.972631	0.890534
SBUS	ELEC	7.58722201	0.000691293	244.2394962	0.0097104	87.39442404	0.007963
SBUS	NG	26.1646758	0.002383937	642.552257	0.0255465	378.8645055	0.034519
		892.543311		25152.23635		10975.40478	
UBUS	GAS	46.3552203	0.021676301	4840.86478	0.0818022	185.4208811	0.086705
UBUS	DSL	396.770048	0.185534807	44084.04198	0.744944	1587.080193	0.742139
UBUS	ELEC	28.6595887	0.11400839	2995.55797	0.4127709	114.6383548	0.456034
UBUS	NG	62.8453498	0.029387298	7257.192256	0.122634	251.3813993	0.117549
		534.630207		59177.65698		2138.520829	

Source: EMFAC2021 (v1.0.1) Emission Rates
Region Type: County
Region: Santa Clara
Calendar Year: 2026
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN

Region	Calendar Y	Vehicle Cat	Model Yea	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	Energy Con	NOx_RUNEX	NOx_IDLEX	NOx_STREX	PM2.5_RU	PM2.5_IDL	PM2.5_STR	PM2.5_PM	PM2.5_PM	PM10_RUN	PM10_IDLE	PM10_STR	PM10_PM	PM10_PM	CO2_RUNEX	CO2_IDLEX	CO2_STREX	CH4_RUNEX	CH4_IDLEX	CH4_STREX	N2O_RUNEX	N2O_IDLEX	N2O_STREX	ROG_RUNI	ROG_IDLEX	ROG_STREX	ROG_HOTS	ROG_RUNI	ROG_DIUR	TOG_RUNEX	TOG_IDLEX	TOG_STREX	TOG_HOTS	TOG_RUNI	TOG_DIUR	NH3_RUNEX	CO_RUNEX	CO_IDLEX	CO_STREX	SOx_RUNE	SOx_IDLEX	SOx_STREX
Santa Clara	2026	HHDT	Aggregate	Aggregate	Gasoline	1.890208	133.7551	133.7551	0	37.81927	0	3.912832	0	0.833967	0.00242	0	0.001119	0.005	0.0327	0.002632	0	0.001218	0.02	0.093428	2030.337	0	50.00574	0.151681	0	0.000277	0.138602	0	0.029726	0.841165	0	0.001504	0.124256	1.119044	7.839877	1.227426	0	0.001647	0.124256	1.119044	7.839877	0.044272	33.21272	0	2.727013	0.020072	0	0.000494
Santa Clara	2026	HHDT	Aggregate	Aggregate	Diesel	8867.795	1016012	1016012	0	130549	0	1.761105	62.0312	2.955473	0.025195	0.027767	0	0.008774	0.027513	0.026334	0.029023	0	0.035095	0.07861	1583.151	11526.41	0	0.000725	0.23528	0	0.249426	1.815991	0	0.015602	5.065515	0	0	0	0	0	0.017762	5.766703	0	0	0	0	0	0.215914	0.07407	73.94194	0	0.014991	0.109148	0
Santa Clara	2026	HHDT	Aggregate	Aggregate	Electricity	110.5302	11535.57	0	11535.57	1443.078	21268.51	0	0	0	0	0	0	0.008558	0.014729	0	0	0	0.034232	0.042083	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2026	HHDT	Aggregate	Aggregate	Natural Ga	863.4608	56635.39	56635.39	0	7769.707	0	0.976371	12.77067	0	0.001645	0.025604	0	0.009	0.049192	0.001789	0.027847	0	0.036	0.140547	1365.074	10446.87	0	2.127999	33.90059	0	0.278279	2.129663	0	0.043949	0.508241	0	0	0	0	0	0.218721	34.62523	0	0	0	0	0	0.835034	12.62839	75.02016	0	0	0	0
Santa Clara	2026	LDA	Aggregate	Aggregate	Gasoline	598869.8	22031466	22031466	0	2780456	0	0.034968	0	0.23463	0.001102	0	0.001828	0.002	0.002655	0.001199	0	0.001988	0.008	0.007585	268.3766	0	67.64288	0.001934	0	0.063951	0.004196	0	0.031426	0.007138	0	0.285908	0.083161	0.217573	1.338275	0.019415	0	0.313033	0.083161	0.217573	1.338275	0.036474	0.653928	0	2.884139	0.002653	0	0.000669
Santa Clara	2026	LDA	Aggregate	Aggregate	Diesel	1478.944	42434.32	42434.32	0	6277.405	0	0.163286	0	0	0.013397	0	0	0.002	0.002717	0.014003	0	0	0.008	0.007761	228.026	0	0	0.001079	0	0	0.035926	0	0	0.023239	0	0	0.026457	0	0	0	0.026457	0	0	0	0	0	0.0031	0.307439	0	0	0.002161	0	0
Santa Clara	2026	LDA	Aggregate	Aggregate	Electricity	64495.24	2739705	0	2739705	312996.4	1057752	0	0	0	0	0	0	0.002	0.001535	0	0	0	0.008	0.004385	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2026	LDA	Aggregate	Aggregate	Plug-in Hyb	20380.43	866414.1	412496.8	453917.3	84273.1	137096.6	0.003124	0	0.11551	0.000542	0	0.001902	0.002	0.001386	0.000589	0	0.002068	0.008	0.00396	132.7519	0	64.33622	0.000421	0	0.042044	0.000552	0	0.020392	0.001351	0	0.173285	0.040391	0.037456	0.436203	0.019017	0.204877	0	0.189725	0.040391	0.037456	0.436203	0.019017	0.204877	0	1.339893	0.001312	0	0.000636
Santa Clara	2026	LDT1	Aggregate	Aggregate	Gasoline	50750.47	1625960	1625960	0	225981.5	0	0.104002	0	0.340042	0.001548	0	0.002421	0.002	0.003241	0.001684	0	0.002633	0.008	0.009261	319.1884	0	83.2086	0.001658	0	0.092241	0.008041	0	0.036412	0.022051	0	0.461638	0.148727	0.41724	2.377298	0.032177	0	0.505436	0.148727	0.41724	2.377298	0.036833	1.219346	0	4.549174	0.003156	0	0.000823
Santa Clara	2026	LDT1	Aggregate	Aggregate	Diesel	18.47771	256.5587	256.5587	0	50.46	0	1.626008	0	0	0.235786	0	0	0.002	0.003714	0.246448	0	0	0.008	0.010612	414.3219	0	0	0.013655	0	0	0.065277	0	0	0.293995	0	0	0	0	0	0	0.334693	0	0	0	0	0	0.0031	1.580267	0	0	0.003926	0	0
Santa Clara	2026	LDT1	Aggregate	Aggregate	Electricity	263.5822	10628.88	0	10628.88	1254.204	4103.625	0	0	0	0	0	0	0.002	0.001536	0	0	0	0.008	0.004388	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2026	LDT1	Aggregate	Aggregate	Plug-in Hyb	130.6819	5898.082	2516.052	3382.03	540.3696	1021.474	0.002799	0	0.11551	0.000332	0	0.001311	0.002	0.001397	0.000362	0	0.001426	0.008	0.003992	118.9473	0	69.43161	0.000375	0	0.041793	0.000489	0	0.020158	0.00121	0	0.173285	0.023415	0.020044	0.275174	0.001766	0	0.189725	0.023415	0.020044	0.275174	0.017917	0.183572	0	1.339893	0.001176	0	0.000686
Santa Clara	2026	LDT2	Aggregate	Aggregate	Gasoline	296178.9	10561285	10561285	0	1383934	0	0.057197	0	0.297788	0.00115	0	0.001868	0.002	0.003134	0.00125	0	0.002032	0.008	0.008953	332.1248	0	84.47809	0.002453	0	0.074444	0.005294	0	0.035027	0.009395	0	0.338458	0.076755	0.212879	1.330363	0.013709	0	0.370569	0.076755	0.212879	1.330363	0.037798	0.757265	0	3.299571	0.003283	0	0.000835
Santa Clara	2026	LDT2	Aggregate	Aggregate	Diesel	1079.589	39200.14	39200.14	0	5104.36	0	0.037108	0	0	0.004598	0	0	0.002	0.00313	0.004806	0	0	0.008	0.008943	302.0718	0	0	0.000595	0	0	0.047592	0	0	0.012807	0	0	0.01458	0	0	0	0.01458	0	0	0	0	0	0.0031	0.12935	0	0	0.002862	0	0
Santa Clara	2026	LDT2	Aggregate	Aggregate	Electricity	2705.079	90693.22	0	90693.22	13682.37	35015.07	0	0	0	0	0	0	0.002	0.001528	0	0	0	0.008	0.004365	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2026	LDT2	Aggregate	Aggregate	Plug-in Hyb	2986.353	127896.3	57308.29	70587.98	12348.57	21319.68	0.00294	0	0.11551	0.000411	0	0.00154	0.002	0.001392	0.000447	0	0.001675	0.008	0.003978	124.9411	0	76.35739	0.000394	0	0.041776	0.000513	0	0.020142	0.001271	0	0.173285	0.025698	0.023308	0.30414	0.001855	0	0.189725	0.025698	0.023308	0.30414	0.018799	0.192822	0	1.339893	0.001235	0	0.000755
Santa Clara	2026	LHDT1	Aggregate	Aggregate	Gasoline	19567.35	734252.9	734252.9	0	291524.3	0	0.134825	0.034078	0.592259	0.00144	0	0.000258	0.002	0.0273	0.001567	0	0.00028	0.008	0.078	841.5517	116.9335	25.61185	0.00645	0.107779	0.030306	0.00767	0.002904	0.048837	0.03157	0.390607	0.14863	0.042429	0.244239	2.568634	0.046067	0.569973	0.162731	0.042429	0.244239	2.568634	0.044952	1.000325	3.761042	3.194844	0.00832	0.001156	0.000253
Santa Clara	2026	LHDT1	Aggregate	Aggregate	Diesel	10635.31	416619.3	416619.3	0	133778.8	0	1.219281	1.732484	0	0.030022	0.026603	0	0.003	0.0273	0.031379	0.027806	0	0.012	0.078	625.228	128.0664	0	0.006994	0.005098	0	0.098505	0.020177	0	0.150578	0.10976	0	0	0	0	0	0.171423	0.124954	0	0	0	0	0.184377	0.40172	0.909745	0	0.005924	0.001213	0
Santa Clara	2026	LHDT1	Aggregate	Aggregate	Electricity	378.0593	23974.57	0	23974.57	5290.738	15701.21	0	0	0	0	0	0	0.002	0.01365	0	0	0	0.008	0.039	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2026	LHDT2	Aggregate	Aggregate	Gasoline	2513.651	91174.03	91174.03	0	37449.66	0	0.127191	0.033359	0.581518	0.001301	0	0.0002	0.002	0.03185	0.001415	0	0.000218	0.008	0.091	950.6797	135.3583	25.11699	0.00457	0.105616	0.029314	0.007823	0.002803	0.047205	0.020413	0.382638	0.142338	0.039798	0.221425	2.401547	0.029786	0.558345	0.155842	0.039798	0.221425	2.401547	0.04499	0.781956	3.768092	3.147796	0.009398	0.001338	0.000248
Santa Clara	2026	LHDT2	Aggregate	Aggregate	Diesel	4995.258	193100.7	193100.7	0	62834.06	0	1.030069	1.717944	0	0.028773	0.027014	0	0.003	0.03185	0.030074	0.028235	0	0.012	0.091	744.6842	205.1133	0	0.00672	0.005098	0	0.117325	0.032316	0	0.146681	0.10976	0	0	0	0	0	0.16471	0.124954	0	0	0	0	0.19232	0.367309	0.909745	0	0.007056	0.001944	0
Santa Clara	2026	LHDT2	Aggregate	Aggregate	Electricity	96.38373	5822.064	0	5822.064	1278.565	3755.595	0	0	0	0	0	0	0.002	0.015925	0	0	0	0.008	0.0455	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2026	MCY	Aggregate	Aggregate	Gasoline	28797.04	167092.5	167092.5	0	57594.08	0	0.54585	0	0.123182	0.001818	0	0.003256	0.001	0.0042	0.001945	0	0.00347	0.004	0.012	186.8446	0	46.30646	0.154451	0	0.172746	0.038475	0	0.007381	0.991178	0	1.267526	3.558543	3.769688	3.854231	1.200425	0	1.378329	3.558543	3.769688	3.854231	0.008889	11.99329	0	7.931677	0.001847	0	0.000458
Santa Clara	2026	MDV	Aggregate	Aggregate	Gasoline	162557.9	5631323	5631323	0	753924.4	0	0.077249	0	0.361249	0.00113	0	0.001888	0.002	0.003182	0.001228	0	0.002053	0.008	0.00909	402.7076	0	102.7358	0.003084	0	0.087398	0.006351	0	0.037495	0.012544	0	0.424623	0.087977	0.255029	1.559913	0.018304	0	0.464909	0.087977	0.255029	1.559913	0.037518	0.838043	0	3.531694	0.003981	0	0.001016
Santa Clara	2026	MDV	Aggregate	Aggregate	Diesel	2430.299	84111.54	84111.54	0	11337.22	0	0.040802	0	0	0.004381	0	0	0.002	0.003241	0.004579	0	0	0.008	0.009261	399.673	0	0	0.000469	0	0	0.062969	0	0	0.010103	0	0	0.011502	0	0	0	0.011502	0	0	0	0	0	0.0031	0.197458	0	0	0.003787	0	0
Santa Clara	2026	MDV	Aggregate	Aggregate	Electricity	2850.956	95858.35	0	95858.35	14435.41	37009.23	0	0	0	0	0	0	0.002	0.001528	0	0	0	0.008	0.004365	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2026	MDV	Aggregate	Aggregate	Plug-in Hyb	1813.351	74577.72	33714.26	40863.46	7498.208	12341.98	0.002966	0	0.11551	0.000463	0	0.001713	0.002	0.001392	0.000504	0	0.001863	0.008	0.003977	126.0521	0	93.79299	0.000396	0	0.041612	0.000513	0	0.019989	0.001283	0	0.173285	0.029908	0.026996	0.337381	0.001872	0	0.189725	0.029908	0.026996	0.337381	0.018987	0.194537	0	1.339893	0.001246	0	0.000927
Santa Clara	2026	MH	Aggregate	Aggregate	Gasoline	2263.186	21108.38	21108.38	0	226.4092	0	0.335195	0	0.432131	0.001549	0	0.000374	0.003	0.015756	0.001685	0	0.000406	0.012	0.045017	1946.632	0	31.26805	0.012049	0	0.036404	0.022132	0	0.046519	0.050974	0	0.149854	10.64717	0.254614	4.131655	0.074381	0	0.164071	10.64717	0.254614	4.131655	0.044921	1.181993	0	3.275797	0.019244	0	0.000309
Santa Clara	2026	MH	Aggregate	Aggregate	Diesel	1010.774	9718.417	9718.417	0	101.0774	0	3.846579	0	0	0.08072	0	0	0.004	0.015675	0.084369	0	0	0.016	0.044785	1082.849	0	0	0.005293	0	0	0.170603	0	0	0.11395	0	0	0	0	0	0	0.129725	0	0	0	0	0	0.16529	0.373655	0	0	0.010261	0	0
Santa Clara	2026	MHDT	Aggregate	Aggregate	Gasoline	1410.726	72468.64	72468.64	0	28225.8	0	0.333028	0.083566	0.407845	0.001339	0	0.000499	0.003	0.015756	0.001457	0	0.000542	0.012	0.045017	1727.179	521.8124	44.55752	0.010627	0.263675	0.044579	0.017598	0.007127	0.032029	0.051634	1.01721	0.242322	0.028744	0.236552	2.400687	0.073545	1.48431	0.265312	0.028744	0.236552	2.400687	0.044997	1.050142	15.1686	5.262786	0.017075	0.005159	0.00044
Santa Clara	2026	MHDT	Aggregate	Aggregate	Diesel	1067.5.11	4354555.4	435455.4	0	127504.2	0	1.02886	12.38939	1.644141	0.010796	0.020382	0	0.003	0.015941	0.011284	0.021304	0	0.012	0.045545	1134.952	2210.329	0	0.001134	0.010419	0	0.178812	0.348238	0	0.024422	0.224312	0	0	0	0	0	0.027803	0.255363	0	0	0	0	0.213113	0.099563	7.520816	0	0.010747	0.02093	0
Santa Clara	2026	MHDT	Aggregate	Aggregate	Electricity	167.5841	8816.663	0	8816.663	2173.174	9651.078	0	0	0	0	0	0	0.003	0.007951	0	0	0	0.012	0.022716	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2026	MHDT	Aggregate	Aggregate	Natural Ga	107.6314	4901.771	4901.771	0	1001.682	0	0.116472	6.407029	0	0.001266	0.018977	0	0.003	0.01601	0.001377	0.020639	0	0.012	0.045743	973.703	5277.958	0	0.755705	16.66564	0	0.198496	1.075946	0	0.010798	0.238119	0	0	0	0	0	0.771252	17.00851	0	0	0	0	1.06	2.995274	36.69576	0	0	0	0
Santa Clara	2026	OBUS	Aggregate	Aggregate	Gasoline	419.1997	18162.11	18162.11	0	8387.348	0	0.418185	0.062602	0.399155	0.00097	0	0.000258	0.003	0.01568	0.001055	0	0.000281	0.012	0.044799	1724.911	374.6239	31.08783	0.011431	0.195819	0.035179	0.020728	0.005108	0.030453	0.055331	0.746751	0.186435	0.035194	0.177337	3.200029	0.080739	1.089657	0.204123	0.035194	0.177337	3.200029	0.04499	1.215872	5.777453	3.882011	0.017053	0.003704	0.000307
Santa Clara	2026	OBUS	Aggregate	Aggregate	Diesel	949.0452	62674.48	62674.48	0	9750.025	0	1.092349	6.912226	1.518478	0.018173	0.007147	0	0.003	0.018049	0.018995	0.00747	0	0.012	0.05157	1245.043	1523.794	0	0.001766	0.020826	0	0.196157	0.240074	0	0.038011	0.448385	0	0	0	0	0	0.043273	0.510453	0	0	0	0	0.216379	0.139488	7.649271	0	0.01179	0.014429	0
Santa Clara	2026	OBUS	Aggregate	Aggregate	Electricity	4.484159	364.7881	0	364.7881	89.71906	404.1294	0	0	0	0	0	0	0.003	0.00784	0	0	0	0.012	0.022399	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2026	OBUS	Aggregate	Aggregate	Natural Ga	9.101244	599.9791	599.9791	0	81.00107	0	0.145347	1.518344	0	0.001276	0.004354	0	0.003	0.016148	0.001388	0.004735	0	0.012	0.046137	975.0003	1187.914	0	0.81456	4.001439	0	0.19876	0.242164	0	0.011638	0.057173	0	0	0	0	0	0.831318	4.083762	0	0	0	0	1.06	3.321042	8.378673	0	0	0	0
Santa Clara	2026	SBUS	Aggregate	Aggregate	Gasoline	183.7933	9054.551	9054.551	0	735.1732	0	0.474165	0.887577	0.73371	0.000873	0	0.00058	0.002	0.015721	0.00095	0	0.000631	0.008	0.044917	802.4349	2565.528	57.27504	0.01005	2.4667	0.074539	0.025921	0.082658	0.067212	0.048718	10.63718	0.423572	0.1241	0.322638	1.96833	0.07109	15.52175	0.463758	0.1241	0.322638	1.96833	0.045	1.246814	82.21455	10.07789	0.007933	0.025363	0.000566
Santa Clara	2026	SBUS	Aggregate	Aggregate	Diesel	674.9981	15210.89	15210.89	0	9773.973	0	3.406071	20.83077	0.509343	0.017715	0.016839	0	0.003	0.015721	0.018516	0.017601	0	0.012	0.044917	1135.538	2209.663	0	0.002498	0.007888	0	0.178905	0.348133	0	0.053781	0.169828	0	0	0	0	0	0.061225	0.193336	0	0	0	0	0.155771	0.169257	4.880858	0	0.010753	0.020924	0
Santa Clara	2026	SBUS	Aggregate	Aggregate	Electricity	7.587222	244.2395	0	244.2395	87.39442	257.2955	0	0	0	0	0	0	0.002	0.00786	0	0	0	0.01027	0.022459	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2026	SBUS	Aggregate	Aggregate	Natural Ga	26.16468	642.5523	642.5523	0	378.8645	0	0.532059	5.249897	0	0.003378	0.011858	0	0.003	0.015721	0.003674	0.012897	0	0.012	0.044917	1243.421	4080.833	0	3.338467	14.99739	0	0.25348	0.831904	0	0.0477	0.214283	0	0	0	0	0	3.407151	15.30593	0	0	0	0	1.06	11.18687	21.87624	0	0	0	0
Santa Clara	2026	UBUS	Aggregate	Aggregate	Gasoline	46.35522	4840.865	4840.865	0	185.4209	0	0.026897	0	0.439741	0.001143	0	0.000128	0.002	0.03185	0.001243	0	0.00014	0.008	0.091	925.6516	0	36.30949	0.001945	0	0.042807	0.004209	0	0.069602	0.005374	0	0.151507	0.043604	0.092107	0.471119	0.007841	0	0.165881	0.043604	0.092107	0.471119	0.045	0.590355	0	5.738214	0.009151	0	0.000359
Santa Clara	2026	UBUS	Aggregate	Aggregate	Diesel	396.77	44084.04	44084.04	0	1587.08	0	0.382074	0	0	0.006946	0	0	0.002	0.008221	0.0385	0.00726	0	0.032883	0.11	1310.339	0	0	0.003187	0	0	0.174934	0	0	0.068625	0	0	0.078125	0	0	0	0.078518	0	0	0	0	0	0.22	0.078518	0	0	0.010521	0	0
Santa Clara	2026	UBUS	Aggregate	Aggregate	Electricity	28.65959	2995.558	0	2995.558	114.6384	5221.989	0	0	0	0	0	0	0.008972	0.01925	0	0	0	0.035887	0.055	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2026	UBUS	Aggregate	Aggregate	Natural Ga	62.84535	7257.192	7257.192	0	251.3814	0	0.060787	0	0	0.000288	0	0	0.008445	0.0385	0.000301	0	0	0.033781	0.11	1320.935	0	0	4.332576	0	0	0.269281	0	0	0.061904	0	0	0	0	0	0	0.421712	0	0	0	0	0	0.97	50.5588	0	0	0	0	0

P3 (R3, R4b, R5) - CalEEMod Construction Inputs

Phase	CalEEMod WORKER TRIPS	CalEEMod VENDOR TRIPS	Total Worker Trips	Total Vendor Trips	CalEEMod HAULING TRIPS	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class	*Worker VMT*	*Vendor VMT*	*Hauling VMT*
Demolition	30	0	3000	0	1,874	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	32400	0	37480
Site Preparation	8	1	328	41	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	3542.4	299.3	0
Grading	60	0	8640	0	17,762	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	93312	0	355240
Trenching/Foundation	35	0	14420	0	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	155736	0	0
Building Construction	656	122	661248	122976	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	7141478	897724.8	0
Paving	13	0	1599	0	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	17269.2	0	0
Architectural Coating	131	0	16113	0	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	174020.4	0	0

Number of Days Per Year					
2026	1/1/26	12/31/26	365	313	
2027	1/1/27	12/31/27	365	313	
2028	1/1/28	12/31/28	366	314	
2029	1/1/29	12/31/29	365	313	
2030	1/1/30	1/21/30	21	18	
			1482	**1271**	***Total Workdays***

Phase	Start Date	End Date	Days/Week	Workdays
Demolition	1/1/2026	4/27/2026	6	100
Site Preparation	3/1/2026	4/17/2026	6	41
Grading	3/18/2026	9/1/2026	6	144
Trenching/Foundation	5/17/2026	9/9/2027	6	412
Building Construction	11/3/2026	1/21/2030	6	1,008
Paving	12/24/2027	5/15/2028	6	123
Architectural Coating	2/13/2028	7/5/2028	6	123

Summary of Construction Traffic Emissions (EMFAC2021)

CATEGORY	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	NBio- CO2	CH4	N2O	CO2e
						Grams								
Hauling	13063.37	801280.96	389114.66	5653.51	117423.28	55554.13	172977.41	17668.47	23988.74	41657.22	##########	48328.74	100019.36	#########
Vendor	48395.42	1724720.83	860060.24	11921.90	268509.21	93650.09	362159.30	40402.10	40161.00	80563.10	##########	69662.20	190165.40	#########
Worker	786773.48	603293.78	8164004.90	21462.20	2277709.76	133620.67	2411330.43	342722.95	47026.45	389749.40	##########	69638.05	61689.69	#########
Total (g)	848232.27	3129295.58	9413179.79	39037.61	2663642.25	282824.89	2946467.13	400793.53	111176.19	511969.72	##########	187628.99	351874.45	#########
Total (lbs)	1870.03	6898.92	20752.51	86.06	5872.33	623.52	6495.85	883.60	245.10	1128.70	9021168.58	413.65	775.75	#########
Total (tons)	0.94	3.45	10.38	0.04	2.94	0.31	3.25	0.44	0.12	0.56	4510.58	0.21	0.39	4631.34
Total (MT)											4091.93	0.19	0.35	4201.48

YEAR														
							Tons							
2026	0.2303	0.8496	2.5556	0.0106	0.7231	0.0768	0.7999	0.1088	0.0302	0.1390	1007.7973	0.0462	0.0867	1034.7781
2027	0.2303	0.8496	2.5556	0.0106	0.7231	0.0768	0.7999	0.1088	0.0302	0.1390	1007.7973	0.0462	0.0867	1034.7781
2028	0.2309	0.8519	2.5626	0.0106	0.7251	0.0770	0.8021	0.1091	0.0303	0.1394	1010.5584	0.0463	0.0869	1037.6131
2029	0.2303	0.8496	2.5556	0.0106	0.7231	0.0768	0.7999	0.1088	0.0302	0.1390	1007.7973	0.0462	0.0867	1034.7781
2030	0.0132	0.0489	0.1470	0.0006	0.0416	0.0044	0.0460	0.0063	0.0017	0.0080	57.9829	0.0027	0.0050	59.5352

Category		Mix %	Adj	ROG_DIURN	ROG_HTSK	ROG_IDLEX	ROG_RESTL	ROG_RUNEX	ROG_RUNLS	ROG_STREX	NOX_IDLEX	NOX_RUNEX	NOX_STREX	CO_IDLEX	CO_RUNEX	CO_STREX	SO2_IDLEX	SO2_RUNEX	SO2_STREX	Road Dust PM10	PM10_PM BW	PM10_PM TW	PM10_IDLEX	PM10_RUNEX	PM10_STREX	Road Dust PM25	PM25_PM BW	PM25_PM TW	PM25_IDLEX	PM25_RUNEX	PM25_STREX	CO2_NBIO_IDLEX	CO2_NBIO_RUNEX	CO2_NBIO_STREX	CH4_IDLEX	CH4_RUNEX	CH4_STREX	N2O_IDLEX	N2O_RUNEX	N2O_STREX
																														19	22	23	8	9	10						
Hauling	HHDT	100.0	1	0.000106002	3.36143E-05	0.32445582	0	0.01701891	0.00030273	4.06848E-07	4.013652	1.701647234	2.760133946	5.153655	0.73309991	0.000738	0.00692351	0.014049606	1.33736E-07		0.081458	0.035132	0.002013	0.024769	3.29375E-07		0.02851	0.008783	0.001919	0.0236943	3.028E-07	795.66994	1554.9734	0.0135278	0.224309	0.111846137	7.49827E-08	0.128346	0.248265947	8.0417E-06
	MHD	0.0	0	0.021312827	0.005105771	0.024261021	0	0.02766184	0.04201809	0.043042965	0.837392	0.906228922	1.39169173	0.664762	0.2571492	0.934813	0.00145189	0.011343734	7.82441E-05	0.299	0.045088	0.012	0.001445	0.009635	9.6335E-05	0.04499	0.015781	0.003	0.001382	0.0092102	8.858E-05	156.6958	1196.5286	7.914622	0.014329	0.009524548	0.007918504	0.024186	0.153578352	0.005689167
Vendor	HHDT	50.0	0.5	5.30008E-05	1.68071E-05	0.16222791	0	0.00850945	0.00015136	2.03424E-07	2.006826	0.850823617	1.380066973	2.576828	0.36654996	0.000369	0.00346176	0.007024803	6.6868E-08		0.040729	0.017566	0.001006	0.012385	1.64687E-07		0.014255	0.004391	0.00096	0.0118471	1.514E-07	397.83497	777.4867	0.0067639	0.112154	0.055923068	3.74914E-08	0.064173	0.124132973	4.02085E-06
	MHD	50.0	0.5	0.010656414	0.002552885	0.01213051	0	0.01383092	0.02100905	0.021521482	0.418696	0.453114461	0.69584586	0.332381	0.1285746	0.467407	0.00072595	0.005671867	3.9122E-05		0.022544	0.006	0.000723	0.004818	4.81675E-05		0.00789	0.0015	0.000691	0.0046051	4.429E-05	78.3479	598.26431	3.957311	0.007164	0.004762274	0.003959252	0.012093	0.076789176	0.002844583
			1	0.010709414	0.002569693	0.17435842	0	0.02234037	0.02116041	0.021521686	2.425522	1.303938078	2.075912838	2.909209	0.49512456	0.467775	0.0041877	0.01269667	3.91889E-05	0.299	0.063273	0.023566	0.001729	0.017202	4.83322E-05	0.04499	0.022146	0.005891	0.001651	0.0164522	4.444E-05	476.18287	1375.751	3.9640749	0.119319	0.060685342	0.003959289	0.076266	0.200922149	0.002848604
Worker	LDA	50.0	0.5	0.127252154	0.036844958	0	0	0.00310372	0.09549445	0.127128959	0	0.015187697	0.103974769	0	0.2865276	1.277031	0	0.001162034	0.000300399		0.003561	0.004	0	0.000536	0.000895416		0.001246	0.001	0	0.000493	0.0008233	0	117.55101	30.386258	0	0.000837586	0.028479341	0	0.001839043	0.013991495
	LDT1	25.0	0.25	0.132430724	0.036894584	0	0	0.00546911	0.10347702	0.114577624	0	0.025800958	0.084390428	0	0.30194857	1.128878	0	0.000782025	0.000204392		0.002303	0.002	0	0.000427	0.000653661		0.000806	0.0005	0	0.0003926	0.000601	0	79.104787	20.674857	0	0.00125256	0.022898387	0	0.001992702	0.009041201
	LDT2	25.0	0.25	0.069772888	0.018822709	0	0	0.00230806	0.05209969	0.083130872	0	0.014000924	0.073061014	0	0.18549243	0.809666	0	0.000807532	0.000205841		0.002214	0.002	0	0.000311	0.000500467		0.000775	0.0005	0	0.000286	0.0004602	0	81.695643	20.821419	0	0.000600438	0.018292607	0	0.001336696	0.008608075
			1	0.329455766	0.09256225	0	0	0.01088088	0.25107116	0.324837454	0	0.054989579	0.261426211	0	0.7739686	3.215575	0	0.002751591	0.000710632	0.299	0.008078	0.008	0	0.001273	0.002049544	0.04499	0.002827	0.002	0	0.0011716	0.0018845	0	278.35144	71.882534	0	0.002690584	0.069670334	0	0.005168441	0.031640771

Adjustment Factors

Vehicle Category	Fuel	Population	Pop Fract	VMT (miles/day)	VMT Fract	Trips/day	Trip Fract
HHDT	GAS	1.89020752	1.35208E-05	133.7551311	0.0001234	37.81927211	0.000271
HHDT	DSL	8867.7948	0.063432193	1016011.772	0.9370067	130548.9889	0.93383
HHDT	ELEC	110.53021	0.000790633	11535.56622	0.0106386	1443.077984	0.010322
HHDT	NG	863.460788	0.006176418	56635.38916	0.0522314	7769.707198	0.055577
		9843.676		1084316.482		139799.5934	
LDA	GAS	598869.79	0.188087055	22031465.99	0.8579225	2780456.286	0.873258
LDA	DSL	1478.94439	0.000464492	42434.32107	0.0016524	6277.404518	0.001972
LDA	ELEC	64495.2374	0.020256021	2739705.459	0.1066863	312996.4352	0.098303
LDA	PIH	20380.4343	0.006400884	866414.1348	0.0337388	84273.09573	0.026468
		685224.406		25680019.9		3184003.221	
LDT1	GAS	50750.4663	0.2227592	1625960.476	0.9897832	225981.5443	0.991902
LDT1	DSL	18.4777091	8.11043E-05	256.5587046	0.0001562	50.46000376	0.000221
LDT1	ELEC	263.582249	0.001156942	10628.88084	0.0064702	1254.204016	0.005505
LDT1	PIH	130.681887	0.000573602	5898.081605	0.0035904	540.3696012	0.002372
		51163.2081		1642743.998		227826.578	
LDT2	GAS	296178.924	0.20930348	10561284.8	0.9761727	1383933.976	0.977997
LDT2	DSL	1079.58935	0.000762923	39200.14241	0.0036232	5104.360187	0.003607
LDT2	ELEC	2705.07863	0.001911623	90693.21971	0.0083827	13682.37248	0.009669
LDT2	PIH	2986.35294	0.002110393	127896.2709	0.0118214	12348.56941	0.008726
		302949.945		10819074.44		1415069.278	
LHDT1	GAS	19567.3461	0.045442701	734252.9018	0.6249776	291524.3015	0.677029
LHDT1	DSL	10635.3066	0.024699162	416619.2958	0.3546159	133778.7779	0.310684
LHDT1	ELEC	378.059313	0.000877995	23974.57119	0.0204066	5290.737608	0.012287
		30580.712	0.071019859	1174846.769		430593.817	
LHDT2	GAS	2513.65139	0.025065399	91174.02508	0.3142883	37449.6603	0.373437
LHDT2	DSL	4995.25765	0.049811253	193100.7206	0.6656423	62834.05723	0.626563
LHDT2	ELEC	96.3837305	0.00096111	5822.064359	0.0200694	1278.564611	0.012749
		7605.29277	0.075837763	290096.81		100283.7175	
MCY	GAS	28797.0402	0.022079204	167092.4818	1	57594.08046	1
MDV	GAS	162557.871	0.206502619	5631323.146	0.9567528	753924.3557	0.957735
MDV	DSL	2430.29858	0.003087288	84111.5401	0.0142904	11337.22426	0.014402
MDV	ELEC	2850.95624	0.003621664	95858.34981	0.0162862	14435.41314	0.018338
MDV	PIH	1813.35149	0.00230356	74577.72271	0.0126706	7498.208428	0.009525
		169652.477		5885870.759		787195.2015	
MH	GAS	2263.18626	6.910777091	21108.37627	0.6847412	226.409153	0.691354
MH	DSL	1010.77355	3.086458598	9718.417172	0.3152588	101.0773548	0.308646
		3273.9598		30826.79344		327.4865078	
MHDT	GAS	1410.72587	0.008877802	72468.64229	0.138924	28225.80314	0.177627
MHDT	DSL	10675.1143	0.067179283	435455.3677	0.8347775	127504.1973	0.802393
MHDT	ELEC	167.584141	0.001054619	8816.663208	0.0169017	2173.174133	0.013676
MHDT	NG	107.631411	0.000677332	4901.770989	0.0093968	1001.681745	0.006304
		12361.0558		521642.4442		158904.8563	
OBUS	GAS	419.199707	0.022896962	18162.11175	0.222027	8387.347733	0.458122
OBUS	DSL	949.045188	0.051837469	62674.48039	0.766179	9750.024999	0.532553
OBUS	ELEC	4.48415939	0.000244928	364.7881281	0.0044594	89.71906104	0.004901
OBUS	NG	9.10124392	0.000497116	599.9791039	0.0073346	81.00107088	0.004424
		1381.8303		81801.35938		18308.09286	
SBUS	GAS	183.793304	0.016745925	9054.55067	0.3599899	735.1732154	0.066984
SBUS	DSL	674.99811	0.061500976	15210.89393	0.6047531	9773.972631	0.890534
SBUS	ELEC	7.58722201	0.000691293	244.2394962	0.0097104	87.39442404	0.007963
SBUS	NG	26.1646758	0.002383937	642.552257	0.0255465	378.8645055	0.034519
		892.543311		25152.23635		10975.40478	
UBUS	GAS	46.3552203	0.021676301	4840.86478	0.0818022	185.4208811	0.086705
UBUS	DSL	396.770048	0.185534807	44084.04198	0.744944	1587.080193	0.742139
UBUS	ELEC	28.6595887	0.11400839	2995.55797	0.4127709	114.6383548	0.456034
UBUS	NG	62.8453498	0.029387298	7257.192256	0.122634	251.3813993	0.117549
		534.630207		59177.65698		2138.520829	

Source: EMFAC2021 (v1.0.1) Emission Rates
Region Type: County
Region: Santa Clara
Calendar Year: 2026
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN

Region	Calendar Y	Vehicle Cat	Model Yea	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	Energy Con	NOx_RUNEX	NOx_IDLEX	NOx_STREX	PM2.5_RU	PM2.5_IDL	PM2.5_STR	PM2.5_PM	PM2.5_PM	PM10_RUN	PM10_IDLE	PM10_STR	PM10_PM	PM10_PM	CO2_RUNEX	CO2_IDLEX	CO2_STREX	CH4_RUNEX	CH4_IDLEX	CH4_STREX	N2O_RUNEX	N2O_IDLEX	N2O_STREX	ROG_RUNI	ROG_IDLEX	ROG_STREX	ROG_HOTS	ROG_RUNI	ROG_DIUR	TOG_RUNEX	TOG_IDLEX	TOG_STREX	TOG_HOTS	TOG_RUNI	TOG_DIUR	NH3_RUNEX	CO_RUNEX	CO_IDLEX	CO_STREX	SOx_RUNE	SOx_IDLEX	SOx_STREX
Santa Clara	2026	HHDT	Aggregate	Aggregate	Gasoline	1.890208	133.7551	133.7551	0	37.81927	0	3.912832	0	0.833967	0.00242	0	0.001119	0.005	0.0327	0.002632	0	0.001218	0.02	0.093428	2030.337	0	50.00574	0.151681	0	0.000277	0.138602	0	0.029726	0.841165	0	0.001504	0.124256	1.119044	7.839877	1.227426	0	0.001647	0.124256	1.119044	7.839877	0.044272	33.21272	0	2.727013	0.020072	0	0.000494
Santa Clara	2026	HHDT	Aggregate	Aggregate	Diesel	8867.795	1016012	1016012	0	130549	0	1.761105	62.0312	2.955473	0.025195	0.027767	0	0.008774	0.027513	0.026334	0.029023	0	0.035095	0.07861	1583.151	11526.41	0	0.000725	0.23528	0	0.249426	1.815991	0	0.015602	5.065515	0	0	0	0	0	0.017762	5.766703	0	0	0	0	0	0.215914	0.07407	73.94194	0	0.014991	0.109148	0
Santa Clara	2026	HHDT	Aggregate	Aggregate	Electricity	110.5302	11535.57	0	11535.57	1443.078	21268.51	0	0	0	0	0	0	0.008558	0.014729	0	0	0	0.034232	0.042083	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2026	HHDT	Aggregate	Aggregate	Natural Ga	863.4608	56635.39	56635.39	0	7769.707	0	0.976371	12.77067	0	0.001645	0.025604	0	0.009	0.049192	0.001789	0.027847	0	0.036	0.140547	1365.074	10446.87	0	2.127999	33.90059	0	0.278279	2.129663	0	0.043949	0.508241	0	0	0	0	0	0.218721	34.62523	0	0	0	0	0	0.835034	12.62839	75.02016	0	0	0	0
Santa Clara	2026	LDA	Aggregate	Aggregate	Gasoline	598869.8	22031466	22031466	0	2780456	0	0.034968	0	0.23463	0.001102	0	0.001828	0.002	0.002655	0.001199	0	0.001988	0.008	0.007585	268.3766	0	67.64288	0.001934	0	0.063951	0.004196	0	0.031426	0.007138	0	0.285908	0.083161	0.217573	1.338275	0.019415	0	0.313033	0.083161	0.217573	1.338275	0.036474	0.653928	0	2.884139	0.002653	0	0.000669
Santa Clara	2026	LDA	Aggregate	Aggregate	Diesel	1478.944	42434.32	42434.32	0	6277.405	0	0.163286	0	0	0.013397	0	0	0.002	0.002717	0.014003	0	0	0.008	0.007761	228.026	0	0	0.001079	0	0	0.035926	0	0	0.023239	0	0	0.026457	0	0	0	0.026457	0	0	0	0	0	0.0031	0.307439	0	0	0.002161	0	0
Santa Clara	2026	LDA	Aggregate	Aggregate	Electricity	64495.24	2739705	0	2739705	312996.4	1057752	0	0	0	0	0	0	0.002	0.001535	0	0	0	0.008	0.004385	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2026	LDA	Aggregate	Aggregate	Plug-in Hyb	20380.43	866414.1	412496.8	453917.3	84273.1	137096.6	0.003124	0	0.11551	0.000542	0	0.001902	0.002	0.001386	0.000589	0	0.002068	0.008	0.00396	132.7519	0	64.33622	0.000421	0	0.042044	0.000552	0	0.020392	0.001351	0	0.173285	0.040391	0.037456	0.436203	0.019017	0.204877	0	0.189725	0.040391	0.037456	0.436203	0.019017	0.204877	0	1.339893	0.001312	0	0.000636
Santa Clara	2026	LDT1	Aggregate	Aggregate	Gasoline	50750.47	1625960	1625960	0	225981.5	0	0.104002	0	0.340042	0.001548	0	0.002421	0.002	0.003241	0.001684	0	0.002633	0.008	0.009261	319.1884	0	83.2086	0.001658	0	0.092241	0.008041	0	0.036412	0.022051	0	0.461638	0.148727	0.41724	2.377298	0.032177	0	0.505436	0.148727	0.41724	2.377298	0.036833	1.219346	0	4.549174	0.003156	0	0.000823
Santa Clara	2026	LDT1	Aggregate	Aggregate	Diesel	18.47771	256.5587	256.5587	0	50.46	0	1.626008	0	0	0.235786	0	0	0.002	0.003714	0.246448	0	0	0.008	0.010612	414.3219	0	0	0.013655	0	0	0.065277	0	0	0.293995	0	0	0	0	0	0	0.334693	0	0	0	0	0	0.0031	1.580267	0	0	0.003926	0	0
Santa Clara	2026	LDT1	Aggregate	Aggregate	Electricity	263.5822	10628.88	0	10628.88	1254.204	4103.625	0	0	0	0	0	0	0.002	0.001536	0	0	0	0.008	0.004388	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2026	LDT1	Aggregate	Aggregate	Plug-in Hyb	130.6819	5898.082	2516.052	3382.03	540.3696	1021.474	0.002799	0	0.11551	0.000332	0	0.001311	0.002	0.001397	0.000362	0	0.001426	0.008	0.003992	118.9473	0	69.43161	0.000375	0	0.041793	0.000489	0	0.020158	0.00121	0	0.173285	0.023415	0.020044	0.275174	0.001766	0	0.189725	0.023415	0.020044	0.275174	0.017917	0.183572	0	1.339893	0.001176	0	0.000686
Santa Clara	2026	LDT2	Aggregate	Aggregate	Gasoline	296178.9	10561285	10561285	0	1383934	0	0.057197	0	0.297788	0.00115	0	0.001868	0.002	0.003134	0.00125	0	0.002032	0.008	0.008953	332.1248	0	84.47809	0.002453	0	0.074444	0.005294	0	0.035027	0.009395	0	0.338458	0.076755	0.212879	1.330363	0.013709	0	0.370569	0.076755	0.212879	1.330363	0.037798	0.757265	0	3.299571	0.003283	0	0.000835
Santa Clara	2026	LDT2	Aggregate	Aggregate	Diesel	1079.589	39200.14	39200.14	0	5104.36	0	0.037108	0	0	0.004598	0	0	0.002	0.00313	0.004806	0	0	0.008	0.008943	302.0718	0	0	0.000595	0	0	0.047592	0	0	0.012807	0	0	0.01458	0	0	0	0.01458	0	0	0	0	0	0.0031	0.12935	0	0	0.002862	0	0
Santa Clara	2026	LDT2	Aggregate	Aggregate	Electricity	2705.079	90693.22	0	90693.22	13682.37	35015.07	0	0	0	0	0	0	0.002	0.001528	0	0	0	0.008	0.004365	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2026	LDT2	Aggregate	Aggregate	Plug-in Hyb	2986.353	127896.3	57308.29	70587.98	12348.57	21319.68	0.00294	0	0.11551	0.000411	0	0.00154	0.002	0.001392	0.000447	0	0.001675	0.008	0.003978	124.9411	0	76.35739	0.000394	0	0.041776	0.000513	0	0.020142	0.001271	0	0.173285	0.025698	0.023308	0.30414	0.001855	0	0.189725	0.025698	0.023308	0.30414	0.018799	0.192822	0	1.339893	0.001235	0	0.000755
Santa Clara	2026	LHDT1	Aggregate	Aggregate	Gasoline	19567.35	734252.9	734252.9	0	291524.3	0	0.134825	0.034078	0.592259	0.00144	0	0.000258	0.002	0.0273	0.001567	0	0.00028	0.008	0.078	841.5517	116.9335	25.61185	0.00645	0.107779	0.030306	0.00767	0.002904	0.048837	0.03157	0.390607	0.14863	0.042429	0.244239	2.568634	0.046067	0.569973	0.162731	0.042429	0.244239	2.568634	0.044952	1.000325	3.761042	3.194844	0.00832	0.001156	0.000253
Santa Clara	2026	LHDT1	Aggregate	Aggregate	Diesel	10635.31	416619.3	416619.3	0	133778.8	0	1.219281	1.732484	0	0.030022	0.026603	0	0.003	0.0273	0.031379	0.027806	0	0.012	0.078	625.228	128.0664	0	0.006994	0.005098	0	0.098505	0.020177	0	0.150578	0.10976	0	0	0	0	0	0.171423	0.124954	0	0	0	0	0.184377	0.40172	0.909745	0	0.005924	0.001213	0
Santa Clara	2026	LHDT1	Aggregate	Aggregate	Electricity	378.0593	23974.57	0	23974.57	5290.738	15701.21	0	0	0	0	0	0	0.002	0.01365	0	0	0	0.008	0.039	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2026	LHDT2	Aggregate	Aggregate	Gasoline	2513.651	91174.03	91174.03	0	37449.66	0	0.127191	0.033359	0.581518	0.001301	0	0.0002	0.002	0.03185	0.001415	0	0.000218	0.008	0.091	950.6797	135.3583	25.11699	0.00457	0.105616	0.029314	0.007823	0.002803	0.047205	0.020413	0.382638	0.142338	0.039798	0.221425	2.401547	0.029786	0.558345	0.155842	0.039798	0.221425	2.401547	0.04499	0.781956	3.768092	3.147796	0.009398	0.001338	0.000248
Santa Clara	2026	LHDT2	Aggregate	Aggregate	Diesel	4995.258	193100.7	193100.7	0	62834.06	0	1.030069	1.717944	0	0.028773	0.027014	0	0.003	0.03185	0.030074	0.028235	0	0.012	0.091	744.6842	205.1133	0	0.00672	0.005098	0	0.117325	0.032316	0	0.146681	0.10976	0	0	0	0	0	0.16471	0.124954	0	0	0	0	0.19232	0.367309	0.909745	0	0.007056	0.001944	0
Santa Clara	2026	LHDT2	Aggregate	Aggregate	Electricity	96.38373	5822.064	0	5822.064	1278.565	3755.595	0	0	0	0	0	0	0.002	0.015925	0	0	0	0.008	0.0455	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2026	MCY	Aggregate	Aggregate	Gasoline	28797.04	167092.5	167092.5	0	57594.08	0	0.54585	0	0.123182	0.001818	0	0.003256	0.001	0.0042	0.001945	0	0.00347	0.004	0.012	186.8446	0	46.30646	0.154451	0	0.172746	0.038475	0	0.007381	0.991178	0	1.267526	3.558543	3.769688	3.854231	1.200425	0	1.378329	3.558543	3.769688	3.854231	0.008889	11.99329	0	7.931677	0.001847	0	0.000458
Santa Clara	2026	MDV	Aggregate	Aggregate	Gasoline	162557.9	5631323	5631323	0	753924.4	0	0.077249	0	0.361249	0.00113	0	0.001888	0.002	0.003182	0.001228	0	0.002053	0.008	0.00909	402.7076	0	102.7358	0.003084	0	0.087398	0.006351	0	0.037495	0.012544	0	0.424623	0.087977	0.255029	1.559913	0.018304	0	0.464909	0.087977	0.255029	1.559913	0.037518	0.838043	0	3.531694	0.003981	0	0.001016
Santa Clara	2026	MDV	Aggregate	Aggregate	Diesel	2430.299	84111.54	84111.54	0	11337.22	0	0.040802	0	0	0.004381	0	0	0.002	0.003241	0.004579	0	0	0.008	0.009261	399.673	0	0	0.000469	0	0	0.062969	0	0	0.010103	0	0	0.011502	0	0	0	0.011502	0	0	0	0	0	0.0031	0.197458	0	0	0.003787	0	0
Santa Clara	2026	MDV	Aggregate	Aggregate	Electricity	2850.956	95858.35	0	95858.35	14435.41	37009.23	0	0	0	0	0	0	0.002	0.001528	0	0	0	0.008	0.004365	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2026	MDV	Aggregate	Aggregate	Plug-in Hyb	1813.351	74577.72	33714.26	40863.46	7498.208	12341.98	0.002966	0	0.11551	0.000463	0	0.001713	0.002	0.001392	0.000504	0	0.001863	0.008	0.003977	126.0521	0	93.79299	0.000396	0	0.041612	0.000513	0	0.019989	0.001283	0	0.173285	0.029908	0.026996	0.337381	0.001872	0	0.189725	0.029908	0.026996	0.337381	0.018987	0.194537	0	1.339893	0.001246	0	0.000927
Santa Clara	2026	MH	Aggregate	Aggregate	Gasoline	2263.186	21108.38	21108.38	0	226.4092	0	0.335195	0	0.432131	0.001549	0	0.000374	0.003	0.015756	0.001685	0	0.000406	0.012	0.045017	1946.632	0	31.26805	0.012049	0	0.036404	0.022132	0	0.046519	0.050974	0	0.149854	10.64717	0.254614	4.131655	0.074381	0	0.164071	10.64717	0.254614	4.131655	0.044921	1.181993	0	3.275797	0.019244	0	0.000309
Santa Clara	2026	MH	Aggregate	Aggregate	Diesel	1010.774	9718.417	9718.417	0	101.0774	0	3.846579	0	0	0.08072	0	0	0.004	0.015675	0.084369	0	0	0.016	0.044785	1082.849	0	0	0.005293	0	0	0.170603	0	0	0.11395	0	0	0	0	0	0	0.129725	0	0	0	0	0	0.16529	0.373655	0	0	0.010261	0	0
Santa Clara	2026	MHDT	Aggregate	Aggregate	Gasoline	1410.726	72468.64	72468.64	0	28225.8	0	0.333028	0.083566	0.407845	0.001339	0	0.000499	0.003	0.015756	0.001457	0	0.000542	0.012	0.045017	1727.179	521.8124	44.55752	0.010627	0.263675	0.044579	0.017598	0.007127	0.032029	0.051634	1.01721	0.242322	0.028744	0.236552	2.400687	0.073545	1.48431	0.265312	0.028744	0.236552	2.400687	0.044997	1.050142	15.1686	5.262786	0.017075	0.005159	0.00044
Santa Clara	2026	MHDT	Aggregate	Aggregate	Diesel	1067.5.11	4354555.4	435455.4	0	127504.2	0	1.02886	12.38939	1.644141	0.010796	0.020382	0	0.003	0.015941	0.011284	0.021304	0	0.012	0.045545	1134.952	2210.329	0	0.001134	0.010419	0	0.178812	0.348238	0	0.024422	0.224312	0	0	0	0	0	0.027803	0.255363	0	0	0	0	0.213113	0.099563	7.520816	0	0.010747	0.02093	0
Santa Clara	2026	MHDT	Aggregate	Aggregate	Electricity	167.5841	8816.663	0	8816.663	2173.174	9651.078	0	0	0	0	0	0	0.003	0.007951	0	0	0	0.012	0.022716	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2026	MHDT	Aggregate	Aggregate	Natural Ga	107.6314	4901.771	4901.771	0	1001.682	0	0.116472	6.407029	0	0.001266	0.018977	0	0.003	0.01601	0.001377	0.020639	0	0.012	0.045743	973.703	5277.958	0	0.755705	16.66564	0	0.198496	1.075946	0	0.010798	0.238119	0	0	0	0	0	0.771252	17.00851	0	0	0	0	1.06	2.995274	36.69576	0	0	0	0
Santa Clara	2026	OBUS	Aggregate	Aggregate	Gasoline	419.1997	18162.11	18162.11	0	8387.348	0	0.418185	0.062602	0.399155	0.00097	0	0.000258	0.003	0.01568	0.001055	0	0.000281	0.012	0.044799	1724.911	374.6239	31.08783	0.011431	0.195819	0.035179	0.020728	0.005108	0.030453	0.055331	0.746751	0.186435	0.035194	0.177337	3.200029	0.080739	1.089657	0.204123	0.035194	0.177337	3.200029	0.04499	1.215872	5.777453	3.882011	0.017053	0.003704	0.000307
Santa Clara	2026	OBUS	Aggregate	Aggregate	Diesel	949.0452	62674.48	62674.48	0	9750.025	0	1.092349	6.912226	1.518478	0.018173	0.007147	0	0.003	0.018049	0.018995	0.00747	0	0.012	0.05157	1245.043	1523.794	0	0.001766	0.020826	0	0.196157	0.240074	0	0.038011	0.448385	0	0	0	0	0	0.043273	0.510453	0	0	0	0	0.216379	0.139488	7.649271	0	0.01179	0.014429	0
Santa Clara	2026	OBUS	Aggregate	Aggregate	Electricity	4.484159	364.7881	0	364.7881	89.71906	404.1294	0	0	0	0	0	0	0.003	0.00784	0	0	0	0.012	0.022399	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2026	OBUS	Aggregate	Aggregate	Natural Ga	9.101244	599.9791	599.9791	0	81.00107	0	0.145347	1.518344	0	0.001276	0.004354	0	0.003	0.016148	0.001388	0.004735	0	0.012	0.046137	975.0003	1187.914	0	0.81456	4.001439	0	0.19876	0.242164	0	0.011638	0.057173	0	0	0	0	0	0.831318	4.083762	0	0	0	0	1.06	3.321042	8.378673	0	0	0	0
Santa Clara	2026	SBUS	Aggregate	Aggregate	Gasoline	183.7933	9054.551	9054.551	0	735.1732	0	0.474165	0.887577	0.73371	0.000873	0	0.00058	0.002	0.015721	0.00095	0	0.000631	0.008	0.044917	802.4349	2565.528	57.27504	0.01005	2.4667	0.074539	0.025921	0.082658	0.067212	0.048718	10.63718	0.423572	0.1241	0.322638	1.96833	0.07109	15.52175	0.463758	0.1241	0.322638	1.96833	0.045	1.246814	82.21455	10.07789	0.007933	0.025363	0.000566
Santa Clara	2026	SBUS	Aggregate	Aggregate	Diesel	674.9981	15210.89	15210.89	0	9773.973	0	3.406071	20.83077	0.509343	0.017715	0.016839	0	0.003	0.015721	0.018516	0.017601	0	0.012	0.044917	1135.538	2209.663	0	0.002498	0.007888	0	0.178905	0.348133	0	0.053781	0.169828	0	0	0	0	0	0.061225	0.193336	0	0	0	0	0.155771	0.169257	4.880858	0	0.010753	0.020924	0
Santa Clara	2026	SBUS	Aggregate	Aggregate	Electricity	7.587222	244.2395	0	244.2395	87.39442	257.2955	0	0	0	0	0	0	0.002	0.00786	0	0	0	0.01027	0.022459	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2026	SBUS	Aggregate	Aggregate	Natural Ga	26.16468	642.5523	642.5523	0	378.8645	0	0.532059	5.249897	0	0.003378	0.011858	0	0.003	0.015721	0.003674	0.012897	0	0.012	0.044917	1243.421	4080.833	0	3.338467	14.99739	0	0.25348	0.831904	0	0.0477	0.214283	0	0	0	0	0	3.407151	15.30593	0	0	0	0	1.06	11.18687	21.87624	0	0	0	0
Santa Clara	2026	UBUS	Aggregate	Aggregate	Gasoline	46.35522	4840.865	4840.865	0	185.4209	0	0.026897	0	0.439741	0.001143	0	0.000128	0.002	0.03185	0.001243	0	0.00014	0.008	0.091	925.6516	0	36.30949	0.001945	0	0.042807	0.004209	0	0.069602	0.005374	0	0.151507	0.043604	0.092107	0.471119	0.007841	0	0.165881	0.043604	0.092107	0.471119	0.045	0.590355	0	5.738214	0.009151	0	0.000359
Santa Clara	2026	UBUS	Aggregate	Aggregate	Diesel	396.77	44084.04	44084.04	0	1587.08	0	0.382074	0	0	0.006946	0	0	0.002	0.008221	0.0385	0.00726	0	0.032883	0.11	1310.339	0	0	0.003187	0	0	0.174934	0	0	0.068625	0	0	0.078125	0	0	0	0.078518	0	0	0	0	0	0.22	0.078518	0	0	0.010521	0	0
Santa Clara	2026	UBUS	Aggregate	Aggregate	Electricity	28.65959	2995.558	0	2995.558	114.6384	5221.989	0	0	0	0	0	0	0.008972	0.01925	0	0	0	0.035887	0.055	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2026	UBUS	Aggregate	Aggregate	Natural Ga	62.84535	7257.192	7257.192	0	251.3814	0	0.060787	0	0	0.000288	0	0	0.008445	0.0385	0.000301	0	0	0.033781	0.11	1320.935	0	0	4.332576	0	0	0.269281	0	0	0.061904	0	0	0	0	0	0	0.421712	0	0	0	0	0	0.97	50.5588	0	0	0	0	0

P3 Aff R4a - CalEEMod Construction Inputs

Phase	CalEEMod WORKER TRIPS	CalEEMod VENDOR TRIPS	Total Worker Trips	Total Vendor Trips	CalEEMod HAULING TRIPS	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class	*Worker VMT*	*Vendor VMT*	*Hauling VMT*
Demolition	30	0	2580	0	442	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	27864	0	8840
Site Preparation	8	1	104	13	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	1123.2	94.9	0
Grading	50	0	2300	0	5,348	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	24840	0	106960
Trenching/Foundation	25	0	3250	0	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	35100	0	0
Building Construction	178	33	56782	10527	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	613245.6	76847.1	0
Paving	13	0	507	0	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	5475.6	0	0
Architectural Coating	36	0	1404	0	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	15163.2	0	0

Number of Days Per Year					
2026	11/15/26	12/31/26	47	40	
2027	1/1/27	12/31/27	365	313	
2028	1/1/28	10/6/28	280	240	
			692	**594**	***Total Workdays***

Phase	Start Date	End Date	Days/Week	Workdays
Demolition	11/15/2026	2/23/2027	6	86
Site Preparation	2/23/2027	3/9/2027	6	13
Grading	3/10/2027	5/1/2027	6	46
Trenching/Foundation	5/2/2027	9/30/2027	6	130
Building Construction	10/1/2027	10/6/2028	6	319
Paving	10/8/2027	11/22/2027	6	39
Architectural Coating	11/22/2027	1/5/2028	6	39

Summary of Construction Traffic Emissions (EMFAC2021)

CATEGORY	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	NBio- CO2	CH4	N2O	CO2e
						Grams								
Hauling	3750.26	228053.56	111753.04	1627.56	34624.20	16384.21	51008.41	5209.84	7053.47	12263.31	##########	13543.79	28820.28	#########
Vendor	3901.81	141061.25	71020.77	999.72	23005.66	7962.84	30968.50	3461.62	3380.79	6842.41	##########	5714.60	15946.76	#########
Worker	71005.58	52763.81	729405.27	1997.72	216120.67	12610.68	228731.35	32519.29	4403.85	36923.15	##########	6166.46	5578.02	#########
Total (g)	78657.65	421878.62	912179.07	4625.00	273750.53	36957.73	310708.26	41190.76	14838.11	56028.86	##########	25424.85	50345.07	#########
Total (lbs)	173.41	930.08	2011.01	10.20	603.52	81.48	684.99	90.81	32.71	123.52	1082770.62	56.05	110.99	#########
Total (tons)	0.09	0.47	1.01	0.01	0.30	0.04	0.34	0.05	0.02	0.06	541.39	0.03	0.06	558.62
Total (MT)											491.14	0.03	0.05	506.77

YEAR														
							Tons							
2026	0.0059	0.0316	0.0683	0.0003	0.0205	0.0028	0.0233	0.0031	0.0011	0.0042	33.3575	0.0017	0.0034	34.4197
2027	0.0457	0.2453	0.5304	0.0027	0.1592	0.0215	0.1807	0.0239	0.0086	0.0326	259.0532	0.0134	0.0266	267.3018
2028	0.0351	0.1882	0.4069	0.0021	0.1221	0.0165	0.1386	0.0184	0.0066	0.0250	198.7257	0.0103	0.0204	205.0534

		Mix %	Adj	ROG_DIURN	ROG_HTSK	ROG_IDLEX	ROG_RESTL	ROG_RUNEX	ROG_RUNLS	ROG_STREX	NOX_IDLEX	NOX_RUNEX	NOX_STREX	CO_IDLEX	CO_RUNEX	CO_STREX	SO2_IDLEX	SO2_RUNEX	SO2_STREX	Road Dust PM10	PM10_PM BW	PM10_PM TW	PM10_IDLEX	PM10_RUNEX	PM10_STREX	Road Dust PM25	PM25_PM BW	PM25_PM TW	PM25_IDLEX	PM25_RUNEX	PM25_STREX	CO2_NBIO_IDLEX	CO2_NBIO_RUNEX	CO2_NBIO_STREX	CH4_IDLEX	CH4_RUNEX	CH4_STREX	N2O_IDLEX	N2O_RUNEX	N2O_STREX
Category																														19	22	23	8	9	10						
Hauling	HHDT	100.0	1	9.1592E-05	2.90398E-05	0.321590124	0	0.01628701	0.00026147	3.72501E-07	3.9650792	1.633848814	2.745433901	5.124778	0.70877415	0.000782	0.0067481	0.013717513	1.259E-07		0.081782	0.035135	0.001939	0.024473	2.86377E-07		0.028624	0.008784	0.001849	0.0234108	2.633E-07	777.08947	1519.2636	0.0127352	0.218219	0.10604745	6.86812E-08	0.125416	0.242608661	7.35107E-06
	MHD	0.0	0	0.019771494	0.004666468	0.023376294	0	0.02362674	0.03865491	0.040569481	0.8108161	0.814699228	1.371110948	0.659814	0.22479796	0.875978	0.00142742	0.011138512	7.55078E-05	0.299	0.044837	0.012	0.001186	0.008315	9.25129E-05	0.04499	0.015693	0.003	0.001134	0.0079473	8.506E-05	154.3221	1175.4531	7.6378398	0.014761	0.009545333	0.00755705	0.02384	0.150701674	0.005522907
Vendor	HHDT	50.0	0.5	4.5796E-05	1.45199E-05	0.160795062	0	0.00814351	0.00013074	1.8625E-07	1.9825396	0.816924407	1.372716951	2.562389	0.35438708	0.000391	0.00337405	0.006858757	6.29501E-08		0.040891	0.017568	0.00097	0.012236	1.43188E-07		0.014312	0.004392	0.000924	0.0117054	1.317E-07	388.54474	759.63181	0.0063676	0.10911	0.053023725	3.43406E-08	0.062708	0.121304331	3.67553E-06
	MHD	50.0	0.5	0.009885747	0.002333234	0.011688147	0	0.01181337	0.01932745	0.020284741	0.405408	0.407349614	0.685555474	0.329907	0.11239898	0.437989	0.00071371	0.005569256	3.77539E-05		0.022418	0.006	0.000593	0.004157	4.62565E-05		0.007846	0.0015	0.000567	0.0039736	4.253E-05	77.161049	587.72653	3.8189199	0.007381	0.004772667	0.003778525	0.01192	0.075350837	0.002761454
			1	0.009931543	0.002347754	0.172483209	0	0.01995688	0.01945819	0.020284927	2.3879476	1.224274021	2.058272425	2.892296	0.46678606	0.43838	0.00408776	0.012428013	3.78169E-05	0.299	0.063309	0.023568	0.001563	0.016394	4.63996E-05	0.04499	0.022158	0.005892	0.001491	0.0156791	4.266E-05	465.70578	1347.3583	3.8252875	0.11649	0.057796392	0.00377856	0.074628	0.196655167	0.002765129
Worker	LDA	50.0	0.5	0.124774953	0.035332579	0	0	0.00280128	0.09381266	0.118752298	0	0.013978935	0.099494609	0	0.27238771	1.207995	0	0.001138522	0.00029368		0.003554	0.004	0	0.000508	0.000861352		0.001244	0.001	0	0.0004677	0.000792	0	115.17186	29.706588	0	0.000769144	0.026851221	0	0.001755054	0.01360376
	LDT1	25.0	0.25	0.127182533	0.034919795	0	0	0.0048531	0.09837243	0.106039612	0	0.02313956	0.079887107	0	0.27893015	1.050819	0	0.00076883	0.000200154		0.002299	0.002	0	0.000394	0.000618991		0.000805	0.0005	0	0.0003623	0.0005691	0	77.769662	20.246134	0	0.001123286	0.021436306	0	0.001841326	0.008783877
	LDT2	25.0	0.25	0.068511887	0.018162188	0	0	0.00212373	0.05123426	0.078241944	0	0.012836987	0.069477589	0	0.17725184	0.771154	0	0.000792088	0.000201524		0.002213	0.002	0	0.000296	0.000481527		0.000775	0.0005	0	0.0002722	0.0004427	0	80.133178	20.384716	0	0.000559632	0.017367339	0	0.0012713	0.008386223
			1	0.320469373	0.088414562	0	0	0.00977811	0.24341934	0.303033854	0	0.049955482	0.248859306	0	0.7285697	3.029968	0	0.00269944	0.000695357	0.299	0.008067	0.008	0	0.001198	0.00196187	0.04499	0.002823	0.002	0	0.0011022	0.0018039	0	273.0747	70.337438	0	0.002452062	0.065654866	0	0.00486768	0.030773861

Adjustment Factors

Vehicle Category	Fuel	Population	Pop Fract	VMT (miles/day)	VMT Fract	Trips/day	Trip Fract
HHDT	GAS	1.83310515	1.28148E-05	147.0377538	0.000134	36.67676781	0.000256
HHDT	DSL	9011.07054	0.06299448	1021241.459	0.9307328	132754.8218	0.928061
HHDT	ELEC	177.805179	0.001242998	18594.17257	0.0169462	2312.242257	0.016164
HHDT	NG	889.169201	0.006215993	57261.8103	0.0521869	7941.659305	0.055518
		10079.878		1097244.48		143045.4002	
LDA	GAS	599340.546	0.18713399	21995338.59	0.8544339	2782741.959	0.868864
LDA	DSL	1347.74765	0.000420812	38343.79498	0.0014895	5721.586385	0.001786
LDA	ELEC	67294.1187	0.021011455	2805164.418	0.1089698	324882.7767	0.101439
LDA	PIH	21617.5337	0.006749711	903738.2979	0.0351067	89388.50166	0.02791
		689599.946		25742585.1		3202734.824	
LDT1	GAS	49888.1548	0.222439047	1593479.412	0.9876779	222126.8834	0.990409
LDT1	DSL	6.22787611	2.77686E-05	90.54084291	5.612E-05	17.39549012	7.76E-05
LDT1	ELEC	300.498335	0.001339848	12309.71399	0.0076299	1437.605088	0.00641
LDT1	PIH	168.315007	0.000750475	7479.706544	0.0046361	695.9825537	0.003103
		50363.196		1613359.374		224277.8665	
LDT2	GAS	301290.288	0.208868235	10685987.29	0.9733366	1406456.817	0.97502
LDT2	DSL	1103.1232	0.000764736	39708.70156	0.0036169	5205.70345	0.003609
LDT2	ELEC	3306.05994	0.002291912	108939.5464	0.0099228	16647.4372	0.011541
LDT2	PIH	3429.21286	0.002377287	144081.8505	0.0131237	14179.79517	0.00983
		309128.684		10978717.39		1442489.753	
LHDT1	GAS	19670.4316	0.044847583	736983.4892	0.6143979	293060.1217	0.668162
LHDT1	DSL	10848.44	0.024733891	422662.2799	0.352359	136459.7276	0.311121
LHDT1	ELEC	649.088082	0.001479888	39875.82562	0.0332431	9086.426967	0.020717
		31167.9596	0.071061363	1199521.595		438606.2763	
LHDT2	GAS	2509.54585	0.024605909	90648.20323	0.3055109	37388.49394	0.366591
LHDT2	DSL	5135.73367	0.050355483	196396.2345	0.6619126	64601.06884	0.633409
LHDT2	ELEC	164.939847	0.001617223	9665.772366	0.0325765	2187.867909	0.021452
		7810.21937	0.076578614	296710.2101		101989.5628	
MCY	GAS	29075.7985	0.022036416	167761.7404	1	58151.59703	1
MDV	GAS	165596.043	0.205620194	5720178.355	0.9530116	767968.8831	0.953585
MDV	DSL	2435.7151	0.003024421	83100.92035	0.013845	11312.15421	0.014046
MDV	ELEC	3455.57097	0.004290774	113998.8871	0.0189928	17408.95229	0.021617
MDV	PIH	2094.10717	0.002600248	84934.84165	0.0141506	8659.133135	0.010752
		173581.436		6002213.004		805349.1227	
MH	GAS	2196.55378	6.814936703	20762.4687	0.6788735	219.7432404	0.681766
MH	DSL	1025.71387	3.182337322	9821.237376	0.3211265	102.5713867	0.318234
		3222.26765		30583.70608		322.3146272	
MHDT	GAS	1408.04737	0.008714419	72579.59868	0.1377793	28172.2118	0.174358
MHDT	DSL	10767.2575	0.06663866	434295.527	0.8244322	128657.1776	0.796261
MHDT	ELEC	282.620889	0.001749143	14714.25293	0.0279324	3656.160606	0.022628
MHDT	NG	116.095443	0.000718516	5192.024559	0.0098561	1091.190944	0.006753
		12574.0212		526781.4032		161576.7409	
OBUS	GAS	407.82687	0.022127557	17375.96776	0.2128127	8159.800014	0.442728
OBUS	DSL	975.872557	0.052948143	63044.61847	0.7721409	10038.86378	0.544681
OBUS	ELEC	7.14800405	0.000387831	573.2172812	0.0070205	143.0172651	0.00776
OBUS	NG	10.0047196	0.000542828	655.3060246	0.0080259	89.04200475	0.004831
		1400.85215		81649.10954		18430.72307	
SBUS	GAS	188.598701	0.01705427	9259.271788	0.3642335	754.394804	0.068217
SBUS	DSL	674.826752	0.061022041	15110.62134	0.594409	9771.491366	0.883599
SBUS	ELEC	12.3033842	0.001112549	395.5247459	0.0155588	141.8818066	0.01283
SBUS	NG	27.0006796	0.00244157	655.8361653	0.0257987	390.9698406	0.035354
		902.729517		25421.25404		11058.73782	
UBUS	GAS	46.4912643	0.021676301	4855.071828	0.0818022	185.9650573	0.086705
UBUS	DSL	397.280354	0.185229816	44140.83036	0.743721	1589.121414	0.740919
UBUS	ELEC	29.3760874	0.11647648	3075.292219	0.4224222	117.5043495	0.465906
UBUS	NG	63.0515433	0.029397441	7280.138117	0.1226617	252.206173	0.11759
		536.199249		59351.33253		2144.796994	

Source: EMFAC2021 (v1.0.1) Emission Rates
Region Type: County
Region: Santa Clara
Calendar Year: 2027
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN

Region	Calendar Y	Vehicle Cat	Model Yea	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	Energy Con	NOx_RUNEX	NOx_IDLEX	NOx_STREX	PM2.5_RU	PM2.5_IDL	PM2.5_STR	PM2.5_PM	PM2.5_PM	PM10_RUN	PM10_IDLE	PM10_STR	PM10_PM	PM10_PMI	CO2_RUNEX	CO2_IDLEX	CO2_STREX	CH4_RUNEX	CH4_IDLEX	CH4_STREX	N2O_RUNEX	N2O_IDLEX	N2O_STREX	ROG_RUNI	ROG_IDLEX	ROG_STREX	ROG_HOTS	ROG_RUNI	ROG_IDLEX	ROG_DIUR	TOG_RUNEX	TOG_IDLEX	TOG_STREX	TOG_HOTS	TOG_RUNI	TOG_DIUR	NH3_RUNEX	CO_RUNEX	CO_IDLEX	CO_STREX	SOx_RUNE	SOx_IDLEX	SOx_STREX
Santa Clara	2027	HHDT	Aggregate	Aggregate	Gasoline	1.833105	147.0378	147.0378	0	36.67677	0	3.730042	0	0.773498	0.002199	0	0.001027	0.005	0.032692	0.002391	0	0.001117	0.02	0.093405	2000.505	0	49.66925	0.135639	0	0.000268	0.136273	0	0.02867	0.73131	0	0.001453	0.11326	1.019783	7.147336	1.067126	0	0.001591	0.11326	1.019783	7.147336	0.044505	30.82312	0	3.048179	0.019777	0	0.000491
Santa Clara	2027	HHDT	Aggregate	Aggregate	Diesel	9011.071	1021241	1021241	0	132754.8	0	1.704043	61.72079	2.958034	0.025062	0.026785	0	0.008776	0.027672	0.026195	0.027996	0	0.035105	0.079063	1556.123	11312.44	0	0.000701	0.234878	0	0.245168	1.782279	0	0.015102	5.056861	0	0	0	0	0	0.017193	5.756851	0	0	0	0	0.216828	0.070456	73.92424	0	0.014736	0.107122	0
Santa Clara	2027	HHDT	Aggregate	Aggregate	Electricity	177.8052	18594.17	0	18594.17	2312.242	34279.09	0	0	0	0	0	0	0.008561	0.015051	0	0	0	0.034243	0.043002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2027	HHDT	Aggregate	Aggregate	Natural Ga	889.1692	57261.81	57261.81	0	7941.659	0	0.907136	12.38898	0	0.001615	0.025966	0	0.009	0.049992	0.001756	0.028241	0	0.036	0.142836	1353.997	10371.37	0	2.019211	32.72582	0	0.276021	2.114271	0	0.040872	0.488388	0	0	0	0	0	0.827361	12.24575	75.28309	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2027	LDA	Aggregate	Aggregate	Gasoline	599340.5	21995339	21995339	0	2782742	0	0.032349	0	0.225312	0.001054	0	0.001765	0.002	0.002654	0.001146	0	0.001919	0.008	0.007584	263.8358	0	66.33426	0.001782	0	0.060463	0.004024	0	0.030664	0.009466	0	0.267784	0.080009	0.214602	1.316821	0.037295	0.628802	0	2.737589	0.002608	0	0.000656
Santa Clara	2027	LDA	Aggregate	Aggregate	Diesel	1347.748	38343.79	38343.79	0	5721.586	0	0.140881	0	0	0.011715	0	0	0.002	0.00272	0.012244	0	0	0.008	0.007772	225.3761	0	0	0.000974	0	0	0.035508	0	0	0.020977	0	0	0	0	0	0	0.023881	0	0	0	0	0	0.0031	0.295578	0	0	0.002136	0	0
Santa Clara	2027	LDA	Aggregate	Aggregate	Electricity	67294.12	2805164	0	2805164	324882.8	1083025	0	0	0	0	0	0	0.002	0.001535	0	0	0	0.008	0.004387	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2027	LDA	Aggregate	Aggregate	Plug-in Hyb	21617.53	903738.3	422627.3	481111	89388.5	145309.9	0.003069	0	0.11551	0.000505	0	0.001811	0.002	0.001389	0.000549	0	0.00197	0.008	0.00397	130.3968	0	63.69406	0.000412	0	0.041864	0.000538	0	0.020225	0.001327	0	0.173285	0.041139	0.041737	0.463414	0.001936	0	0.189725	0.041139	0.041737	0.463414	0.018819	0.201249	0	1.339893	0.001289	0	0.00063
Santa Clara	2027	LDT1	Aggregate	Aggregate	Gasoline	49888.15	1593479	1593479	0	222126.9	0	0.093626	0	0.322281	0.001455	0	0.002295	0.002	0.003241	0.001582	0	0.002496	0.008	0.009259	314.3854	0	81.55325	0.004547	0	0.086445	0.007451	0	0.035413	0.019635	0	0.427723	0.140959	0.397237	2.286124	0.028652	0	0.468303	0.140959	0.397237	2.286124	0.037251	1.12869	0	4.23978	0.003108	0	0.000806
Santa Clara	2027	LDT1	Aggregate	Aggregate	Diesel	6.227876	90.54084	90.54084	0	17.39549	0	1.298199	0	0	0.195794	0	0	0.002	0.003665	0.204647	0	0	0.008	0.010473	394.8653	0	0	0.011321	0	0	0.062211	0	0	0.243739	0	0	0	0	0	0	0.27748	0	0	0	0	0	0.0031	1.74279	0	0	0.003742	0	0
Santa Clara	2027	LDT1	Aggregate	Aggregate	Electricity	300.4983	12309.71	0	12309.71	1437.605	4752.566	0	0	0	0	0	0	0.002	0.001535	0	0	0	0.008	0.004385	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2027	LDT1	Aggregate	Aggregate	Plug-in Hyb	168.315	7479.707	3153.075	4326.632	695.9826	1306.772	0.002766	0	0.11551	0.000305	0	0.001223	0.002	0.0014	0.000332	0	0.00133	0.008	0.003999	117.5444	0	68.77997	0.000369	0	0.041651	0.00048	0	0.020025	0.001196	0	0.173285	0.023215	0.020021	0.275602	0.001745	0	0.189725	0.023215	0.020021	0.275602	0.017705	0.181413	0	1.339893	0.001162	0	0.00068
Santa Clara	2027	LDT2	Aggregate	Aggregate	Gasoline	301290.3	10685987	10685987	0	1406457	0	0.052589	0	0.283866	0.001098	0	0.001802	0.002	0.003137	0.001194	0	0.00196	0.008	0.008963	326.5481	0	82.86482	0.002292	0	0.07083	0.005044	0	0.034203	0.008665	0	0.319239	0.07425	0.209956	1.308636	0.012643	0	0.349526	0.07425	0.209956	1.308636	0.038412	0.725393	0	3.150133	0.003228	0	0.000819
Santa Clara	2027	LDT2	Aggregate	Aggregate	Diesel	1103.123	39708.7	39708.7	0	5205.703	0	0.033914	0	0	0.004292	0	0	0.002	0.003135	0.004487	0	0	0.008	0.008958	297.5211	0	0	0.000577	0	0	0.046875	0	0	0.012423	0	0	0	0	0	0	0.014142	0	0	0	0	0	0.0031	0.127877	0	0	0.002819	0	0
Santa Clara	2027	LDT2	Aggregate	Aggregate	Electricity	3306.06	108939.5	0	108939.5	16647.44	42059.66	0	0	0	0	0	0	0.002	0.001529	0	0	0	0.008	0.004368	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2027	LDT2	Aggregate	Aggregate	Plug-in Hyb	3429.213	144081.9	63603.3	80478.56	14179.8	24306.92	0.002897	0	0.11551	0.000381	0	0.001463	0.002	0.001395	0.000414	0	0.001581	0.008	0.003987	123.0899	0	75.68447	0.000386	0	0.0416	0.000501	0	0.019977	0.001253	0	0.173285	0.025755	0.022981	0.300816	0.001828	0	0.189725	0.025755	0.022981	0.300816	0.018524	0.189972	0	1.339893	0.001217	0	0.000748
Santa Clara	2027	LHDT1	Aggregate	Aggregate	Gasoline	19670.43	736983.5	736983.5	0	293060.1	0	0.118942	0.033105	0.571033	0.001405	0	0.000239	0.002	0.0273	0.001528	0	0.00026	0.008	0.078	829.449	115.9534	25.51381	0.005601	0.105399	0.029155	0.00682	0.002869	0.047788	0.026962	0.379506	0.142236	0.03999	0.233145	2.457411	0.039343	0.553775	0.15573	0.03999	0.233145	2.457411	0.044981	0.93654	3.763109	3.224747	0.0082	0.001146	0.000252
Santa Clara	2027	LHDT1	Aggregate	Aggregate	Diesel	10848.44	422662.3	422662.3	0	136459.7	0	1.08439	1.64968	0	0.028062	0.026509	0	0.003	0.0273	0.029331	0.027708	0	0.012	0.078	622.7952	126.7206	0	0.006587	0.005098	0	0.098122	0.019965	0	0.141815	0.10976	0	0	0	0	0	0.161447	0.124954	0	0	0	0	0.188998	0.373722	0.909745	0	0.005901	0.001201	0	0
Santa Clara	2027	LHDT1	Aggregate	Aggregate	Electricity	649.0881	39875.83	0	39875.83	9086.427	26117.1	0	0	0	0	0	0	0.002	0.01365	0	0	0	0.008	0.039	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2027	LHDT2	Aggregate	Aggregate	Gasoline	2509.546	90648.2	90648.2	0	37388.49	0	0.111653	0.032331	0.561944	0.001268	0	0.000185	0.002	0.03185	0.00138	0	0.000201	0.008	0.091	938.4469	134.3401	24.9353	0.003988	0.102929	0.028094	0.007002	0.002754	0.046144	0.017533	0.370918	0.135504	0.037689	0.212342	2.320101	0.025583	0.541243	0.14836	0.037689	0.212342	2.320101	0.044994	0.742979	3.770326	3.155517	0.009278	0.001328	0.000247
Santa Clara	2027	LHDT2	Aggregate	Aggregate	Diesel	5135.734	196396.2	196396.2	0	64601.07	0	0.939745	1.642203	0	0.027496	0.027012	0	0.003	0.03185	0.028739	0.028234	0	0.012	0.091	739.7686	203.2066	0	0.006444	0.005098	0	0.116551	0.032015	0	0.13873	0.10976	0	0	0	0	0	0.157935	0.124954	0	0	0	0	0.195561	0.350532	0.909745	0	0.00701	0.001925	0	0
Santa Clara	2027	LHDT2	Aggregate	Aggregate	Electricity	164.9398	9665.772	0	9665.772	2187.868	6234.965	0	0	0	0	0	0	0.002	0.015925	0	0	0	0.008	0.0455	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2027	MCY	Aggregate	Aggregate	Gasoline	29075.8	167761.7	167761.7	0	58151.6	0	0.535092	0	0.117492	0.00183	0	0.003236	0.001	0.0042	0.001959	0	0.003451	0.004	0.012	186.4654	0	45.31465	0.151026	0	0.168253	0.038022	0	0.007087	0.961131	0	1.228813	3.558844	3.781493	3.845178	1.168054	0	1.336388	3.558844	3.781493	3.845178	0.008923	11.71041	0	7.90164	0.001843	0	0.000448
Santa Clara	2027	MDV	Aggregate	Aggregate	Gasoline	165596	5720178	5720178	0	767968.9	0	0.06839	0	0.336026	0.001074	0	0.001805	0.002	0.003182	0.001168	0	0.001963	0.008	0.009092	395.7552	0	100.7218	0.002795	0	0.081565	0.005877	0	0.036232	0.011189	0	0.391	0.084223	0.248249	1.520956	0.016327	0	0.428096	0.084223	0.248249	1.520956	0.038107	0.790051	0	3.34381	0.003912	0	0.000996
Santa Clara	2027	MDV	Aggregate	Aggregate	Diesel	2435.715	83100.92	83100.92	0	13312.15	0	0.036863	0	0	0.004069	0	0	0.002	0.003253	0.004253	0	0	0.008	0.009296	394.7915	0	0	0.000446	0	0	0.0622	0	0	0.009604	0	0	0	0	0	0	0.010934	0	0	0	0	0	0.0031	0.194438	0	0	0.003741	0	0
Santa Clara	2027	MDV	Aggregate	Aggregate	Electricity	3455.571	113998.9	0	113998.9	17408.95	44012.98	0	0	0	0	0	0	0.002	0.001529	0	0	0	0.008	0.004368	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2027	MDV	Aggregate	Aggregate	Plug-in Hyb	2094.107	84934.84	37715.29	47219.56	8659.133	14261.71	0.002914	0	0.11551	0.000422	0	0.001593	0.002	0.001395	0.000459	0	0.001732	0.008	0.003987	123.818	0	92.75106	0.000387	0	0.041448	0.0005	0	0.019836	0.00126	0	0.173285	0.029525	0.02765	0.340516	0.001839	0	0.189725	0.029525	0.02765	0.340516	0.01865	0.191096	0	1.339893	0.001224	0	0.000917
Santa Clara	2027	MH	Aggregate	Aggregate	Gasoline	2196.554	20762.47	20762.47	0	219.7432	0	0.298167	0	0.437987	0.001494	0	0.00036	0.003	0.015756	0.001625	0	0.000392	0.012	0.045017	1946.251	0	31.10334	0.010537	0	0.035941	0.020581	0	0.047644	0.043279	0	0.146043	9.869053	0.237897	3.909775	0.063153	0	0.159898	9.869053	0.237897	3.909775	0.044964	0.962497	0	3.180054	0.019241	0	0.000307
Santa Clara	2027	MH	Aggregate	Aggregate	Diesel	1025.714	9821.237	9821.237	0	102.5714	0	3.725695	0	0	0.075744	0	0	0.004	0.015675	0.079169	0	0	0.016	0.044785	1083.28	0	0	0.005175	0	0	0.170671	0	0	0.111405	0	0	0	0	0	0	0.126828	0	0	0	0	0	0.169608	0.362991	0	0	0.010265	0	0
Santa Clara	2027	MHDT	Aggregate	Aggregate	Gasoline	1408.047	72579.6	72579.6	0	28378.8	0.08115	0.393455	0.001336	0	0.000488	0	0.003	0.015756	0.001453	0	0.000531	0.012	0.045017	1709.11	517.1016	43.80548	0.009103	0.265767	0.043342	0.015723	0.007017	0.031676	0.04359	1.018957	0.232679	0.026764	0.221698	2.268825	0.063606	1.48686	0.254754	0.026764	0.221698	2.268825	0.045	0.873344	15.1889	5.024018	0.016896	0.005112	0.000433
Santa Clara	2027	MHDT	Aggregate	Aggregate	Diesel	10767.26	434295.5	434295.5	0	128657.2	0	0.939446	12.08814	1.635782	0.009401	0.016812	0	0.003	0.015941	0.009826	0.017572	0	0.012	0.045545	1128.563	2191.462	0	0.000987	0.009987	0	0.177806	0.345266	0	0.021244	0.215016	0	0	0	0	0	0.024185	0.244779	0	0	0	0	0.214146	0.090922	7.512068	0	0.010687	0.020752	0	0
Santa Clara	2027	MHDT	Aggregate	Aggregate	Electricity	282.6209	14714.25	0	14714.25	3656.161	16080.41	0	0	0	0	0	0	0.003	0.00795	0	0	0	0.012	0.022715	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2027	MHDT	Aggregate	Aggregate	Natural Ga	116.0954	5192.025	5192.025	0	1091.191	0	0.109888	6.361962	0	0.001299	0.019267	0	0.003	0.016009	0.001413	0.020955	0	0.012	0.045741	968.913	5260.482	0	0.758684	16.39433	0	0.197519	1.072384	0	0.01084	0.234243	0	0	0	0	0	0.774293	16.73162	0	0	0	0	1.06	2.994053	37.37847	0	0	0	0
Santa Clara	2027	OBUS	Aggregate	Aggregate	Gasoline	407.8269	17375.97	17375.97	0	8159.8	0	0.387611	0.061312	0.399202	0.001003	0	0.000264	0.003	0.01568	0.001091	0	0.000287	0.012	0.044799	1706.278	372.2847	30.84881	0.010578	0.195621	0.034722	0.019382	0.004991	0.030332	0.051093	0.746785	0.184017	0.035247	0.182391	3.280727	0.074554	1.089707	0.201475	0.035247	0.182391	3.280727	0.04499	1.115566	5.777658	3.835425	0.016868	0.00368	0.000305
Santa Clara	2027	OBUS	Aggregate	Aggregate	Diesel	975.8726	63044.62	63044.62	0	10038.86	0	1.057611	6.690487	1.502438	0.017399	0.006668	0	0.003	0.018093	0.018186	0.006697	0	0.012	0.051694	1229.962	1514.616	0	0.001687	0.020933	0	0.193781	0.238628	0	0.036317	0.450692	0	0	0	0	0	0.041344	0.513079	0	0	0	0	0.216551	0.134702	7.701933	0	0.011647	0.014343	0	0
Santa Clara	2027	OBUS	Aggregate	Aggregate	Electricity	7.148004	573.2173	0	573.2173	143.0173	635.037	0	0	0	0	0	0	0.003	0.00784	0	0	0	0.012	0.022399	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2027	OBUS	Aggregate	Aggregate	Natural Ga	10.00472	655.306	655.306	0	89.042	0	0.130414	1.511841	0	0.001347	0.004509	0	0.003	0.016148	0.001465	0.004904	0	0.012	0.046137	962.0387	1183.268	0	0.822734	3.921152	0	0.196118	0.241217	0	0.011755	0.056026	0	0	0	0	0	0.839661	4.001823	0	0	0	0	1.06	3.343066	8.72839	0	0	0	0
Santa Clara	2027	SBUS	Aggregate	Aggregate	Gasoline	188.5987	9259.272	9259.272	0	754.3948	0	0.450353	0.871777	0.740409	0.000875	0	0.000586	0.002	0.015721	0.000952	0	0.000637	0.008	0.044917	798.7707	2554.986	56.83783	0.009468	2.468092	0.07398	0.025075	0.081195	0.067806	0.045802	10.63953	0.419588	0.124616	0.336253	2.048577	0.066835	15.52518	0.459397	0.124616	0.336253	2.048577	0.045	1.177716	82.22881	9.921963	0.007897	0.025259	0.000562
Santa Clara	2027	SBUS	Aggregate	Aggregate	Diesel	674.8268	15110.62	15110.62	0	9771.491	0	3.20468	20.2361	0.521414	0.016822	0.015508	0	0.003	0.015721	0.017582	0.016209	0	0.012	0.044917	1131.356	2199.096	0	0.002413	0.007856	0	0.178246	0.346468	0	0.05196	0.169144	0	0	0	0	0	0.059153	0.192557	0	0	0	0	0.159585	0.164971	4.989511	0	0.010713	0.020824	0	0
Santa Clara	2027	SBUS	Aggregate	Aggregate	Electricity	12.30338	395.5247	0	395.5247	141.8818	416.6678	0	0	0	0	0	0	0.003	0.00257	0.00786	0	0	0	0.010282	0.022459	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2027	SBUS	Aggregate	Aggregate	Natural Ga	27.00068	655.8362	655.8362	0	390.9698	0	0.516279	5.240894	0	0.003378	0.012073	0	0.003	0.015721	0.003674	0.01313	0	0.012	0.044917	1235.508	4086.873	0	3.295023	14.88623	0	0.251866	0.833136	0	0.047079	0.212695	0	0	0	0	0	0.362812	15.19249	0	0	0	0	1.06	10.98242	22.36041	0	0	0	0
Santa Clara	2027	UBUS	Aggregate	Aggregate	Gasoline	46.49126	4855.072	4855.072	0	185.9651	0	0.026613	0	0.433152	0.001143	0	0.000128	0.002	0.03185	0.001244	0	0.00014	0.008	0.091	925.4384	0	36.07215	0.001903	0	0.042735	0.004171	0	0.068782	0.005254	0	0.151018	0.054894	0.139449	0.729049	0.007666	0	0.165346	0.054894	0.139449	0.729049	0.045	0.595487	0	5.593095	0.009149	0	0.000357
Santa Clara	2027	UBUS	Aggregate	Aggregate	Diesel	397.2804	44140.83	44140.83	0	1589.121	0	0.382078	0	0	0.006946	0	0	0.002	0.008221	0.0385	0.00726	0	0	0.032883	0.11	1110.45	0	0	0.003187	0	0	0.174952	0	0	0.068626	0	0	0	0	0	0.078125	0	0	0	0	0	0.22	0.078519	0	0	0.010522	0	0
Santa Clara	2027	UBUS	Aggregate	Aggregate	Electricity	29.37609	3075.292	0	3075.292	117.5043	5360.985	0	0	0	0	0	0	0.008954	0.01925	0	0	0	0.035816	0.055	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2027	UBUS	Aggregate	Aggregate	Natural Ga	63.05154	7280.138	7280.138	0	252.2062	0	0.060784	0	0	0.000288	0	0	0.008445	0.0385	0.000301	0	0	0.03378	0.11	1320.896	0	0	4.332417	0	0	0.269273	0	0	0.061902	0	0	0	0	0	0	0.442149	0	0	0	0	0	0	0	0	0	0	0

P3 Infra - CalEEMod Construction Inputs

Phase	CalEEMod WORKER TRIPS	CalEEMod VENDOR TRIPS	Total Worker Trips	Total Vendor Trips	CalEEMod HAULING TRIPS	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class	*Worker VMT*	*Vendor VMT*	*Hauling VMT*
Infrastructure	25	1	2550	102	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	27540	744.6	0

Number of Days Per Year					
2027	1/1/27	4/29/27	119	103	
			119	**103**	***Total Workdays***

Phase	Start Date	End Date	Days/Week	Workdays
Infrastructure	1/1/2027	4/29/2027	6	102

Summary of Construction Traffic Emissions (EMFAC2021)

CATEGORY	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	NBio- CO2	CH4	N2O	CO2e
						Grams								
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
Vendor	37.76	1365.11	687.30	9.67	222.64	77.06	299.70	33.50	32.72	66.22	1051135.19	55.30	154.32	#########
Worker	2705.40	2010.37	27791.23	76.12	8234.46	480.48	8714.94	1239.02	167.79	1406.82	7699837.82	234.95	212.53	#########
Total (g)	2743.16	3375.47	28478.52	85.79	8457.10	557.54	9014.64	1272.52	200.51	1473.03	8750973.01	290.25	366.85	#########
Total (lbs)	6.05	7.44	62.78	0.19	18.64	1.23	19.87	2.81	0.44	3.25	19292.59	0.64	0.81	19549.60
Total (tons)	0.00	0.00	0.03	0.00	0.01	0.00	0.01	0.00	0.00	0.00	9.65	0.00	0.00	9.77
Total (MT)											8.75	0.00	0.00	8.87

YEAR														
							Tons							
2027	0.0030	0.0037	0.0314	0.0001	0.0093	0.0006	0.0099	0.0014	0.0002	0.0016	8.7510	0.0003	0.0004	8.8676

		Mix %	Adj	ROG_DIURN	ROG_HTSK	ROG_IDLEX	ROG_RESTL	ROG_RUNEX	ROG_RUNLS	ROG_STREX	NOX_IDLEX	NOX_RUNEX	NOX_STREX	CO_IDLEX	CO_RUNEX	CO_STREX	SO2_IDLEX	SO2_RUNEX	SO2_STREX	Road Dust PM10	PM10_PM BW	PM10_PM TW	PM10_IDLEX	PM10_RUNEX	PM10_STREX	Road Dust PM25	PM25_PM BW	PM25_PM TW	PM25_IDLEX	PM25_RUNEX	PM25_STREX	CO2_NBIO_IDLEX	CO2_NBIO_RUNEX	CO2_NBIO_STREX	CH4_IDLEX	CH4_RUNEX	CH4_STREX	N2O_IDLEX	N2O_RUNEX	N2O_STREX
Category																														19	22	23	8	9	10						
Hauling	HHDT	100.0	1	9.1592E-05	2.90398E-05	0.321590124	0	0.01628701	0.00026147	3.72501E-07	3.9650792	1.633848814	2.745433901	5.124778	0.70877415	0.000782	0.0067481	0.013717513	1.259E-07		0.081782	0.035135	0.001939	0.024473	2.86377E-07		0.028624	0.008784	0.001849	0.0234108	2.633E-07	777.08947	1519.2636	0.0127352	0.218219	0.10604745	6.86812E-08	0.125416	0.242608661	7.35107E-06
	MHD	0.0	0	0.019771494	0.004666468	0.023376294	0	0.02362674	0.03865491	0.040569481	0.8108161	0.814699228	1.371110948	0.659814	0.22479796	0.875978	0.00142742	0.011138512	7.55078E-05	0.299	0.044837	0.012	0.001186	0.008315	9.25129E-05	0.04499	0.015693	0.003	0.001134	0.0079473	8.506E-05	154.3221	1175.4531	7.6378398	0.014761	0.009545333	0.00755705	0.02384	0.150701674	0.005522907
Vendor	HHDT	50.0	0.5	4.5796E-05	1.45199E-05	0.160795062	0	0.00814351	0.00013074	1.8625E-07	1.9825396	0.816924407	1.372716951	2.562389	0.35438708	0.000391	0.00337405	0.006858757	6.29501E-08		0.040891	0.017568	0.00097	0.012236	1.43188E-07		0.014312	0.004392	0.000924	0.0117054	1.317E-07	388.54474	759.63181	0.0063676	0.10911	0.053023725	3.43406E-08	0.062708	0.121304331	3.67553E-06
	MHD	50.0	0.5	0.009885747	0.002333234	0.011688147	0	0.01181337	0.01932745	0.020284741	0.405408	0.407349614	0.685555474	0.329907	0.11239898	0.437989	0.00071371	0.005569256	3.77539E-05		0.022418	0.006	0.000593	0.004157	4.62565E-05		0.007846	0.0015	0.000567	0.0039736	4.253E-05	77.161049	587.72653	3.8189199	0.007381	0.004772667	0.003778525	0.01192	0.075350837	0.002761454
			1	0.009931543	0.002347754	0.172483209	0	0.01995688	0.01945819	0.020284927	2.3879476	1.224274021	2.058272425	2.892296	0.46678606	0.43838	0.00408776	0.012428013	3.78169E-05	0.299	0.063309	0.023568	0.001563	0.016394	4.63996E-05	0.04499	0.022158	0.005892	0.001491	0.0156791	4.266E-05	465.70578	1347.3583	3.8252875	0.11649	0.057796392	0.00377856	0.074628	0.196655167	0.002765129
Worker	LDA	50.0	0.5	0.124774953	0.035332579	0	0	0.00280128	0.09381266	0.118752298	0	0.013978935	0.099494609	0	0.27238771	1.207995	0	0.001138522	0.00029368		0.003554	0.004	0	0.000508	0.000861352		0.001244	0.001	0	0.0004677	0.000792	0	115.17186	29.706588	0	0.000769144	0.026851221	0	0.001755054	0.01360376
	LDT1	25.0	0.25	0.127182533	0.034919795	0	0	0.0048531	0.09837243	0.106039612	0	0.02313956	0.079887107	0	0.27893015	1.050819	0	0.00076883	0.000200154		0.002299	0.002	0	0.000394	0.000618991		0.000805	0.0005	0	0.0003623	0.0005691	0	77.769662	20.246134	0	0.001123286	0.021436306	0	0.001841326	0.008783877
	LDT2	25.0	0.25	0.068511887	0.018162188	0	0	0.00212373	0.05123426	0.078241944	0	0.012836987	0.069477589	0	0.17725184	0.771154	0	0.000792088	0.000201524		0.002213	0.002	0	0.000296	0.000481527		0.000775	0.0005	0	0.0002722	0.0004427	0	80.133178	20.384716	0	0.000559632	0.017367339	0	0.0012713	0.008386223
			1	0.320469373	0.088414562	0	0	0.00977811	0.24341934	0.303033854	0	0.049955482	0.248859306	0	0.7285697	3.029968	0	0.00269944	0.000695357	0.299	0.008067	0.008	0	0.001198	0.00196187	0.04499	0.002823	0.002	0	0.0011022	0.0018039	0	273.0747	70.337438	0	0.002452062	0.065654866	0	0.00486768	0.030773861

Adjustment Factors

Vehicle Category	Fuel	Population	Pop Fract	VMT (miles/day)	VMT Fract	Trips/day	Trip Fract
HHDT	GAS	1.83310515	1.28148E-05	147.0377538	0.000134	36.67676781	0.000256
HHDT	DSL	9011.07054	0.06299448	1021241.459	0.9307328	132754.8218	0.928061
HHDT	ELEC	177.805179	0.001242998	18594.17257	0.0169462	2312.242257	0.016164
HHDT	NG	889.169201	0.006215993	57261.8103	0.0521869	7941.659305	0.055518
		10079.878		1097244.48		143045.4002	
LDA	GAS	599340.546	0.18713399	21995338.59	0.8544339	2782741.959	0.868864
LDA	DSL	1347.74765	0.000420812	38343.79498	0.0014895	5721.586385	0.001786
LDA	ELEC	67294.1187	0.021011455	2805164.418	0.1089698	324882.7767	0.101439
LDA	PIH	21617.5337	0.006749711	903738.2979	0.0351067	89388.50166	0.02791
		689599.946		25742585.1		3202734.824	
LDT1	GAS	49888.1548	0.222439047	1593479.412	0.9876779	222126.8834	0.990409
LDT1	DSL	6.22787611	2.77686E-05	90.54084291	5.612E-05	17.39549012	7.76E-05
LDT1	ELEC	300.498335	0.001339848	12309.71399	0.0076299	1437.605088	0.00641
LDT1	PIH	168.315007	0.000750475	7479.706544	0.0046361	695.9825537	0.003103
		50363.196		1613359.374		224277.8665	
LDT2	GAS	301290.288	0.208868235	10685987.29	0.9733366	1406456.817	0.97502
LDT2	DSL	1103.1232	0.000764736	39708.70156	0.0036169	5205.70345	0.003609
LDT2	ELEC	3306.05994	0.002291912	108939.5464	0.0099228	16647.4372	0.011541
LDT2	PIH	3429.21286	0.002377287	144081.8505	0.0131237	14179.79517	0.00983
		309128.684		10978717.39		1442489.753	
LHDT1	GAS	19670.4316	0.044847583	736983.4892	0.6143979	293060.1217	0.668162
LHDT1	DSL	10848.44	0.024733891	422662.2799	0.352359	136459.7276	0.311121
LHDT1	ELEC	649.088082	0.001479888	39875.82562	0.0332431	9086.426967	0.020717
		31167.9596	0.071061363	1199521.595		438606.2763	
LHDT2	GAS	2509.54585	0.024605909	90648.20323	0.3055109	37388.49394	0.366591
LHDT2	DSL	5135.73367	0.050355483	196396.2345	0.6619126	64601.06884	0.633409
LHDT2	ELEC	164.939847	0.001617223	9665.772366	0.0325765	2187.867909	0.021452
		7810.21937	0.076578614	296710.2101		101989.5628	
MCY	GAS	29075.7985	0.022036416	167761.7404	1	58151.59703	1
MDV	GAS	165596.043	0.205620194	5720178.355	0.9530116	767968.8831	0.953585
MDV	DSL	2435.7151	0.003024421	83100.92035	0.013845	11312.15421	0.014046
MDV	ELEC	3455.57097	0.004290774	113998.8871	0.0189928	17408.95229	0.021617
MDV	PIH	2094.10717	0.002600248	84934.84165	0.0141506	8659.133135	0.010752
		173581.436		6002213.004		805349.1227	
MH	GAS	2196.55378	6.814936703	20762.4687	0.6788735	219.7432404	0.681766
MH	DSL	1025.71387	3.182337322	9821.237376	0.3211265	102.5713867	0.318234
		3222.26765		30583.70608		322.3146272	
MHDT	GAS	1408.04737	0.008714419	72579.59868	0.1377793	28172.2118	0.174358
MHDT	DSL	10767.2575	0.06663866	434295.527	0.8244322	128657.1776	0.796261
MHDT	ELEC	282.620889	0.001749143	14714.25293	0.0279324	3656.160606	0.022628
MHDT	NG	116.095443	0.000718516	5192.024559	0.0098561	1091.190944	0.006753
		12574.0212		526781.4032		161576.7409	
OBUS	GAS	407.82687	0.022127557	17375.96776	0.2128127	8159.800014	0.442728
OBUS	DSL	975.872557	0.052948143	63044.61847	0.7721409	10038.86378	0.544681
OBUS	ELEC	7.14800405	0.000387831	573.2172812	0.0070205	143.0172651	0.00776
OBUS	NG	10.0047196	0.000542828	655.3060246	0.0080259	89.04200475	0.004831
		1400.85215		81649.10954		18430.72307	
SBUS	GAS	188.598701	0.01705427	9259.271788	0.3642335	754.394804	0.068217
SBUS	DSL	674.826752	0.061022041	15110.62134	0.594409	9771.491366	0.883599
SBUS	ELEC	12.3033842	0.001112549	395.5247459	0.0155588	141.8818066	0.01283
SBUS	NG	27.0006796	0.00244157	655.8361653	0.0257987	390.9698406	0.035354
		902.729517		25421.25404		11058.73782	
UBUS	GAS	46.4912643	0.021676301	4855.071828	0.0818022	185.9650573	0.086705
UBUS	DSL	397.280354	0.185229816	44140.83036	0.743721	1589.121414	0.740919
UBUS	ELEC	29.3760874	0.11647648	3075.292219	0.4224222	117.5043495	0.465906
UBUS	NG	63.0515433	0.029397441	7280.138117	0.1226617	252.206173	0.11759
		536.199249		59351.33253		2144.796994	

Source: EMFAC2021 (v1.0.1) Emission Rates
Region Type: County
Region: Santa Clara
Calendar Year: 2027
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN

Region	Calendar Y	Vehicle Cat	Model Yea	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	Energy Con	NOx_RUNEX	NOx_IDLEX	NOx_STREX	PM2.5_RU	PM2.5_IDL	PM2.5_STR	PM2.5_PM	PM2.5_PM	PM10_RUN	PM10_IDLE	PM10_STR	PM10_PM	PM10_PMI	CO2_RUNEX	CO2_IDLEX	CO2_STREX	CH4_RUNEX	CH4_IDLEX	CH4_STREX	N2O_RUNEX	N2O_IDLEX	N2O_STREX	ROG_RUNI	ROG_IDLEX	ROG_STREX	ROG_HOTS	ROG_RUNI	ROG_IDLEX	ROG_DIUR	TOG_RUNEX	TOG_IDLEX	TOG_STREX	TOG_HOTS	TOG_RUNI	TOG_DIUR	NH3_RUNEX	CO_RUNEX	CO_IDLEX	CO_STREX	SOx_RUNE	SOx_IDLEX	SOx_STREX
Santa Clara	2027	HHDT	Aggregate	Aggregate	Gasoline	1.833105	147.0378	147.0378	0	36.67677	0	3.730042	0	0.773498	0.002199	0	0.001027	0.005	0.032692	0.002391	0	0.001117	0.02	0.093405	2000.505	0	49.66925	0.135639	0	0.000268	0.136273	0	0.02867	0.73131	0	0.001453	0.11326	1.019783	7.147336	1.067126	0	0.001591	0.11326	1.019783	7.147336	0.044505	30.82312	0	3.048179	0.019777	0	0.000491
Santa Clara	2027	HHDT	Aggregate	Aggregate	Diesel	9011.071	1021241	1021241	0	132754.8	0	1.704043	61.72079	2.958034	0.025062	0.026785	0	0.008776	0.027672	0.026195	0.027996	0	0.035105	0.079063	1556.123	11312.44	0	0.000701	0.234878	0	0.245168	1.782279	0	0.015102	5.056861	0	0	0	0	0	0.017193	5.756851	0	0	0	0	0.216828	0.070456	73.92424	0	0.014736	0.107122	0
Santa Clara	2027	HHDT	Aggregate	Aggregate	Electricity	177.8052	18594.17	0	18594.17	2312.242	34279.09	0	0	0	0	0	0	0.008561	0.015051	0	0	0	0.034243	0.043002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2027	HHDT	Aggregate	Aggregate	Natural Ga	889.1692	57261.81	57261.81	0	7941.659	0	0.907136	12.38898	0	0.001615	0.025966	0	0.009	0.049992	0.001756	0.028241	0	0.036	0.142836	1353.997	10371.37	0	2.019211	32.72582	0	0.276021	2.114271	0	0.040872	0.488388	0	0	0	0	0	0.827361	12.24575	75.28309	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2027	LDA	Aggregate	Aggregate	Gasoline	599340.5	21995339	21995339	0	2782742	0	0.032349	0	0.225312	0.001054	0	0.001765	0.002	0.002654	0.001146	0	0.001919	0.008	0.007584	263.8358	0	66.33426	0.001782	0	0.060463	0.004024	0	0.030664	0.009466	0	0.267784	0.080009	0.214602	1.316821	0.037295	0.628802	0	2.737589	0.002608	0	0.000656
Santa Clara	2027	LDA	Aggregate	Aggregate	Diesel	1347.748	38343.79	38343.79	0	5721.586	0	0.140881	0	0	0.011715	0	0	0.002	0.00272	0.012244	0	0	0.008	0.007772	225.3761	0	0	0.000974	0	0	0.035508	0	0	0.020977	0	0	0	0	0	0	0.023881	0	0	0	0	0	0.0031	0.295578	0	0	0.002136	0	0
Santa Clara	2027	LDA	Aggregate	Aggregate	Electricity	67294.12	2805164	0	2805164	324882.8	1083025	0	0	0	0	0	0	0.002	0.001535	0	0	0	0.008	0.004387	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2027	LDA	Aggregate	Aggregate	Plug-in Hyb	21617.53	903738.3	422627.3	481111	89388.5	145309.9	0.003069	0	0.11551	0.000505	0	0.001811	0.002	0.001389	0.000549	0	0.00197	0.008	0.00397	130.3968	0	63.69406	0.000412	0	0.041864	0.000538	0	0.020225	0.001327	0	0.173285	0.041139	0.041737	0.463414	0.001936	0	0.189725	0.041139	0.041737	0.463414	0.018819	0.201249	0	1.339893	0.001289	0	0.00063
Santa Clara	2027	LDT1	Aggregate	Aggregate	Gasoline	49888.15	1593479	1593479	0	222126.9	0	0.093626	0	0.322281	0.001455	0	0.002295	0.002	0.003241	0.001582	0	0.002496	0.008	0.009259	314.3854	0	81.55325	0.004547	0	0.086445	0.007451	0	0.035413	0.019635	0	0.427723	0.140959	0.397237	2.286124	0.028652	0	0.468303	0.140959	0.397237	2.286124	0.037251	1.12869	0	4.23978	0.003108	0	0.000806
Santa Clara	2027	LDT1	Aggregate	Aggregate	Diesel	6.227876	90.54084	90.54084	0	17.39549	0	1.298199	0	0	0.195794	0	0	0.002	0.003665	0.204647	0	0	0.008	0.010473	394.8653	0	0	0.011321	0	0	0.062211	0	0	0.243739	0	0	0	0	0	0	0.27748	0	0	0	0	0	0.0031	1.74279	0	0	0.003742	0	0
Santa Clara	2027	LDT1	Aggregate	Aggregate	Electricity	300.4983	12309.71	0	12309.71	1437.605	4752.566	0	0	0	0	0	0	0.002	0.001535	0	0	0	0.008	0.004385	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2027	LDT1	Aggregate	Aggregate	Plug-in Hyb	168.315	7479.707	3153.075	4326.632	695.9826	1306.772	0.002766	0	0.11551	0.000305	0	0.001223	0.002	0.0014	0.000332	0	0.00133	0.008	0.003999	117.5444	0	68.77997	0.000369	0	0.041651	0.00048	0	0.020025	0.001196	0	0.173285	0.023215	0.020021	0.275602	0.001745	0	0.189725	0.023215	0.020021	0.275602	0.017705	0.181413	0	1.339893	0.001162	0	0.00068
Santa Clara	2027	LDT2	Aggregate	Aggregate	Gasoline	301290.3	10685987	10685987	0	1406457	0	0.052589	0	0.283866	0.001098	0	0.001802	0.002	0.003137	0.001194	0	0.00196	0.008	0.008963	326.5481	0	82.86482	0.002292	0	0.07083	0.005044	0	0.034203	0.008665	0	0.319239	0.07425	0.209956	1.308636	0.012643	0	0.349526	0.07425	0.209956	1.308636	0.038412	0.725393	0	3.150133	0.003228	0	0.000819
Santa Clara	2027	LDT2	Aggregate	Aggregate	Diesel	1103.123	39708.7	39708.7	0	5205.703	0	0.033914	0	0	0.004292	0	0	0.002	0.003135	0.004487	0	0	0.008	0.008958	297.5211	0	0	0.000577	0	0	0.046875	0	0	0.012423	0	0	0	0	0	0	0.014142	0	0	0	0	0	0.0031	0.127877	0	0	0.002819	0	0
Santa Clara	2027	LDT2	Aggregate	Aggregate	Electricity	3306.06	108939.5	0	108939.5	16647.44	42059.66	0	0	0	0	0	0	0.002	0.001529	0	0	0	0.008	0.004368	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2027	LDT2	Aggregate	Aggregate	Plug-in Hyb	3429.213	144081.9	63603.3	80478.56	14179.8	24306.92	0.002897	0	0.11551	0.000381	0	0.001463	0.002	0.001395	0.000414	0	0.001581	0.008	0.003987	123.0899	0	75.68447	0.000386	0	0.0416	0.000501	0	0.019977	0.001253	0	0.173285	0.025755	0.022981	0.300816	0.001828	0	0.189725	0.025755	0.022981	0.300816	0.018524	0.189972	0	1.339893	0.001217	0	0.000748
Santa Clara	2027	LHDT1	Aggregate	Aggregate	Gasoline	19670.43	736983.5	736983.5	0	293060.1	0	0.118942	0.033105	0.571033	0.001405	0	0.000239	0.002	0.0273	0.001528	0	0.00026	0.008	0.078	829.449	115.9534	25.51381	0.005601	0.105399	0.029155	0.00682	0.002869	0.047788	0.026962	0.379506	0.142236	0.03999	0.233145	2.457411	0.039343	0.553775	0.15573	0.03999	0.233145	2.457411	0.044981	0.93654	3.763109	3.224747	0.0082	0.001146	0.000252
Santa Clara	2027	LHDT1	Aggregate	Aggregate	Diesel	10848.44	422662.3	422662.3	0	136459.7	0	1.08439	1.64968	0	0.028062	0.026509	0	0.003	0.0273	0.029331	0.027708	0	0.012	0.078	622.7952	126.7206	0	0.006587	0.005098	0	0.098122	0.019965	0	0.141815	0.10976	0	0	0	0	0	0.161447	0.124954	0	0	0	0	0.188998	0.373722	0.909745	0	0.005901	0.001201	0	0
Santa Clara	2027	LHDT1	Aggregate	Aggregate	Electricity	649.0881	39875.83	0	39875.83	9086.427	26117.1	0	0	0	0	0	0	0.002	0.01365	0	0	0	0.008	0.039	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2027	LHDT2	Aggregate	Aggregate	Gasoline	2509.546	90648.2	90648.2	0	37388.49	0	0.111653	0.032331	0.561944	0.001268	0	0.000185	0.002	0.03185	0.00138	0	0.000201	0.008	0.091	938.4469	134.3401	24.9353	0.003988	0.102929	0.028094	0.007002	0.002754	0.046144	0.017533	0.370918	0.135504	0.037689	0.212342	2.320101	0.025583	0.541243	0.14836	0.037689	0.212342	2.320101	0.044994	0.742979	3.770326	3.155517	0.009278	0.001328	0.000247
Santa Clara	2027	LHDT2	Aggregate	Aggregate	Diesel	5135.734	196396.2	196396.2	0	64601.07	0	0.939745	1.642203	0	0.027496	0.027012	0	0.003	0.03185	0.028739	0.028234	0	0.012	0.091	739.7686	203.2066	0	0.006444	0.005098	0	0.116551	0.032015	0	0.13873	0.10976	0	0	0	0	0	0.157935	0.124954	0	0	0	0	0.195561	0.350532	0.909745	0	0.00701	0.001925	0	0
Santa Clara	2027	LHDT2	Aggregate	Aggregate	Electricity	164.9398	9665.772	0	9665.772	2187.868	6234.965	0	0	0	0	0	0	0.002	0.015925	0	0	0	0.008	0.0455	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2027	MCY	Aggregate	Aggregate	Gasoline	29075.8	167761.7	167761.7	0	58151.6	0	0.535092	0	0.117492	0.00183	0	0.003236	0.001	0.0042	0.001959	0	0.003451	0.004	0.012	186.4654	0	45.31465	0.151026	0	0.168253	0.038022	0	0.007087	0.961131	0	1.228813	3.558844	3.781493	3.845178	1.168054	0	1.336388	3.558844	3.781493	3.845178	0.008923	11.71041	0	7.90164	0.001843	0	0.000448
Santa Clara	2027	MDV	Aggregate	Aggregate	Gasoline	165596	5720178	5720178	0	767968.9	0	0.06839	0	0.336026	0.001074	0	0.001805	0.002	0.003182	0.001168	0	0.001963	0.008	0.009092	395.7552	0	100.7218	0.002795	0	0.081565	0.005877	0	0.036232	0.011189	0	0.391	0.084223	0.248249	1.520956	0.016327	0	0.428096	0.084223	0.248249	1.520956	0.038107	0.790051	0	3.34381	0.003912	0	0.000996
Santa Clara	2027	MDV	Aggregate	Aggregate	Diesel	2435.715	83100.92	83100.92	0	13312.15	0	0.036863	0	0	0.004069	0	0	0.002	0.003253	0.004253	0	0	0.008	0.009296	394.7915	0	0	0.000446	0	0	0.0622	0	0	0.009604	0	0	0	0	0	0	0.010934	0	0	0	0	0	0.0031	0.194438	0	0	0.003741	0	0
Santa Clara	2027	MDV	Aggregate	Aggregate	Electricity	3455.571	113998.9	0	113998.9	17408.95	44012.98	0	0	0	0	0	0	0.002	0.001529	0	0	0	0.008	0.004368	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2027	MDV	Aggregate	Aggregate	Plug-in Hyb	2094.107	84934.84	37715.29	47219.56	8659.133	14261.71	0.002914	0	0.11551	0.000422	0	0.001593	0.002	0.001395	0.000459	0	0.001732	0.008	0.003987	123.818	0	92.75106	0.000387	0	0.041448	0.0005	0	0.019836	0.00126	0	0.173285	0.029525	0.02765	0.340516	0.001839	0	0.189725	0.029525	0.02765	0.340516	0.01865	0.191096	0	1.339893	0.001224	0	0.000917
Santa Clara	2027	MH	Aggregate	Aggregate	Gasoline	2196.554	20762.47	20762.47	0	219.7432	0	0.298167	0	0.437987	0.001494	0	0.00036	0.003	0.015756	0.001625	0	0.000392	0.012	0.045017	1946.251	0	31.10334	0.010537	0	0.035941	0.020581	0	0.047644	0.043279	0	0.146043	9.869053	0.237897	3.909775	0.063153	0	0.159898	9.869053	0.237897	3.909775	0.044964	0.962497	0	3.180054	0.019241	0	0.000307
Santa Clara	2027	MH	Aggregate	Aggregate	Diesel	1025.714	9821.237	9821.237	0	102.5714	0	3.725695	0	0	0.075744	0	0	0.004	0.015675	0.079169	0	0	0.016	0.044785	1083.28	0	0	0.005175	0	0	0.170671	0	0	0.111405	0	0	0	0	0	0	0.126828	0	0	0	0	0	0.169608	0.362991	0	0	0.010265	0	0
Santa Clara	2027	MHDT	Aggregate	Aggregate	Gasoline	1408.047	72579.6	72579.6	0	28378.8	0.08115	0.393455	0.001336	0	0.000488	0	0.003	0.015756	0.001453	0	0.000531	0.012	0.045017	1709.11	517.1016	43.80548	0.009103	0.265767	0.043342	0.015723	0.007017	0.031676	0.04359	1.018957	0.232679	0.026764	0.221698	2.268825	0.063606	1.48686	0.254754	0.026764	0.221698	2.268825	0.045	0.873344	15.1889	5.024018	0.016896	0.005112	0.000433
Santa Clara	2027	MHDT	Aggregate	Aggregate	Diesel	10767.26	434295.5	434295.5	0	128657.2	0	0.939446	12.08814	1.635782	0.009401	0.016812	0	0.003	0.015941	0.009826	0.017572	0	0.012	0.045545	1128.563	2191.462	0	0.000987	0.009987	0	0.177806	0.345266	0	0.021244	0.215016	0	0	0	0	0	0.024185	0.244779	0	0	0	0	0.214146	0.090922	7.512068	0	0.010687	0.020752	0	0
Santa Clara	2027	MHDT	Aggregate	Aggregate	Electricity	282.6209	14714.25	0	14714.25	3656.161	16080.41	0	0	0	0	0	0	0.003	0.00795	0	0	0	0.012	0.022715	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2027	MHDT	Aggregate	Aggregate	Natural Ga	116.0954	5192.025	5192.025	0	1091.191	0	0.109888	6.361962	0	0.001299	0.019267	0	0.003	0.016009	0.001413	0.020955	0	0.012	0.045741	968.913	5260.482	0	0.758684	16.39433	0	0.197519	1.072384	0	0.01084	0.234243	0	0	0	0	0	0.774293	16.73162	0	0	0	0	1.06	2.994053	37.37847	0	0	0	0
Santa Clara	2027	OBUS	Aggregate	Aggregate	Gasoline	407.8269	17375.97	17375.97	0	8159.8	0	0.387611	0.061312	0.399202	0.001003	0	0.000264	0.003	0.01568	0.001091	0	0.000287	0.012	0.044799	1706.278	372.2847	30.84881	0.010578	0.195621	0.034722	0.019382	0.004991	0.030332	0.051093	0.746785	0.184017	0.035247	0.182391	3.280727	0.074554	1.089707	0.201475	0.035247	0.182391	3.280727	0.04499	1.115566	5.777658	3.835425	0.016868	0.00368	0.000305
Santa Clara	2027	OBUS	Aggregate	Aggregate	Diesel	975.8726	63044.62	63044.62	0	10038.86	0	1.057611	6.690487	1.502438	0.017399	0.006668	0	0.003	0.018093	0.018186	0.006697	0	0.012	0.051694	1229.962	1514.616	0	0.001687	0.020933	0	0.193781	0.238628	0	0.036317	0.450692	0	0	0	0	0	0.041344	0.513079	0	0	0	0	0.216551	0.134702	7.701933	0	0.011647	0.014343	0	0
Santa Clara	2027	OBUS	Aggregate	Aggregate	Electricity	7.148004	573.2173	0	573.2173	143.0173	635.037	0	0	0	0	0	0	0.003	0.00784	0	0	0	0.012	0.022399	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2027	OBUS	Aggregate	Aggregate	Natural Ga	10.00472	655.306	655.306	0	89.042	0	0.130414	1.511841	0	0.001347	0.004509	0	0.003	0.016148	0.001465	0.004904	0	0.012	0.046137	962.0387	1183.268	0	0.822734	3.921152	0	0.196118	0.241217	0	0.011755	0.056026	0	0	0	0	0	0.839661	4.001823	0	0	0	0	1.06	3.343066	8.72839	0	0	0	0
Santa Clara	2027	SBUS	Aggregate	Aggregate	Gasoline	188.5987	9259.272	9259.272	0	754.3948	0	0.450353	0.871777	0.740409	0.000875	0	0.000586	0.002	0.015721	0.000952	0	0.000637	0.008	0.044917	798.7707	2554.986	56.83783	0.009468	2.468092	0.07398	0.025075	0.081195	0.067806	0.045802	10.63953	0.419588	0.124616	0.336253	2.048577	0.066835	15.52518	0.459397	0.124616	0.336253	2.048577	0.045	1.177716	82.22881	9.921963	0.007897	0.025259	0.000562
Santa Clara	2027	SBUS	Aggregate	Aggregate	Diesel	674.8268	15110.62	15110.62	0	9771.491	0	3.20468	20.2361	0.521414	0.016822	0.015508	0	0.003	0.015721	0.017582	0.016209	0	0.012	0.044917	1131.356	2199.096	0	0.002413	0.007856	0	0.178246	0.346468	0	0.05196	0.169144	0	0	0	0	0	0.059153	0.192557	0	0	0	0	0.159585	0.164971	4.989511	0	0.010713	0.020824	0	0
Santa Clara	2027	SBUS	Aggregate	Aggregate	Electricity	12.30338	395.5247	0	395.5247	141.8818	416.6678	0	0	0	0	0	0	0.003	0.00257	0.00786	0	0	0	0.010282	0.022459	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2027	SBUS	Aggregate	Aggregate	Natural Ga	27.00068	655.8362	655.8362	0	390.9698	0	0.516279	5.240894	0	0.003378	0.012073	0	0.003	0.015721	0.003674	0.01313	0	0.012	0.044917	1235.508	4086.873	0	3.295023	14.88623	0	0.251866	0.833136	0	0.047079	0.212695	0	0	0	0	0	0.362812	15.19249	0	0	0	0	1.06	10.98242	22.36041	0	0	0	0
Santa Clara	2027	UBUS	Aggregate	Aggregate	Gasoline	46.49126	4855.072	4855.072	0	185.9651	0	0.026613	0	0.433152	0.001143	0	0.000128	0.002	0.03185	0.001244	0	0.00014	0.008	0.091	925.4384	0	36.07215	0.001903	0	0.042735	0.004171	0	0.068782	0.005254	0	0.151018	0.054894	0.139449	0.729049	0.007666	0	0.165346	0.054894	0.139449	0.729049	0.045	0.595487	0	5.593095	0.009149	0	0.000357
Santa Clara	2027	UBUS	Aggregate	Aggregate	Diesel	397.2804	44140.83	44140.83	0	1589.121	0	0.382078	0	0	0.006946	0	0	0.002	0.008221	0.0385	0.00726	0	0	0.032883	0.11	1110.45	0	0	0.003187	0	0	0.174952	0	0	0.068626	0	0	0	0	0	0.078125	0	0	0	0	0	0.22	0.078519	0	0	0.010522	0	0
Santa Clara	2027	UBUS	Aggregate	Aggregate	Electricity	29.37609	3075.292	0	3075.292	117.5043	5360.985	0	0	0	0	0	0	0.008954	0.01925	0	0	0	0.035816	0.055	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2027	UBUS	Aggregate	Aggregate	Natural Ga	63.05154	7280.138	7280.138	0	252.2062	0	0.060784	0	0	0.000288	0	0	0.008445	0.0385	0.000301	0	0	0.03378	0.11	1320.896	0	0	4.332417	0	0	0.269273	0	0	0.061902	0	0	0	0	0	0	0.442149	0	0	0	0	0	0	0	0	0	0	0

P4 (O3+O4+O5+P1+P2) - CalEEMod Construction Inputs

Phase	CalEEMod WORKER TRIPS	CalEEMod VENDOR TRIPS	Total Worker Trips	Total Vendor Trips	CalEEMod HAULING TRIPS	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class	*Worker VMT*	*Vendor VMT*	*Hauling VMT*
Demolition	35	0	8190	0	2,626	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	88452	0	52520
Site Preparation	8	1	432	54	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	4665.6	394.2	0
Grading	73	0	6278	0	14,083	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	67802.4	0	281660
Trenching/Foundation	40	0	30640	0	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	330912	0	0
Building Construction	397	182	444640	203840	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	4802112	1488032	0
Paving	18	0	3690	0	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	39852	0	0
Architectural Coating	79	0	16195	0	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	174906	0	0

Number of Days Per Year					
2026	4/1/26	12/31/26	275	236	
2027	1/1/27	12/31/27	365	313	
2028	1/1/28	12/31/28	366	314	
2029	1/1/29	12/31/29	365	313	
2030	1/1/30	12/31/30	365	313	
2031	1/1/31	4/19/31	109	93	
			1845	**1582**	***Total Workdays***

Phase	Start Date	End Date	Days/Week	Workdays
Demolition	4/1/2026	12/29/2026	6	234
Site Preparation	5/22/2026	7/23/2026	6	54
Grading	6/5/2026	9/12/2026	6	86
Trenching/Foundation	7/26/2026	1/4/2029	6	766
Building Construction	9/22/2027	4/19/2031	6	1,120
Paving	12/11/2027	8/5/2028	6	205
Architectural Coating	1/24/2028	9/18/2028	6	205

Summary of Construction Traffic Emissions (EMFAC2021)

CATEGORY	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	NBio- CO2	CH4	N2O	CO2e
						Grams								
Hauling	11116.11	681839.66	331112.08	4810.78	99919.82	47273.06	147192.88	15034.76	20412.91	35447.67	##########	41124.72	85110.18	#########
Vendor	80212.79	2858631.15	1425503.16	19759.89	445039.43	155219.94	600259.38	66964.29	66564.68	133528.97	##########	115461.31	315188.83	#########
Worker	568946.98	436265.56	5903714.42	15520.16	1647101.90	96626.38	1743728.28	247836.50	34006.68	281843.19	##########	50358.03	44610.25	#########
Total (g)	660275.87	3976736.38	7660329.66	40090.84	2192061.15	299119.39	2491180.54	329835.56	120984.27	450819.83	##########	206944.05	444909.26	#########
Total (lbs)	1455.66	8767.20	16888.14	88.39	4832.67	659.45	5492.11	727.16	266.72	993.89	9366469.11	456.23	980.86	#########
Total (tons)	0.73	4.38	8.44	0.04	2.42	0.33	2.75	0.36	0.13	0.50	4683.23	0.23	0.49	4835.09
Total (MT)											4248.56	0.21	0.44	4386.32

YEAR														
							Tons							
2026	0.1085	0.6534	1.2586	0.0066	0.3602	0.0491	0.4093	0.0542	0.0199	0.0741	633.2540	0.0308	0.0663	653.7869
2027	0.1440	0.8672	1.6705	0.0087	0.4780	0.0652	0.5433	0.0719	0.0264	0.0983	840.5008	0.0409	0.0880	867.7535
2028	0.1444	0.8696	1.6751	0.0088	0.4793	0.0654	0.5447	0.0721	0.0265	0.0986	842.8036	0.0411	0.0883	870.1309
2029	0.1440	0.8672	1.6705	0.0087	0.4780	0.0652	0.5433	0.0719	0.0264	0.0983	840.5008	0.0409	0.0880	867.7535
2030	0.1440	0.8672	1.6705	0.0087	0.4780	0.0652	0.5433	0.0719	0.0264	0.0983	840.5008	0.0409	0.0880	867.7535
2031	0.0430	0.2590	0.4989	0.0026	0.1428	0.0195	0.1622	0.0215	0.0079	0.0294	250.9989	0.0122	0.0263	259.1373

Category		Mix %	Adj	ROG_DIURN	ROG_HTSK	ROG_IDLEX	ROG_RESTL	ROG_RUNEX	ROG_RUNLS	ROG_STREX	NOX_IDLEX	NOX_RUNEX	NOX_STREX	CO_IDLEX	CO_RUNEX	CO_STREX	SO2_IDLEX	SO2_RUNEX	SO2_STREX	Road Dust PM10	PM10_PM BW	PM10_PM TW	PM10_IDLEX	PM10_RUNEX	PM10_STREX	Road Dust PM25	PM25_PM BW	PM25_PM TW	PM25_IDLEX	PM25_RUNEX	PM25_STREX	CO2_NBIO_IDLEX	CO2_NBIO_RUNEX	CO2_NBIO_STREX	CH4_IDLEX	CH4_RUNEX	CH4_STREX	N2O_IDLEX	N2O_RUNEX	N2O_STREX
																														19	22	23	8	9	10						
Hauling	HHDT	100.0	1	0.000106002	3.36143E-05	0.32445582	0	0.01701891	0.00030273	4.06848E-07	4.013652	1.701647234	2.760133946	5.153655	0.73309991	0.000738	0.00692351	0.014049606	1.33736E-07		0.081458	0.035132	0.002013	0.024769	3.29375E-07		0.02851	0.008783	0.001919	0.0236943	3.028E-07	795.66994	1554.9734	0.0135278	0.224309	0.111846137	7.49827E-08	0.128346	0.248265947	8.0417E-06
	MHD	0.0	0	0.021312827	0.005105771	0.024261021	0	0.02766184	0.04201809	0.043042965	0.837392	0.906228922	1.39169173	0.664762	0.2571492	0.934813	0.00145189	0.011343734	7.82441E-05	0.299	0.045088	0.012	0.001445	0.009635	9.6335E-05	0.04499	0.015781	0.003	0.001382	0.0092102	8.858E-05	156.6958	1196.5286	7.914622	0.014329	0.009524548	0.007918504	0.024186	0.153578352	0.005689167
Vendor	HHDT	50.0	0.5	5.30008E-05	1.68071E-05	0.16222791	0	0.00850945	0.00015136	2.03424E-07	2.006826	0.850823617	1.380066973	2.576828	0.36654996	0.000369	0.00346176	0.007024803	6.6868E-08		0.040729	0.017566	0.001006	0.012385	1.64687E-07		0.014255	0.004391	0.00096	0.0118471	1.514E-07	397.83497	777.4867	0.0067639	0.112154	0.055923068	3.74914E-08	0.064173	0.124132973	4.02085E-06
	MHD	50.0	0.5	0.010656414	0.002552885	0.01213051	0	0.01383092	0.02100905	0.021521482	0.418696	0.453114461	0.69584586	0.332381	0.1285746	0.467407	0.00072595	0.005671867	3.9122E-05		0.022544	0.006	0.000723	0.004818	4.81675E-05		0.00789	0.0015	0.000691	0.0046051	4.429E-05	78.3479	598.26431	3.957311	0.007164	0.004762274	0.003959252	0.012093	0.076789176	0.002844583
			1	0.010709414	0.002569693	0.17435842	0	0.02234037	0.02116041	0.021521686	2.425522	1.303938078	2.075912838	2.909209	0.49512456	0.467775	0.0041877	0.01269667	3.91889E-05	0.299	0.063273	0.023566	0.001729	0.017202	4.83322E-05	0.04499	0.022146	0.005891	0.001651	0.0164522	4.444E-05	476.18287	1375.751	3.9640749	0.119319	0.060685342	0.003959289	0.076266	0.200922149	0.002848604
Worker	LDA	50.0	0.5	0.127252154	0.036844958	0	0	0.00310372	0.09549445	0.127128959	0	0.015187697	0.103974769	0	0.2865276	1.277031	0	0.001162034	0.000300399		0.003561	0.004	0	0.000536	0.000895416		0.001246	0.001	0	0.000493	0.0008233	0	117.55101	30.386258	0	0.000837586	0.028479341	0	0.001839043	0.013991495
	LDT1	25.0	0.25	0.132430724	0.036894584	0	0	0.00546911	0.10347702	0.114577624	0	0.025800958	0.084390428	0	0.30194857	1.128878	0	0.000782025	0.000204392		0.002303	0.002	0	0.000427	0.000653661		0.000806	0.0005	0	0.0003926	0.000601	0	79.104787	20.674857	0	0.00125256	0.022898387	0	0.001992702	0.009041201
	LDT2	25.0	0.25	0.069772888	0.018822709	0	0	0.00230806	0.05209969	0.083130872	0	0.014000924	0.073061014	0	0.18549243	0.809666	0	0.000807532	0.000205841		0.002214	0.002	0	0.000311	0.000500467		0.000775	0.0005	0	0.000286	0.0004602	0	81.695643	20.821419	0	0.000600438	0.018292607	0	0.001336696	0.008608075
			1	0.329455766	0.09256225	0	0	0.01088088	0.25107116	0.324837454	0	0.054989579	0.261426211	0	0.7739686	3.215575	0	0.002751591	0.000710632	0.299	0.008078	0.008	0	0.001273	0.002049544	0.04499	0.002827	0.002	0	0.0011716	0.0018845	0	278.35144	71.882534	0	0.002690584	0.069670334	0	0.005168441	0.031640771

Adjustment Factors

Vehicle Category	Fuel	Population	Pop Fract	VMT (miles/day)	VMT Fract	Trips/day	Trip Fract
HHDT	GAS	1.89020752	1.35208E-05	133.7551311	0.0001234	37.81927211	0.000271
HHDT	DSL	8867.7948	0.063432193	1016011.772	0.9370067	130548.9889	0.93383
HHDT	ELEC	110.53021	0.000790633	11535.56622	0.0106386	1443.077984	0.010322
HHDT	NG	863.460788	0.006176418	56635.38916	0.0522314	7769.707198	0.055577
		9843.676		1084316.482		139799.5934	
LDA	GAS	598869.79	0.188087055	22031465.99	0.8579225	2780456.286	0.873258
LDA	DSL	1478.94439	0.000464492	42434.32107	0.0016524	6277.404518	0.001972
LDA	ELEC	64495.2374	0.020256021	2739705.459	0.1066863	312996.4352	0.098303
LDA	PIH	20380.4343	0.006400884	866414.1348	0.0337388	84273.09573	0.026468
		685224.406		25680019.9		3184003.221	
LDT1	GAS	50750.4663	0.2227592	1625960.476	0.9897832	225981.5443	0.991902
LDT1	DSL	18.4777091	8.11043E-05	256.5587046	0.0001562	50.46000376	0.000221
LDT1	ELEC	263.582249	0.001156942	10628.88084	0.0064702	1254.204016	0.005505
LDT1	PIH	130.681887	0.000573602	5898.081605	0.0035904	540.3696012	0.002372
		51163.2081		1642743.998		227826.578	
LDT2	GAS	296178.924	0.20930348	10561284.8	0.9761727	1383933.976	0.977997
LDT2	DSL	1079.58935	0.000762923	39200.14241	0.0036232	5104.360187	0.003607
LDT2	ELEC	2705.07863	0.001911623	90693.21971	0.0083827	13682.37248	0.009669
LDT2	PIH	2986.35294	0.002110393	127896.2709	0.0118214	12348.56941	0.008726
		302949.945		10819074.44		1415069.278	
LHDT1	GAS	19567.3461	0.045442701	734252.9018	0.6249776	291524.3015	0.677029
LHDT1	DSL	10635.3066	0.024699162	416619.2958	0.3546159	133778.7779	0.310684
LHDT1	ELEC	378.059313	0.000877995	23974.57119	0.0204066	5290.737608	0.012287
		30580.712	0.071019859	1174846.769		430593.817	
LHDT2	GAS	2513.65139	0.025065399	91174.02508	0.3142883	37449.6603	0.373437
LHDT2	DSL	4995.25765	0.049811253	193100.7206	0.6656423	62834.05723	0.626563
LHDT2	ELEC	96.3837305	0.00096111	5822.064359	0.0200694	1278.564611	0.012749
		7605.29277	0.075837763	290096.81		100283.7175	
MCY	GAS	28797.0402	0.022079204	167092.4818	1	57594.08046	1
MDV	GAS	162557.871	0.206502619	5631323.146	0.9567528	753924.3557	0.957735
MDV	DSL	2430.29858	0.003087288	84111.5401	0.0142904	11337.22426	0.014402
MDV	ELEC	2850.95624	0.003621664	95858.34981	0.0162862	14435.41314	0.018338
MDV	PIH	1813.35149	0.00230356	74577.72271	0.0126706	7498.208428	0.009525
		169652.477		5885870.759		787195.2015	
MH	GAS	2263.18626	6.910777091	21108.37627	0.6847412	226.409153	0.691354
MH	DSL	1010.77355	3.086458598	9718.417172	0.3152588	101.0773548	0.308646
		3273.9598		30826.79344		327.4865078	
MHDT	GAS	1410.72587	0.008877802	72468.64229	0.138924	28225.80314	0.177627
MHDT	DSL	10675.1143	0.067179283	435455.3677	0.8347775	127504.1973	0.802393
MHDT	ELEC	167.584141	0.001054619	8816.663208	0.0169017	2173.174133	0.013676
MHDT	NG	107.631411	0.000677332	4901.770989	0.0093968	1001.681745	0.006304
		12361.0558		521642.4442		158904.8563	
OBUS	GAS	419.199707	0.022896962	18162.11175	0.222027	8387.347733	0.458122
OBUS	DSL	949.045188	0.051837469	62674.48039	0.766179	9750.024999	0.532553
OBUS	ELEC	4.48415939	0.000244928	364.7881281	0.0044594	89.71906104	0.004901
OBUS	NG	9.10124392	0.000497116	599.9791039	0.0073346	81.00107088	0.004424
		1381.8303		81801.35938		18308.09286	
SBUS	GAS	183.793304	0.016745925	9054.55067	0.3599899	735.1732154	0.066984
SBUS	DSL	674.99811	0.061500976	15210.89393	0.6047531	9773.972631	0.890534
SBUS	ELEC	7.58722201	0.000691293	244.2394962	0.0097104	87.39442404	0.007963
SBUS	NG	26.1646758	0.002383937	642.552257	0.0255465	378.8645055	0.034519
		892.543311		25152.23635		10975.40478	
UBUS	GAS	46.3552203	0.021676301	4840.86478	0.0818022	185.4208811	0.086705
UBUS	DSL	396.770048	0.185534807	44084.04198	0.744944	1587.080193	0.742139
UBUS	ELEC	28.6595887	0.11400839	2995.55797	0.4127709	114.6383548	0.456034
UBUS	NG	62.8453498	0.029387298	7257.192256	0.122634	251.3813993	0.117549
		534.630207		59177.65698		2138.520829	

Source: EMFAC2021 (v1.0.1) Emission Rates
Region Type: County
Region: Santa Clara
Calendar Year: 2026
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN

Region	Calendar Y	Vehicle Cat	Model Yea	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	Energy Con	NOx_RUNEX	NOx_IDLEX	NOx_STREX	PM2.5_RU	PM2.5_IDL	PM2.5_STR	PM2.5_PM	PM2.5_PM	PM10_RUN	PM10_IDLE	PM10_STR	PM10_PM	PM10_PM	CO2_RUNEX	CO2_IDLEX	CO2_STREX	CH4_RUNEX	CH4_IDLEX	CH4_STREX	N2O_RUNEX	N2O_IDLEX	N2O_STREX	ROG_RUNI	ROG_IDLEX	ROG_STREX	ROG_HOTS	ROG_RUNI	ROG_DIUR	TOG_RUNEX	TOG_IDLEX	TOG_STREX	TOG_HOTS	TOG_RUNI	TOG_DIUR	NH3_RUNEX	CO_RUNEX	CO_IDLEX	CO_STREX	SOx_RUNE	SOx_IDLEX	SOx_STREX
Santa Clara	2026	HHDT	Aggregate	Aggregate	Gasoline	1.890208	133.7551	133.7551	0	37.81927	0	3.912832	0	0.833967	0.00242	0	0.001119	0.005	0.0327	0.002632	0	0.001218	0.02	0.093428	2030.337	0	50.00574	0.151681	0	0.000277	0.138602	0	0.029726	0.841165	0	0.001504	0.124256	1.119044	7.839877	1.227426	0	0.001647	0.124256	1.119044	7.839877	0.044272	33.21272	0	2.727013	0.020072	0	0.000494
Santa Clara	2026	HHDT	Aggregate	Aggregate	Diesel	8867.795	1016012	1016012	0	130549	0	1.761105	62.0312	2.955473	0.025195	0.027767	0	0.008774	0.027513	0.026334	0.029023	0	0.035095	0.07861	1583.151	11526.41	0	0.000725	0.23528	0	0.249426	1.815991	0	0.015602	5.065515	0	0	0	0	0	0.017762	5.766703	0	0	0	0	0	0.215914	0.07407	73.94194	0	0.014991	0.109148	0
Santa Clara	2026	HHDT	Aggregate	Aggregate	Electricity	110.5302	11535.57	0	11535.57	1443.078	21268.51	0	0	0	0	0	0	0.008558	0.014729	0	0	0	0.034232	0.042083	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2026	HHDT	Aggregate	Aggregate	Natural Ga	863.4608	56635.39	56635.39	0	7769.707	0	0.976371	12.77067	0	0.001645	0.025604	0	0.009	0.049192	0.001789	0.027847	0	0.036	0.140547	1365.074	10446.87	0	2.127999	33.90059	0	0.278279	2.129663	0	0.043949	0.508241	0	0	0	0	0	0.218721	34.62523	0	0	0	0	0	0.835034	12.62839	75.02016	0	0	0	0
Santa Clara	2026	LDA	Aggregate	Aggregate	Gasoline	598869.8	22031466	22031466	0	2780456	0	0.034968	0	0.23463	0.001102	0	0.001828	0.002	0.002655	0.001199	0	0.001988	0.008	0.007585	268.3766	0	67.64288	0.001934	0	0.063951	0.004196	0	0.031426	0.007138	0	0.285908	0.083161	0.217573	1.338275	0.019415	0	0.313033	0.083161	0.217573	1.338275	0.036474	0.653928	0	2.884139	0.002653	0	0.000669
Santa Clara	2026	LDA	Aggregate	Aggregate	Diesel	1478.944	42434.32	42434.32	0	6277.405	0	0.163286	0	0	0.013397	0	0	0.002	0.002717	0.014003	0	0	0.008	0.007761	228.026	0	0	0.001079	0	0	0.035926	0	0	0.023239	0	0	0.026457	0	0	0	0.026457	0	0	0	0	0	0.0031	0.307439	0	0	0.002161	0	0
Santa Clara	2026	LDA	Aggregate	Aggregate	Electricity	64495.24	2739705	0	2739705	312996.4	1057752	0	0	0	0	0	0	0.002	0.001535	0	0	0	0.008	0.004385	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2026	LDA	Aggregate	Aggregate	Plug-in Hyb	20380.43	866414.1	412496.8	453917.3	84273.1	137096.6	0.003124	0	0.11551	0.000542	0	0.001902	0.002	0.001386	0.000589	0	0.002068	0.008	0.00396	132.7519	0	64.33622	0.000421	0	0.042044	0.000552	0	0.020392	0.001351	0	0.173285	0.040391	0.037456	0.436203	0.019017	0.204877	0	0.189725	0.040391	0.037456	0.436203	0.019017	0.204877	0	1.339893	0.001312	0	0.000636
Santa Clara	2026	LDT1	Aggregate	Aggregate	Gasoline	50750.47	1625960	1625960	0	225981.5	0	0.104002	0	0.340042	0.001548	0	0.002421	0.002	0.003241	0.001684	0	0.002633	0.008	0.009261	319.1884	0	83.2086	0.001658	0	0.092241	0.008041	0	0.036412	0.022051	0	0.461638	0.148727	0.41724	2.377298	0.032177	0	0.505436	0.148727	0.41724	2.377298	0.036833	1.219346	0	4.549174	0.003156	0	0.000823
Santa Clara	2026	LDT1	Aggregate	Aggregate	Diesel	18.47771	256.5587	256.5587	0	50.46	0	1.626008	0	0	0.235786	0	0	0.002	0.003714	0.246448	0	0	0.008	0.010612	414.3219	0	0	0.013655	0	0	0.065277	0	0	0.293995	0	0	0	0	0	0	0.334693	0	0	0	0	0	0.0031	1.580267	0	0	0.003926	0	0
Santa Clara	2026	LDT1	Aggregate	Aggregate	Electricity	263.5822	10628.88	0	10628.88	1254.204	4103.625	0	0	0	0	0	0	0.002	0.001536	0	0	0	0.008	0.004388	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2026	LDT1	Aggregate	Aggregate	Plug-in Hyb	130.6819	5898.082	2516.052	3382.03	540.3696	1021.474	0.002799	0	0.11551	0.000332	0	0.001311	0.002	0.001397	0.000362	0	0.001426	0.008	0.003992	118.9473	0	69.43161	0.000375	0	0.041793	0.000489	0	0.020158	0.00121	0	0.173285	0.023415	0.020044	0.275174	0.001766	0	0.189725	0.023415	0.020044	0.275174	0.017917	0.183572	0	1.339893	0.001176	0	0.000686
Santa Clara	2026	LDT2	Aggregate	Aggregate	Gasoline	296178.9	10561285	10561285	0	1383934	0	0.057197	0	0.297788	0.00115	0	0.001868	0.002	0.003134	0.00125	0	0.002032	0.008	0.008953	332.1248	0	84.47809	0.002453	0	0.074444	0.005294	0	0.035027	0.009395	0	0.338458	0.076755	0.212879	1.330363	0.013709	0	0.370569	0.076755	0.212879	1.330363	0.037798	0.757265	0	3.299571	0.003283	0	0.000835
Santa Clara	2026	LDT2	Aggregate	Aggregate	Diesel	1079.589	39200.14	39200.14	0	5104.36	0	0.037108	0	0	0.004598	0	0	0.002	0.00313	0.004806	0	0	0.008	0.008943	302.0718	0	0	0.000595	0	0	0.047592	0	0	0.012807	0	0	0.01458	0	0	0	0.01458	0	0	0	0	0	0.0031	0.12935	0	0	0.002862	0	0
Santa Clara	2026	LDT2	Aggregate	Aggregate	Electricity	2705.079	90693.22	0	90693.22	13682.37	35015.07	0	0	0	0	0	0	0.002	0.001528	0	0	0	0.008	0.004365	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2026	LDT2	Aggregate	Aggregate	Plug-in Hyb	2986.353	127896.3	57308.29	70587.98	12348.57	21319.68	0.00294	0	0.11551	0.000411	0	0.00154	0.002	0.001392	0.000447	0	0.001675	0.008	0.003978	124.9411	0	76.35739	0.000394	0	0.041776	0.000513	0	0.020142	0.001271	0	0.173285	0.025698	0.023308	0.30414	0.001855	0	0.189725	0.025698	0.023308	0.30414	0.018799	0.192822	0	1.339893	0.001235	0	0.000755
Santa Clara	2026	LHDT1	Aggregate	Aggregate	Gasoline	19567.35	734252.9	734252.9	0	291524.3	0	0.134825	0.034078	0.592259	0.00144	0	0.000258	0.002	0.0273	0.001567	0	0.00028	0.008	0.078	841.5517	116.9335	25.61185	0.00645	0.107779	0.030306	0.00767	0.002904	0.048837	0.03157	0.390607	0.14863	0.042429	0.244239	2.568634	0.046067	0.569973	0.162731	0.042429	0.244239	2.568634	0.044952	1.000325	3.761042	3.194844	0.00832	0.001156	0.000253
Santa Clara	2026	LHDT1	Aggregate	Aggregate	Diesel	10635.31	416619.3	416619.3	0	133778.8	0	1.219281	1.732484	0	0.030022	0.026603	0	0.003	0.0273	0.031379	0.027806	0	0.012	0.078	625.228	128.0664	0	0.006994	0.005098	0	0.098505	0.020177	0	0.150578	0.10976	0	0	0	0	0	0.171423	0.124954	0	0	0	0	0.184377	0.40172	0.909745	0	0.005924	0.001213	0
Santa Clara	2026	LHDT1	Aggregate	Aggregate	Electricity	378.0593	23974.57	0	23974.57	5290.738	15701.21	0	0	0	0	0	0	0.002	0.01365	0	0	0	0.008	0.039	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2026	LHDT2	Aggregate	Aggregate	Gasoline	2513.651	91174.03	91174.03	0	37449.66	0	0.127191	0.033359	0.581518	0.001301	0	0.0002	0.002	0.03185	0.001415	0	0.000218	0.008	0.091	950.6797	135.3583	25.11699	0.00457	0.105616	0.029314	0.007823	0.002803	0.047205	0.020413	0.382638	0.142338	0.039798	0.221425	2.401547	0.029786	0.558345	0.155842	0.039798	0.221425	2.401547	0.04499	0.781956	3.768092	3.147796	0.009398	0.001338	0.000248
Santa Clara	2026	LHDT2	Aggregate	Aggregate	Diesel	4995.258	193100.7	193100.7	0	62834.06	0	1.030069	1.717944	0	0.028773	0.027014	0	0.003	0.03185	0.030074	0.028235	0	0.012	0.091	744.6842	205.1133	0	0.00672	0.005098	0	0.117325	0.032316	0	0.146681	0.10976	0	0	0	0	0	0.16471	0.124954	0	0	0	0	0.19232	0.367309	0.909745	0	0.007056	0.001944	0
Santa Clara	2026	LHDT2	Aggregate	Aggregate	Electricity	96.38373	5822.064	0	5822.064	1278.565	3755.595	0	0	0	0	0	0	0.002	0.015925	0	0	0	0.008	0.0455	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2026	MCY	Aggregate	Aggregate	Gasoline	28797.04	167092.5	167092.5	0	57594.08	0	0.54585	0	0.123182	0.001818	0	0.003256	0.001	0.0042	0.001945	0	0.00347	0.004	0.012	186.8446	0	46.30646	0.154451	0	0.172746	0.038475	0	0.007381	0.991178	0	1.267526	3.558543	3.769688	3.854231	1.200425	0	1.378329	3.558543	3.769688	3.854231	0.008889	11.99329	0	7.931677	0.001847	0	0.000458
Santa Clara	2026	MDV	Aggregate	Aggregate	Gasoline	162557.9	5631323	5631323	0	753924.4	0	0.077249	0	0.361249	0.00113	0	0.001888	0.002	0.003182	0.001228	0	0.002053	0.008	0.00909	402.7076	0	102.7358	0.003084	0	0.087398	0.006351	0	0.037495	0.012544	0	0.424623	0.087977	0.255029	1.559913	0.018304	0	0.464909	0.087977	0.255029	1.559913	0.037518	0.838043	0	3.531694	0.003981	0	0.001016
Santa Clara	2026	MDV	Aggregate	Aggregate	Diesel	2430.299	84111.54	84111.54	0	11337.22	0	0.040802	0	0	0.004381	0	0	0.002	0.003241	0.004579	0	0	0.008	0.009261	399.673	0	0	0.000469	0	0	0.062969	0	0	0.010103	0	0	0.011502	0	0	0	0.011502	0	0	0	0	0	0.0031	0.197458	0	0	0.003787	0	0
Santa Clara	2026	MDV	Aggregate	Aggregate	Electricity	2850.956	95858.35	0	95858.35	14435.41	37009.23	0	0	0	0	0	0	0.002	0.001528	0	0	0	0.008	0.004365	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2026	MDV	Aggregate	Aggregate	Plug-in Hyb	1813.351	74577.72	33714.26	40863.46	7498.208	12341.98	0.002966	0	0.11551	0.000463	0	0.001713	0.002	0.001392	0.000504	0	0.001863	0.008	0.003977	126.0521	0	93.79299	0.000396	0	0.041612	0.000513	0	0.019989	0.001283	0	0.173285	0.029908	0.026996	0.337381	0.001872	0	0.189725	0.029908	0.026996	0.337381	0.018987	0.194537	0	1.339893	0.001246	0	0.000927
Santa Clara	2026	MH	Aggregate	Aggregate	Gasoline	2263.186	21108.38	21108.38	0	226.4092	0	0.335195	0	0.432131	0.001549	0	0.000374	0.003	0.015756	0.001685	0	0.000406	0.012	0.045017	1946.632	0	31.26805	0.012049	0	0.036404	0.022132	0	0.046519	0.050974	0	0.149854	10.64717	0.254614	4.131655	0.074381	0	0.164071	10.64717	0.254614	4.131655	0.044921	1.181993	0	3.275797	0.019244	0	0.000309
Santa Clara	2026	MH	Aggregate	Aggregate	Diesel	1010.774	9718.417	9718.417	0	101.0774	0	3.846579	0	0	0.08072	0	0	0.004	0.015675	0.084369	0	0	0.016	0.044785	1082.849	0	0	0.005293	0	0	0.170603	0	0	0.11395	0	0	0	0	0	0	0.129725	0	0	0	0	0	0.16529	0.373655	0	0	0.010261	0	0
Santa Clara	2026	MHDT	Aggregate	Aggregate	Gasoline	1410.726	72468.64	72468.64	0	28225.8	0	0.333028	0.083566	0.407845	0.001339	0	0.000499	0.003	0.015756	0.001457	0	0.000542	0.012	0.045017	1727.179	521.8124	44.55752	0.010627	0.263675	0.044579	0.017598	0.007127	0.032029	0.051634	1.01721	0.242322	0.028744	0.236552	2.400687	0.073545	1.48431	0.265312	0.028744	0.236552	2.400687	0.044997	1.050142	15.1686	5.262786	0.017075	0.005159	0.00044
Santa Clara	2026	MHDT	Aggregate	Aggregate	Diesel	1067.5.11	4354555.4	435455.4	0	127504.2	0	1.02886	12.38939	1.644141	0.010796	0.020382	0	0.003	0.015941	0.011284	0.021304	0	0.012	0.045545	1134.952	2210.329	0	0.001134	0.010419	0	0.178812	0.348238	0	0.024422	0.224312	0	0	0	0	0	0.027803	0.255363	0	0	0	0	0.213113	0.099563	7.520816	0	0.010747	0.02093	0
Santa Clara	2026	MHDT	Aggregate	Aggregate	Electricity	167.5841	8816.663	0	8816.663	2173.174	9651.078	0	0	0	0	0	0	0.003	0.007951	0	0	0	0.012	0.022716	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2026	MHDT	Aggregate	Aggregate	Natural Ga	107.6314	4901.771	4901.771	0	1001.682	0	0.116472	6.407029	0	0.001266	0.018977	0	0.003	0.01601	0.001377	0.020639	0	0.012	0.045743	973.703	5277.958	0	0.755705	16.66564	0	0.198496	1.075946	0	0.010798	0.238119	0	0	0	0	0	0.771252	17.00851	0	0	0	0	1.06	2.995274	36.69576	0	0	0	0
Santa Clara	2026	OBUS	Aggregate	Aggregate	Gasoline	419.1997	18162.11	18162.11	0	8387.348	0	0.418185	0.062602	0.399155	0.00097	0	0.000258	0.003	0.01568	0.001055	0	0.000281	0.012	0.044799	1724.911	374.6239	31.08783	0.011431	0.195819	0.035179	0.020728	0.005108	0.030453	0.055331	0.746751	0.186435	0.035194	0.177337	3.200029	0.080739	1.089657	0.204123	0.035194	0.177337	3.200029	0.04499	1.215872	5.777453	3.882011	0.017053	0.003704	0.000307
Santa Clara	2026	OBUS	Aggregate	Aggregate	Diesel	949.0452	62674.48	62674.48	0	9750.025	0	1.092349	6.912226	1.518478	0.018173	0.007147	0	0.003	0.018049	0.018995	0.00747	0	0.012	0.05157	1245.043	1523.794	0	0.001766	0.020826	0	0.196157	0.240074	0	0.038011	0.448385	0	0	0	0	0	0.043273	0.510453	0	0	0	0	0.216379	0.139488	7.649271	0	0.01179	0.014429	0
Santa Clara	2026	OBUS	Aggregate	Aggregate	Electricity	4.484159	364.7881	0	364.7881	89.71906	404.1294	0	0	0	0	0	0	0.003	0.00784	0	0	0	0.012	0.022399	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2026	OBUS	Aggregate	Aggregate	Natural Ga	9.101244	599.9791	599.9791	0	81.00107	0	0.145347	1.518344	0	0.001276	0.004354	0	0.003	0.016148	0.001388	0.004735	0	0.012	0.046137	975.0003	1187.914	0	0.81456	4.001439	0	0.19876	0.242164	0	0.011638	0.057173	0	0	0	0	0	0.831318	4.083762	0	0	0	0	1.06	3.321042	8.378673	0	0	0	0
Santa Clara	2026	SBUS	Aggregate	Aggregate	Gasoline	183.7933	9054.551	9054.551	0	735.1732	0	0.474165	0.887577	0.73371	0.000873	0	0.00058	0.002	0.015721	0.00095	0	0.000631	0.008	0.044917	802.4349	2565.528	57.27504	0.01005	2.4667	0.074539	0.025921	0.082658	0.067212	0.048718	10.63718	0.423572	0.1241	0.322638	1.96833	0.07109	15.52175	0.463758	0.1241	0.322638	1.96833	0.045	1.246814	82.21455	10.07789	0.007933	0.025363	0.000566
Santa Clara	2026	SBUS	Aggregate	Aggregate	Diesel	674.9981	15210.89	15210.89	0	9773.973	0	3.406071	20.83077	0.509343	0.017715	0.016839	0	0.003	0.015721	0.018516	0.017601	0	0.012	0.044917	1135.538	2209.663	0	0.002498	0.007888	0	0.178905	0.348133	0	0.053781	0.169828	0	0	0	0	0	0.061225	0.193336	0	0	0	0	0.155771	0.169257	4.880858	0	0.010753	0.020924	0
Santa Clara	2026	SBUS	Aggregate	Aggregate	Electricity	7.587222	244.2395	0	244.2395	87.39442	257.2955	0	0	0	0	0	0	0.002	0.00786	0	0	0	0.01027	0.022459	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2026	SBUS	Aggregate	Aggregate	Natural Ga	26.16468	642.5523	642.5523	0	378.8645	0	0.532059	5.249897	0	0.003378	0.011858	0	0.003	0.015721	0.003674	0.012897	0	0.012	0.044917	1243.421	4080.833	0	3.338467	14.99739	0	0.25348	0.831904	0	0.0477	0.214283	0	0	0	0	0	3.407151	15.30593	0	0	0	0	1.06	11.18687	21.87624	0	0	0	0
Santa Clara	2026	UBUS	Aggregate	Aggregate	Gasoline	46.35522	4840.865	4840.865	0	185.4209	0	0.026897	0	0.439741	0.001143	0	0.000128	0.002	0.03185	0.001243	0	0.00014	0.008	0.091	925.6516	0	36.30949	0.001945	0	0.042807	0.004209	0	0.069602	0.005374	0	0.151507	0.043604	0.092107	0.471119	0.007841	0	0.165881	0.043604	0.092107	0.471119	0.045	0.590355	0	5.738214	0.009151	0	0.000359
Santa Clara	2026	UBUS	Aggregate	Aggregate	Diesel	396.77	44084.04	44084.04	0	1587.08	0	0.382074	0	0	0.006946	0	0	0.002	0.008221	0.0385	0.00726	0	0.032883	0.11	1310.339	0	0	0.003187	0	0	0.174934	0	0	0.068625	0	0	0.078125	0	0	0	0.078518	0	0	0	0	0	0.22	0.078518	0	0	0.010521	0	0
Santa Clara	2026	UBUS	Aggregate	Aggregate	Electricity	28.65959	2995.558	0	2995.558	114.6384	5221.989	0	0	0	0	0	0	0.008972	0.01925	0	0	0	0.035887	0.055	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2026	UBUS	Aggregate	Aggregate	Natural Ga	62.84535	7257.192	7257.192	0	251.3814	0	0.060787	0	0	0.000288	0	0	0.008445	0.0385	0.000301	0	0	0.033781	0.11	1320.935	0	0	4.332576	0	0	0.269281	0	0	0.061904	0	0	0	0	0	0	0.421712	0	0	0	0	0	0.97	50.5588	0	0	0	0	0

P4 Infra - CalEEMod Construction Inputs

Phase	CalEEMod WORKER TRIPS	CalEEMod VENDOR TRIPS	Total Worker Trips	Total Vendor Trips	CalEEMod HAULING TRIPS	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class	*Worker VMT*	*Vendor VMT*	*Hauling VMT*
Infrastructure	25	1	1700	68	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	18360	496.4	0

Number of Days Per Year					
2028	3/1/28	5/18/28	79	69	
			79	**69**	***Total Workdays***

Phase	Start Date	End Date	Days/Week	Workdays
Infrastructure	3/1/2028	5/18/2028	6	68

Summary of Construction Traffic Emissions (EMFAC2021)

CATEGORY	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	NBio- CO2	CH4	N2O	CO2e
						Grams								
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
Vendor	23.74	867.03	441.66	6.29	148.42	50.96	199.38	22.33	21.44	43.77	683350.14	35.20	100.29	714115.12
Worker	1725.41	1242.25	17542.74	49.84	5489.64	318.57	5808.21	826.02	110.36	936.38	5041359.34	146.75	135.63	#########
Total (g)	1749.15	2109.28	17984.40	56.12	5638.06	369.53	6007.59	848.35	131.80	980.15	5724709.48	181.95	235.92	#########
Total (lbs)	3.86	4.65	39.65	0.12	12.43	0.81	13.24	1.87	0.29	2.16	12620.82	0.40	0.52	12785.84
Total (tons)	0.00	0.00	0.02	0.00	0.01	0.00	0.01	0.00	0.00	0.00	6.31	0.00	0.00	6.39
Total (MT)											5.72	0.00	0.00	5.80

YEAR														
							Tons							
2028	0.0019	0.0023	0.0198	0.0001	0.0062	0.0004	0.0066	0.0009	0.0001	0.0011	5.7247	0.0002	0.0002	5.7996

		Mix %	Adj	ROG_DIURN	ROG_HTSK	ROG_IDLEX	ROG_RESTL	ROG_RUNEX	ROG_RUNLS	ROG_STREX	NOX_IDLEX	NOX_RUNEX	NOX_STREX	CO_IDLEX	CO_RUNEX	CO_STREX	SO2_IDLEX	SO2_RUNEX	SO2_STREX	Road Dust PM10	PM10_PM BW	PM10_PM TW	PM10_IDLEX	PM10_RUNEX	PM10_STREX	Road Dust PM25	PM25_PM BW	PM25_PM TW	PM25_IDLEX	PM25_RUNEX	PM25_STREX	CO2_NBIO_IDLEX	CO2_NBIO_RUNEX	CO2_NBIO_STREX	CH4_IDLEX	CH4_RUNEX	CH4_STREX	N2O_IDLEX	N2O_RUNEX	N2O_STREX
Category																														19	22	23	8	9	10						
Hauling	HHDT	100.0	1	5.52258E-05	1.75002E-05	0.318402382	0	0.01554384	0.00015738	3.26616E-07	3.9142972	1.566149473	2.706913868	5.089184	0.68226811	0.000818	0.00656794	0.013349969	9.81351E-08		0.081989	0.035139	0.001864	0.024127	1.63816E-07		0.028696	0.008785	0.001776	0.0230796	1.506E-07	757.81994	1479.563	0.0099267	0.212116	0.100129934	6.02384E-08	0.122369	0.236311345	5.68332E-06
	MHD	0.0	0	0.018086411	0.004224003	0.022533624	0	0.0202507	0.03518802	0.0383006	0.7840844	0.730760143	1.328267001	0.652204	0.19813093	0.820911	0.00139723	0.010874145	7.2771E-05	0.299	0.044461	0.012	0.000973	0.007191	8.91358E-05	0.04499	0.015561	0.003	0.00093	0.0068725	8.196E-05	151.31368	1148.1122	7.3609993	0.015111	0.009557601	0.007217541	0.023392	0.147052559	0.005251572
Vendor	HHDT	50.0	0.5	2.76129E-05	8.75012E-06	0.159201191	0	0.00777192	7.869E-05	1.63308E-07	1.9571486	0.783074736	1.353456934	2.544592	0.34113406	0.000409	0.00328397	0.006674984	4.90675E-08		0.040995	0.017569	0.000932	0.012063	8.19079E-08		0.014348	0.004392	0.000888	0.0115398	7.531E-08	378.90997	739.7815	0.0049633	0.106058	0.050064967	3.01192E-08	0.061184	0.118155672	2.84166E-06
	MHD	50.0	0.5	0.009043205	0.002112001	0.011266812	0	0.01012535	0.01759401	0.0191503	0.3920422	0.365380071	0.664133501	0.326102	0.09906547	0.410456	0.00068861	0.005437072	3.63855E-05		0.022231	0.006	0.000487	0.003596	4.45679E-05		0.007781	0.0015	0.000465	0.0034362	4.098E-05	75.656838	574.05611	3.6804996	0.007556	0.0047788	0.00360877	0.011696	0.07352628	0.002625786
			1	0.009070818	0.002120752	0.170468003	0	0.01789727	0.0176727	0.019150463	2.3491908	1.148454808	2.017590434	2.870694	0.44019952	0.410865	0.00398259	0.012112057	3.64346E-05	0.299	0.063225	0.023569	0.001418	0.015659	4.46498E-05	0.04499	0.022129	0.005892	0.001353	0.014976	4.105E-05	454.56681	1313.8376	3.685463	0.113613	0.054843767	0.0036088	0.07288	0.191681952	0.002628628
Worker	LDA	50.0	0.5	0.121405719	0.033686063		0	0.00255245	0.09132453	0.111329065	0	0.013011461	0.095680357	0	0.26055635	1.147115	0	0.001117153	0.000287519		0.003549	0.004	0	0.000477	0.000821871		0.001242	0.001	0	0.0004392	0.0007557	0	113.00952	29.08341	0	0.000712537	0.025390033	0	0.001686502	0.013263803
	LDT1	25.0	0.25	0.125607034	0.033524532		0	0.00433508	0.09650276	0.098324934	0	0.020776268	0.075692594	0	0.25921794	0.980939	0	0.000756073	0.000196114		0.002295	0.002	0	0.000366	0.000584797		0.000803	0.0005	0	0.0003368	0.0005377	0	76.479161	19.83747	0	0.001012977	0.020099971	0	0.001707138	0.008541119
	LDT2	25.0	0.25	0.066574332	0.01739701		0	0.00196624	0.04978744	0.073865077	0	0.011850272	0.066470894	0	0.17038364	0.737497	0	0.000778068	0.000197586		0.002212	0.002	0	0.000279	0.000459093		0.000774	0.0005	0	0.0002566	0.0004221	0	78.714852	19.986453	0	0.000524764	0.016532732	0	0.001215363	0.008201125
			1	0.313587085	0.084607606		0	0.00885377	0.23761472	0.283519076	0	0.045638001	0.237843844	0	0.69015792	2.865551	0	0.002651294	0.000681219	0.299	0.008056	0.008	0	0.001123	0.001865761	0.04499	0.00282	0.002	0	0.0010327	0.0017155	0	268.20353	68.907334	0	0.002250277	0.062022736	0	0.004609004	0.030006047

Adjustment Factors

Vehicle Category	Fuel	Population	Pop Fract	VMT (miles/day)	VMT Fract	Trips/day	Trip Fract
HHDT	GAS	1.47083478	1.00695E-05	154.3030105	0.000139	29.42846227	0.000201
HHDT	DSL	9119.07892	0.062430493	1024317.446	0.9224592	134474.3376	0.92063
HHDT	ELEC	270.954005	0.001854989	28275.15131	0.0254635	3483.700255	0.02385
HHDT	NG	909.88698	0.006229214	57673.44076	0.0519384	8080.239508	0.055318
		10301.3907		1110420.341		146067.7059	
LDA	GAS	600154.656	0.186257289	21978504.63	0.8513095	2786673.046	0.864841
LDA	DSL	1207.84831	0.000374854	34499.51948	0.0013363	5156.172328	0.0016
LDA	ELEC	69984.6371	0.021719649	2868125.206	0.1110932	336272.3496	0.104362
LDA	PIH	22751.9262	0.007061033	936162.085	0.036261	94079.21473	0.029197
		694099.068		25817291.44		3222180.783	
LDT1	GAS	49081.0099	0.222026803	1563538.266	0.9851178	218519.1405	0.988511
LDT1	DSL	3.3764189	1.52738E-05	51.57305301	3.249E-05	9.619959751	4.35E-05
LDT1	ELEC	344.716748	0.001559388	14328.80602	0.009028	1657.810379	0.007499
LDT1	PIH	210.972342	0.000954371	9240.009417	0.0058217	872.3706358	0.003946
		49640.0754		1587158.654		221058.9414	
LDT2	GAS	306289.622	0.208431557	10804407.3	0.9704242	1428230.323	0.971918
LDT2	DSL	1124.63424	0.000765319	40163.41313	0.0036074	5296.189892	0.003604
LDT2	ELEC	3966.16594	0.002698995	128586.5393	0.0115493	19886.52116	0.013533
LDT2	PIH	3889.79971	0.002647027	160537.4754	0.0144191	16084.32179	0.010945
		315270.222		11133694.73		1469497.356	
LHDT1	GAS	19758.1764	0.04416775	736964.0424	0.6019816	294367.389	0.658034
LHDT1	DSL	11024.6905	0.024644773	426298.0601	0.3482173	138676.7372	0.31
LHDT1	ELEC	1021.23389	0.002282883	60968.04446	0.0498011	14299.84153	0.031966
		31804.1008	0.071095406	1224230.147		447343.9677	
LHDT2	GAS	2498.39068	0.024172457	89760.81805	0.2961146	37222.29854	0.360134
LHDT2	DSL	5257.64994	0.050868872	198606.7634	0.6551897	66134.62211	0.639866
LHDT2	ELEC	258.907678	0.002504986	14761.07055	0.0486957	3434.170837	0.033226
		8014.9483	0.077546315	303128.652		103356.9206	
MCY	GAS	29377.6579	0.022009355	168474.0032	1	58755.31584	1
MDV	GAS	168553.508	0.204794072	5803821.565	0.9493799	781481.4355	0.949507
MDV	DSL	2426.78477	0.002948566	81862.86931	0.013391	11233.79404	0.013649
MDV	ELEC	4086.68444	0.004965359	132418.1639	0.0216608	20489.54692	0.024895
MDV	PIH	2378.28799	0.002889642	95173.33521	0.0155683	9834.220847	0.011949
		177445.265		6113275.934		823038.9973	
MH	GAS	2135.932	6.727432719	20452.38386	0.6736353	213.6786372	0.673012
MH	DSL	1038.17217	3.269876308	9908.829938	0.3263647	103.8172172	0.326988
		3174.10417		30361.2138		317.4958545	
MHDT	GAS	1401.23397	0.008532925	72189.24736	0.1356928	28035.8892	0.170727
MHDT	DSL	10803.0783	0.065786202	430729.4798	0.8096342	129114.2453	0.786251
MHDT	ELEC	455.754173	0.002775351	23641.623	0.0444387	5888.878929	0.035861
MHDT	NG	123.907996	0.000754548	5444.709533	0.0102343	1175.943642	0.007161
		12783.9744		532005.0597		164214.9571	
OBUS	GAS	397.114471	0.021387874	16622.09352	0.2036011	7945.466334	0.427929
OBUS	DSL	1000.42102	0.053880885	63426.65321	0.776902	10301.54556	0.554823
OBUS	ELEC	11.1861302	0.000602465	887.4727094	0.0108705	223.8120932	0.012054
OBUS	NG	10.8367987	0.000583651	704.2664166	0.0086264	96.44750857	0.005194
		1419.55842		81640.48586		18567.2715	
SBUS	GAS	192.609486	0.017296637	9426.490292	0.3669994	770.4379438	0.069187
SBUS	DSL	672.407102	0.060383222	14961.93086	0.5825094	9736.454837	0.874349
SBUS	ELEC	19.5694243	0.001757365	629.4361187	0.0245057	226.2445637	0.020317
SBUS	NG	27.798612	0.002496359	667.4476259	0.0259856	402.5239015	0.036147
		912.384624		25685.3049		11135.66125	
UBUS	GAS	46.6273084	0.021676301	4869.278876	0.0818022	186.5092335	0.086705
UBUS	DSL	397.790659	0.184926606	44197.61875	0.742505	1591.162635	0.739706
UBUS	ELEC	30.092586	0.118928481	3155.026467	0.4320129	120.3703441	0.475714
UBUS	NG	63.2577367	0.029407525	7303.083978	0.1226893	253.0309468	0.11763
		537.76829		59525.00807		2151.07316	

Source: EMFAC2021 (v1.0.1) Emission Rates
Region Type: County
Region: Santa Clara
Calendar Year: 2028
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN

Region	Calendar Y	Vehicle Cat	Model Yea	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	Energy Con	NOx_RUNEX	NOx_IDLEX	NOx_STREX	PM2.5_RU	PM2.5_IDL	PM2.5_STR	PM2.5_DM	PM2.5_PM	PM10_RUN	PM10_IDLE	PM10_STR	PM10_DM	PM10_PMI	CO2_RUNE	CO2_IDLEX	CO2_STREX	CH4_RUNE	CH4_IDLEX	CH4_STREX	N2O_RUNE	N2O_IDLEX	N2O_STRE	ROG_RUNI	ROG_IDLEX	ROG_STRE	ROG_HOTS	ROG_RUNI	ROG_DIUR	TOG_RUNE	TOG_IDLEX	TOG_STRE	TOG_HOTS	TOG_RUNI	TOG_DIUR	NH3_RUNE	CO_RUNEX	CO_IDLEX	CO_STREX	SOx_RUNE	SOx_IDLEX	SOx_STREX
Santa Clara	2028	HHDT	Aggregate	Aggregate	Gasoline	1.470835	154.303	154.303	0	29.42846	0	3.160849	0	0.799958	0.0001802	0	0.000748	0.005	0.032409	0.00196	0	0.000813	0.02	0.092597	1951.66	0	49.27078	0.108026	0	0.000299	0.124786	0	0.028209	0.5443	0	0.001621	0.088862	0.781156	5.484444	0.794242	0	0.001775	0.088862	0.781156	5.484444	0.045	24.51976	0	4.057756	0.019294	0	0.000487
Santa Clara	2028	HHDT	Aggregate	Aggregate	Diesel	9119.079	1024317	1024317	0	134474.3	0	1.649728	61.49517	2.940109	0.02493	0.025825	0	0.00878	0.027829	0.026057	0.026993	0	0.035118	0.079512	1528	11109.9	0	0.000679	0.234703	0	0.240737	1.750369	0	0.01462	5.053085	0	0	0	0	0.016644	5.752553	0	0	0	0	0.216623	0.067122	73.97201	0	0.014469	0.105204	0
Santa Clara	2028	HHDT	Aggregate	Aggregate	Electricity	270.954	28275.15	0	28275.15	3483.7	52140.45	0	0	0	0	0	0	0.008552	0.01525	0	0	0	0	0	0	0.034206	0.043571	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2028	HHDT	Aggregate	Aggregate	Natural Ga	909.887	57673.44	57673.44	0	8080.24	0	0.845299	12.05981	0	0.0015921	0.026365	0	0.009	0.050678	0.0017311	0.028674	0	0.036	0.144795	1343.406	10310.04	0	1.91551	31.69951	0	0.273862	2.101769	0	0.038157	0.471295	0	0	0	0	1.967209	32.37261	0	0	0	0	0.820835	11.87837	75.6236	0	0	0	0
Santa Clara	2028	LDA	Aggregate	Aggregate	Gasoline	600154.7	21978505	21978505	0	2786673	0	0.030254	0	0.217367	0.000997	0	0.00169	0.002	0.002654	0.001084	0	0.001838	0.008	0.007582	259.6812	0	65.1265	0.001655	0	0.057308	0.003885	0	0.029996	0.005911	0	0.251605	0.076497	0.209635	1.284962	0.268625	0	0.275476	0.076497	0.209635	1.284962	0.03804	0.603253	0	2.607541	0.002567	0	0.000644
Santa Clara	2028	LDA	Aggregate	Aggregate	Diesel	1207.848	34499.52	34499.52	0	5156.172	0	0.118376	0	0	0.009649	0	0	0.002	0.002722	0.010085	0	0	0.008	0.007778	222.2686	0	0	0.000886	0	0	0	0	0	0.035019	0	0	0.019079	0	0	0	0.02172	0	0	0	0	0	0.0031	0.281436	0	0	0.002106	0	0
Santa Clara	2028	LDA	Aggregate	Aggregate	Electricity	69984.64	2868125	0	2868125	136272.3	1107333	0	0	0	0	0	0	0.002	0.001536	0	0	0	0.008	0.004389	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2028	LDA	Aggregate	Aggregate	Plug-in Hyb	22751.93	936162.1	430803.2	505358.9	94079.21	1526333.5	0.00302	0	0.11551	0.000467	0	0.001715	0.002	0.001393	0.000508	0	0.001865	0.008	0.003979	128.3175	0	63.11439	0.000404	0	0.041698	0.000525	0	0.020069	0.001306	0	0.173285	0.041591	0.046177	0.492538	0.001905	0	0.189725	0.041591	0.046177	0.492538	0.018641	0.198046	0	1.339893	0.001269	0	0.000624
Santa Clara	2028	LDT1	Aggregate	Aggregate	Gasoline	49081.01	1563538	1563538	0	218519.1	0	0.084308	0	0.305828	0.00136	0	0.002171	0.002	0.00324	0.00148	0	0.002362	0.008	0.009256	309.8369	0	79.99943	0.004111	0	0.081169	0.006927	0	0.034482	0.017586	0	0.397179	0.135565	0.390418	2.261735	0.525662	0	0.434861	0.135565	0.390418	2.261735	0.037654	1.051411	0	3.964013	0.003063	0	0.000791
Santa Clara	2028	LDT1	Aggregate	Aggregate	Diesel	3.376419	51.57305	51.57305	0	9.61996	0	1.103246	0	0	0.165443	0	0	0.002	0.003602	0.172924	0	0	0.008	0.010292	378.4488	0	0	0.012442	0	0	0.059625	0	0	0.267875	0	0	0	0	0	0	0.304958	0	0	0	0	0	0.0031	1.8775	0	0	0.003586	0	0
Santa Clara	2028	LDT1	Aggregate	Aggregate	Electricity	344.7167	14328.81	0	14328.81	1657.81	5532.102	0	0	0	0	0	0	0.002	0.001534	0	0	0	0.008	0.004382	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2028	LDT1	Aggregate	Aggregate	Plug-in Hyb	210.9723	9240.009	3862.243	5377.766	872.3706	1624.246	0.002741	0	0.11551	0.000276	0	0.001121	0.002	0.001402	0.0003	0	0.001219	0.008	0.004004	116.5535	0	68.31316	0.000365	0	0.041529	0.000473	0	0.019911	0.001186	0	0.173285	0.023021	0.019863	0.274915	0.001731	0	0.189725	0.023021	0.019863	0.274915	0.017556	0.179889	0	1.339893	0.001152	0	0.000675
Santa Clara	2028	LDT2	Aggregate	Aggregate	Gasoline	306289.6	10804407	10804407	0	1428230	0	0.048684	0	0.272265	0.001037	0	0.001722	0.002	0.00314	0.001128	0	0.001873	0.008	0.008973	321.5584	0	81.40965	0.002155	0	0.067575	0.00483	0	0.033529	0.008041	0	0.302046	0.071308	0.20464	1.273765	0.011733	0	0.330702	0.071308	0.20464	1.273765	0.038949	0.699045	0	3.020134	0.003179	0	0.000805
Santa Clara	2028	LDT2	Aggregate	Aggregate	Diesel	1124.634	40163.41	40163.41	0	5296.19	0	0.032087	0	0	0.004136	0	0	0.002	0.003139	0.004324	0	0	0.008	0.008969	293.3692	0	0	0.00057	0	0	0.04622	0	0	0.012281	0	0	0	0	0	0	0.013981	0	0	0	0	0	0.0031	0.127096	0	0	0.00278	0	0
Santa Clara	2028	LDT2	Aggregate	Aggregate	Electricity	3966.166	125586.5	0	125586.5	19886.52	49645.02	0	0	0	0	0	0	0.002	0.001529	0	0	0	0.008	0.00437	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2028	LDT2	Aggregate	Aggregate	Plug-in Hyb	3889.8	160537.5	69997.62	90539.85	16084.32	27345.73	0.002861	0	0.11551	0.00035	0	0.001357	0.002	0.001398	0.00038	0	0.001476	0.008	0.003995	121.5807	0	75.13065	0.00038	0	0.041442	0.000491	0	0.01983	0.001237	0	0.173285	0.025845	0.023469	0.303951	0.001805	0	0.189725	0.025845	0.023469	0.303951	0.0183	0.187649	0	1.339893	0.001202	0	0.000743
Santa Clara	2028	LHDT1	Aggregate	Aggregate	Gasoline	19758.18	736964	736964	0	294367.4	0	0.105907	0.032213	0.550872	0.001382	0	0.000225	0.002	0.0273	0.001503	0	0.000245	0.008	0.078	819.0942	115.0602	25.40508	0.005002	0.103139	0.028129	0.006125	0.002833	0.046743	0.023788	0.369318	0.136586	0.037892	0.223771	2.358305	0.034712	0.538908	0.149544	0.037892	0.223771	2.358305	0.045	0.894116	3.764573	3.249257	0.008098	0.001137	0.000251
Santa Clara	2028	LHDT1	Aggregate	Aggregate	Diesel	11024.69	426298.1	426298.1	0	138676.7	0	0.963403	1.57457	0	0.026418	0.026447	0	0.003	0.0273	0.027612	0.027643	0	0.012	0.078	620.6931	125.5014	0	0.006234	0.005098	0	0.09779	0.019773	0	0.13422	0.10976	0	0	0	0	0.152801	0.124954	0	0	0	0	0.19297	0.350151	0.909745	0	0.005881	0.001189	0
Santa Clara	2028	LHDT1	Aggregate	Aggregate	Electricity	1021.234	60968.04	0	60968.04	14299.84	39934.45	0	0	0	0	0	0	0.002	0.01365	0	0	0	0.008	0.039	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2028	LHDT2	Aggregate	Aggregate	Gasoline	2498.391	89760.82	89760.82	0	37222.3	0	0.097832	0.031367	0.543719	0.001242	0	0.000172	0.002	0.03185	0.001351	0	0.000187	0.008	0.091	927.6745	133.3883	24.76704	0.003463	0.100393	0.02699	0.006277	0.002707	0.045144	0.014905	0.359925	0.12934	0.035925	0.207704	2.286049	0.021749	0.525202	0.141611	0.035925	0.207704	2.286049	0.045	0.707005	3.772284	3.162872	0.009171	0.001319	0.000245
Santa Clara	2028	LHDT2	Aggregate	Aggregate	Diesel	5257.65	198606.8	198606.8	0	66134.62	0	0.865041	1.574905	0	0.026454	0.027	0	0.003	0.03185	0.02765	0.02822	0	0.012	0.091	735.4981	201.5097	0	0.00621	0.005098	0	0.115878	0.031748	0	0.133707	0.10976	0	0	0	0	0.152217	0.124954	0	0	0	0	0.198314	0.337166	0.909745	0	0.006969	0.001909	0
Santa Clara	2028	LHDT2	Aggregate	Aggregate	Electricity	258.9077	14761.07	0	14761.07	3434.171	9521.709	0	0	0	0	0	0	0.002	0.015925	0	0	0	0.008	0.0455	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2028	MCY	Aggregate	Aggregate	Gasoline	29377.66	168474	168474	0	58755.32	0	0.525696	0	0.112461	0.001844	0	0.003234	0.001	0.0042	0.001975	0	0.003451	0.004	0.012	186.1355	0	44.44114	0.148032	0	0.164333	0.037627	0	0.006825	0.934888	0	1.195378	3.558397	3.787612	3.814128	1.139755	0	1.300164	3.558397	3.787612	3.814128	0.008953	11.46379	0	7.875637	0.00184	0	0.000439
Santa Clara	2028	MDV	Aggregate	Aggregate	Gasoline	168553.5	5803822	5803822	0	781481.4	0	0.061284	0	0.315881	0.001013	0	0.001716	0.002	0.003184	0.001101	0	0.001866	0.008	0.009096	389.5067	0	98.90409	0.002561	0	0.076579	0.005494	0	0.035243	0.010093	0	0.362532	0.080433	0.240438	1.475862	0.014727	0	0.396926	0.080433	0.240438	1.475862	0.038637	0.751575	0	3.184891	0.003851	0	0.000978
Santa Clara	2028	MDV	Aggregate	Aggregate	Diesel	2426.785	81862.87	81862.87	0	11233.79	0	0.032614	0	0	0.003648	0	0	0.002	0.003262	0.003813	0	0	0.008	0.009319	389.9259	0	0	0.000421	0	0	0.061433	0	0	0.009068	0	0	0	0	0	0	0.010323	0	0	0	0	0	0.0031	0.190366	0	0	0.003695	0	0
Santa Clara	2028	MDV	Aggregate	Aggregate	Electricity	4086.684	132418.2	0	132418.2	20489.55	51124.34	0	0	0	0	0	0	0.002	0.00153	0	0	0	0.008	0.004371	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2028	MDV	Aggregate	Aggregate	Plug-in Hyb	2378.288	95173.34	41647.22	53526.11	9834.221	16166.48	0.002871	0	0.11551	0.000381	0	0.001468	0.002	0.001398	0.000414	0	0.001596	0.008	0.003995	122.0194	0	91.89575	0.00038	0	0.041303	0.00049	0	0.0197	0.001242	0	0.173285	0.029777	0.030116	0.357344	0.001812	0	0.189725	0.029777	0.030116	0.357344	0.018379	0.188325	0	1.339893	0.001206	0	0.000908
Santa Clara	2028	MH	Aggregate	Aggregate	Gasoline	2135.932	20452.38	20452.38	0	213.6786	0	0.26549	0	0.443358	0.001449	0	0.000349	0.003	0.015756	0.001576	0	0.000379	0.012	0.045017	1945.922	0	30.95502	0.009219	0	0.035524	0.019212	0	0.048659	0.036579	0	0.142607	9.09894	0.220886	3.673671	0.053375	0	0.156136	9.09894	0.220886	3.673671	0.045	0.773269	0	3.09385	0.019237	0	0.000306
Santa Clara	2028	MH	Aggregate	Aggregate	Diesel	1038.172	9908.83	9908.83	0	103.8172	0	3.609205	0	0	0.070805	0	0	0.004	0.015675	0.074006	0	0	0.016	0.044785	1083.65	0	0	0.005048	0	0	0.170729	0	0	0.108673	0	0	0	0	0	0	0.123716	0	0	0	0	0	0.173727	0.351812	0	0	0.010268	0	0
Santa Clara	2028	MHDT	Aggregate	Aggregate	Gasoline	1401.234	72189.25	72189.25	0	28035.89	0	0.242516	0.078583	0.374586	0.001336	0	0.00048	0.003	0.015756	0.001453	0	0.000522	0.012	0.045017	1692.94	512.6804	43.11567	0.007916	0.26741	0.042275	0.014019	0.006888	0.03076	0.037328	1.020423	0.224339	0.024741	0.206107	2.119603	0.054468	1.488999	0.245622	0.024741	0.206107	2.119603	0.045	0.73501	15.20594	4.808335	0.016736	0.005068	0.000426
Santa Clara	2028	MHDT	Aggregate	Aggregate	Diesel	10803.08	430729.5	430729.5	0	129114.2	0	0.860613	11.836	1.608029	0.008248	0.013921	0	0.003	0.015941	0.008621	0.01455	0	0.012	0.045546	1122.135	2173.473	0	0.000865	0.009639	0	0.176793	0.342432	0	0.018619	0.207523	0	0	0	0	0.021196	0.23625	0	0	0	0	0.215005	0.083705	7.507183	0	0.010626	0.020581	0
Santa Clara	2028	MHDT	Aggregate	Aggregate	Electricity	455.7542	23641.62	0	23641.62	5888.879	25808.42	0	0	0	0	0	0	0.003	0.00795	0	0	0	0.012	0.022714	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2028	MHDT	Aggregate	Aggregate	Natural Ga	123.908	5444.71	5444.71	0	1175.944	0	0.104653	6.319766	0	0.001324	0.019478	0	0.003	0.016008	0.00144	0.021184	0	0.012	0.045737	964.7434	5240.847	0	0.760505	16.16251	0	0.196669	1.068381	0	0.010866	0.23093	0	0	0	0	0.776151	16.49502	0	0	0	0	1.06	2.992399	37.88217	0	0	0	0
Santa Clara	2028	OBUS	Aggregate	Aggregate	Gasoline	397.1145	16622.09	16622.09	0	7945.466	0	0.357116	0.059942	0.391986	0.001028	0	0.000266	0.003	0.01568	0.001118	0	0.000289	0.012	0.044799	1689.377	370.1334	30.60894	0.009705	0.195421	0.034455	0.017965	0.004869	0.029709	0.046721	0.746963	0.182947	0.035541	0.189879	3.415245	0.068175	1.089967	0.200304	0.035541	0.189879	3.415245	0.045	1.017018	5.778725	3.777572	0.016701	0.003659	0.000303
Santa Clara	2028	OBUS	Aggregate	Aggregate	Diesel	1000.421	63426.65	63426.65	0	10301.55	0	1.028839	6.455092	1.462805	0.016693	0.006255	0	0.003	0.018135	0.017448	0.006538	0	0.012	0.051815	1214.71	1504.36	0	0.001614	0.021006	0	0.191378	0.237013	0	0.034758	0.452257	0	0	0	0	0.039569	0.51486	0	0	0	0	0.216724	0.130637	7.741349	0	0.011503	0.014245	0
Santa Clara	2028	OBUS	Aggregate	Aggregate	Electricity	11.18613	887.4727	0	887.4727	223.8121	983.184	0	0	0	0	0	0	0.003	0.00784	0	0	0	0.012	0.022399	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2028	OBUS	Aggregate	Aggregate	Natural Ga	10.8368	704.2664	704.2664	0	96.44751	0	0.118641	1.506606	0	0.001403	0.004634	0	0.003	0.016148	0.001526	0.00504	0	0.012	0.046137	949.9442	1177.671	0	0.829179	3.856516	0	0.193652	0.240076	0	0.011847	0.055102	0	0	0	0	0.846238	3.935858	0	0	0	0	1.06	3.360428	9.009932	0	0	0	0
Santa Clara	2028	SBUS	Aggregate	Aggregate	Gasoline	192.6095	9426.49	9426.49	0	770.4379	0	0.441988	0.854627	0.742088	0.000877	0	0.00059	0.002	0.015721	0.000954	0	0.000642	0.008	0.044917	795.4934	2545.579	56.45763	0.008926	2.46924	0.074272	0.024568	0.079725	0.067747	0.043131	10.64152	0.421106	0.123435	0.341525	2.080031	0.062937	15.52808	0.461058	0.123435	0.341525	2.080031	0.045	1.111121	82.24088	9.778336	0.007864	0.025166	0.000558
Santa Clara	2028	SBUS	Aggregate	Aggregate	Diesel	672.4071	14961.93	14961.93	0	9736.455	0	2.992481	19.58581	0.530181	0.015915	0.014197	0	0.003	0.015721	0.016635	0.014839	0	0.012	0.044917	1127.12	2187.632	0	0.002319	0.007838	0	0.177578	0.344662	0	0.049921	0.168747	0	0	0	0	0.056831	0.192106	0	0	0	0	0.16354	0.160085	5.10628	0	0.010673	0.020716	0
Santa Clara	2028	SBUS	Aggregate	Aggregate	Electricity	19.56942	629.4361	0	629.4361	226.2446	663.083	0	0	0	0	0	0	0.002	0.00576	0.00786	0	0	0	0.010305	0.022459	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2028	SBUS	Aggregate	Aggregate	Natural Ga	27.79861	667.4476	667.4476	0	402.5239	0	0.501921	5.232817	0	0.003378	0.012266	0	0.003	0.015721	0.003674	0.01334	0	0.012	0.044917	1228.307	4092.288	0	3.255494	14.78651	0	0.250398	0.83424	0	0.046515	0.21127	0	0	0	0	3.322471	15.09072	0	0	0	0	1.06	10.7964	22.79477	0	0	0	0
Santa Clara	2028	UBUS	Aggregate	Aggregate	Gasoline	46.62731	4869.279	4869.279	0	186.5092	0	0.018118	0	0.301177	0.001197	0	0.000134	0.002	0.03185	0.001302	0	0.000145	0.008	0.091	850.5342	0	35.22796	0.001481	0	0.028231	0.003213	0	0.053536	0.003868	0	0.094762	0.022596	0.090653	0.320129	0.005644	0	0.103752	0.022596	0.090653	0.320129	0.045	0.581279	0	6.342648	0.008408	0	0.000348
Santa Clara	2028	UBUS	Aggregate	Aggregate	Diesel	397.7907	44197.62	44197.62	0	1591.163	0	0.382083	0	0	0.006946	0	0	0.008	0.08221	0.0385	0.00726	0	0	0.032883	0.11	1110.56	0	0	0.003188	0	0	0.174969	0	0	0.068627	0	0	0	0	0	0.078126	0	0	0	0	0	0.22	0.07852	0	0	0.010523	0	0
Santa Clara	2028	UBUS	Aggregate	Aggregate	Electricity	30.09259	3155.026	0	3155.026	120.3703	5499.981	0	0	0	0	0	0	0.008	0.01925	0	0	0	0	0.03575	0.055	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2028	UBUS	Aggregate	Aggregate	Natural Ga	63.25774	7303.084	7303.084	0	253.0309	0	0.06078	0	0	0.000288	0	0	0.008444	0.0385	0.000301	0	0	0	0.033778	0.11	1320.856	0	0	4.332259	0	0	0.269265	0	0	0.061899	0	0	0	0	0	4.421388	0	0	0	0	0	0.97	50.55326	0	0	0	0	0

CalEEMod EMFAC2021 Emission Factors Input - Year 2032

Season	EmissionType	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
A	CH4_IDLEX	0	0	0	0	0.003991	0.002361	0.015527	0.184902558	0.007452	0	0	0.082826	0
A	CH4_RUNEX	0.001138	0.002666	0.001728	0.00188	0.003152	0.00392	0.009192	0.074120251	0.010998	0.628690329	0.140346	0.084546	0.005358
A	CH4_STREX	0.041505	0.062164	0.05549	0.058843	0.014674	0.007918	0.006007	3.49226E-08	0.012251	0.002390134	0.151104	0.005159	0.021885
A	CO_IDLEX	0	0	0	0	0.173797	0.134001	0.595465	4.892829621	0.546957	0	0	1.832381	0
A	CO_RUNEX	0.462579	0.785853	0.614459	0.6283	0.455892	0.344056	0.126228	0.562096535	0.242159	7.314376711	10.78988	0.612448	0.307914
A	CO_STREX	1.924319	2.970454	2.553667	2.58442	1.95011	1.088027	0.630821	0.000905231	1.351156	0.49073103	7.795209	0.644726	1.806813
A	CO2_NBIO_IDLEX	0	0	0	0	7.389741	13.26998	133.49	684.1408905	88.80226	0	0	175.1866	0
A	CO2_NBIO_RUNEX	213.2222	287.5593	297.3174	354.2515	619.1097	664.9868	983.8777	1313.448408	1200.289	711.2449054	185.5057	895.1543	1650.076
A	CO2_NBIO_STREX	54.23165	73.42366	74.82628	88.60336	14.95757	8.244112	6.192225	0.008069245	11.0688	2.958722814	41.43188	3.868025	19.58768
A	NOX_IDLEX	0	0	0	0	0.032582	0.072212	0.670644	3.698178693	0.31516	0	0	0.95185	0
A	NOX_RUNEX	0.021253	0.051613	0.036463	0.041141	0.243591	0.41318	0.468948	1.34629318	0.76358	0.154699349	0.498347	1.199773	1.217107
A	NOX_STREX	0.16943	0.246602	0.233316	0.251274	0.295293	0.163876	1.106694	2.507904019	0.884507	0.022988599	0.094779	0.526199	0.293488
A	PM10_IDLEX	0	0	0	0	0.000643	0.001464	0.000453	0.001628566	0.000266	0	0	0.00057	0
A	PM10_PMBW	0.007206	0.009286	0.009018	0.009067	0.072346	0.084581	0.041854	0.081826001	0.049855	0.21010984	0.012	0.042932	0.044938
A	PM10_PMTW	0.008	0.008	0.008	0.008	0.009275	0.010412	0.012	0.035158484	0.012	0.106774642	0.004	0.010403	0.013372
A	PM10_RUNEX	0.000743	0.00109	0.000885	0.000868	0.008117	0.01537	0.004157	0.02266981	0.011081	0.0029012	0.002033	0.006936	0.020536
A	PM10_STREX	0.001322	0.001825	0.001486	0.001442	0.000112	4.83E-05	7.55E-05	1.06793E-07	0.00011	1.26121E-05	0.003358	4.6E-05	0.000225
A	PM25_IDLEX	0	0	0	0	0.000615	0.0014	0.000432	0.001551244	0.000254	0	0	0.000544	0
A	PM25_PMBW	0.002522	0.00325	0.003156	0.003174	0.025321	0.029603	0.014649	0.0286391	0.017449	0.073538444	0.0042	0.015026	0.015728
A	PM25_PMTW	0.002	0.002	0.002	0.002	0.002319	0.002603	0.003	0.008789621	0.003	0.02669366	0.001	0.002601	0.003343
A	PM25_RUNEX	0.000683	0.001002	0.000814	0.000799	0.007738	0.014693	0.00397	0.021686069	0.010594	0.002771724	0.001897	0.006619	0.019612
A	PM25_STREX	0.001215	0.001678	0.001366	0.001326	0.000103	4.44E-05	6.95E-05	9.81919E-08	0.000101	1.15963E-05	0.003138	4.23E-05	0.000207
A	ROG_DIURN	0.21818	0.428495	0.243063	0.265379	0.077874	0.045849	0.013472	1.84172E-05	0.064259	0.007266684	3.553052	0.049117	17.4365
A	ROG_HTSK	0.054829	0.105439	0.058778	0.063163	0.017986	0.00999	0.002889	5.65292E-06	0.012608	0.001942259	3.551931	0.010044	4.01527
A	ROG_IDLEX	0	0	0	0	0.016179	0.013126	0.019238	0.303812131	0.038819	0	0	0.197594	0
A	ROG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
A	ROG_RUNEX	0.003833	0.010801	0.006168	0.007041	0.042133	0.074747	0.011307	0.013101816	0.027053	0.035260883	0.864333	0.032428	0.046858
A	ROG_RUNLS	0.164229	0.320316	0.18195	0.198932	0.109789	0.061559	0.025618	5.08328E-05	0.071214	0.007879943	3.777197	0.033051	0.100297
A	ROG_STREX	0.176108	0.28912	0.240523	0.266456	0.06862	0.036886	0.030737	1.89291E-07	0.065202	0.007911752	1.082383	0.028959	0.083751
A	SO2_IDLEX	0	0	0	0	7.19E-05	0.000127	0.001225	0.00590108	0.000836	0	0	0.001573	0
A	SO2_RUNEX	0.002108	0.002843	0.002939	0.0035	0.00604	0.006395	0.009301	0.011838117	0.011386	0.004948157	0.001834	0.008299	0.01616
A	SO2_STREX	0.000536	0.000726	0.00074	0.000876	0.000148	8.15E-05	6.12E-05	7.97727E-08	0.000109	2.925E-05	0.00041	3.82E-05	0.000194
A	TOG_DIURN	0.21818	0.428495	0.243063	0.265379	0.077874	0.045849	0.013472	1.84172E-05	0.064259	0.007266684	0.077847	0.049117	17.4365
A	TOG_HTSK	0.054829	0.105439	0.058778	0.063163	0.017986	0.00999	0.002889	5.65292E-06	0.012608	0.001942259	3.551931	0.010044	4.01527
A	TOG_IDLEX	0	0	0	0	0.022782	0.017307	0.037398	0.517511266	0.051351	0	0	0.324033	0
A	TOG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
A	TOG_RUNEX	0.00559	0.01576	0.008987	0.010245	0.049938	0.08578	0.021946	0.088820826	0.041436	0.670307298	1.064955	0.12208	0.057383
A	TOG_RUNLS	0.164229	0.320316	0.18195	0.198932	0.109789	0.061559	0.025618	5.08328E-05	0.071214	0.007879943	3.777197	0.033051	0.100297
A	TOG_STREX	0.192816	0.31655	0.263342	0.291735	0.07513	0.040386	0.033654	2.0725E-07	0.071388	0.008662372	1.177756	0.031706	0.091697
A	N2O_IDLEX	0	0	0	0	0.000559	0.00168	0.020688	0.11060984	0.013055	0	0	0.02247	0
A	N2O_RUNEX	0.003026	0.005074	0.004228	0.00496	0.033011	0.069781	0.126118	0.209837595	0.149662	0.110224683	0.036508	0.105046	0.06868
A	N2O_STREX	0.024506	0.030871	0.030812	0.031136	0.026186	0.014179	0.004371	2.51289E-06	0.01018	0.004251226	0.005917	0.004971	0.033071

CalEEMod EMFAC2021 Fleet Mix Input

FleetMixLandUseSubType	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
	0.510485	0.033966	0.242112	0.138317	0.024764	0.006318	0.009796	0.008008	0.001058	0.000391	0.02191	0.000677	0.002196

Adjustment Factors

Vehicle Category	Fuel	Population	Pop Fract	VMT (miles/day)	VMT Fract	Trips/day	Trip Fract
HHDT	GAS	1.36669963	8.65091E-06	181.8206291	0.0001534	27.34492622	0.000173
HHDT	DSL	9332.47516	0.059072522	1038650.086	0.8761424	138855.9968	0.878928
HHDT	ELEC	867.296134	0.005489794	89073.78651	0.0751373	10788.79384	0.068291
HHDT	NG	945.798898	0.0059867	57575.26427	0.048567	8311.218656	0.052608
		11146.9369		1185480.957		157983.3543	
LDA	GAS	604966.756	0.183570966	22063255.54	0.8427058	2811212.447	0.853034
LDA	DSL	785.736083	0.000238424	22835.99255	0.0008722	3405.783464	0.001033
LDA	ELEC	78652.5363	0.023866307	3072934.904	0.1173707	372706.1196	0.113094
LDA	PIH	26172.3604	0.007941735	1022419.206	0.0390513	108222.7104	0.032839
		710577.389		26181445.64		3295547.06	
LDT1	GAS	46277.3755	0.219211265	1471605.193	0.9720985	206538.8504	0.978354
LDT1	DSL	0.2976825	1.41009E-06	11.61670684	7.674E-06	1.450740599	6.87E-06
LDT1	ELEC	584.400803	0.002768248	24907.19098	0.0164529	2841.466135	0.01346
LDT1	PIH	417.605146	0.001978153	17319.74422	0.0114409	1726.797277	0.00818
		47279.6791		1513843.745		211108.5645	
LDT2	GAS	323082.846	0.206630959	11190683.1	0.9589557	1499760.755	0.959187
LDT2	DSL	1186.95452	0.000759129	41582.88972	0.0035633	5555.72307	0.003553
LDT2	ELEC	6972.28509	0.004459197	213284.0743	0.0182768	34399.66175	0.022001
LDT2	PIH	5769.79514	0.003690132	224105.9303	0.0192042	23858.10292	0.015259
		337011.88		11669655.99		1563574.243	
LHDT1	GAS	19570.9061	0.040428876	707835.4203	0.5362403	291577.3409	0.60233
LHDT1	DSL	11359.7321	0.023466527	420788.6943	0.3187801	142891.1396	0.295179
LHDT1	ELEC	3540.47782	0.007313792	191372.6939	0.1449797	49613.88688	0.102491
		34471.1161	0.071209196	1319996.808		484082.3674	
LHDT2	GAS	2398.96294	0.022846215	83632.60405	0.2558501	35740.9733	0.340375
LHDT2	DSL	5506.42149	0.052439698	197130.7369	0.6030653	69263.85526	0.659625
LHDT2	ELEC	889.649061	0.008472459	46117.90399	0.1410846	11794.62943	0.112325
		8795.03349	0.083758372	326881.2449		105004.8286	
MCY	GAS	30497.802	0.021909907	171904.5006	1	60995.6041	1
MDV	GAS	179884.41	0.201947685	6112050.651	0.9361457	832074.4724	0.93413
MDV	DSL	2377.43645	0.002669035	77762.865	0.0119105	10886.35835	0.012222
MDV	ELEC	6739.76445	0.007566413	204828.0947	0.0313723	33186.13387	0.037256
MDV	PIH	3530.98198	0.003964066	134310.8613	0.0205716	14600.61048	0.016391
		192532.593		6528952.472		890747.5751	
MH	GAS	1965.07529	6.427394946	19689.47478	0.6569703	196.5861316	0.642997
MH	DSL	1091.48198	3.570034096	10280.63759	0.3430297	109.1481981	0.357003
		3056.55727		29970.11237		305.7343297	
MHDT	GAS	1323.54754	0.007564799	66184.1984	0.1182233	26481.53917	0.151357
MHDT	DSL	10414.5982	0.059525135	398561.5829	0.7119412	124459.1959	0.711352
MHDT	ELEC	1751.38082	0.010010101	89075.56723	0.1591136	22588.64919	0.129107
MHDT	NG	146.304076	0.000836208	6002.415973	0.010722	1431.970669	0.008184
		13635.8306		559823.7645		174961.3549	
OBUS	GAS	349.704779	0.0185066	13472.42238	0.1637431	6996.893221	0.37028
OBUS	DSL	1070.25937	0.056638809	64993.76415	0.7899307	10996.07294	0.581919
OBUS	ELEC	39.0057524	0.002064209	2949.661776	0.03585	780.4270931	0.041301
OBUS	NG	13.8007107	0.000730342	861.9556433	0.0104762	122.8263249	0.0065
		1472.77061		82277.80395		18896.21958	
SBUS	GAS	199.994297	0.017621023	9700.135642	0.3644063	799.9771865	0.070484
SBUS	DSL	638.699802	0.056274324	13873.93807	0.5212042	9248.373128	0.814852
SBUS	ELEC	73.3296801	0.006460904	2353.423804	0.0884114	861.5551931	0.07591
SBUS	NG	30.3763642	0.002676389	691.5111916	0.0259781	439.849754	0.038754
		942.400143		26619.00871		11349.75526	
UBUS	GAS	47.1714846	0.021676301	4926.10707	0.0818022	188.6859383	0.086705
UBUS	DSL	237.574024	0.109170318	22942.16384	0.3809743	950.296097	0.436681
UBUS	ELEC	182.473379	0.593791187	23430.88261	2.6266166	729.8935173	2.375165
UBUS	NG	76.8255673	0.035302982	8920.556737	0.1481335	307.3022692	0.141212
		544.044455		60219.71025		2176.177822	

Source: EMFAC2021 (v1.0.1) Emission Rates
Region Type: County
Region: Santa Clara
Calendar Year: 2032
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN

Region	Calendar Y	Vehicle Cat	Model Yea	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	Energy Con	NOx_RUNEX	NOx_IDLEX	NOx_STREX	PM2.5_RU	PM2.5_IDL	PM2.5_STF	PM2.5_PM	PM2.5_PM	PM10_RUN	PM10_IDLE	PM10_STR	PM10_PM	PM10_PM	CO2_RUNE	CO2_IDLEX	CO2_STREX	CH4_RUNE	CH4_IDLEX	CH4_STREX	N2O_RUNEX	N2O_IDLEX	N2O_STREX	ROG_RUNI	ROG_IDLEX	ROG_STREX	ROG_HOTS	ROG_RUNI	ROG_DIUR	TOG_RUNEX	TOG_IDLEX	TOG_STREX	TOG_HOTS	TOG_RUNI	TOG_DIUR	NH3_RUNEX	CO_RUNEX	CO_IDLEX	CO_STREX	SOx_RUNE	SOx_IDLEX	SOx_STREX
Santa Clara	2032	HHDT	Aggregate	Aggregate	Gasoline	1.3667	181.8206	181.8206	0	27.34493	0	2.471595	0	0.405426	0.001528	0	0.000567	0.005	0.032506	0.001662	0	0.000617	0.02	0.092874	1895.781	0	46.61949	0.096921	0	0.000202	0.111503	0	0.014518	0.461618	0	0.001094	0.032659	0.293683	2.128933	0.045	27.88736	0	5.229907	0.018742	0	0.000461
Santa Clara	2032	HHDT	Aggregate	Aggregate	Diesel	9332.475	1038650	1038650	0	138856	0	1.501242	61.48174	2.853287	0.024666	0.023391	0	0.0088	0.028433	0.025781	0.024449	0	0.035202	0.081236	1426.527	10549.3	0	0.000616	0.236904	0	0.22475	1.662046	0	0.013267	5.100483	0	0	0	0	0.015104	5.806512	0	0	0	0	0.217781	0.058032	74.97115	0	0.013508	0.098896	0
Santa Clara	2032	HHDT	Aggregate	Aggregate	Electricity	867.2961	89073.79	0	89073.79	10788.79	164340.8	0	0	0	0	0	0	0.008535	0.015635	0	0	0	0.034139	0.044673	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2032	HHDT	Aggregate	Aggregate	Natural Ga	945.7989	57575.26	57575.26	0	8311.219	0	0.630307	11.07405	0	0.001547	0.028307	0	0.009	0.052468	0.001682	0.030786	0	0.036	0.149908	1303.706	10183.81	0	1.514721	28.54795	0	0.265769	2.076035	0	0.028974	0.419885	0	0	0	0	1.554238	29.14894	0	0	0	0	0.8048	10.43867	77.52097	0	0	0	0
Santa Clara	2032	LDA	Aggregate	Aggregate	Gasoline	604966.8	22063256	22063256	0	2811212	0	0.025021	0	0.194174	0.000789	0	0.001371	0.002	0.002711	0.000859	0	0.001492	0.008	0.007745	247.1068	0	61.21812	0.001332	0	0.047072	0.003534	0	0.027975	0.004478	0	0.199778	0.062691	0.190258	1.163386	0.006535	0	0.218732	0.062691	0.190258	1.163386	0.040251	0.519863	0	0.204271	0.002443	0	0.000605
Santa Clara	2032	LDA	Aggregate	Aggregate	Diesel	785.7361	22835.99	22835.99	0	3405.783	0	0.063049	0	0	0.004606	0	0	0.002	0.002775	0.004814	0	0	0.008	0.007929	210.5532	0	0	0.000512	0	0	0	0	0	0.033173	0	0	0	0	0	0.011014	0	0	0	0	0	0.012538	0	0	0.001995	0	0	0
Santa Clara	2032	LDA	Aggregate	Aggregate	Electricity	78652.54	3072935	0	3072935	372706.1	1186406	0	0	0	0	0	0	0.002	0.001537	0	0	0	0.008	0.004392	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2032	LDA	Aggregate	Aggregate	Plug-in Hyb	26172.36	1022419	446971.2	575448	108222.7	1738025	0.002899	0	0.11551	0.000351	0	0.001382	0.002	0.001412	0.000382	0	0.001503	0.008	0.004034	122.9199	0	61.22398	0.000386	0	0.041142	0.000492	0	0.019545	0.001265	0	0.173285	0.041153	0.058842	0.581188	0.001845	0	0.189725	0.041153	0.058842	0.581188	0.018054	0.190521	0	1.339893	0.001215	0	0.000605
Santa Clara	2032	LDT1	Aggregate	Aggregate	Gasoline	46277.38	1471605	1471605	0	206538.9	0	0.053062	0	0.251092	0.001028	0	0.001707	0.002	0.003301	0.001118	0	0.001857	0.008	0.009431	294.4495	0	74.48497	0.002738	0	0.063195	0.005214	0	0.031391	0.011097	0	0.294068	0.107574	0.327222	1.952082	0.016192	0	0.321967	0.107574	0.327222	1.952082	0.039149	0.806299	0	3.024973	0.002911	0	0.000736
Santa Clara	2032	LDT1	Aggregate	Aggregate	Diesel	0.297683	11.61671	11.61671	0	1.450741	0	0.026908	0	0	0.003607	0	0	0.002	0.003095	0.00377	0	0	0.008	0.008843	355.0383	0	0	0.000555	0	0	0	0.055936	0	0	0.011954	0	0	0	0	0	0.013609	0	0	0	0	0	0.0031	0.114099	0	0	0.003364	0	0
Santa Clara	2032	LDT1	Aggregate	Aggregate	Electricity	584.4008	24907.19	0	24907.19	2841.466	9616.231	0	0	0	0	0	0	0.002	0.001533	0	0	0	0.008	0.004379	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2032	LDT1	Aggregate	Aggregate	Plug-in Hyb	417.6051	17319.74	7120.946	10198.8	1726.797	3080.341	0.002727	0	0.11551	0.000218	0	0.000903	0.002	0.001416	0.000237	0	0.000983	0.008	0.004044	115.6027	0	67.36337	0.000363	0	0.041139	0.000462	0	0.019543	0.001189	0	0.173285	0.023647	0.021676	0.291289	0.001735	0	0.189725	0.023647	0.021676	0.291289	0.017268	0.17918	0	1.339893	0.001143	0	0.000666
Santa Clara	2032	LDT2	Aggregate	Aggregate	Gasoline	323082.8	11190683	11190683	0	1497761	0	0.037857	0	0.241406	0.000829	0	0.001407	0.002	0.003222	0.000901	0	0.00153	0.008	0.009206	306.6257	0	76.83893	0.001793	0	0.0572	0.004235	0	0.031816	0.006362	0	0.248	0.060843	0.189231	1.170088	0.009283	0	0.271529	0.060843	0.189231	1.170088	0.040485	0.636594	0	2.641008	0.003031	0	0.00076
Santa Clara	2032	LDT2	Aggregate	Aggregate	Diesel	1186.955	41582.89	41582.89	0	5555.723	0	0.029707	0	0	0.00401	0	0	0.002	0.003215	0.004191	0	0	0.008	0.009185	280.4741	0	0	0.000578	0	0	0	0.044189	0	0	0.012447	0	0	0	0	0	0.01417	0	0	0	0	0	0.0031	0.129961	0	0	0.002658	0	0
Santa Clara	2032	LDT2	Aggregate	Aggregate	Electricity	6972.285	213284.1	0	213284.1	34399.66	82345.26	0	0	0	0	0	0	0.002	0.001532	0	0	0	0.008	0.004378	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2032	LDT2	Aggregate	Aggregate	Plug-in Hyb	5769.795	224105.9	94522.6	129583.3	23858.1	39138.03	0.002797	0	0.11551	0.00027	0	0.001093	0.002	0.001415	0.000294	0	0.001189	0.008	0.004043	118.5916	0	73.62032	0.000371	0	0.040934	0.00047	0	0.019352	0.00122	0	0.173285	0.027446	0.028966	0.348737	0.00178	0	0.189725	0.027446	0.028966	0.348737	0.017709	0.183812	0	1.339893	0.001172	0	0.000728
Santa Clara	2032	LHDT1	Aggregate	Aggregate	Gasoline	19570.91	707835.4	707835.4	0	291577.3	0	0.064998	0.029332	0.490251	0.001292	0	0.000171	0.002	0.0273	0.0001405	0	0.000186	0.008	0.078	789.3382	112.1663	24.83284	0.002761	0.095761	0.024361	0.004023	0.002701	0.043475	0.011467	0.336481	0.113924	0.02986	0.182274	1.926199	0.016732	0.490992	0.124732	0.02986	0.182274	1.926199	0.045	0.677992	3.770785	3.23761	0.007803	0.001109	0.000245
Santa Clara	2032	LHDT1	Aggregate	Aggregate	Diesel	11359.73	420788.7	420788.7	0	142891.1	0	0.654796	1.337906	0	0.022101	0.026202	0	0.003	0.0273	0.0231	0.027387	0	0.012	0.078	614.3257	121.6619	0	0.005243	0.005098	0	0.096787	0.019168	0	0.112881	0.10976	0	0	0	0	0.128508	0.124954	0	0	0	0	0.204083	0.289622	0.909745	0	0.005821	0.001153	0
Santa Clara	2032	LHDT1	Aggregate	Aggregate	Electricity	3540.478	191372.7	0	191372.7	49613.89	125376.4	0	0	0	0	0	0	0.002	0.01365	0	0	0	0.008	0.039	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2032	LHDT2	Aggregate	Aggregate	Gasoline	2398.963	83632.6	83632.6	0	35740.97	0	0.060888	0.028102	0.481457	0.001174	0	0.00013	0.002	0.03185	0.001277	0	0.000142	0.008	0.091	895.2097	130.1804	24.2207	0.002139	0.091635	0.023261	0.004289	0.002534	0.041657	0.008353	0.322606	0.108369	0.029349	0.180855	2.00686	0.012189	0.470745	0.11865	0.029349	0.180855	2.00686	0.045	0.623521	3.777194	3.196558	0.00885	0.001287	0.000239
Santa Clara	2032	LHDT2	Aggregate	Aggregate	Diesel	5506.421	197130.7	197130.7	0	69263.86	0	0.659301	1.364808	0	0.023865	0.026702	0	0.003	0.03185	0.024944	0.027909	0	0.012	0.091	722.8857	196.3369	0	0.005592	0.005098	0	0.113891	0.030933	0	0.120401	0.10976	0	0	0	0	0.137069	0.124954	0	0	0	0	0.206038	0.305983	0.909745	0	0.00685	0.00186	0
Santa Clara	2032	LHDT2	Aggregate	Aggregate	Electricity	889.6491	46117.9	0	46117.9	11794.63	29746.01	0	0	0	0	0	0	0.002	0.015925	0	0	0	0.008	0.0455	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2032	MCY	Aggregate	Aggregate	Gasoline	30497.8	1719045	1719045	0	60995.6	0	0.498347	0	0.094779	0.001897	0	0.003138	0.001	0.0042	0.002033	0	0.003358	0.004	0.012	185.5057	0	41.43188	0.140346	0	0.151104	0.036508	0	0.005917	0.864333	0	1.082383	3.551931	3.777197	3.553052	1.064955	0	1.177756	3.551931	3.777197	3.553052	0.009045	10.78988	0	7.795209	0.001834	0	0.00041
Santa Clara	2032	MDV	Aggregate	Aggregate	Gasoline	179884.4	6112051	6112051	0	832074.5	0	0.043604	0	0.266965	0.000814	0	0.0014	0.002	0.003265	0.000886	0	0.001522	0.008	0.009329	371.0599	0	93.27655	0.001996	0	0.062276	0.00454	0	0.032993	0.007399	0	0.282204	0.067104	0.212366	1.30653	0.010797	0	0.308978	0.067104	0.212366	1.30653	0.04024	0.664834	0	2.743147	0.003668	0	0.000922
Santa Clara	2032	MDV	Aggregate	Aggregate	Diesel	2377.436	77762.86	77762.86	0	10886.36	0	0.022158	0	0	0.002588	0	0	0.002	0.003342	0.002705	0	0	0.008	0.009548	373.1349	0	0	0.000345	0	0	0	0.058788	0	0	0.007432	0	0	0	0	0	0.008461	0	0	0	0	0	0.0031	0.179238	0	0	0.003536	0	0
Santa Clara	2032	MDV	Aggregate	Aggregate	Electricity	6739.764	204828.1	0	204828.1	33186.13	79080.55	0	0	0	0	0	0	0.002	0.001534	0	0	0	0.008	0.004382	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2032	MDV	Aggregate	Aggregate	Plug-in Hyb	3530.982	134310.9	56684.06	77626.8	14600.61	23445.61	0.002799	0	0.11551	0.000283	0	0.001143	0.002	0.001416	0.000308	0	0.001243	0.008	0.004045	118.6647	0	89.73544	0.00037	0	0.040836	0.000467	0	0.01926	0.001221	0	0.173285	0.029234	0.033847	0.385412	0.001781	0	0.189725	0.029234	0.033847	0.385412	0.017726	0.183926	0	1.339893	0.001173	0	0.000887
Santa Clara	2032	MH	Aggregate	Aggregate	Gasoline	1965.075	19689.47	19689.47	0	196.5861	0	0.171248	0	0.456438	0.00134	0	0.000321	0.003	0.015756	0.001457	0	0.000349	0.012	0.045017	1945.102	0	30.46312	0.005733	0	0.034035	0.015281	0	0.051433	0.019166	0	0.130251	6.24462	0.155984	2.712841	0.027967	0	0.142609	6.24462	0.155984	2.712841	0.045	0.304131	0	2.809989	0.019229	0	0.000301
Santa Clara	2032	MH	Aggregate	Aggregate	Diesel	1091.482	10280.64	10280.64	0	109.1482	0	3.220137	0	0.054608	0	0	0	0.004	0.015675	0.057077	0	0	0.016	0.044785	1085.044	0	0	0.00464	0	0	0.170949	0	0	0.099892	0	0	0	0	0	0.11372	0	0	0	0	0	0.187452	0.315161	0	0	0.010281	0	0
Santa Clara	2032	MHDT	Aggregate	Aggregate	Gasoline	1323.548	66184.2	66184.2	0	26481.54	0	0.146986	0.07112	0.334927	0.001344	0	0.000459	0.003	0.015756	0.001461	0	0.000499	0.012	0.045017	1640.832	497.2182	40.91152	0.005103	0.270744	0.039688	0.010128	0.00644	0.028882	0.022333	1.024794	0.203079	0.01909	0.169254	1.780876	0.032589	1.495377	0.222346	0.01909	0.169254	1.780876	0.045	0.404076	15.25677	4.167782	0.016221	0.004916	0.000404
Santa Clara	2032	MHDT	Aggregate	Aggregate	Diesel	10414.6	398561.6	3985661.6	0	124459.2	0	0.632922	11.17061	1.484497	0.005332	0.006982	0	0.003	0.015941	0.005573	0.007298	0	0.012	0.045546	1095.148	2106.768	0	0.000558	0.008818	0	0.172541	0.331922	0	0.012009	0.18985	0	0	0	0	0.013672	0.216129	0	0	0	0	0.217322	0.065229	7.515075	0	0.01037	0.01995	0
Santa Clara	2032	MHDT	Aggregate	Aggregate	Electricity	1751.381	89075.57	0	89075.57	22588.65	96916.6	0	0	0	0	0	0	0.003	0.007953	0	0	0	0.012	0.022722	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2032	MHDT	Aggregate	Aggregate	Natural Ga	146.3041	6002.416	6002.416	0	1431.971	0	0.090225	6.187661	0	0.001392	0.019987	0	0.003	0.016001	0.001514	0.021738	0	0.012	0.045716	952.4446	5169.807	0	0.763994	15.49182	0	0.194162	1.053899	0	0.010916	0.221348	0	0	0	0	0.779712	15.81054	0	0	0	0	1.06	2.986173	39.12264	0	0	0	0
Santa Clara	2032	OBUS	Aggregate	Aggregate	Gasoline	349.7048	13472.42	13472.42	0	6996.893	0	0.254169	0.055727	0.372135	0.001106	0	0.000273	0.003	0.01568	0.001203	0	0.000297	0.012	0.044799	1633.502	362.8569	29.89305	0.007232	0.193749	0.033086	0.013737	0.004464	0.027493	0.033859	0.7477	0.176087	0.03405	0.192326	3.47222	0.049407	1.091042	0.192793	0.03405	0.192326	3.47222	0.045	0.719771	5.783129	3.649011	0.016149	0.003587	0.000296
Santa Clara	2032	OBUS	Aggregate	Aggregate	Diesel	1070.259	64993.76	64993.76	0	10996.07	0	0.912693	5.526907	1.28319	0.013161	0.004429	0	0.003	0.018269	0.013756	0.004629	0	0.012	0.052198	1168.664	1434.32	0	0.001257	0.020455	0	0.184124	0.225978	0	0.02707	0.440385	0	0	0	0	0.030817	0.501344	0	0	0	0	0.217522	0.112333	7.642772	0	0.011067	0.013582	0
Santa Clara	2032	OBUS	Aggregate	Aggregate	Electricity	39.00575	2949.662	0	2949.662	780.4271	3267.774	0	0	0	0	0	0	0.003	0.00784	0	0	0	0.012	0.022399	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2032	OBUS	Aggregate	Aggregate	Natural Ga	13.80071	861.9556	861.9556	0	122.8263	0	0.095203	1.49455	0	0.001515	0.004922	0	0.003	0.016148	0.001648	0.005353	0	0.012	0.046137	921.1805	1162.213	0	0.842009	3.707669	0	0.187789	0.236925	0	0.012031	0.052975	0	0	0	0	0.859332	3.783948	0	0	0	0	1.06	3.394995	9.658287	0	0	0	0
Santa Clara	2032	SBUS	Aggregate	Aggregate	Gasoline	199.9943	9700.136	9700.136	0	799.9772	0	0.341208	0.808388	0.781219	0.000892	0	0.0006	0.002	0.015721	0.00097	0	0.000653	0.008	0.044917	783.968	2512.992	54.87799	0.006289	2.475073	0.073188	0.020782	0.075848	0.070521	0.029979	10.64152	0.410857	0.142504	0.468919	2.787422	0.043745	15.52808	0.449837	0.142504	0.468919	2.787422	0.045	0.762046	82.24088	9.147119	0.00775	0.024843	0.000543
Santa Clara	2032	SBUS	Aggregate	Aggregate	Diesel	638.6998	13873.94	13873.94	0	9248.373	0	2.040621	16.41363	0.578185	0.011908	0.00905	0	0.003	0.015721	0.012446	0.009459	0	0.012	0.044917	1109.275	2130.805	0	0.001813	0.007862	0	0.174767	0.335709	0	0.039027	0.169268	0	0	0	0	0.04443	0.192699	0	0	0	0	0.180766	0.1336	5.66339	0	0.010504	0.020177	0
Santa Clara	2032	SBUS	Aggregate	Aggregate	Electricity	73.32968	2353.424	0	2353.424	861.5552	2479.227	0	0	0	0	0	0	0.002	0.00786	0	0	0	0.010425	0.022459	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2032	SBUS	Aggregate	Aggregate	Natural Ga	30.37636	691.5112	691.5112	0	439.8498	0	0.456314	5.208487	0	0.003378	0.012846	0	0.003	0.015721	0.003674	0.013971	0	0.012	0.044917	1205.339	4108.314	0	3.129932	14.48612	0	0.245716	0.837507	0	0.044721	0.206978	0	0	0	0	3.194326	14.78415	0	0	0	0	1.06	10.20552	24.10324	0	0	0	0
Santa Clara	2032	UBUS	Aggregate	Aggregate	Gasoline	47.17148	4926.107	4926.107	0	188.6859	0	0.015224	0	0.265135	0.001197	0	0.000134	0.002	0.03185	0.001302	0	0.000145	0.008	0.091	850.2223	0	34.12394	0.001242	0	0.027566	0.002838	0	0.049031	0.003187	0	0.091249	0.022401	0.090882	0.335236	0.004651	0	0.099906	0.022401	0.090882	0.335236	0.045	0.574651	0	5.659765	0.008405	0	0.000337
Santa Clara	2032	UBUS	Aggregate	Aggregate	Diesel	237.574	22942.16	22942.16	0	950.2961	0	0.380032	0	0	0.006909	0	0	0.002	0.008182	0.0085	0.007221	0	0	0.032727	0.11	1180.242	0	0.003174	0	0	0.185948	0	0	0.068341	0	0	0	0	0	0.077801	0	0	0	0	0	0.22	0.078103	0	0	0.011183	0	0
Santa Clara	2032	UBUS	Aggregate	Aggregate	Electricity	182.4734	23430.88	0	23430.88	729.8935	40845.75	0	0	0	0	0	0	0.008454	0.01925	0	0	0	0.033816	0.055	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2032	UBUS	Aggregate	Aggregate	Natural Ga	76.82557	8920.557	8920.557	0	307.3023	0	0.058538	0	0	0.000282	0	0	0.00815	0.0385	0.000294	0	0	0.032599	0.11	1296.487	0	0	4.23523	0	0	0.264297	0	0	0.060513	0	0	0	0	0	4.322362	0	0	0	0	0.97	48.85872	0	0	0	0	0

CalEEMod EMFAC2021 Emission Factors Input - Year 2021

Season	EmissionType	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
A	CH4_IDLEX	0	0	0	0	0.005878	0.003619	0.01275	0.197310169	0.00759	0	0	0.071404	0
A	CH4_RUNEX	0.002995	0.008644	0.003737	0.00576	0.011435	0.00913	0.01146	0.127744184	0.010302	0.347802153	0.180174	0.094354	0.020059
A	CH4_STREX	0.079186	0.127685	0.097709	0.126721	0.026891	0.01529	0.010157	8.78733E-08	0.019671	0.004673445	0.199348	0.004529	0.029232
A	CO_IDLEX	0	0	0	0	0.199636	0.147259	0.651685	4.795241999	0.484687	0	0	1.570195	0
A	CO_RUNEX	0.831642	1.849144	1.027398	1.303174	1.150341	0.743893	0.597226	0.862882972	0.730634	4.097383982	14.15601	0.96779	2.547311
A	CO_STREX	3.58265	6.584775	4.36593	4.939692	2.123573	1.293773	1.327042	0.000286589	2.217538	0.494362033	8.172263	0.660879	2.954274
A	CO2_NBIO_IDLEX	0	0	0	0	8.984091	14.02685	165.9133	882.4780817	85.13278	0	0	194.7841	0
A	CO2_NBIO_RUNEX	266.461	341.1964	363.4042	439.9142	834.145	872.3574	1253.351	1685.130969	1432.803	1102.614688	189.7631	1079.657	1711.662
A	CO2_NBIO_STREX	68.96997	91.82657	93.75577	112.7349	18.35215	10.90562	9.46608	0.040010794	17.142	3.329258631	52.22767	3.619354	24.30833
A	NOX_IDLEX	0	0	0	0	0.054179	0.104605	1.091448	4.572619478	0.420995	0	0	1.538643	0
A	NOX_RUNEX	0.056254	0.178015	0.09872	0.158197	0.966863	1.255921	1.736671	2.783925305	1.321764	0.329361175	0.626062	3.169118	1.721593
A	NOX_STREX	0.279573	0.453347	0.418778	0.559929	0.498071	0.284397	1.251283	2.244984032	0.880933	0.049322633	0.157064	0.448803	0.296939
A	PM10_IDLEX	0	0	0	0	0.000659	0.001314	0.003616	0.004302548	0.000785	0	0	0.001697	0
A	PM10_PMBW	0.007267	0.00922	0.0089	0.009108	0.078	0.091	0.045476	0.083454451	0.049902	0.110380504	0.012	0.046013	0.044954
A	PM10_PMTW	0.008	0.008	0.008	0.008	0.009352	0.010571	0.012	0.035115542	0.012	0.032498647	0.004	0.010977	0.013097
A	PM10_RUNEX	0.001357	0.002347	0.001488	0.001627	0.017801	0.027446	0.021891	0.037393579	0.020829	0.006222045	0.001872	0.016773	0.03363
A	PM10_STREX	0.002151	0.003452	0.002293	0.002544	0.000297	0.000144	0.000133	1.5625E-06	0.00015	8.36171E-06	0.003843	3.56E-05	0.000403
A	PM25_IDLEX	0	0	0	0	0.000631	0.001257	0.00346	0.00411213	0.000751	0	0	0.001623	0
A	PM25_PMBW	0.002543	0.003227	0.003115	0.003188	0.0273	0.03185	0.015916	0.029209058	0.017466	0.038633176	0.0042	0.016104	0.015734
A	PM25_PMTW	0.002	0.002	0.002	0.002	0.002338	0.002643	0.003	0.008778886	0.003	0.008124662	0.001	0.002744	0.003274
A	PM25_RUNEX	0.00125	0.002161	0.001369	0.0015	0.016984	0.026235	0.020936	0.035772344	0.019919	0.005949903	0.001755	0.016033	0.032115
A	PM25_STREX	0.001978	0.003175	0.002108	0.00234	0.000273	0.000132	0.000122	1.43666E-06	0.000138	7.68828E-06	0.003626	3.27E-05	0.000371
A	ROG_DIURN	0.309455	0.678142	0.31136	0.378396	0.148603	0.080683	0.034629	0.00045564	0.065453	0.013225285	3.986797	0.020936	38.94924
A	ROG_HTSK	0.093693	0.191035	0.090889	0.109528	0.04011	0.021848	0.008675	0.000135519	0.018066	0.004594839	3.559817	0.00631	11.50157
A	ROG_IDLEX	0	0	0	0	0.024216	0.017714	0.030685	0.336069813	0.041898	0	0	0.173119	0
A	ROG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
A	ROG_RUNEX	0.012242	0.039367	0.015345	0.02644	0.114665	0.13931	0.071106	0.050011766	0.072225	0.063168523	1.214328	0.06436	0.123178
A	ROG_RUNLS	0.235045	0.558153	0.234635	0.29352	0.21251	0.11518	0.071045	0.001220861	0.073142	0.008128969	3.717016	0.013553	0.256068
A	ROG_STREX	0.377534	0.678454	0.469079	0.663137	0.136176	0.076777	0.059255	4.777E-07	0.104549	0.017217717	1.494194	0.025886	0.130451
A	SO2_IDLEX	0	0	0	0	8.75E-05	0.000135	0.001548	0.007873092	0.000807	0	0	0.001779	0
A	SO2_RUNEX	0.002634	0.003373	0.003592	0.004346	0.008157	0.008418	0.011904	0.015353196	0.01373	0.009480477	0.001876	0.010038	0.0168
A	SO2_STREX	0.000682	0.000908	0.000927	0.001114	0.000181	0.000108	9.36E-05	3.95547E-07	0.000169	3.29131E-05	0.000516	3.58E-05	0.00024
A	TOG_DIURN	0.309455	0.678142	0.31136	0.378396	0.148603	0.080683	0.034629	0.00045564	0.065453	0.013225285	0.088217	0.020936	38.94924
A	TOG_HTSK	0.093693	0.191035	0.090889	0.109528	0.04011	0.021848	0.008675	0.000135519	0.018066	0.004594839	3.559817	0.00631	11.50157
A	TOG_IDLEX	0	0	0	0	0.034526	0.024219	0.047486	0.565207661	0.055443	0	0	0.282561	0
A	TOG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
A	TOG_RUNEX	0.017827	0.057359	0.022368	0.037733	0.143496	0.163838	0.092465	0.183116743	0.093271	0.418504057	1.441721	0.168459	0.168335
A	TOG_RUNLS	0.235045	0.558153	0.234635	0.29352	0.21251	0.11518	0.071045	0.001220861	0.073142	0.008128969	3.717016	0.013553	0.256068
A	TOG_STREX	0.413351	0.742816	0.513582	0.726008	0.149096	0.084062	0.064876	5.23021E-07	0.114468	0.018851233	1.623911	0.028342	0.142828
A	N2O_IDLEX	0	0	0	0	0.000642	0.001673	0.025499	0.14139888	0.011957	0	0	0.026112	0
A	N2O_RUNEX	0.005403	0.01215	0.007689	0.011539	0.043708	0.084061	0.162967	0.268435053	0.156939	0.166429843	0.041922	0.13813	0.071367
A	N2O_STREX	0.033082	0.041997	0.041738	0.047009	0.037896	0.021819	0.006072	2.51656E-05	0.016155	0.007221707	0.009146	0.003776	0.029581

CalEEMod EMFAC2021 Fleet Mix Input

FleetMixLandUseSubType	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
	0.540455	0.045763	0.219871	0.122171	0.022751	0.005301	0.009461	0.006933	0.001073	0.000427	0.022127	0.000675	0.002992

Adjustment Factors

Vehicle Category	Fuel	Population	Pop Fract	VMT (miles/day)	VMT Fract	Trips/day	Trip Fract
HHDT	GAS	4.91167053	4.04903E-05	108.3320922	0.0001063	98.27270392	0.00081
HHDT	DSL	7945.65267	0.065501476	974275.6038	0.9558813	115958.8769	0.955929
HHDT	NG	604.485819	0.004983192	44859.31586	0.0440124	5247.791382	0.043261
		8555.05016		1019243.252		121304.941	
LDA	GAS	606787.977	0.195261961	22328684.33	0.9006487	2819030.851	0.907153
LDA	DSL	2097.28457	0.000674898	65438.92679	0.0026395	9106.700913	0.002931
LDA	ELEC	45687.5929	0.014702086	1848394.432	0.0745567	228454.0271	0.073516
LDA	PIH	12325.7494	0.003966377	549262.6478	0.022155	50966.97387	0.016401
		666898.604		24791780.34		3107558.553	
LDT1	GAS	56250.2008	0.223198723	1810348.739	0.9961671	251042.1447	0.996126
LDT1	DSL	32.0833283	0.000127305	503.068528	0.0002768	96.1477587	0.000382
LDT1	ELEC	176.877398	0.000701843	5945.758431	0.0032717	835.4181192	0.003315
LDT1	PIH	10.8247161	4.29521E-05	516.8070657	0.0002844	44.76020107	0.000178
		56469.9862		1817314.373		252018.4708	
LDT2	GAS	269286.094	0.211942967	9644865.293	0.9914313	1261290.796	0.992705
LDT2	DSL	883.652045	0.000695483	33892.88704	0.003484	4258.527289	0.003352
LDT2	ELEC	295.513362	0.000232585	10300.33172	0.0010588	1512.362029	0.00119
LDT2	PIH	845.839778	0.000665722	39165.02709	0.0040259	3497.54748	0.002753
		271311.099		9728223.539		1270559.233	
LHDT1	GAS	18933.4215	0.047685632	672783.0793	0.6620799	282079.7689	0.710445
LHDT1	DSL	9139.77716	0.023019403	343382.9252	0.3379201	114966.8989	0.289555
		28073.1986	0.070705035	1016166.005		397046.6678	
LHDT2	GAS	2465.99966	0.028023685	87553.13797	0.3573656	36739.72062	0.417511
LHDT2	DSL	4074.91137	0.046307401	157442.8322	0.6426344	51257.25882	0.582489
		6540.91103	0.074331086	244995.9702		87996.97944	
MCY	GAS	27304.1711	0.022127328	160382.2212	1	54608.34222	1
MDV	GAS	147596.411	0.211715716	5051242.336	0.9765837	682293.6698	0.978698
MDV	DSL	2291.71379	0.003287287	86017.73007	0.0166303	11013.96254	0.015799
MDV	ELEC	256.698991	0.000368215	9069.305494	0.0017534	1316.884036	0.001889
MDV	PIH	609.386777	0.000874119	26030.39053	0.0050326	2519.814322	0.003614
		150754.211		5172359.762		697144.3307	
MH	GAS	2769.69903	7.499882855	23630.01423	0.7256563	277.0806908	0.750288
MH	DSL	922.182812	2.497117192	8933.6317	0.2743437	92.21828121	0.249712
		3691.88184		32563.64593		369.2989721	
MHDT	GAS	1442.7352	0.009599056	67829.4691	0.1367234	28866.2459	0.192058
MHDT	DSL	10153.189	0.067552959	424633.4026	0.8559304	120691.3986	0.803005
MHDT	NG	78.3343314	0.000521188	3644.536924	0.0073463	742.048751	0.004937
		11674.2586		496107.4086		150299.6932	
OBUS	GAS	483.683802	0.026426627	22502.67818	0.2680743	9677.545507	0.528744
OBUS	DSL	834.688025	0.045604151	61084.28402	0.7276969	8576.672799	0.468596
OBUS	NG	5.46937064	0.000298825	354.9736968	0.0042288	48.67739869	0.00266
		1323.8412		83941.93589		18302.8957	
SBUS	GAS	153.636659	0.015155052	7565.400387	0.32898	614.546637	0.06062
SBUS	DSL	657.673104	0.064874295	15431.13438	0.67102	9523.106546	0.93938
SBUS	NG	21.6972703	0.002140266	560.930124	0.0243919	314.1764736	0.030991
		833.007034		22996.53477		10137.65318	
UBUS	GAS	45.675	0.021676301	4769.829538	0.0818022	182.7000001	0.086705
UBUS	DSL	434.626879	0.206263883	48602.55774	0.8335304	1738.507515	0.825056
UBUS	ELEC	5.04675694	0.03044884	199.0027319	0.0420024	20.18702775	0.121795
UBUS	NG	41.4363646	0.019664742	4737.889242	0.0812545	165.7454582	0.078659
		526.785		58309.27925		2107.140001	

Source: EMFAC2021 (v1.0.1) Emission Rates
Region Type: County
Region: Santa Clara
Calendar Year: 2021
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN

Region	Calendar Y	Vehicle Cat	Model Yea	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	Energy Con	NOx_RUNEX	NOx_IDLEX	NOx_STREX	PM2.5_RU	PM2.5_IDL	PM2.5_STR	PM2.5_PM	PM2.5_PM	PM10_RUN	PM10_IDLE	PM10_STR	PM10_PM	PM10_PMI	CO2_RUNEX	CO2_IDLEX	CO2_STREX	CH4_RUNEX	CH4_IDLEX	CH4_STREX	N2O_RUNEX	N2O_IDLEX	N2O_STREX	ROG_RUNEX	ROG_IDLEX	ROG_STREX	ROG_HOTSO	ROG_RUNL	ROG_DIUR	TOG_RUNEX	TOG_IDLEX	TOG_STREX	TOG_HOTSO	TOG_RUNL	TOG_DIUR	NH3_RUNEX	CO_RUNEX	CO_IDLEX	CO_STREX	SOx_RUNE	SOx_IDLEX	SOx_STREX
Santa Clara	2021	HHDT	Aggregate	Aggregate	Gasoline	4.911671	108.3321	108.3321	0	98.2727	0	12.52129	0	1.17477	0.00724	0	0.001773	0.005	0.038424	0.007874	0	0.001929	0.02	0.109784	2565.57	0	49.38815	0.549631	0	0.000108	0.290212	0	0.031064	3.502409	0	0.00059	0.16728	1.506995	11.25307	5.110707	0	0.000646	0.16728	1.506995	11.25307	0.037857	118.2833	0	0.353757	0.025363	0	0.000488
Santa Clara	2021	HHDT	Aggregate	Aggregate	Diesel	7945.653	974275.6	974275.6	0	115958.9	0	2.842904	68.7602	2.347489	0.03733	0.061163	0	0.008769	0.028367	0.039018	0.063929	0	0.035076	0.081048	1695.883	12693.22	0	0.002265	0.236268	0	0.267187	1.999821	0	0.048759	5.086789	0	0	0	0	0.055509	5.790922	0	0	0	0	0.19614	0.195075	67.59912	0	0.016059	0.120197	0
Santa Clara	2021	HHDT	Aggregate	Aggregate	Natural Ga	604.4858	44859.32	44859.32	0	5247.791	0	1.479487	13.79137	0	0.002003	0.021244	0	0.009	0.047481	0.002179	0.023105	0	0.036	0.13566	1449.478	10245.18	0	2.851947	36.48951	0	0.295486	2.088546	0	0.068879	0.577467	0	0	0	0	2.94267	37.30415	0	0	0	0	0.853048	15.08309	73.72785	0	0	0	0
Santa Clara	2021	LDA	Aggregate	Aggregate	Gasoline	606788	22328684	22328684	0	2819031	0	0.061526	0	0.306099	0.001307	0	0.002137	0.002	0.002656	0.001421	0	0.002324	0.008	0.007589	291.5075	0	74.80132	0.003309	0	0.086516	0.005874	0	0.036086	0.013455	0	0.413042	0.102567	0.258475	1.575398	0.019625	0	0.452227	0.102567	0.258475	1.575398	0.031893	0.916686	0	3.92511	0.002882	0	0.000739
Santa Clara	2021	LDA	Aggregate	Aggregate	Diesel	2097.285	65438.93	65438.93	0	9106.701	0	0.289351	0	0	0.021136	0	0	0.002	0.002681	0.022092	0	0	0.008	0.007659	237.7247	0	0	0.00159	0	0	0.037454	0	0	0.034231	0	0	0	0	0	0.03897	0	0	0	0	0	0.0031	0.362693	0	0	0.002253	0	0
Santa Clara	2021	LDA	Aggregate	Aggregate	Electricity	45687.59	1848394	0	1848394	228454	713632.8	0	0	0	0	0	0	0.002	0.001529	0	0	0	0.008	0.00437	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2021	LDA	Aggregate	Aggregate	Plug-in Hyb	12325.75	549262.6	292344.2	256918.4	50966.97	77597.02	0.003493	0	0.11551	0.000782	0	0.002436	0.002	0.001363	0.00085	0	0.002649	0.008	0.003895	148.3928	0	67.90667	0.00048	0	0.042861	0.00064	0	0.021155	0.00151	0	0.173285	0.039575	0.034683	0.463886	0.002204	0	0.189725	0.039575	0.034683	0.463886	0.01985	0.228959	0	1.339893	0.001467	0	0.000671
Santa Clara	2021	LDT1	Aggregate	Aggregate	Gasoline	56250.2	1810349	1810349	0	251042.1	0	0.178236	0	0.45509	0.002102	0	0.003187	0.002	0.003233	0.002285	0	0.003465	0.008	0.009237	342.3532	0	92.17037	0.008673	0	0.128174	0.012178	0	0.042157	0.039434	0	0.681062	0.191773	0.56032	3.038222	0.057483	0	0.745671	0.191773	0.56032	3.038222	0.035289	1.855747	0	6.610145	0.003385	0	0.000911
Santa Clara	2021	LDT1	Aggregate	Aggregate	Diesel	32.08333	503.0685	503.0685	0	96.14776	0	1.666847	0	0	0.24162	0	0	0.002	0.003734	0.252545	0	0	0.008	0.010668	415.5911	0	0	0.014019	0	0	0.065477	0	0	0.301811	0	0	0	0	0	0.343592	0	0	0	0	0	0.0031	1.617036	0	0	0.003938	0	0
Santa Clara	2021	LDT1	Aggregate	Aggregate	Electricity	176.8774	5945.758	0	5945.758	835.4181	2295.553	0	0	0	0	0	0	0.002	0.001541	0	0	0	0.008	0.004403	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2021	LDT1	Aggregate	Aggregate	Plug-in Hyb	10.82472	516.8071	263.2288	253.5783	44.7602	76.5882	0.003342	0	0.11551	0.000498	0	0.001651	0.002	0.001365	0.000541	0	0.001795	0.008	0.0039	142.0049	0	74.72169	0.000461	0	0.043003	0.000616	0	0.021287	0.001445	0	0.173285	0.026876	0.026052	0.339589	0.021392	0.219103	0	0.189725	0.026876	0.026052	0.339589	0.021392	0.219103	0	1.339893	0.001404	0	0.000739
Santa Clara	2021	LDT2	Aggregate	Aggregate	Gasoline	269286.1	9644865	9644865	0	1261291	0	0.099372	0	0.421535	0.001357	0	0.002117	0.002	0.003124	0.001476	0	0.002303	0.008	0.008925	364.8211	0	94.21995	0.003765	0	0.098308	0.007574	0	0.041886	0.015421	0	0.472046	0.091479	0.236284	1.467935	0.022495	0	0.51683	0.091479	0.236284	1.467935	0.033775	1.034906	0	4.394297	0.003607	0	0.000931
Santa Clara	2021	LDT2	Aggregate	Aggregate	Diesel	883.652	33892.89	33892.89	0	4258.527	0	0.053343	0	0	0.00583	0	0	0.002	0.003073	0.006094	0	0	0.008	0.00878	323.8235	0	0	0.000676	0	0	0.051019	0	0	0.01456	0	0	0	0	0	0.016576	0	0	0	0	0	0.0031	0.133207	0	0	0.003068	0	0
Santa Clara	2021	LDT2	Aggregate	Aggregate	Electricity	295.5134	10300.33	0	10300.33	1512.362	3976.778	0	0	0	0	0	0	0.002	0.001524	0	0	0	0.008	0.004355	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2021	LDT2	Aggregate	Aggregate	Plug-in Hyb	845.8398	39165.03	20268.11	18896.92	3497.547	5707.433	0.003396	0	0.11551	0.000672	0	0.002194	0.002	0.001364	0.000731	0	0.002386	0.008	0.003897	144.2823	0	81.05617	0.000467	0	0.042925	0.000624	0	0.021215	0.001468	0	0.173285	0.027973	0.027304	0.362073	0.002143	0	0.189725	0.027973	0.027304	0.362073	0.021638	0.222617	0	1.339893	0.001426	0	0.000801
Santa Clara	2021	LHDT1	Aggregate	Aggregate	Gasoline	18933.42	672783.1	672783.1	0	282079.8	0	0.256798	0.039718	0.701068	0.001752	0	0.000385	0.002	0.0273	0.001905	0	0.000418	0.008	0.078	931.4507	122.4688	25.83191	0.012061	0.120812	0.03785	0.014272	0.003066	0.053341	0.061014	0.454849	0.191678	0.056457	0.299122	3.116304	0.089031	0.663714	0.209863	0.056457	0.299122	3.116304	0.044832	1.411296	3.747334	2.989075	0.009208	0.001211	0.000255
Santa Clara	2021	LHDT1	Aggregate	Aggregate	Diesel	9139.777	343382.9	343382.9	0	114966.9	0	2.358079	2.271347	0	0.04683	0.027404	0	0.003	0.0273	0.048947	0.028643	0	0.012	0.078	643.496	136.5842	0	0.010209	0.005098	0	0.101383	0.021519	0	0.219784	0.10976	0	0	0	0	0.25021	0.124954	0	0	0	0	0.146324	0.639056	0.909745	0	0.006097	0.001294	0
Santa Clara	2021	LHDT2	Aggregate	Aggregate	Gasoline	2466	87553.14	87553.14	0	36739.72	0	0.242157	0.039344	0.681173	0.001604	0	0.000316	0.002	0.03185	0.001745	0	0.000344	0.008	0.091	1035.79	141.0887	26.12054	0.009565	0.120729	0.036622	0.013821	0.003071	0.05226	0.045738	0.450754	0.183893	0.052329	0.275873	2.879115	0.066741	0.657739	0.20134	0.052329	0.275873	2.879115	0.044945	1.150578	3.751518	3.098774	0.01024	0.001395	0.000258
Santa Clara	2021	LHDT2	Aggregate	Aggregate	Diesel	4074.911	157442.8	157442.8	0	51257.26	0	1.819669	2.235115	0	0.039933	0.027151	0	0.003	0.03185	0.044738	0.028379	0	0.012	0.091	781.4731	217.5251	0	0.008888	0.005098	0	0.123121	0.034271	0	0.191344	0.10976	0	0	0	0	0.217833	0.124954	0	0	0	0	0.165331	0.517738	0.909745	0	0.007405	0.002061	0
Santa Clara	2021	MCY	Aggregate	Aggregate	Gasoline	27304.17	1603822.2	160382.2	0	54608.34	0	0.626062	0	0.157064	0.001755	0	0.003626	0.001	0.0042	0.001872	0	0.003843	0.004	0.012	189.7631	0	52.22767	0.180174	0	0.199348	0.041922	0	0.009146	1.214328	0	1.494194	3.559817	3.717016	3.986797	1.441721	0	1.623911	3.559817	3.717016	3.986797	0.008645	14.15601	0	8.172263	0.001876	0	0.000516
Santa Clara	2021	MDV	Aggregate	Aggregate	Gasoline	147596.4	5051242	5051242	0	682293.7	0	0.160894	0	0.57169	0.001434	0	0.002382	0.002	0.003201	0.001559	0	0.002589	0.008	0.009147	442.5348	0	114.8138	0.005886	0	0.129321	0.010684	0	0.047954	0.026856	0	0.67693	0.1118	0.299795	1.785601	0.038387	0	0.741109	0.1118	0.299795	1.785601	0.033755	1.329778	0	5.04226	0.004375	0	0.001135
Santa Clara	2021	MDV	Aggregate	Aggregate	Diesel	2291.714	86017.73	86017.73	0	11013.96	0	0.063349	0	0	0.005706	0	0	0.002	0.00312	0.005964	0	0	0.008	0.008916	420.7053	0	0	0.000573	0	0	0.066282	0	0	0.012335	0	0	0	0	0	0.014043	0	0	0	0	0	0.0031	0.203492	0	0	0.003986	0	0
Santa Clara	2021	MDV	Aggregate	Aggregate	Electricity	256.699	9069.305	0	9069.305	1316.884	3501.5	0	0	0	0	0	0	0.002	0.001522	0	0	0	0.008	0.004349	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2021	MDV	Aggregate	Aggregate	Plug-in Hyb	609.3868	26030.39	13830.97	12199.42	2519.814	3684.588	0.003487	0	0.11551	0.000845	0	0.002679	0.002	0.001363	0.00092	0	0.002914	0.008	0.003894	148.1394	0	101.4945	0.000477	0	0.042643	0.000633	0	0.020952	0.001508	0	0.173285	0.030476	0.030968	0.408082	0.0022	0	0.189725	0.030476	0.030968	0.408082	0.022316	0.228568	0	1.339893	0.001465	0	0.001003
Santa Clara	2021	MH	Aggregate	Aggregate	Gasoline	2769.699	23630.01	23630.01	0	277.0807	0	0.627675	0	0.395766	0.002059	0	0.000494	0.003	0.015756	0.002239	0	0.000538	0.012	0.045017	1950.365	0	32.39866	0.025366	0	0.038961	0.034003	0	0.039426	0.120744	0	0.173868	15.32954	0.341293	5.193314	0.176189	0	0.190364	15.32954	0.341293	5.193314	0.044424	3.344602	0	3.937518	0.019281	0	0.00032
Santa Clara	2021	MH	Aggregate	Aggregate	Diesel	922.1828	8933.632	8933.632	0	92.21828	0	4.615076	0	0	0.111614	0	0	0.004	0.015675	0.116661	0	0	0.016	0.044785	1080.28	0	0	0.00602	0	0	0.170198	0	0	0.129617	0	0	0	0	0	0.14756	0	0	0	0	0	0.137198	0.438429	0	0	0.010236	0	0
Santa Clara	2021	MHDT	Aggregate	Aggregate	Gasoline	1442.735	67829.47	67829.47	0	28866.25	0	0.831489	0.087806	0.473646	0.001493	0	0.000635	0.003	0.015756	0.001624	0	0.00069	0.012	0.045017	1848.545	547.8914	49.28763	0.027494	0.244939	0.052883	0.036408	0.006525	0.031617	0.14124	1.002561	0.308525	0.045168	0.369912	3.607527	0.206097	1.462934	0.337796	0.045168	0.369912	3.607527	0.044883	3.016915	14.99869	6.909591	0.018275	0.005416	0.000487
Santa Clara	2021	MHDT	Aggregate	Aggregate	Diesel	10153.19	424633.4	424633.4	0	120691.4	0	1.894718	16.09448	1.444966	0.024213	0.051093	0	0.003	0.015941	0.025308	0.053403	0	0.012	0.045546	1160.391	2338.117	0	0.002807	0.014388	0	0.18282	0.368371	0	0.060425	0.309775	0	0	0	0	0.068789	0.352655	0	0	0	0	0.192868	0.190198	7.288171	0	0.010988	0.022141	0
Santa Clara	2021	MHDT	Aggregate	Aggregate	Natural Ga	78.33433	3644.537	3644.537	0	742.0488	0	0.168911	6.475626	0	0.000993	0.01576	0	0.003	0.016009	0.00108	0.01714	0	0.012	0.04574	1007.079	5194.634	0	0.721288	18.08715	0	0.2053	1.05896	0	0.010306	0.25843	0	0	0	0	0.736127	18.45926	0	0	0	0	1.06	2.987554	29.49823	0	0	0	0
Santa Clara	2021	OBUS	Aggregate	Aggregate	Gasoline	483.6838	22502.68	22502.68	0	9677.546	0	0.647154	0.064946	0.407221	0.000833	0	0.00026	0.003	0.01568	0.000906	0	0.000283	0.012	0.044799	1824.237	386.5099	32.42022	0.018667	0.194146	0.037204	0.030004	0.005187	0.030554	0.092334	0.744545	0.197731	0.034167	0.138331	2.476771	0.134734	1.086438	0.21649	0.034167	0.138331	2.476771	0.0449	2.094066	5.764227	4.193973	0.018034	0.003821	0.000321
Santa Clara	2021	OBUS	Aggregate	Aggregate	Diesel	834.688	61084.28	61084.28	0	8576.673	0	1.576242	9.183516	1.420449	0.027062	0.016448	0	0.003	0.018131	0.028286	0.017191	0	0.012	0.051804	1290.86	1635.121	0	0.003027	0.022612	0	0.203376	0.257614	0	0.065176	0.48683	0	0	0	0	0.074198	0.554219	0	0	0	0	0.206149	0.214603	7.255191	0	0.012224	0.015484	0
Santa Clara	2021	OBUS	Aggregate	Aggregate	Natural Ga	5.469371	354.9737	354.9737	0	48.6774	0	0.296201	1.581355	0	0.000557	0.002851	0	0.003	0.016148	0.000605	0.003101	0	0.012	0.046137	1044.502	1172.359	0	0.731981	4.779418	0	0.212928	0.238993	0	0.010459	0.068288	0	0	0	0	0.74704	4.877746	0	0	0	0	1.06	3.098562	4.989923	0	0	0	0
Santa Clara	2021	SBUS	Aggregate	Aggregate	Gasoline	153.6367	7565.4	7565.4	0	614.5466	0	0.533764	0.925451	0.67372	0.000841	0	0.00054	0.002	0.015721	0.000915	0	0.000587	0.008	0.044917	825.4164	2631.972	59.70541	0.013058	2.453844	0.074718	0.028424	0.08626	0.062288	0.063594	10.62574	0.427027	0.104098	0.223574	1.381476	0.092797	15.50505	0.467541	0.104098	0.223574	1.381476	0.045	1.630235	82.14507	10.90196	0.00816	0.02602	0.00059
Santa Clara	2021	SBUS	Aggregate	Aggregate	Diesel	657.6731	15431.13	15431.13	0	9523.107	0	4.438199	23.32594	0.434289	0.023358	0.024671	0	0.003	0.015721	0.024414	0.025786	0	0.012	0.044917	1157.296	2254.332	0	0.00292	0.008308	0	0.182332	0.355171	0	0.06286	0.178878	0	0	0	0	0.071561	0.203639	0	0	0	0	0.136384	0.189608	4.398329	0	0.010959	0.021347	0
Santa Clara	2021	SBUS	Aggregate	Aggregate	Natural Ga	21.69727	560.9301	560.9301	0	314.1765	0	0.631341	5.309646	0	0.003378	0.010433	0	0.003	0.015721	0.003674	0.011347	0	0.012	0.044917	1293.196	4040.723	0	3.611806	15.73509	0	0.263627	0.823728	0	0.051606	0.224823	0	0	0	0	3.686113	16.05882	0	0	0	0	1.06	12.47317	18.66291	0	0	0	0
Santa Clara	2021	UBUS	Aggregate	Aggregate	Gasoline	45.675	4769.83	4769.83	0	182.7	0	0.032133	0	0.568854	0.000898	0	8.87E-05	0.002	0.03185	0.000977	0	9.64E-05	0.008	0.091	974.9499	0	38.39745	0.002378	0	0.0539	0.00477	0	0.08329	0.006763	0	0.198578	0.052994	0.093754	0.610126	0.009869	0	0.217418	0.052994	0.093754	0.610126	0.045	0.578479	0	5.701642	0.009638	0	0.000338
Santa Clara	2021	UBUS	Aggregate	Aggregate	Diesel	434.6269	48602.56	48602.56	0	1738.508	0	0.386258	0	0	0.007023	0	0	0.0083	0.0385	0.00734	0	0	0.033201	0.11	1100.519	0	0	0.003215	0	0	0.173387	0	0	0.069208	0	0	0	0	0	0.078788	0	0	0	0	0	0.1877	0.079368	0	0	0.010428	0	0
Santa Clara	2021	UBUS	Aggregate	Aggregate	Electricity	5.046757	199.0027	0	199.0027	20.18703	346.9103	0	0	0	0	0	0	0.009	0.01925	0	0	0	0.036	0.055	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2021	UBUS	Aggregate	Aggregate	Natural Ga	41.43636	4737.889	4737.889	0	165.7455	0	0.058764	0	0	0.000282	0	0	0.00818	0.0385	0.000295	0	0	0.032718	0.11	1298.95	0	0	4.245038	0	0	0.264799	0	0	0.060653	0	0	0	0	0	4.332372	0	0	0	0	0	0.97	49.03001	0	0	0	0	0

Construction Emissions and Health Risk Calculations

Construction Emissions for Health Risk Modeling
District Utilities

DPM Emissions and Modeling Emission Rates - Unmitigated

Construction Year	Phase	Construction Area	Area Source	DPM (ton/year)	DPM Emissions (lb/yr)	DPM Emissions (lb/hr)	DPM Emissions (g/s)	Modeled Area (m^2)	DPM Emission Rate ($g/s/m^2$)
2023	Phase 1: R1+R2	R1-R2	DP1_R1-R2_23	0.3112	622.5	0.18137	2.29E-02	24,144.4	**9.46E-07**
2023	Phase 1: R6 Affordable	R6	DP1_R6_23	0.1246	249.1	0.07259	9.15E-03	6,896.4	**1.33E-06**
					0.0				
2024	Phase 1: R1+R2	R1-R2	DP1_R1-R2_24	0.0630	125.9	0.03669	4.62E-03	24,144.4	**1.91E-07**
2024	Phase 1: R6 Affordable	R6	DP1_R6_24	0.0293	58.5	0.01705	2.15E-03	6,896.4	**3.12E-07**
2024	Phase 1: Infrastructure R1+R2	R1-R2	DP1I_R1-2_24	0.0078	15.6	0.00455	5.73E-04	24,144.4	**2.37E-08**
2024	Phase 1: Infrastructure R6 Aff	R6	DP1I_R6_24	0.0022	4.5	0.00130	1.64E-04	6,896.4	**2.37E-08**
2024	Phase 2: O1 & O2	O1	DP2_O1_24	0.0125	24.9	0.00726	9.15E-04	17,017.0	**5.38E-08**
2024	Phase 2: O1 & O2	O2	DP2_O2_24	0.0135	27.0	0.00786	9.90E-04	18,426.7	**5.38E-08**
2025	Phase 1: R1+R2	R1-R2	DP1_R1-R2_25	0.0107	21.5	0.00626	7.88E-04	24,144.4	**3.27E-08**
2025	Phase 1: R6 Affordable	R6	DP1_R6_25	0.0012	2.3	0.00067	8.50E-05	6,896.4	**1.23E-08**
2025	Phase 1: Infrastructure R1+R2	R1-R2	DP1I_R1-2_25	0.0109	21.9	0.00637	8.03E-04	24,144.4	**3.32E-08**
2025	Phase 1: Infrastructure R6 Aff	R6	DP1I_R6_25	0.0031	6.2	0.00182	2.29E-04	6,896.4	**3.32E-08**
2025	Phase 2: O1 & O2	O1	DP2_O1_25	0.1327	265.4	0.07732	9.74E-03	17,017.0	**5.73E-07**
2025	Phase 2: O1 & O2	O2	DP2_O2_25	0.1437	287.4	0.08373	1.05E-02	18,426.7	**5.73E-07**
						0.00000	0.00E+00		
2026	Phase 2: O1 & O2	O1	DP2_O1_26	0.0364	72.8	0.02120	2.67E-03	17,017.0	**1.57E-07**
2026	Phase 2: O1 & O2	O2	DP2_O2_26	0.0394	78.8	0.02295	2.89E-03	18,426.7	**1.57E-07**
2026	Phase 2: Infrastructure O1 & O2	O1	DP2_I_O1_26	0.0065	12.9	0.00376	4.74E-04	17,017.0	**2.78E-08**
2026	Phase 2: Infrastructure O1 & O2	O2	DP2_I_O2_26	0.0070	14.0	0.00407	5.13E-04	18,426.7	**2.78E-08**
2026	Phase 3: R3+R4b+R5	R3-R5	DP3_R3-R5_26	0.2543	508.6	0.14820	1.87E-02	29,349.6	**6.36E-07**
2026	Phase 3: R4 Affordable	R4A	DP3_R4A_26	0.0170	34.1	0.00993	1.25E-03	11,500.8	**1.09E-07**
2026	Phase 4: O3-O5+P1+P2	O3-O5&P1-P2	DP4_O-P_26	0.2696	539.1	0.15709	1.98E-02	67,575.5	**2.93E-07**
2027	Phase 2: O1 & O2	O1	DP2_O1_27	0.0145	29.1	0.00847	1.07E-03	17,017.0	**6.27E-08**
2027	Phase 2: O1 & O2	O2	DP2_O2_27	0.0157	31.5	0.00917	1.16E-03	18,426.7	**6.27E-08**
2027	Phase 2: Infrastructure O1 & O2	O1	DP2_I_O1_27	0.0104	20.8	0.00606	7.64E-04	17,017.0	**4.49E-08**
2027	Phase 2: Infrastructure O1 & O2	O2	DP2_I_O2_27	0.0113	22.5	0.00656	8.27E-04	18,426.7	**4.49E-08**
2027	Phase 3: R3+R4b+R5	R3-R5	DP3_R3-R5_27	0.0727	145.4	0.04237	5.34E-03	29,349.6	**1.82E-07**
2027	Phase 3: R4 Affordable	R4A	DP3_R4A_27	0.0993	198.5	0.05785	7.29E-03	11,500.8	**6.34E-07**
2027	Phase 3: Infrastructure R3+R4+R5	R3-R5	DP3I_R3-5_27	0.0172	34.3	0.01000	1.26E-03	29,349.6	**4.29E-08**
2027	Phase 4: O3-O5+P1+P2	O3-O5&P1-P2	DP4_O-P_27	0.0855	171.0	0.04982	6.28E-03	67,575.5	**9.29E-08**
2028	Phase 2: O1 & O2	O1	DP2_O1_28	0.0199	39.8	0.01161	1.46E-03	17,017.0	**8.59E-08**
2028	Phase 2: O1 & O2	O2	DP2_O2_28	0.0216	43.1	0.01257	1.58E-03	18,426.7	**8.59E-08**
2028	Phase 3: R3+R4b+R5	R3-R5	DP3_R3-R5_28	0.0410	82.1	0.02391	3.01E-03	29,349.6	**1.03E-07**
2028	Phase 3: R4 Affordable	R4A	DP3_R4A_28	0.0198	39.7	0.01156	1.46E-03	11,500.8	**1.27E-07**
2028	Phase 4: O3-O5+P1+P2	O3-O5&P1-P2	DP4_O-P_28	0.1201	240.2	0.06999	8.82E-03	67,575.5	**1.31E-07**
2028	Phase 4: Infrastructure O3-O5+P1+P2	O3-O5&P1-P2	DP4_I_O-P_28	0.0114	22.9	0.00667	8.40E-04	67,575.5	**1.24E-08**
2029	Phase 2: O1 & O2	O1	DP2_O1_29	0.0076	15.3	0.00445	5.60E-04	17,017.0	**3.29E-08**
2029	Phase 2: O1 & O2	O2	DP2_O2_29	0.0083	16.5	0.00482	6.07E-04	18,426.7	**3.29E-08**
2029	Phase 3: R3+R4b+R5	R3-R5	DP3_R3-R5_29	0.0320	64.0	0.01866	2.35E-03	29,349.6	**8.01E-08**
2029	Phase 4: O3-O5+P1+P2	O3-O5&P1-P2	DP4_O-P_29	0.0322	64.4	0.01876	2.36E-03	67,575.5	**3.50E-08**
2030	Phase 3: R3+R4b+R5	R3-R5	DP3_R3-R5_30	0.0008	1.6	0.00048	6.03E-05	29,349.6	**2.05E-09**
2030	Phase 4: O3-O5+P1+P2	O3-O5&P1-P2	DP4_O-P_30	0.0137	27.5	0.00800	1.01E-03	67,575.5	**1.49E-08**
2031	Phase 4: O3-O5+P1+P2	O3-O5&P1-P2	DP4_O-P_31	0.0041	8.2	0.00239	3.01E-04	67,575.5	**4.46E-09**
Total				***2.16***	***4311.4***	***1.2562***	***0.1583***		

Operation Hours		
hr/day =	11	(7am - 6pm Mon-Sat)
days/yr =	312	
hours/year =	3432	

PM2.5 Fugitive Dust Emissions for Modeling - Unmitigated

Construction Year	Phase	Construction Area	Area Source	PM2.5 Emissions (ton/year)	PM2.5 Emissions (lb/yr)	PM2.5 Emissions (lb/hr)	PM2.5 Emissions (g/s)	Modeled Area (m^2)	PM2.5 Emission Rate $g/s/m^2$
2023	Phase 1: R1+R2	R1-R2	FP1_R1-R2_23	0.7288	1457.7	0.42473	5.35E-02	24,144	**2.22E-06**
2023	Phase 1: R6 Affordable	R6	FP1_R6_23	0.3130	626.1	0.18243	2.30E-02	6,896	**3.33E-06**
2024	Phase 1: R1+R2	R1-R2	FP1_R1-R2_24	0.0076	15.2	0.00443	5.58E-04	24,144	**2.31E-08**
2024	Phase 1: R6 Affordable	R6	FP1_R6_24	0.0015	3.1	0.00090	1.14E-04	6,896	**1.65E-08**
2024	Phase 1: Infrastructure R1+R2	R1-R2	FP1I_R1_2_24	*0.00005*	0.1	0.00003	3.91E-06	24,144	**1.62E-10**
2024	Phase 1: Infrastructure R6 Aff	R6	FP1I__R6_24	*0.00002*	0.0	0.00001	1.12E-06	6,896	**1.62E-10**
2024	Phase 2: O1 & O2	O1	FP2_O1_24	0.00378	7.6	0.00220	2.78E-04	17,017	**1.63E-08**
2024	Phase 2: O1 & O2	O2	FP2_O2_24	0.00410	8.2	0.00239	3.01E-04	18,427	**1.63E-08**
2025	Phase 1: R1+R2	R1-R2	FP1_R1-R2_25	0.00249	5.0	0.00145	1.83E-04	24,144	**7.58E-09**
2025	Phase 1: R6 Affordable	R6	FP1_R6_25	0.00027	0.5	0.00016	1.96E-05	6,896	**2.84E-09**
2025	Phase 1: Infrastructure R1+R2	R1-R2	FP1I_R1-2_25	0.00008	0.2	0.00005	6.11E-06	24,144	**2.53E-10**
2025	Phase 1: Infrastructure R6 Aff	R6	FP1I__R6_25	0.00002	0.0	0.00001	1.75E-06	6,896	**2.53E-10**
2025	Phase 2: O1 & O2	O1	FP2_O1_25	0.47818	956.4	0.27866	3.51E-02	17,017	**2.06E-06**
2025	Phase 2: O1 & O2	O2	FP2_O2_25	0.51779	1035.6	0.30174	3.80E-02	18,427	**2.06E-06**
2026	Phase 2: O1 & O2	O1	FP2_O1_26	0.00258	5.2	0.00150	1.89E-04	17,017	**1.11E-08**
2026	Phase 2: O1 & O2	O2	FP2_O2_26	0.00279	5.6	0.00163	2.05E-04	18,427	**1.11E-08**
2026	Phase 2: Infrastructure O1 & O2	O1	FP2_I_O1_26	0.00004	0.1	0.00002	3.10E-06	17,017	**1.82E-10**
2026	Phase 2: Infrastructure O1 & O2	O2	FP2_I_O2_26	0.00005	0.1	0.00003	3.36E-06	18,427	**1.82E-10**
2026	Phase 3: R3+R4b+R5	R3-R5	FP3_R3-R5_26	0.92516	1850.3	0.53914	6.79E-02	29,350	**2.31E-06**
2026	Phase 3: R4 Affordable	R4A	FP3_R4A_26	0.00212	4.2	0.00124	1.56E-04	11,501	**1.35E-08**
2026	Phase 4: O3-O5+P1+P2	O3-O5&P1-P2	FP4_O-P_26	0.83080	1661.6	0.48415	6.10E-02	67,576	**9.03E-07**
2027	Phase 2: O1 & O2	O1	FP2_O1_27	0.00258	5.2	0.00150	1.89E-04	17,017	**1.11E-08**
2027	Phase 2: O1 & O2	O2	FP2_O2_27	0.00279	5.6	0.00163	2.05E-04	18,427	**1.11E-08**
2027	Phase 2: Infrastructure O1 & O2	O1	FP2_I_O1_27	0.00007	0.1	0.00004	4.98E-06	17,017	**2.93E-10**
2027	Phase 2: Infrastructure O1 & O2	O2	FP2_I_O2_27	0.00007	0.1	0.00004	5.40E-06	18,427	**2.93E-10**
2027	Phase 3: R3+R4b+R5	R3-R5	FP3_R3-R5_27	0.01036	20.7	0.00604	7.61E-04	29,350	**2.59E-08**
2027	Phase 3: R4 Affordable	R4A	FP3_R4A_27	0.29508	590.2	0.17196	2.17E-02	11,501	**1.88E-06**
2027	Phase 3: Infrastructure R3+R4+R5	R3-R5	FP3I_R3_5_27	0.00013	0.3	0.00008	9.66E-06	29,350	**3.29E-10**
2027	Phase 4: O3-O5+P1+P2	O3-O5&P1-P2	FP4_O-P_27	0.00717	14.3	0.00418	5.26E-04	67,576	**7.79E-09**
2028	Phase 2: O1 & O2	O1	FP2_O1_28	0.00258	5.2	0.00151	1.90E-04	17,017	**1.11E-08**
2028	Phase 2: O1 & O2	O2	FP2_O2_28	0.00280	5.6	0.00163	2.05E-04	18,427	**1.11E-08**
2028	Phase 3: R3+R4b+R5	R3-R5	FP3_R3-R5_28	0.01039	20.8	0.00605	7.63E-04	29,350	**2.60E-08**
2028	Phase 3: R4 Affordable	R4A	FP3_R4A_28	0.00167	3.3	0.00097	1.23E-04	11,501	**1.07E-08**
2028	Phase 4: O3-O5+P1+P2	O3-O5&P1-P2	FP4_O-P_28	0.00719	14.4	0.00419	5.28E-04	67,576	**7.81E-09**
2028	Phase 4: Infrastructure O3-O5+P1+P2	O3-O5&P1-P2	FP4_I_O-P_28	0.00009	0.2	0.00005	6.44E-06	67,576	**9.53E-11**
2029	Phase 2: O1 & O2	O1	FP2_O1_29	0.00136	2.7	0.00079	9.95E-05	17,017	**5.85E-09**
2029	Phase 2: O1 & O2	O2	FP2_O2_29	0.00147	2.9	0.00086	1.08E-04	18,427	**5.85E-09**
2029	Phase 3: R3+R4b+R5	R3-R5	FP3_R3-R5_29	0.01036	20.7	0.00604	7.61E-04	29,350	**2.59E-08**
2029	Phase 4: O3-O5+P1+P2	O3-O5&P1-P2	FP4_O-P_29	0.00717	14.3	0.00418	5.26E-04	67,576	**7.79E-09**
2030	Phase 3: R3+R4b+R5	R3-R5	FP3_R3-R5_30	0.00060	1.2	0.00035	4.38E-05	29,350	**1.49E-09**
2030	Phase 4: O3-O5+P1+P2	O3-O5&P1-P2	FP4_O-P_30	0.00717	14.3	0.00418	5.26E-04	67,576	**7.79E-09**
2031	Phase 4: O3-O5+P1+P2	O3-O5&P1-P2	FP4_O-P_31	0.00214	4.3	0.00125	1.57E-04	67,576	**2.33E-09**
Total				***4.19***	***8389.1***	***2.4444***	***0.3080***		

DPM Emissions and Modeling Emission Rates - Mitigated

Construction Year	Phase	Construction Area	Area Source	DPM (ton/year)	DPM Emissions (lb/yr)	DPM Emissions (lb/hr)	DPM Emissions (g/s)	Modeled Area (m^2)	DPM Emission Rate ($g/s/m^2$)
2023	Phase 1: R1+R2	R1-R2	DP1_R1-R2_23	0.0290	57.9	0.01688	2.13E-03	24,144.4	**8.81E-08**
2023	Phase 1: R6 Affordable	R6	DP1_R6_23	0.0088	17.7	0.00516	6.50E-04	6,896.4	**9.42E-08**
2024	Phase 1: R1+R2	R1-R2	DP1_R1-R2_24	0.0106	21.1	0.00000 0.00616	7.76E-04	24,144.4	**3.21E-08**
2024	Phase 1: R6 Affordable	R6	DP1_R6_24	0.0030	6.0	0.00175	2.20E-04	6,896.4	**3.20E-08**
2024	Phase 1: Infrastructure R1+R2	R1-R2	DP1I_R1-2_24	*0.0006*	1.2	0.00035	4.43E-05	24,144.4	**1.83E-09**
2024	Phase 1: Infrastructure R6 Aff	R6	DP1I_R6_24	*0.0002*	0.3	0.00010	1.26E-05	6,896.4	**1.83E-09**
2024	Phase 2: O1 & O2	O1	DP2_O1_24	*0.0014*	2.7	0.00079	9.97E-05	17,017.0	**5.86E-09**
2024	Phase 2: O1 & O2	O2	DP2_O2_24	*0.0015*	2.9	0.00086	1.08E-04	18,426.7	**5.86E-09**
2025	Phase 1: R1+R2	R1-R2	DP1_R1-R2_25	0.0029	5.8	0.00168	2.12E-04	24,144.4	**8.78E-09**
2025	Phase 1: R6 Affordable	R6	DP1_R6_25	0.0003	0.6	0.00016	2.04E-05	6,896.4	**2.95E-09**
2025	Phase 1: Infrastructure R1+R2	R1-R2	DP1I_R1-2_25	*0.0009*	1.9	0.00055	6.88E-05	24,144.4	**2.85E-09**
2025	Phase 1: Infrastructure R6 Aff	R6	DP1I_R6_25	*0.0003*	0.5	0.00016	1.97E-05	6,896.4	**2.85E-09**
2025	Phase 2: O1 & O2	O1	DP2_O1_25	*0.0155*	31.1	0.00906	1.14E-03	17,017.0	**6.70E-08**
2025	Phase 2: O1 & O2	O2	DP2_O2_25	*0.0168*	33.7	0.00981	1.24E-03	18,426.7	**6.70E-08**
2026	Phase 2: O1 & O2	O1	DP2_O1_26	*0.0059*	11.8	0.00343	4.32E-04	17,017.0	**2.54E-08**
2026	Phase 2: O1 & O2	O2	DP2_O2_26	*0.0064*	12.8	0.00372	4.68E-04	18,426.7	**2.54E-08**
2026	Phase 2: Infrastructure O1 & O2	O1	DP2_I_O1_26	*0.0006*	1.1	0.00033	4.10E-05	17,017.0	**2.41E-09**
2026	Phase 2: Infrastructure O1 & O2	O2	DP2_I_O2_26	*0.0006*	1.2	0.00035	4.44E-05	18,426.7	**2.41E-09**
2026	Phase 3: R3+R4b+R5	R3-R5	DP3_R3-R5_26	0.0301	60.2	0.01755	2.21E-03	29,349.6	**7.53E-08**
2026	Phase 3: R4 Affordable	R4A	DP3_R4A_26	0.0016	3.2	0.00094	1.18E-04	11,500.8	**1.03E-08**
2026	Phase 4: O3-O5+P1+P2	O3-O5&P1-P2	DP4_O-P_26	0.0276	55.1	0.01606	2.02E-03	67,575.5	**3.00E-08**
2027	Phase 2: O1 & O2	O1	DP2_O1_27	*0.0038*	7.7	0.00224	2.82E-04	17,017.0	**1.66E-08**
2027	Phase 2: O1 & O2	O2	DP2_O2_27	*0.0042*	8.3	0.00243	3.06E-04	18,426.7	**1.66E-08**
2027	Phase 2: Infrastructure O1 & O2	O1	DP2_I_O1_27	*0.0009*	1.8	0.00053	6.62E-05	17,017.0	**3.89E-09**
2027	Phase 2: Infrastructure O1 & O2	O2	DP2_I_O2_27	*0.0010*	2.0	0.00057	7.17E-05	18,426.7	**3.89E-09**
2027	Phase 3: R3+R4b+R5	R3-R5	DP3_R3-R5_27	0.0139	27.7	0.00808	1.02E-03	29,349.6	**3.47E-08**
2027	Phase 3: R4 Affordable	R4A	DP3_R4A_27	0.0093	18.6	0.00543	6.84E-04	11,500.8	**5.95E-08**
2027	Phase 3: Infrastructure R3+R4+R5	R3-R5	DP3I_R3-5_27	0.0015	3.0	0.00086	1.08E-04	29,349.6	**3.69E-09**
2027	Phase 4: O3-O5+P1+P2	O3-O5&P1-P2	DP4_O-P_27	0.0136	27.1	0.00791	9.96E-04	67,575.5	**1.47E-08**
2028	Phase 2: O1 & O2	O1	DP2_O1_28	*0.0042*	8.4	0.00245	3.09E-04	17,017.0	**1.82E-08**
2028	Phase 2: O1 & O2	O2	DP2_O2_28	*0.0046*	9.1	0.00266	3.35E-04	18,426.7	**1.82E-08**
2028	Phase 3: R3+R4b+R5	R3-R5	DP3_R3-R5_28	0.0104	20.8	0.00605	7.63E-04	29,349.6	**2.60E-08**
2028	Phase 3: R4 Affordable	R4A	DP3_R4A_28	0.0028	5.6	0.00162	2.04E-04	11,500.8	**1.77E-08**
2028	Phase 4: O3-O5+P1+P2	O3-O5&P1-P2	DP4_O-P_28	0.0160	32.0	0.00931	1.17E-03	67,575.5	**1.74E-08**
2028	Phase 4: Infrastructure O3-O5+P1+P2	O3-O5&P1-P2	DP4_I_O-P_28	0.0010	2.0	0.00057	7.22E-05	67,575.5	**1.07E-09**
2029	Phase 2: O1 & O2	O1	DP2_O1_29	*0.0020*	4.0	0.00118	1.49E-04	17,017.0	**8.73E-09**
2029	Phase 2: O1 & O2	O2	DP2_O2_29	*0.0022*	4.4	0.00128	1.61E-04	18,426.7	**8.73E-09**
2029	Phase 3: R3+R4b+R5	R3-R5	DP3_R3-R5_29	0.0098	19.5	0.00568	7.16E-04	29,349.6	**2.44E-08**
2029	Phase 4: O3-O5+P1+P2	O3-O5&P1-P2	DP4_O-P_29	0.0092	18.4	0.00536	6.75E-04	67,575.5	**9.99E-09**
2030	Phase 3: R3+R4b+R5	R3-R5	DP3_R3-R5_30	0.0006	1.1	0.00033	4.12E-05	29,349.6	**1.40E-09**
2030	Phase 4: O3-O5+P1+P2	O3-O5&P1-P2	DP4_O-P_30	0.0091	18.3	0.00532	6.70E-04	67,575.5	**9.92E-09**
2031	Phase 4: O3-O5+P1+P2	O3-O5&P1-P2	DP4_O-P_31	0.0027	5.5	0.00159	2.00E-04	67,575.5	**2.96E-09**
Total				***0.29***	***574.1***	***0.1673***	***0.0211***		

Operation Hours

hr/day =	11	(7am - 6pm Mon-Sat)
days/yr =	312	
hours/year =	3432	

PM2.5 Fugitive Dust Emissions for Modeling - Mitigated

Construction Year	Phase	Construction Area	Area Source	PM2.5 Emissions (ton/year)	PM2.5 Emissions (lb/yr)	PM2.5 Emissions (lb/hr)	PM2.5 Emissions (g/s)	Modeled Area (m^2)	PM2.5 Emission Rate $g/s/m^2$
2023	Phase 1: R1+R2	R1-R2	FP1_R1-R2_23	0.1493	298.6	0.08700	1.10E-02	24,144	**4.54E-07**
2023	Phase 1: R6 Affordable	R6	FP1_R6_23	0.0622	124.5	0.03627	4.57E-03	6,896	**6.63E-07**
						0.00000			
2024	Phase 1: R1+R2	R1-R2	FP1_R1-R2_24	0.0076	15.2	0.00443	5.58E-04	24,144	**2.31E-08**
2024	Phase 1: R6 Affordable	R6	FP1_R6_24	0.0015	3.1	0.00090	1.14E-04	6,896	**1.65E-08**
2024	Phase 1: Infrastructure R1+R2	R1-R2	FP1I_R1_2_24	*0.00005*	0.1	0.00003	3.91E-06	24,144	**1.62E-10**
2024	Phase 1: Infrastructure R6 Aff	R6	FP1I__R6_24	*0.00002*	0.0	0.00001	1.12E-06	6,896	**1.62E-10**
2024	Phase 2: O1 & O2	O1	FP2_O1_24	*0.0011*	2.2	0.00063	7.96E-05	17,017	**4.68E-09**
2024	Phase 2: O1 & O2	O2	FP2_O2_24	*0.0012*	2.3	0.00068	8.61E-05	18,427	**4.68E-09**
2025	Phase 1: R1+R2	R1-R2	FP1_R1-R2_25	0.00249	5.0	0.00145	1.83E-04	24,144	**7.58E-09**
2025	Phase 1: R6 Affordable	R6	FP1_R6_25	0.00027	0.5	0.00016	1.96E-05	6,896	**2.84E-09**
2025	Phase 1: Infrastructure R1+R2	R1-R2	FP1I_R1-2_25	*0.00008*	0.2	0.00005	6.11E-06	24,144	**2.53E-10**
2025	Phase 1: Infrastructure R6 Aff	R6	FP1I__R6_25	*0.00002*	0.0	0.00001	1.75E-06	6,896	**2.53E-10**
2025	Phase 2: O1 & O2	O1	FP2_O1_25	*0.0953*	190.7	0.05556	7.00E-03	17,017	**4.11E-07**
2025	Phase 2: O1 & O2	O2	FP2_O2_25	*0.1032*	206.5	0.06016	7.58E-03	18,427	**4.11E-07**
2026	Phase 2: O1 & O2	O1	FP2_O1_26	*0.00258*	5.2	0.00150	1.89E-04	17,017	**1.11E-08**
2026	Phase 2: O1 & O2	O2	FP2_O2_26	*0.00279*	5.6	0.00163	2.05E-04	18,427	**1.11E-08**
2026	Phase 2: Infrastructure O1 & O2	O1	FP2_I_O1_26	*0.00004*	0.1	0.00002	3.10E-06	17,017	**1.82E-10**
2026	Phase 2: Infrastructure O1 & O2	O2	FP2_I_O2_26	*0.00005*	0.1	0.00003	3.36E-06	18,427	**1.82E-10**
2026	Phase 3: R3+R4b+R5	R3-R5	FP3_R3-R5_26	0.188758	377.5	0.11000	1.39E-02	29,350	**4.72E-07**
2026	Phase 3: R4 Affordable	R4A	FP3_R4A_26	0.000640	1.3	0.00037	4.70E-05	11,501	**4.09E-09**
2026	Phase 4: O3-O5+P1+P2	O3-O5&P1-P2	FP4_O-P_26	0.166401	332.8	0.09697	1.22E-02	67,576	**1.81E-07**
2027	Phase 2: O1 & O2	O1	FP2_O1_27	*0.00258*	5.2	0.00150	1.89E-04	17,017	**1.11E-08**
2027	Phase 2: O1 & O2	O2	FP2_O2_27	*0.00279*	5.6	0.00163	2.05E-04	18,427	**1.11E-08**
2027	Phase 2: Infrastructure O1 & O2	O1	FP2_I_O1_27	*0.00007*	0.1	0.00004	4.98E-06	17,017	**2.93E-10**
2027	Phase 2: Infrastructure O1 & O2	O2	FP2_I_O2_27	*0.00007*	0.1	0.00004	5.40E-06	18,427	**2.93E-10**
2027	Phase 3: R3+R4b+R5	R3-R5	FP3_R3-R5_27	0.010358	20.7	0.00604	7.61E-04	29,350	**2.59E-08**
2027	Phase 3: R4 Affordable	R4A	FP3_R4A_27	0.059278	118.6	0.03454	4.35E-03	11,501	**3.78E-07**
2027	Phase 3: Infrastructure R3+R4+R5	R3-R5	FP3I_R3_5_27	0.000132	0.3	0.00008	9.66E-06	29,350	**3.29E-10**
2027	Phase 4: O3-O5+P1+P2	O3-O5&P1-P2	FP4_O-P_27	0.007169	14.3	0.00418	5.26E-04	67,576	**7.79E-09**
2028	Phase 2: O1 & O2	O1	FP2_O1_28	*0.00258*	5.2	0.00151	1.90E-04	17,017	**1.11E-08**
2028	Phase 2: O1 & O2	O2	FP2_O2_28	*0.00280*	5.6	0.00163	2.05E-04	18,427	**1.11E-08**
2028	Phase 3: R3+R4b+R5	R3-R5	FP3_R3-R5_28	0.010386	20.8	0.00605	7.63E-04	29,350	**2.60E-08**
2028	Phase 3: R4 Affordable	R4A	FP3_R4A_28	0.001671	3.3	0.00097	1.23E-04	11,501	**1.07E-08**
2028	Phase 4: O3-O5+P1+P2	O3-O5&P1-P2	FP4_O-P_28	0.007188	14.4	0.00419	5.28E-04	67,576	**7.81E-09**
2028	Phase 4: Infrastructure O3-O5+P1+P2	O3-O5&P1-P2	FP4_I_O-P_28	0.000088	0.2	0.00005	6.44E-06	67,576	**9.53E-11**
2029	Phase 2: O1 & O2	O1	FP2_O1_29	*0.00136*	2.7	0.00079	9.95E-05	17,017	**5.85E-09**
2029	Phase 2: O1 & O2	O2	FP2_O2_29	*0.00147*	2.9	0.00086	1.08E-04	18,427	**5.85E-09**
2029	Phase 3: R3+R4b+R5	R3-R5	FP3_R3-R5_29	0.010358	20.7	0.00604	7.61E-04	29,350	**2.59E-08**
2029	Phase 4: O3-O5+P1+P2	O3-O5&P1-P2	FP4_O-P_29	0.007169	14.3	0.00418	5.26E-04	67,576	**7.79E-09**
2030	Phase 3: R3+R4b+R5	R3-R5	FP3_R3-R5_30	0.000596	1.2	0.00035	4.38E-05	29,350	**1.49E-09**
2030	Phase 4: O3-O5+P1+P2	O3-O5&P1-P2	FP4_O-P_30	0.007169	14.3	0.00418	5.26E-04	67,576	**7.79E-09**
2031	Phase 4: O3-O5+P1+P2	O3-O5&P1-P2	FP4_O-P_31	0.002141	4.3	0.00125	1.57E-04	67,576	**2.33E-09**
Total				***0.92***	***1846.2***	***0.5379***	***0.0678***		

Google Middlefield - Project Construction
Dewatering Pumps - Emissions and Modeling Information
Unmitigated

Pump	Site Location	Operation Year	Source Name	Base Elevation (m)	Location UTM Coordinates X (m)	Location UTM Coordinates Y (m)	DPM Emissions Annual[a] Emissions (ton/yr)	DPM Emissions Average[b] Hourly Emissions (lb/hr)	Modeled Emission Rate (g/s)
W1	R1	2023	W1P1_R1_23	19.2	583828.17	4139265.38	0.0326	7.43E-03	9.36E-04
W2	R2	2023	W2P1_R2_23	17.7	583862.23	4139359.52	0.0326	7.43E-03	9.36E-04
W3	R6	2023	W3P1_R6_23	17.7	584264.84	4139171.23	0.0283	6.46E-03	8.14E-04
W4	O1	2025	W4_P2_O1_25	17.4	583896.95	4139484.38	0.0129	2.95E-03	3.71E-04
W4	O1	2026	W4_P2_O1_26	17.4	583896.95	4139484.38	0.0171	3.90E-03	4.92E-04
W5a	R3	2026	W5A_P3_R3_26	16.8	584151.34	4139410.93	0.0080	1.83E-03	2.31E-04
W5b	R4	2026	W5B_P3_R4_26	17.4	584217.44	4139356.85	0.0080	1.83E-03	2.31E-04
W5c	R5	2026	W5C_P3_R5_26	16.8	584300.90	4139312.12	0.0080	1.83E-03	2.31E-04
W5a	R3	2027	W5A_P3_R3_27	16.8	584151.34	4139410.93	0.0102	2.33E-03	2.93E-04
W5b	R4	2027	W5B_P3_R4_27	17.4	584217.44	4139356.85	0.0102	2.33E-03	2.93E-04
W5c	R5	2027	W5C_P3_R5_27	16.8	584300.90	4139312.12	0.0102	2.33E-03	2.93E-04
W6	R4Aff	2027	W6_P3_R4A_27	17.1	584183.38	4139314.12	0.0149	3.40E-03	4.29E-04
W7	O5/P1	2026	W7_P4_O5_26	14.6	584424.42	4139531.79	0.0059	1.35E-03	1.70E-04
W7	O5/P1	2027	W7_P4_O5_27	14.6	584424.42	4139531.79	0.0144	3.29E-03	4.14E-04

a Emissions calculated using CalEEMod emssion factors and a load factor of 0.74
b Assumes pumps can be operated any day or hour of the year.

Point Source Stack Parameters*	
Stack Discharge Height *(ft)	12
Stack Discharge Height *(m)	3.66
Stack Diameter** (ft)	0.60
Stack Diameter** (m)	0.18
Stack Exit Velocity** (ft/sec)	149
Stack Exit Velocity** (m/sec)	45.3
Exhaust Temperature** (F)	872

* BAAQMD defalut diesel engine parameters

Google Middlefield - Project Construction
Dewatering Pumps - Emissions and Modeling Information
Mitigated

Pump	Site Location	Operation Year	Source Name	Base Elevation (m)	Location UTM Coordinates X (m)	Location UTM Coordinates Y (m)	DPM Emissions Annual[a] Emissions (ton/yr)	DPM Emissions Average[b] Hourly Emissions (lb/hr)	Modeled Emission Rate (g/s)
W1	R1	2023	W1P1_R1_23	19.2	583828.17	4139265.38	0.0021	4.79E-04	6.04E-05
W2	R2	2023	W2P1_R2_23	17.7	583862.23	4139359.52	0.0021	4.79E-04	6.04E-05
W3	R6	2023	W3P1_R6_23	17.7	584264.84	4139171.23	0.0018	4.11E-04	5.18E-05
W4	O1	2025	W4_P2_O1_25	17.4	583896.95	4139484.38	0.0011	2.51E-04	3.16E-05
W4	O1	2026	W4_P2_O1_26	17.4	583896.95	4139484.38	0.0015	3.42E-04	4.32E-05
W5a	R3	2026	W5A_P3_R3_26	16.8	584151.34	4139410.93	0.0008	1.83E-04	2.30E-05
W5b	R4	2026	W5B_P3_R4_26	17.4	584217.44	4139356.85	0.0008	1.83E-04	2.30E-05
W5c	R5	2026	W5C_P3_R5_26	16.8	584300.90	4139312.12	0.0008	1.83E-04	2.30E-05
W5a	R3	2027	W5A_P3_R3_27	16.8	584151.34	4139410.93	0.0010	2.28E-04	2.88E-05
W5b	R4	2027	W5B_P3_R4_27	17.4	584217.44	4139356.85	0.0010	2.28E-04	2.88E-05
W5c	R5	2027	W5C_P3_R5_27	16.8	584300.90	4139312.12	0.0010	2.28E-04	2.88E-05
W6	R4Aff	2027	W6_P3_R4A_27	17.1	584183.38	4139314.12	0.0017	3.88E-04	4.89E-05
W7	O5/P1	2026	W7_P4_O5_26	14.6	584424.42	4139531.79	0.0006	1.37E-04	1.73E-05
W7	O5/P1	2027	W7_P4_O5_27	14.6	584424.42	4139531.79	0.0014	3.20E-04	4.03E-05

a Emissions calculated using CalEEMod emssion factors and a load factor of 0.74
b Assumes pumps can be operated any day or hour of the year.

Point Source Stack Parameters*	
Stack Discharge Height *(ft)	12
Stack Discharge Height *(m)	3.66
Stack Diameter** (ft)	0.60
Stack Diameter** (m)	0.18
Stack Exit Velocity** (ft/sec)	149
Stack Exit Velocity** (m/sec)	45.3
Exhaust Temperature** (F)	872

* BAAQMD defalut diesel engine parameters

Google Middlefield -Construction DPM/PM2.5 Modeling Information
AERMOD Risk Modeling Parameters and Maximum Concentrations
District Utilities Construction Impacts - Unmitigated Emissions
Off-Site Residential Receptors (1st & 2nd level receptor heights)

Receptor Information

Number of Receptors	242
Receptor Height =	variable
Receptor spacing =	variable

Meteorological Conditions

Moffett Field BAAQMD Hourly Data	2013-2017
Land Use Classification	Urban
Wind speed =	variable
Wind direction =	variable

MEI Maximum Concentrations

Emission Period	DPM Concentration ($\mu g/m^3$)
2023 - Construction	0.0278
2024 - Construction	0.04593
2025 - Construction	0.43184
2026 - Construction	0.21711
2027 - Construction	0.12831
2028 - Construction	0.08451
2029 - Construction	0.03364
2030 - Construction	0.00091
2031 - Construction	0.00021

Google Middlefield -Construction DPM/PM2.5 Modeling Information
AERMOD Risk Modeling Parameters and Maximum Concentrations
District Utilities Construction Impacts - Mitigated Emissions
Off-Site Residential Receptors (1st & 2nd level receptor heights)

Receptor Information

Number of Receptors	242
Receptor Height =	variable
Receptor spacing =	variable

Meteorological Conditions

Moffett Field BAAQMD Hourly Data	2013-2017
Land Use Classification	Urban
Wind speed =	variable
Wind direction =	variable

MEI Maximum Concentrations

Emission Period	DPM Concentration ($\mu g/m^3$)
2023 - Construction	0.0022
2024 - Construction	0.00513
2025 - Construction	0.05051
2026 - Construction	0.02976
2027 - Construction	0.02173
2028 - Construction	0.01743
2029 - Construction	0.00925
2030 - Construction	0.00061
2031 - Construction	0.00014

Google Middlefield - District Utilities Construction Impacts
Maximum DPM Cancer Risk Calculations From District Utilities Construction - Unmitigated
Off-Site Residential Receptors (1st & 2nd level receptor heights)
Residential Exposure (30-year)

Cancer Risk Calculation Method

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor $(mg/kg\text{-}day)^{-1}$
ASF = Age sensitivity factor for specified age group
ED = Exposure duration (years)
AT = Averaging time for lifetime cancer risk (years)
FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C_{air} x DBR x A x (EF/365) x 10^{-6}

Where: C_{air} = concentration in air $(\mu g/m^3)$
DBR = daily breathing rate (L/kg body weight-day)
A = Inhalation absorption factor
EF = Exposure frequency (days/year)
10^{-6} = Conversion factor

Values

Cancer Potency Factors $(mg/kg\text{-}day)^{-1}$

TAC	CPF
DPM	1.10E+00

	Infant/Child			Adult
Age -->	3rd Trimester	0 - <2	2 - 16	16 - 70
Parameter				
ASF	10	10	3	1
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
ED =	0.25	2	14	14
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

* 95th percentile breathing rates for infants and 80th percentile for children and adults

Construction Cancer Risk by Year - Maximum Impact Receptor Location

				Maximum - Exposure Information			Maximum	
Exposure Year	Year	Exposure Duration (years)	Age	Age Sensitivity Factor	Annual DPM Conc. (ug/m3)	DPM Cancer Risk (per million)	Hazard Index	Total** PM2.5
0	2023	0	-	-	0.0278	-	0.0056	0.100
3rd Trimester	2024	0.25	-0.25 - 0*	10	0.0459	0.625	0.0092	0.062
1	2025	1	1	10	0.4318	70.928	0.0864	2.385
2	2026	1	2	10	0.2171	35.660	0.0434	0.537
3	2027	1	3	3	0.1283	3.318	0.0257	0.208
4	2028	1	4	3	0.0845	2.185	0.0169	0.098
5	2029	1	5	3	0.0336	0.870	0.0067	0.042
6	2030	1	6	3	0.0009	0.024	0.0002	0.002
7	2031	1	7	3	0.0002	0.005	0.0000	0.000
8	2032	1	8	3	0.0000	0.00		
9	2033	1	9	3	0.0000	0.00		
10	2034	1	10	3	0.0000	0.00		
11	2035	1	11	3	0.0000	0.00		
12	2036	1	12	3	0.0000	0.00		
13	2037	1	13	3	0.0000	0.00		
14	2038	1	14	3	0.0000	0.00		
15	2039	1	15	3	0.0000	0.00		
16	2040	1	16	3	0.0000	0.00		
17	2041	1	17	1	0.0000	0.000		
18	2042	1	18	1	0.0000	0.000		
19	2043	1	19	1	0.0000	0.000		
20	2044	1	20	1	0.0000	0.000		
21	2045	1	21	1	0.0000	0.000		
22	2046	1	22	1	0.0000	0.000		
23	2047	1	23	1	0.0000	0.000		
24	2048	1	24	1	0.0000	0.000		
25	2049	1	25	1	0.0000	0.000		
26	2050	1	26	1	0.0000	0.000		
27	2051	1	27	1	0.0000	0.000		
28	2052	1	28	1	0.0000	0.000		
29	2053	1	29	1	0.0000	0.000		
30	2054	1	30	1	0.0000	0.000		
Total Increased Cancer Risk						**113.61**		

* Third trimester of pregnancy

** Maximum cancer risk and maximum PM2.5 concentration occur at different receptor locations.

Google Middlefield - District Utilities Construction Impacts
Maximum DPM Cancer Risk Calculations From District Utilities Construction - Mitigated
Off-Site Residential Receptors (1st & 2nd level receptor heights)
Residential Exposure (30-year)

Cancer Risk Calculation Method

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor $(mg/kg\text{-}day)^{-1}$
ASF = Age sensitivity factor for specified age group
ED = Exposure duration (years)
AT = Averaging time for lifetime cancer risk (years)
FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C_{air} x DBR x A x (EF/365) x 10^{-6}

Where: C_{air} = concentration in air $(\mu g/m^3)$
DBR = daily breathing rate (L/kg body weight-day)
A = Inhalation absorption factor
EF = Exposure frequency (days/year)

10^{-6} = Conversion factor

Values

Cancer Potency Factors $(mg/kg\text{-}day)^{-1}$

TAC	CPF
DPM	1.10E+00

	Infant/Child			Adult
Age -->	3rd Trimester	0 - <2	2 - 16	16 - 70
Parameter				
ASF	10	10	3	1
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
ED =	0.25	2	14	14
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

* 95th percentile breathing rates for infants and 80th percentile for children and adults

Construction Cancer Risk by Year - Maximum Impact Receptor Location

				Maximum - Exposure Information			Maximum	
Exposure Year	Year	Exposure Duration (years)	Age	Age Sensitivity Factor	Annual DPM Conc. (ug/m3)	DPM Cancer Risk (per million)	Hazard Index	Total** PM2.5
0	2023	0	-	-	0.0022	-	0.0004	0.016
3rd Trimester	2024	0.25	-0.25 - 0*	10	0.0051	0.070	0.0010	0.010
1	2025	1	1	10	0.0505	8.296	0.0101	0.441
2	2026	1	2	10	0.0298	4.888	0.0060	0.103
3	2027	1	3	3	0.0217	0.562	0.0043	0.049
4	2028	1	4	3	0.0174	0.451	0.0035	0.032
5	2029	1	5	3	0.0093	0.239	0.0019	0.018
6	2030	1	6	3	0.0006	0.016	0.0001	0.001
7	2031	1	7	3	0.0001	0.004	0.0000	0.000
8	2032	1	8	3	0.0000	0.000		
9	2033	1	9	3	0.0000	0.000		
10	2034	1	10	3	0.0000	0.000		
11	2035	1	11	3	0.0000	0.000		
12	2036	1	12	3	0.0000	0.000		
13	2037	1	13	3	0.0000	0.000		
14	2038	1	14	3	0.0000	0.000		
15	2039	1	15	3	0.0000	0.000		
16	2040	1	16	3	0.0000	0.000		
17	2041	1	17	1	0.0000	0.000		
18	2042	1	18	1	0.0000	0.000		
19	2043	1	19	1	0.0000	0.000		
20	2044	1	20	1	0.0000	0.000		
21	2045	1	21	1	0.0000	0.000		
22	2046	1	22	1	0.0000	0.000		
23	2047	1	23	1	0.0000	0.000		
24	2048	1	24	1	0.0000	0.000		
25	2049	1	25	1	0.0000	0.000		
26	2050	1	26	1	0.0000	0.000		
27	2051	1	27	1	0.0000	0.000		
28	2052	1	28	1	0.0000	0.000		
29	2053	1	29	1	0.0000	0.000		
30	2054	1	30	1	0.0000	0.000		
Total Increased Cancer Risk						**14.52**		

* Third trimester of pregnancy

** Maximum cancer risk and maximum PM2.5 concentration occur at different receptor locations.

Google Middlefield -Construction DPM/PM2.5 Modeling Information
AERMOD Risk Modeling Parameters and Maximum Concentrations
District Utilities Construction Impacts - Unmitigated Emissions
On-Site Residential Receptors (2nd level receptor heights)

Receptor Information

Number of Receptors	384
Receptor Height =	5.2 meters
Receptor spacing =	9 meter grid spacing in residential areas

Meteorological Conditions

Moffett Field BAAQMD Hourly Data	2013-2017
Land Use Classification	Urban
Wind speed =	variable
Wind direction =	variable

MEI Maximum Concentrations

Emission Period	DPM Concentration ($\mu g/m^3$)
2023 - Construction	0.00000
2024 - Construction	0.00000
2025 - Construction	0.00000
2026 - Construction	0.50599
2027 - Construction	0.34488
2028 - Construction	0.13850
2029 - Construction	0.05729
2030 - Construction	0.00509
2031 - Construction	0.00116

Google Middlefield -Construction DPM/PM2.5 Modeling Information
AERMOD Risk Modeling Parameters and Maximum Concentrations
District Utilities Construction Impacts - Mitigated Emissions
On-Site Residential Receptors

Receptor Information

Number of Receptors	384
Receptor Height =	5.2 meters
Receptor spacing =	9 meter grid spacing in residential areas

Meteorological Conditions

Moffett Field BAAQMD Hourly Data	2013-2017
Land Use Classification	Urban
Wind speed =	variable
Wind direction =	variable

MEI Maximum Concentrations

Emission Period	DPM Concentration ($\mu g/m^3$)
2023 - Construction	0.00000
2024 - Construction	0.00000
2025 - Construction	0.00000
2026 - Construction	0.05838
2027 - Construction	0.04526
2028 - Construction	0.02637
2029 - Construction	0.01785
2030 - Construction	0.00341
2031 - Construction	0.00077

Google Middlefield - District Utilities Construction Impacts
Maximum DPM Cancer Risk Calculations From Construction - Unmitigated
On-Site Residential Receptors (2nd level receptor heights)
Residential Exposure (30-year)

Cancer Risk Calculation Method

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor $(mg/kg\text{-}day)^{-1}$
ASF = Age sensitivity factor for specified age group
ED = Exposure duration (years)
AT = Averaging time for lifetime cancer risk (years)
FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C_{air} x DBR x A x (EF/365) x 10^{-6}

Where: C_{air} = concentration in air ($\mu g/m^3$)
DBR = daily breathing rate (L/kg body weight-day)
A = Inhalation absorption factor
EF = Exposure frequency (days/year)

10^{-6} = Conversion factor

Values

Cancer Potency Factors $(mg/kg\text{-}day)^{-1}$

TAC	CPF
DPM	1.10E+00

	Infant/Child			Adult
Age -->	3rd Trimester	0 - <2	2 - 16	16 - 70
Parameter				
ASF	10	10	3	1
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

* 95th percentile breathing rates for infants and 80th percentile for children and adults

Construction Cancer Risk by Year - Maximum Impact Receptor Location

				Maximum - Exposure Information			Maximum		Total
Exposure Year	Year	Exposure Duration (years)	Age	Age Sensitivity Factor	Annual DPM Conc. (ug/m3)	DPM Cancer Risk (per million)	Hazard Index	Total PM2.5	PM2.5 w/ MERV-13
0	2023	0	-	-	0.0000	-	0.0000	0.000	0.000
0	2024	0	-	-	0.0000	-	0.0000	0.000	0.000
3rd Trimester	2025	0.25	-0.25 - 0*	10	0.0000	0.000	0.0000	0.000	0.000
1	2026	1	1	10	0.5060	83.107	0.1012	2.254	0.676
2	2027	1	2	10	0.3449	56.645	0.0690	0.895	0.268
3	2028	1	3	3	0.1385	3.581	0.0277	0.181	0.054
4	2029	1	4	3	0.0573	1.481	0.0115	0.077	0.023
5	2030	1	5	3	0.0051	0.132	0.0010	0.008	0.002
6	2031	1	6	3	0.0012	0.030	0.0002	0.002	0.001
7	2032	1	7	3	0.0000	0.000			
8	2033	1	8	3	0.0000	0.000			
9	2034	1	9	3	0.0000	0.000			
10	2035	1	10	3	0.0000	0.000			
11	2036	1	11	3	0.0000	0.000			
12	2037	1	12	3	0.0000	0.000			
13	2038	1	13	3	0.0000	0.000			
14	2039	1	14	3	0.0000	0.000			
15	2040	1	15	3	0.0000	0.000			
16	2041	1	16	3	0.0000	0.000			
17	2042	1	17	1	0.0000	0.000			
18	2043	1	18	1	0.0000	0.000			
19	2044	1	19	1	0.0000	0.000			
20	2045	1	20	1	0.0000	0.000			
21	2046	1	21	1	0.0000	0.000			
22	2047	1	22	1	0.0000	0.000			
23	2048	1	23	1	0.0000	0.000			
24	2049	1	24	1	0.0000	0.000			
25	2050	1	25	1	0.0000	0.000			
26	2051	1	26	1	0.0000	0.000			
27	2052	1	27	1	0.0000	0.000			
28	2053	1	28	1	0.0000	0.000			
29	2054	1	29	1	0.0000	0.000			
30	2055	1	30	1	0.0000	0.000			
Total Increased Cancer Risk						**144.98**			
Total Increased Cancer Risk With use of MERV-13 Filtration						**43.49**			

* Third trimester of pregnancy

Google Middlefield - District Utilities Construction Impacts
Maximum DPM Cancer Risk Calculations From Construction - Mitigated
On-Site Residential Receptors
Residential Exposure (30-year)

Cancer Risk Calculation Method

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor $(mg/kg\text{-}day)^{-1}$
ASF = Age sensitivity factor for specified age group
ED = Exposure duration (years)
AT = Averaging time for lifetime cancer risk (years)
FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C_{air} x DBR x A x (EF/365) x 10^{-6}

Where: C_{air} = concentration in air ($\mu g/m^3$)
DBR = daily breathing rate (L/kg body weight-day)
A = Inhalation absorption factor
EF = Exposure frequency (days/year)

10^{-6} = Conversion factor

Values

Cancer Potency Factors $(mg/kg\text{-}day)^{-1}$

TAC	CPF
DPM	1.10E+00

	Infant/Child			Adult
Age -->	3rd Trimester	0 - <2	2 - 16	16 - 70
Parameter				
ASF	10	10	3	1
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

* 95th percentile breathing rates for infants and 80th percentile for children and adults

Construction Cancer Risk by Year - Maximum Impact Receptor Location

				Maximum - Exposure Information					
Exposure Year	Year	Exposure Duration (years)	Age	Age Sensitivity Factor	Annual DPM Conc. (ug/m3)	DPM Cancer Risk (per million)	Maximum Hazard Index	Total PM2.5	Total PM2.5 w/ MERV-13
0	2023	0	-	-	0.0000	-	0.0000	0.000	0.000
0	2024	0	-	-	0.0000	-	0.0000	0.000	0.000
3rd Trimester	2025	0.25	-0.25 - 0*	10	0.0000	0.000	0.0000	0.000	0.000
1	2026	1	1	10	0.0584	9.589	0.0117	0.416	0.125
2	2027	1	2	10	0.0453	7.434	0.0091	0.172	0.052
3	2028	1	3	3	0.0264	0.682	0.0053	0.049	0.015
4	2029	1	4	3	0.0179	0.462	0.0036	0.037	0.011
5	2030	1	5	3	0.0034	0.088	0.0007	0.006	0.002
6	2031	1	6	3	0.0008	0.020	0.0002	0.001	0.000
7	2032	1	7	3	0.0000	0.000			
8	2033	1	8	3	0.0000	0.000			
9	2034	1	9	3	0.0000	0.000			
10	2035	1	10	3	0.0000	0.000			
11	2036	1	11	3	0.0000	0.000			
12	2037	1	12	3	0.0000	0.000			
13	2038	1	13	3	0.0000	0.000			
14	2039	1	14	3	0.0000	0.000			
15	2040	1	15	3	0.0000	0.000			
16	2041	1	16	3	0.0000	0.000			
17	2042	1	17	1	0.0000	0.000			
18	2043	1	18	1	0.0000	0.000			
19	2044	1	19	1	0.0000	0.000			
20	2045	1	20	1	0.0000	0.000			
21	2046	1	21	1	0.0000	0.000			
22	2047	1	22	1	0.0000	0.000			
23	2048	1	23	1	0.0000	0.000			
24	2049	1	24	1	0.0000	0.000			
25	2050	1	25	1	0.0000	0.000			
26	2051	1	26	1	0.0000	0.000			
27	2052	1	27	1	0.0000	0.000			
28	2053	1	28	1	0.0000	0.000			
29	2054	1	29	1	0.0000	0.000			
30	2055	1	30	1	0.0000	0.000			
Total Increased Cancer Risk						**18.27**			
Total Increased Cancer Risk With use of MERV-13 Filtration						**5.48**			

* Third trimester of pregnancy

Google Middlefield - District Utilities Construction Impacts
DPM Cancer Risk Calculations From District Utilities Construction - Unmitigated
at Off-Site Residential Receptors (1st & 2nd level receptor heights)

Exposure Durations (years) for Maximum Cancer Risk

Exposure Type	2023	2024	2025	2026	2027	2028	2029	2030	2031
3rd Trimester (10)	0	0.25	0	0	0	0	0	0	0
Infant (10)	0	0	1	1	0	0	0	0	0
Child (3)	0	0	0	0	1	1	1	1	1
Adult (1)	0	0	0	0	0	0	0	0	0

Receptor No.	Receptor Coordinates UTM-X (m)	UTM-Y (m)	2023 Conc DPM	2024 Conc DPM	2025 Conc DPM	2026 Conc DPM	2027 Conc DPM	2028 Conc DPM	2029 Conc DPM	2030 Conc DPM	2031 Conc DPM	2023 Construct Risk	2024 Construct Risk	2025 Construct Risk	2026 Construct Risk	2027 Construct Risk	2028 Construct Risk	2029 Construct Risk	2030 Construct Risk	2031 Construct Risk	2023-2031 Total Cancer Risk (per million)
1	583674.05	4138932.37	0.02117	0.00464	0.00706	0.00484	0.00281	0.00158	0.00057	0.00006	0.00002	0.000	0.063	1.160	0.795	0.073	0.041	0.015	0.002	0.001	2.15
2	583685.82	4138936.00	0.02374	0.00523	0.00768	0.00513	0.00297	0.00169	0.00061	0.00006	0.00002	0.000	0.071	1.261	0.843	0.077	0.044	0.016	0.002	0.001	2.31
3	583705.56	4138942.41	0.02906	0.00643	0.00888	0.00567	0.00328	0.00188	0.00069	0.00006	0.00002	0.000	0.087	1.459	0.931	0.085	0.049	0.018	0.002	0.001	2.63
4	583715.08	4138945.35	0.03218	0.00713	0.00955	0.00597	0.00344	0.00199	0.00073	0.00007	0.00002	0.000	0.097	1.569	0.981	0.089	0.051	0.019	0.002	0.001	2.81
5	583722.18	4138945.87	0.03462	0.00768	0.01006	0.00620	0.00357	0.00208	0.00076	0.00007	0.00002	0.000	0.104	1.652	1.018	0.092	0.054	0.020	0.002	0.001	2.94
6	583727.20	4138939.64	0.03576	0.00793	0.01031	0.00635	0.00366	0.00213	0.00078	0.00007	0.00002	0.000	0.108	1.693	1.043	0.095	0.055	0.020	0.002	0.001	3.02
7	583734.13	4138930.98	0.03727	0.00826	0.01063	0.00657	0.00379	0.00220	0.00080	0.00007	0.00002	0.000	0.112	1.746	1.079	0.098	0.057	0.021	0.002	0.001	3.12
8	583740.36	4138923.02	0.03856	0.00854	0.01091	0.00676	0.00391	0.00227	0.00083	0.00008	0.00002	0.000	0.116	1.792	1.110	0.101	0.059	0.021	0.002	0.001	3.20
9	583745.55	4138915.57	0.03948	0.00874	0.01112	0.00692	0.00401	0.00232	0.00085	0.00008	0.00002	0.000	0.119	1.826	1.137	0.104	0.060	0.022	0.002	0.001	3.27
10	583750.23	4138909.86	0.04043	0.00895	0.01133	0.00707	0.00410	0.00238	0.00087	0.00008	0.00002	0.000	0.122	1.861	1.161	0.106	0.062	0.022	0.002	0.001	3.34
11	583755.59	4138902.41	0.04136	0.00915	0.01154	0.00725	0.00421	0.00243	0.00089	0.00008	0.00002	0.000	0.124	1.895	1.191	0.109	0.063	0.023	0.002	0.001	3.41
12	583747.80	4138895.84	0.03764	0.00831	0.01079	0.00693	0.00403	0.00232	0.00085	0.00008	0.00002	0.000	0.113	1.772	1.138	0.104	0.060	0.022	0.002	0.001	3.21
13	583757.15	4138883.72	0.03919	0.00865	0.01115	0.00723	0.00422	0.00242	0.00088	0.00008	0.00002	0.000	0.118	1.831	1.188	0.109	0.063	0.023	0.002	0.001	3.33
14	583765.46	4138890.29	0.04323	0.00956	0.01197	0.00758	0.00441	0.00255	0.00093	0.00009	0.00002	0.000	0.130	1.966	1.245	0.114	0.066	0.024	0.002	0.001	3.55
15	583771.18	4138882.33	0.04410	0.00975	0.01219	0.00777	0.00453	0.00261	0.00095	0.00009	0.00002	0.000	0.133	2.002	1.276	0.117	0.067	0.025	0.002	0.001	3.62
16	583776.72	4138875.93	0.04511	0.00997	0.01243	0.00796	0.00465	0.00268	0.00098	0.00009	0.00003	0.000	0.136	2.042	1.307	0.120	0.069	0.025	0.002	0.001	3.70
17	583783.64	4138866.92	0.04613	0.01019	0.01269	0.00820	0.00480	0.00276	0.00101	0.00009	0.00003	0.000	0.139	2.084	1.347	0.124	0.071	0.026	0.002	0.001	3.79
18	583788.14	4138861.04	0.04673	0.01032	0.01285	0.00836	0.00490	0.00281	0.00103	0.00010	0.00003	0.000	0.140	2.111	1.373	0.127	0.073	0.027	0.003	0.001	3.85
19	583794.20	4138852.90	0.04743	0.01047	0.01305	0.00856	0.00503	0.00288	0.00105	0.00010	0.00003	0.000	0.142	2.143	1.406	0.130	0.074	0.027	0.003	0.001	3.93
20	583714.91	4138939.46	0.03162	0.00700	0.00944	0.00595	0.00344	0.00198	0.00072	0.00007	0.00002	0.000	0.095	1.550	0.977	0.089	0.051	0.019	0.002	0.001	2.78
21	583719.93	4138932.71	0.03260	0.00722	0.00965	0.00610	0.00352	0.00203	0.00074	0.00007	0.00002	0.000	0.098	1.585	1.002	0.091	0.052	0.019	0.002	0.001	2.85
22	583725.30	4138925.27	0.03360	0.00743	0.00987	0.00625	0.00362	0.00209	0.00076	0.00007	0.00002	0.000	0.101	1.621	1.027	0.094	0.054	0.020	0.002	0.001	2.92
23	583731.88	4138917.30	0.03490	0.00772	0.01016	0.00645	0.00374	0.00216	0.00079	0.00007	0.00002	0.000	0.105	1.669	1.059	0.097	0.056	0.020	0.002	0.001	3.01
24	583737.24	4138909.69	0.03580	0.00791	0.01037	0.00661	0.00383	0.00221	0.00080	0.00007	0.00002	0.000	0.108	1.703	1.086	0.099	0.057	0.021	0.002	0.001	3.08
25	583742.96	4138903.11	0.03692	0.00816	0.01062	0.00679	0.00394	0.00227	0.00083	0.00008	0.00002	0.000	0.111	1.744	1.115	0.102	0.059	0.021	0.002	0.001	3.16
26	583762.52	4138876.96	0.04008	0.00884	0.01136	0.00740	0.00432	0.00248	0.00090	0.00009	0.00002	0.000	0.120	1.866	1.215	0.112	0.064	0.023	0.002	0.001	3.40
27	583768.41	4138869.87	0.04105	0.00905	0.01160	0.00760	0.00444	0.00254	0.00093	0.00009	0.00002	0.000	0.123	1.905	1.248	0.115	0.066	0.024	0.002	0.001	3.48
28	583775.16	4138860.34	0.04189	0.00924	0.01182	0.00782	0.00458	0.00262	0.00095	0.00009	0.00003	0.000	0.126	1.941	1.284	0.118	0.068	0.025	0.002	0.001	3.57
29	583781.04	4138853.42	0.04280	0.00944	0.01205	0.00801	0.00470	0.00268	0.00098	0.00009	0.00003	0.000	0.128	1.979	1.316	0.122	0.069	0.025	0.002	0.001	3.64
30	583694.83	4138938.94	0.02599	0.00574	0.00820	0.00537	0.00311	0.00177	0.00064	0.00006	0.00002	0.000	0.078	1.347	0.882	0.080	0.046	0.017	0.002	0.001	2.45
31	584511.66	4138899.64	0.04143	0.01026	0.01592	0.08906	0.04712	0.03019	0.01050	0.00211	0.00059	0.000	0.140	2.615	14.628	1.218	0.781	0.272	0.055	0.015	19.72
32	584507.85	4138883.72	0.04304	0.01066	0.01611	0.08744	0.04668	0.02943	0.01031	0.00202	0.00057	0.000	0.145	2.646	14.362	1.207	0.761	0.267	0.052	0.015	19.45
33	584503.70	4138868.48	0.04457	0.01103	0.01630	0.08586	0.04622	0.02871	0.01012	0.00195	0.00054	0.000	0.150	2.677	14.102	1.195	0.742	0.262	0.050	0.014	19.19
34	584500.23	4138850.13	0.04575	0.01131	0.01643	0.08355	0.04539	0.02777	0.00985	0.00186	0.00052	0.000	0.154	2.699	13.723	1.174	0.718	0.255	0.048	0.013	18.78
35	584537.28	4138897.91	0.03458	0.00852	0.01444	0.08130	0.04256	0.02808	0.00957	0.00201	0.00057	0.000	0.116	2.372	13.353	1.100	0.726	0.247	0.052	0.015	17.98
36	584533.13	4138879.91	0.03609	0.00890	0.01466	0.08010	0.04233	0.02743	0.00943	0.00194	0.00055	0.000	0.121	2.408	13.156	1.095	0.709	0.244	0.050	0.014	17.80
37	584527.93	4138865.02	0.03781	0.00932	0.01494	0.07952	0.04238	0.02702	0.00936	0.00188	0.00053	0.000	0.127	2.454	13.061	1.096	0.699	0.242	0.049	0.014	17.74
38	583674.05	4138932.37	0.02034	0.00443	0.00681	0.00469	0.00271	0.00153	0.00056	0.00005	0.00002	0.000	0.060	1.119	0.770	0.070	0.040	0.014	0.001	0.001	2.08
39	583685.82	4138936.00	0.02278	0.00498	0.00740	0.00497	0.00287	0.00163	0.00059	0.00006	0.00002	0.000	0.068	1.215	0.816	0.074	0.042	0.015	0.002	0.001	2.23
40	583705.56	4138942.41	0.02782	0.00612	0.00856	0.00549	0.00316	0.00182	0.00066	0.00006	0.00002	0.000	0.083	1.406	0.902	0.082	0.047	0.017	0.002	0.001	2.54
41	583715.08	4138945.35	0.03077	0.00678	0.00919	0.00578	0.00332	0.00193	0.00070	0.00006	0.00002	0.000	0.092	1.509	0.949	0.086	0.050	0.018	0.002	0.001	2.71
42	583722.18	4138945.87	0.03308	0.00730	0.00968	0.00600	0.00345	0.00201	0.00073	0.00007	0.00002	0.000	0.099	1.590	0.985	0.089	0.052	0.019	0.002	0.001	2.84
43	583727.20	4138939.64	0.03416	0.00753	0.00992	0.00615	0.00353	0.00206	0.00075	0.00007	0.00002	0.000	0.102	1.629	1.010	0.091	0.053	0.019	0.002	0.001	2.91
44	583734.13	4138930.98	0.03560	0.00785	0.01023	0.00635	0.00366	0.00213	0.00078	0.00007	0.00002	0.000	0.107	1.680	1.043	0.095	0.055	0.020	0.002	0.001	3.00
45	583740.36	4138923.02	0.03683	0.00812	0.01050	0.00654	0.00377	0.00219	0.00080	0.00007	0.00002	0.000	0.110	1.725	1.074	0.097	0.057	0.021	0.002	0.001	3.09
46	583745.55	4138915.57	0.03771	0.00831	0.01070	0.00670	0.00387	0.00225	0.00082	0.00008	0.00002	0.000	0.113	1.757	1.100	0.100	0.058	0.021	0.002	0.001	3.15
47	583750.23	4138909.86	0.03862	0.00850	0.01090	0.00684	0.00396	0.00230	0.00084	0.00008	0.00002	0.000	0.116	1.790	1.123	0.102	0.059	0.022	0.002	0.001	3.22
48	583755.59	4138902.41	0.03951	0.00870	0.01111	0.00701	0.00407	0.00235	0.00086	0.00008	0.00002	0.000	0.118	1.825	1.151	0.105	0.061	0.022	0.002	0.001	3.29
49	583747.80	4138895.84	0.03599	0.00791	0.01039	0.00671	0.00390	0.00224	0.00082	0.00008	0.00002	0.000	0.108	1.707	1.102	0.101	0.058	0.021	0.002	0.001	3.10
50	583757.15	4138883.72	0.03748	0.00824	0.01074	0.00700	0.00408	0.00234	0.00085	0.00008	0.00002	0.000	0.112	1.764	1.150	0.105	0.061	0.022	0.002	0.001	3.22
51	583765.46	4138890.29	0.04130	0.00909	0.01152	0.00734	0.00426	0.00246	0.00090	0.00008	0.00002	0.000	0.124	1.892	1.206	0.110	0.064	0.023	0.002	0.001	3.42
52	583771.18	4138882.33	0.04215	0.00927	0.01173	0.00752	0.00438	0.00253	0.00092	0.00009	0.00002	0.000	0.126	1.927	1.235	0.113	0.065	0.024	0.002	0.001	3.49
53	583776.72	4138875.93	0.04312	0.00949	0.01196	0.00771	0.00450	0.00259	0.00094	0.00009	0.00002	0.000	0.129	1.964	1.266	0.116	0.067	0.024	0.002	0.001	3.57
54	583783.64	4138866.92	0.04411	0.00970	0.01221	0.00794	0.00464	0.00267	0.00097	0.00009	0.00003	0.000	0.132	2.005	1.304	0.120	0.069	0.025	0.002	0.001	3.66
55	583788.14	4138861.04	0.04469	0.00983	0.01237	0.00809	0.00474	0.00272	0.00099	0.00009	0.00003	0.000	0.134	2.032	1.329	0.123	0.070	0.026	0.002	0.001	3.72
56	583794.20	4138852.90	0.04539	0.00999	0.01257	0.00830	0.00486	0.00278	0.00102	0.00010	0.00003	0.000	0.136	2.065	1.363	0.126	0.072	0.026	0.003	0.001	3.79
57	583714.91	4138939.46	0.03025	0.00666	0.00909	0.00576	0.00332	0.00192	0.00070	0.00006	0.00002	0.000	0.091	1.493	0.946	0.086	0.050	0.018	0.002	0.001	2.69
58	583719.93	4138932.71	0.03118	0.00686	0.00929	0.00590	0.00340	0.00197	0.00072	0.00007	0.00002	0.000	0.093	1.526	0.969	0.088	0.051	0.019	0.002	0.001	2.75
59	583725.30	4138925.27	0.03213	0.00707	0.00951	0.00605	0.00349	0.00202	0.00073	0.00007	0.00002	0.000	0.096	1.562	0.994	0.090	0.052	0.019	0.002	0.001	2.82
60	583731.88	4138917.30	0.03338	0.00734	0.00979	0.00624	0.00361	0.00208	0.00076	0.00007	0.00002	0.000	0.100	1.608	1.025	0.093	0.054	0.020	0.002	0.001	2.90

Receptor No.	Receptor Coordinates UTM-X (m)	UTM-Y (m)	2023 Conc DPM	2024 Conc DPM	2025 Conc DPM	2026 Conc DPM	2027 Conc DPM	2028 Conc DPM	2029 Conc DPM	2030 Conc DPM	2031 Conc DPM	2023 Construct Risk	2024 Construct Risk	2025 Construct Risk	2026 Construct Risk	2027 Construct Risk	2028 Construct Risk	2029 Construct Risk	2030 Construct Risk	2031 Construct Risk	2023-2031 Total Cancer Risk (per million)
61	583737.24	4138909.69	0.03424	0.00753	0.00998	0.00640	0.00370	0.00214	0.00078	0.00007	0.00002	0.000	0.102	1.639	1.051	0.096	0.055	0.020	0.002	0.001	2.97
62	583742.96	4138903.11	0.03531	0.00776	0.01023	0.00657	0.00381	0.00220	0.00080	0.00007	0.00002	0.000	0.106	1.680	1.079	0.099	0.057	0.021	0.002	0.001	3.04
63	583762.52	4138876.96	0.03833	0.00842	0.01095	0.00717	0.00418	0.00240	0.00087	0.00008	0.00002	0.000	0.115	1.799	1.178	0.108	0.062	0.022	0.002	0.001	3.29
64	583768.41	4138869.87	0.03926	0.00863	0.01117	0.00736	0.00430	0.00246	0.00090	0.00009	0.00002	0.000	0.117	1.835	1.209	0.111	0.064	0.023	0.002	0.001	3.36
65	583775.16	4138860.34	0.04009	0.00880	0.01139	0.00757	0.00443	0.00253	0.00092	0.00009	0.00002	0.000	0.120	1.871	1.243	0.115	0.065	0.024	0.002	0.001	3.44
66	583781.04	4138853.42	0.04096	0.00900	0.01161	0.00776	0.00455	0.00260	0.00095	0.00009	0.00003	0.000	0.122	1.907	1.275	0.118	0.067	0.025	0.002	0.001	3.52
67	583694.83	4138938.94	0.02492	0.00547	0.00790	0.00520	0.00300	0.00172	0.00062	0.00006	0.00002	0.000	0.074	1.298	0.854	0.078	0.044	0.016	0.002	0.001	2.37
68	584511.66	4138899.64	0.03946	0.00977	0.01541	0.08622	0.04559	0.02930	0.01016	0.00205	0.00058	0.000	0.133	2.531	14.161	1.179	0.758	0.263	0.053	0.015	19.09
69	584507.85	4138883.72	0.04103	0.01015	0.01560	0.08468	0.04518	0.02856	0.00998	0.00197	0.00055	0.000	0.138	2.562	13.908	1.168	0.738	0.258	0.051	0.014	18.84
70	584503.70	4138868.48	0.04251	0.01051	0.01578	0.08317	0.04475	0.02786	0.00980	0.00189	0.00053	0.000	0.143	2.592	13.660	1.157	0.720	0.253	0.049	0.014	18.59
71	584500.23	4138850.13	0.04369	0.01078	0.01592	0.08099	0.04398	0.02696	0.00954	0.00181	0.00050	0.000	0.147	2.615	13.302	1.137	0.697	0.247	0.047	0.013	18.20
72	584537.28	4138897.91	0.03301	0.00813	0.01399	0.07872	0.04118	0.02726	0.00927	0.00196	0.00055	0.000	0.111	2.298	12.929	1.065	0.705	0.240	0.051	0.014	17.41
73	584533.13	4138879.91	0.03447	0.00849	0.01420	0.07761	0.04098	0.02664	0.00913	0.00189	0.00053	0.000	0.115	2.332	12.747	1.060	0.689	0.236	0.049	0.014	17.24
74	584527.93	4138865.02	0.03614	0.00891	0.01448	0.07710	0.04106	0.02626	0.00908	0.00183	0.00052	0.000	0.121	2.378	12.663	1.062	0.679	0.235	0.047	0.013	17.20
75	583484.36	4139204.52	0.00558	0.00116	0.00194	0.00240	0.00152	0.00071	0.00026	0.00003	0.00001	0.000	0.016	0.319	0.394	0.039	0.018	0.007	0.001	0.000	0.79
76	583493.96	4139201.73	0.00580	0.00121	0.00203	0.00245	0.00155	0.00073	0.00027	0.00003	0.00001	0.000	0.016	0.333	0.402	0.040	0.019	0.007	0.001	0.000	0.82
77	583503.57	4139198.94	0.00603	0.00127	0.00214	0.00251	0.00159	0.00075	0.00027	0.00003	0.00001	0.000	0.017	0.351	0.412	0.041	0.019	0.007	0.001	0.000	0.85
78	583513.17	4139196.15	0.00628	0.00133	0.00225	0.00258	0.00162	0.00077	0.00028	0.00003	0.00001	0.000	0.018	0.370	0.424	0.042	0.020	0.007	0.001	0.000	0.88
79	583522.77	4139193.37	0.00656	0.00140	0.00238	0.00265	0.00166	0.00079	0.00029	0.00003	0.00001	0.000	0.019	0.391	0.435	0.043	0.020	0.007	0.001	0.000	0.92
80	583532.38	4139190.58	0.00687	0.00147	0.00253	0.00273	0.00171	0.00082	0.00030	0.00004	0.00001	0.000	0.020	0.416	0.448	0.044	0.021	0.008	0.001	0.000	0.96
81	583541.98	4139187.79	0.00721	0.00155	0.00268	0.00281	0.00175	0.00085	0.00031	0.00004	0.00001	0.000	0.021	0.440	0.462	0.045	0.022	0.008	0.001	0.000	1.00
82	583487.15	4139214.12	0.00577	0.00120	0.00197	0.00243	0.00154	0.00072	0.00026	0.00003	0.00001	0.000	0.016	0.324	0.399	0.040	0.019	0.007	0.001	0.000	0.81
83	583496.75	4139211.33	0.00599	0.00125	0.00206	0.00249	0.00158	0.00074	0.00027	0.00003	0.00001	0.000	0.017	0.338	0.409	0.041	0.019	0.007	0.001	0.000	0.83
84	583506.36	4139208.55	0.00624	0.00131	0.00217	0.00255	0.00161	0.00076	0.00028	0.00003	0.00001	0.000	0.018	0.356	0.419	0.042	0.020	0.007	0.001	0.000	0.86
85	583515.96	4139205.76	0.00650	0.00138	0.00228	0.00262	0.00165	0.00078	0.00029	0.00004	0.00001	0.000	0.019	0.374	0.430	0.043	0.020	0.007	0.001	0.000	0.90
86	583525.56	4139202.97	0.00679	0.00145	0.00241	0.00269	0.00169	0.00081	0.00030	0.00004	0.00001	0.000	0.020	0.396	0.442	0.044	0.021	0.008	0.001	0.000	0.93
87	583535.17	4139200.18	0.00712	0.00153	0.00256	0.00277	0.00173	0.00083	0.00031	0.00004	0.00001	0.000	0.021	0.420	0.455	0.045	0.021	0.008	0.001	0.000	0.97
88	583544.77	4139197.39	0.00746	0.00161	0.00272	0.00285	0.00178	0.00086	0.00032	0.00004	0.00001	0.000	0.022	0.447	0.468	0.046	0.022	0.008	0.001	0.000	1.01
89	583489.94	4139223.73	0.00597	0.00125	0.00201	0.00247	0.00157	0.00074	0.00027	0.00003	0.00001	0.000	0.017	0.330	0.406	0.041	0.019	0.007	0.001	0.000	0.82
90	583499.54	4139220.94	0.00620	0.00130	0.00210	0.00253	0.00160	0.00076	0.00028	0.00003	0.00001	0.000	0.018	0.345	0.416	0.041	0.020	0.007	0.001	0.000	0.85
91	583509.14	4139218.15	0.00646	0.00136	0.00220	0.00259	0.00164	0.00078	0.00028	0.00004	0.00001	0.000	0.018	0.361	0.425	0.042	0.020	0.007	0.001	0.000	0.88
92	583518.75	4139215.36	0.00674	0.00143	0.00232	0.00266	0.00167	0.00080	0.00029	0.00004	0.00001	0.000	0.019	0.381	0.437	0.043	0.021	0.007	0.001	0.000	0.91
93	583528.35	4139212.57	0.00704	0.00151	0.00245	0.00273	0.00171	0.00082	0.00030	0.00004	0.00001	0.000	0.021	0.402	0.448	0.044	0.021	0.008	0.001	0.000	0.95
94	583537.95	4139209.79	0.00738	0.00159	0.00259	0.00281	0.00176	0.00085	0.00031	0.00004	0.00001	0.000	0.022	0.425	0.462	0.046	0.022	0.008	0.001	0.000	0.99
95	583547.56	4139207.00	0.00775	0.00168	0.00276	0.00289	0.00180	0.00088	0.00032	0.00004	0.00001	0.000	0.023	0.453	0.475	0.047	0.023	0.008	0.001	0.000	1.03
96	583492.73	4139233.33	0.00618	0.00130	0.00205	0.00252	0.00159	0.00075	0.00027	0.00004	0.00001	0.000	0.018	0.337	0.414	0.041	0.019	0.007	0.001	0.000	0.84
97	583502.33	4139230.54	0.00643	0.00136	0.00214	0.00257	0.00163	0.00077	0.00028	0.00004	0.00001	0.000	0.018	0.351	0.422	0.042	0.020	0.007	0.001	0.000	0.86
98	583511.93	4139227.75	0.00671	0.00142	0.00224	0.00263	0.00166	0.00079	0.00029	0.00004	0.00001	0.000	0.019	0.368	0.432	0.043	0.020	0.007	0.001	0.000	0.89
99	583521.54	4139224.97	0.00700	0.00149	0.00236	0.00270	0.00170	0.00081	0.00030	0.00004	0.00001	0.000	0.020	0.388	0.443	0.044	0.021	0.008	0.001	0.000	0.93
100	583531.14	4139222.18	0.00732	0.00157	0.00249	0.00277	0.00174	0.00084	0.00031	0.00004	0.00001	0.000	0.021	0.409	0.455	0.045	0.022	0.008	0.001	0.000	0.96
101	583540.74	4139219.39	0.00768	0.00166	0.00264	0.00285	0.00179	0.00086	0.00032	0.00004	0.00001	0.000	0.023	0.434	0.468	0.046	0.022	0.008	0.001	0.000	1.00
102	583550.35	4139216.60	0.00808	0.00175	0.00281	0.00294	0.00184	0.00089	0.00033	0.00004	0.00001	0.000	0.024	0.462	0.483	0.048	0.023	0.009	0.001	0.000	1.05
103	583495.51	4139242.93	0.00642	0.00135	0.00209	0.00256	0.00162	0.00077	0.00028	0.00004	0.00001	0.000	0.018	0.343	0.420	0.042	0.020	0.007	0.001	0.000	0.85
104	583505.12	4139240.15	0.00668	0.00141	0.00218	0.00262	0.00165	0.00079	0.00029	0.00004	0.00001	0.000	0.019	0.358	0.430	0.043	0.020	0.007	0.001	0.000	0.88
105	583514.72	4139237.36	0.00697	0.00148	0.00229	0.00268	0.00169	0.00081	0.00029	0.00004	0.00001	0.000	0.020	0.376	0.440	0.044	0.021	0.007	0.001	0.000	0.91
106	583524.32	4139234.57	0.00728	0.00156	0.00241	0.00275	0.00173	0.00083	0.00030	0.00004	0.00001	0.000	0.021	0.396	0.452	0.045	0.021	0.008	0.001	0.000	0.94
107	583533.93	4139231.78	0.00762	0.00164	0.00254	0.00282	0.00177	0.00085	0.00031	0.00004	0.00001	0.000	0.022	0.417	0.463	0.046	0.022	0.008	0.001	0.000	0.98
108	583543.53	4139228.99	0.00801	0.00173	0.00269	0.00290	0.00182	0.00088	0.00032	0.00004	0.00001	0.000	0.024	0.442	0.476	0.047	0.023	0.008	0.001	0.000	1.02
109	583553.13	4139226.20	0.00844	0.00184	0.00286	0.00299	0.00187	0.00091	0.00033	0.00004	0.00001	0.000	0.025	0.470	0.491	0.048	0.024	0.009	0.001	0.000	1.07
110	583498.30	4139252.54	0.00668	0.00141	0.00214	0.00261	0.00165	0.00078	0.00029	0.00004	0.00001	0.000	0.019	0.351	0.429	0.043	0.020	0.007	0.001	0.000	0.87
111	583507.91	4139249.75	0.00696	0.00147	0.00224	0.00266	0.00168	0.00080	0.00029	0.00004	0.00001	0.000	0.020	0.368	0.437	0.043	0.021	0.007	0.001	0.000	0.90
112	583517.51	4139246.96	0.00726	0.00155	0.00234	0.00273	0.00172	0.00082	0.00030	0.00004	0.00001	0.000	0.021	0.384	0.448	0.044	0.021	0.008	0.001	0.000	0.93
113	583527.11	4139244.17	0.00759	0.00163	0.00246	0.00279	0.00176	0.00085	0.00031	0.00004	0.00001	0.000	0.022	0.404	0.458	0.046	0.022	0.008	0.001	0.000	0.96
114	583536.72	4139241.38	0.00796	0.00171	0.00259	0.00287	0.00180	0.00087	0.00032	0.00004	0.00001	0.000	0.023	0.425	0.471	0.047	0.022	0.008	0.001	0.000	1.00
115	583546.32	4139238.60	0.00838	0.00182	0.00275	0.00296	0.00185	0.00090	0.00033	0.00004	0.00001	0.000	0.025	0.452	0.486	0.048	0.023	0.009	0.001	0.000	1.04
116	583555.92	4139235.81	0.00885	0.00193	0.00292	0.00305	0.00191	0.00093	0.00034	0.00004	0.00001	0.000	0.026	0.480	0.501	0.049	0.024	0.009	0.001	0.000	1.09
117	583484.36	4139204.52	0.00535	0.00111	0.00185	0.00232	0.00147	0.00069	0.00025	0.00003	0.00001	0.000	0.015	0.304	0.381	0.038	0.018	0.006	0.001	0.000	0.76
118	583493.96	4139201.73	0.00556	0.00116	0.00194	0.00238	0.00150	0.00071	0.00026	0.00003	0.00001	0.000	0.016	0.319	0.391	0.039	0.018	0.007	0.001	0.000	0.79
119	583503.57	4139198.94	0.00578	0.00121	0.00204	0.00244	0.00153	0.00073	0.00027	0.00003	0.00001	0.000	0.016	0.335	0.401	0.040	0.019	0.007	0.001	0.000	0.82
120	583513.17	4139196.15	0.00602	0.00127	0.00215	0.00250	0.00156	0.00075	0.00027	0.00003	0.00001	0.000	0.017	0.353	0.411	0.040	0.019	0.007	0.001	0.000	0.85
121	583522.77	4139193.37	0.00629	0.00133	0.00227	0.00256	0.00160	0.00077	0.00028	0.00003	0.00001	0.000	0.018	0.373	0.420	0.041	0.020	0.007	0.001	0.000	0.88
122	583532.38	4139190.58	0.00658	0.00140	0.00241	0.00264	0.00164	0.00080	0.00029	0.00003	0.00001	0.000	0.019	0.396	0.434	0.042	0.021	0.007	0.001	0.000	0.92
123	583541.98	4139187.79	0.00689	0.00148	0.00256	0.00271	0.00168	0.00082	0.00030	0.00004	0.00001	0.000	0.020	0.420	0.445	0.043	0.021	0.008	0.001	0.000	0.96
124	583487.15	4139214.12	0.00553	0.00115	0.00188	0.00236	0.00149	0.00070	0.00026	0.00003	0.00001	0.000	0.016	0.309	0.388	0.039	0.018	0.007	0.001	0.000	0.78
125	583496.75	4139211.33	0.00575	0.00120	0.00197	0.00242	0.00152	0.00072	0.00026	0.00003	0.00001	0.000	0.016	0.324	0.397	0.039	0.019	0.007	0.001	0.000	0.80
126	583506.36	4139208.55	0.00598	0.00126	0.00207	0.00247	0.00155	0.00074	0.00027	0.00003	0.00001	0.000	0.017	0.340	0.406	0.040	0.019	0.007	0.001	0.000	0.83
127	583515.96	4139205.76	0.00623	0.00132	0.00218	0.00254	0.00159	0.00076	0.00028	0.00003	0.00001	0.000	0.018	0.358	0.417	0.041	0.020	0.007	0.001	0.000	0.86
128	583525.56	4139202.97	0.00651	0.00138	0.00230	0.00260	0.00162	0.00078	0.00029	0.00003	0.00001	0.000	0.019	0.378	0.427	0.042	0.020	0.007	0.001	0.000	0.89
129	583535.17	4139200.18	0.00681	0.00146	0.00244	0.00268	0.00167	0.00081	0.00030	0.00004	0.00001	0.000	0.020	0.401	0.440	0.043	0.021	0.008	0.001	0.000	0.93
130	583544.77	4139197.39	0.00714	0.00153	0.00259	0.00276	0.00171	0.00084	0.00031	0.00004	0.00001	0.000	0.021	0.425	0.453	0.044	0.022	0.008	0.001	0.000	0.97
131	583489.94	4139223.73	0.00572	0.00119	0.00192	0.00240	0.00151	0.00072	0.00026	0.00003	0.00001	0.000	0.016	0.315	0.394	0.039	0.019	0.007	0.001	0.000	0.79
132	583499.54	4139220.94	0.00595	0.00125	0.00201	0.00246	0.00154	0.00074	0.00027	0.00003	0.00001	0.000	0.017	0.330	0.404	0.040	0.019	0.007	0.001	0.000	0.82

Receptor No.	Receptor Coordinates UTM-X (m)	UTM-Y (m)	2023 Conc DPM	2024 Conc DPM	2025 Conc DPM	2026 Conc DPM	2027 Conc DPM	2028 Conc DPM	2029 Conc DPM	2030 Conc DPM	2031 Conc DPM	2023 Construct Risk	2024 Construct Risk	2025 Construct Risk	2026 Construct Risk	2027 Construct Risk	2028 Construct Risk	2029 Construct Risk	2030 Construct Risk	2031 Construct Risk	2023-2031 Total Cancer Risk (per million)
133	583509.14	4139218.15	0.00619	0.00130	0.00211	0.00251	0.00158	0.00075	0.00028	0.00003	0.00001	0.000	0.018	0.347	0.412	0.041	0.019	0.007	0.001	0.000	0.85
134	583518.75	4139215.36	0.00646	0.00137	0.00221	0.00258	0.00161	0.00078	0.00028	0.00004	0.00001	0.000	0.019	0.363	0.424	0.042	0.020	0.007	0.001	0.000	0.88
135	583528.35	4139212.57	0.00674	0.00144	0.00234	0.00264	0.00165	0.00080	0.00029	0.00004	0.00001	0.000	0.020	0.384	0.434	0.043	0.021	0.007	0.001	0.000	0.91
136	583537.95	4139209.79	0.00706	0.00151	0.00248	0.00272	0.00169	0.00082	0.00030	0.00004	0.00001	0.000	0.021	0.407	0.447	0.044	0.021	0.008	0.001	0.000	0.95
137	583547.56	4139207.00	0.00741	0.00160	0.00263	0.00280	0.00174	0.00085	0.00031	0.00004	0.00001	0.000	0.022	0.432	0.460	0.045	0.022	0.008	0.001	0.000	0.99
138	583492.73	4139233.33	0.00593	0.00124	0.00196	0.00244	0.00154	0.00073	0.00027	0.00003	0.00001	0.000	0.017	0.322	0.401	0.040	0.019	0.007	0.001	0.000	0.81
139	583502.33	4139230.54	0.00617	0.00130	0.00204	0.00250	0.00157	0.00075	0.00027	0.00003	0.00001	0.000	0.018	0.335	0.411	0.041	0.019	0.007	0.001	0.000	0.83
140	583511.93	4139227.75	0.00643	0.00136	0.00214	0.00256	0.00160	0.00077	0.00028	0.00004	0.00001	0.000	0.018	0.351	0.420	0.041	0.020	0.007	0.001	0.000	0.86
141	583521.54	4139224.97	0.00670	0.00142	0.00225	0.00262	0.00164	0.00079	0.00029	0.00004	0.00001	0.000	0.019	0.370	0.430	0.042	0.020	0.007	0.001	0.000	0.89
142	583531.14	4139222.18	0.00700	0.00150	0.00237	0.00269	0.00168	0.00081	0.00030	0.00004	0.00001	0.000	0.020	0.389	0.442	0.043	0.021	0.008	0.001	0.000	0.92
143	583540.74	4139219.39	0.00734	0.00158	0.00251	0.00276	0.00172	0.00084	0.00031	0.00004	0.00001	0.000	0.021	0.412	0.453	0.044	0.022	0.008	0.001	0.000	0.96
144	583550.35	4139216.60	0.00772	0.00167	0.00267	0.00285	0.00177	0.00087	0.00032	0.00004	0.00001	0.000	0.023	0.439	0.468	0.046	0.022	0.008	0.001	0.000	1.01
145	583495.51	4139242.93	0.00615	0.00129	0.00200	0.00248	0.00156	0.00075	0.00027	0.00004	0.00001	0.000	0.018	0.328	0.407	0.040	0.019	0.007	0.001	0.000	0.82
146	583505.12	4139240.15	0.00640	0.00135	0.00209	0.00254	0.00160	0.00077	0.00028	0.00004	0.00001	0.000	0.018	0.343	0.417	0.041	0.020	0.007	0.001	0.000	0.85
147	583514.72	4139237.36	0.00668	0.00142	0.00219	0.00260	0.00163	0.00079	0.00029	0.00004	0.00001	0.000	0.019	0.360	0.427	0.042	0.020	0.007	0.001	0.000	0.88
148	583524.32	4139234.57	0.00697	0.00148	0.00230	0.00266	0.00167	0.00081	0.00029	0.00004	0.00001	0.000	0.020	0.378	0.437	0.043	0.021	0.007	0.001	0.000	0.91
149	583533.93	4139231.78	0.00729	0.00156	0.00242	0.00273	0.00170	0.00083	0.00030	0.00004	0.00001	0.000	0.021	0.397	0.448	0.044	0.021	0.008	0.001	0.000	0.94
150	583543.53	4139228.99	0.00766	0.00165	0.00256	0.00281	0.00175	0.00086	0.00031	0.00004	0.00001	0.000	0.022	0.420	0.462	0.045	0.022	0.008	0.001	0.000	0.98
151	583553.13	4139226.20	0.00806	0.00175	0.00272	0.00290	0.00180	0.00088	0.00032	0.00004	0.00001	0.000	0.024	0.447	0.476	0.047	0.023	0.008	0.001	0.000	1.03
152	583498.30	4139252.54	0.00640	0.00135	0.00205	0.00253	0.00159	0.00076	0.00028	0.00004	0.00001	0.000	0.018	0.337	0.416	0.041	0.020	0.007	0.001	0.000	0.84
153	583507.91	4139249.75	0.00666	0.00141	0.00214	0.00259	0.00162	0.00078	0.00028	0.00004	0.00001	0.000	0.019	0.351	0.425	0.042	0.020	0.007	0.001	0.000	0.87
154	583517.51	4139246.96	0.00695	0.00148	0.00223	0.00265	0.00166	0.00080	0.00029	0.00004	0.00001	0.000	0.020	0.366	0.435	0.043	0.021	0.007	0.001	0.000	0.89
155	583527.11	4139244.17	0.00726	0.00155	0.00234	0.00271	0.00169	0.00082	0.00030	0.00004	0.00001	0.000	0.021	0.384	0.445	0.044	0.021	0.008	0.001	0.000	0.92
156	583536.72	4139241.38	0.00761	0.00163	0.00247	0.00278	0.00173	0.00085	0.00031	0.00004	0.00001	0.000	0.022	0.406	0.457	0.045	0.022	0.008	0.001	0.000	0.96
157	583546.32	4139238.60	0.00801	0.00173	0.00262	0.00286	0.00178	0.00087	0.00032	0.00004	0.00001	0.000	0.024	0.430	0.470	0.046	0.022	0.008	0.001	0.000	1.00
158	583555.92	4139235.81	0.00844	0.00183	0.00278	0.00295	0.00183	0.00090	0.00033	0.00004	0.00001	0.000	0.025	0.457	0.485	0.047	0.023	0.009	0.001	0.000	1.05
159	583979.57	4139386.45	0.05517	0.04251	0.33446	0.13302	0.07596	0.05587	0.02148	0.00037	0.00010	0.000	0.578	54.934	21.848	1.964	1.445	0.555	0.010	0.003	81.34
160	583988.23	4139383.99	0.05435	0.03865	0.29473	0.12192	0.06985	0.05063	0.01949	0.00041	0.00011	0.000	0.526	48.408	20.025	1.806	1.309	0.504	0.011	0.003	72.59
161	583996.88	4139381.52	0.05360	0.03572	0.26485	0.11450	0.06577	0.04696	0.01810	0.00045	0.00012	0.000	0.486	43.501	18.806	1.701	1.214	0.468	0.012	0.003	66.19
162	584005.54	4139379.06	0.05289	0.03364	0.24402	0.11059	0.06363	0.04478	0.01729	0.00050	0.00013	0.000	0.457	40.079	18.164	1.645	1.158	0.447	0.013	0.003	61.97
163	584014.20	4139376.60	0.05224	0.03228	0.23077	0.10984	0.06323	0.04390	0.01699	0.00056	0.00015	0.000	0.439	37.903	18.041	1.635	1.135	0.439	0.014	0.004	59.61
164	584022.85	4139374.14	0.05167	0.03148	0.22337	0.11190	0.06434	0.04412	0.01712	0.00063	0.00016	0.000	0.428	36.688	18.379	1.664	1.141	0.443	0.016	0.004	58.76
165	584031.51	4139371.67	0.05119	0.03109	0.22011	0.11656	0.06679	0.04526	0.01765	0.00072	0.00019	0.000	0.423	36.152	19.145	1.727	1.170	0.456	0.019	0.005	59.10
166	583982.03	4139395.11	0.04961	0.04022	0.32215	0.13034	0.07488	0.05455	0.02100	0.00039	0.00010	0.000	0.547	52.912	21.408	1.936	1.411	0.543	0.010	0.003	78.77
167	583990.69	4139392.64	0.04919	0.03677	0.28597	0.12068	0.06955	0.04987	0.01923	0.00042	0.00011	0.000	0.500	46.970	19.821	1.798	1.290	0.497	0.011	0.003	70.89
168	583999.35	4139390.18	0.04881	0.03428	0.26004	0.11484	0.06635	0.04684	0.01810	0.00047	0.00012	0.000	0.466	42.711	18.862	1.716	1.211	0.468	0.012	0.003	65.45
169	584008.00	4139387.72	0.04848	0.03267	0.24338	0.11261	0.06517	0.04534	0.01755	0.00052	0.00013	0.000	0.444	39.974	18.496	1.685	1.172	0.454	0.013	0.003	62.24
170	584016.66	4139385.26	0.04819	0.03176	0.23419	0.11357	0.06574	0.04515	0.01752	0.00059	0.00015	0.000	0.432	38.465	18.653	1.700	1.167	0.453	0.015	0.004	60.89
171	584025.32	4139382.79	0.04794	0.03138	0.23052	0.11731	0.06782	0.04604	0.01792	0.00066	0.00017	0.000	0.427	37.862	19.268	1.754	1.190	0.463	0.017	0.004	60.99
172	584033.97	4139380.33	0.04775	0.03135	0.23052	0.12357	0.07122	0.04781	0.01869	0.00076	0.00020	0.000	0.426	37.862	20.296	1.842	1.236	0.483	0.020	0.005	62.17
173	583984.50	4139403.76	0.04511	0.03803	0.30864	0.12756	0.07370	0.05309	0.02048	0.00040	0.00010	0.000	0.517	50.693	20.951	1.906	1.373	0.530	0.010	0.003	75.98
174	583993.15	4139401.30	0.04493	0.03506	0.27715	0.11974	0.06940	0.04916	0.01900	0.00044	0.00011	0.000	0.477	45.521	19.667	1.795	1.271	0.491	0.011	0.003	69.24
175	583986.96	4139412.42	0.04141	0.03594	0.29451	0.12491	0.07257	0.05157	0.01995	0.00042	0.00011	0.000	0.489	48.372	20.516	1.876	1.333	0.516	0.011	0.003	73.12
176	583995.62	4139409.96	0.04138	0.03356	0.26899	0.11939	0.06955	0.04860	0.01884	0.00046	0.00012	0.000	0.456	44.181	19.609	1.798	1.257	0.487	0.012	0.003	67.80
177	583989.42	4139421.08	0.03832	0.03398	0.28038	0.12264	0.07159	0.05011	0.01944	0.00044	0.00011	0.000	0.462	46.051	20.143	1.851	1.296	0.503	0.011	0.003	70.32
178	583998.08	4139418.61	0.03840	0.03233	0.26255	0.12001	0.07023	0.04836	0.01881	0.00049	0.00012	0.000	0.440	43.123	19.711	1.816	1.250	0.486	0.013	0.003	66.84
179	583991.88	4139429.73	0.03570	0.03219	0.26724	0.12105	0.07097	0.04885	0.01902	0.00046	0.00012	0.000	0.438	43.893	19.882	1.835	1.263	0.492	0.012	0.003	67.82
180	584000.54	4139427.27	0.03583	0.03148	0.25919	0.12202	0.07169	0.04866	0.01900	0.00051	0.00013	0.000	0.428	42.571	20.041	1.854	1.258	0.491	0.013	0.003	66.66
181	583994.35	4139438.39	0.03345	0.03071	0.25651	0.12058	0.07097	0.04802	0.01877	0.00049	0.00012	0.000	0.418	42.131	19.805	1.835	1.242	0.485	0.013	0.003	65.93
182	584003.00	4139435.93	0.03361	0.03115	0.26070	0.12594	0.07425	0.04975	0.01951	0.00054	0.00013	0.000	0.424	42.819	20.685	1.920	1.286	0.504	0.014	0.003	67.66
183	583996.81	4139447.05	0.03148	0.02970	0.25020	0.12176	0.07193	0.04791	0.01880	0.00052	0.00013	0.000	0.404	41.094	19.999	1.860	1.239	0.486	0.013	0.003	65.10
184	584005.47	4139444.58	0.03165	0.03152	0.26908	0.13235	0.07824	0.05194	0.02044	0.00057	0.00014	0.000	0.429	44.195	21.738	2.023	1.343	0.529	0.015	0.004	70.28
185	583999.27	4139455.70	0.02973	0.02935	0.25034	0.12518	0.07419	0.04881	0.01922	0.00055	0.00013	0.000	0.399	41.117	20.560	1.918	1.262	0.497	0.014	0.003	65.77
186	584007.93	4139453.24	0.02991	0.03268	0.28531	0.14141	0.08378	0.05536	0.02184	0.00060	0.00015	0.000	0.444	46.861	23.226	2.166	1.431	0.565	0.016	0.004	74.71
187	584016.59	4139450.78	0.03011	0.03633	0.32364	0.15968	0.09450	0.06265	0.02475	0.00067	0.00016	0.000	0.494	53.157	26.227	2.444	1.620	0.640	0.017	0.004	84.60
188	584025.24	4139448.31	0.03034	0.03980	0.35999	0.17849	0.10548	0.06994	0.02770	0.00075	0.00018	0.000	0.541	59.127	29.316	2.727	1.808	0.716	0.019	0.005	94.26
189	584033.90	4139445.85	0.03058	0.04289	0.39225	0.19749	0.11646	0.07699	0.03059	0.00085	0.00020	0.000	0.583	64.426	32.437	3.011	1.991	0.791	0.022	0.005	103.27
190	584042.55	4139443.39	0.03081	0.04551	0.41963	0.21675	0.12746	0.08379	0.03341	0.00097	0.00023	0.000	0.619	68.923	35.600	3.296	2.167	0.864	0.025	0.006	111.50
191	583979.57	4139386.45	0.04967	0.03732	0.29321	0.11794	0.06699	0.04906	0.01885	0.00034	0.00009	0.000	0.508	48.159	19.371	1.732	1.269	0.487	0.009	0.002	71.54
192	583988.23	4139383.99	0.04926	0.03373	0.25545	0.10712	0.06110	0.04404	0.01694	0.00037	0.00010	0.000	0.459	41.957	17.594	1.580	1.139	0.438	0.010	0.003	63.18
193	583996.88	4139381.52	0.04888	0.03125	0.22948	0.10056	0.05757	0.04086	0.01573	0.00041	0.00011	0.000	0.425	37.691	16.517	1.489	1.057	0.407	0.011	0.003	57.60
194	584005.54	4139379.06	0.04851	0.02957	0.21224	0.09733	0.05587	0.03909	0.01507	0.00045	0.00012	0.000	0.402	34.860	15.986	1.445	1.011	0.390	0.012	0.003	54.11
195	584014.20	4139376.60	0.04818	0.02853	0.20171	0.09686	0.05568	0.03846	0.01486	0.00050	0.00013	0.000	0.388	33.130	15.909	1.440	0.994	0.384	0.013	0.003	52.26
196	584022.85	4139374.14	0.04788	0.02797	0.19622	0.09875	0.05677	0.03877	0.01501	0.00057	0.00015	0.000	0.380	32.228	16.219	1.468	1.002	0.388	0.015	0.004	51.71
197	584031.51	4139371.67	0.04765	0.02775	0.19430	0.10279	0.05897	0.03986	0.01548	0.00065	0.00017	0.000	0.377	31.913	16.883	1.525	1.031	0.400	0.017	0.004	52.15
198	584040.17	4139369.21	0.04747	0.02777	0.19472	0.10896	0.06223	0.04162	0.01625	0.00074	0.00019	0.000	0.378	31.982	17.896	1.609	1.076	0.420	0.019	0.005	53.39
199	584048.82	4139366.75	0.04737	0.02791	0.19643	0.11753	0.06661	0.04404	0.01734	0.00086	0.00022	0.000	0.380	32.263	19.304	1.722	1.139	0.448	0.022	0.006	55.28
200	583982.03	4139395.11	0.04500	0.03532	0.28181	0.11532	0.06594	0.04782	0.01840	0.00035	0.00009	0.000	0.480	46.286	18.941	1.705	1.237	0.476	0.009	0.002	69.14
201	583990.69	4139392.64	0.04489	0.03206	0.24699	0.10572	0.06070	0.04326	0.01667	0.00039	0.00010	0.000	0.436	40.567	17.364	1.570	1.119	0.431	0.010	0.003	61.50
202	583999.35	4139390.18	0.04480	0.02995	0.22440	0.10052	0.05792	0.04062	0.01568	0.00042	0.00011	0.000	0.407	36.857	16.510	1.498	1.050	0.405	0.011	0.003	56.74
203	584008.00	4139387.72	0.04474	0.02867	0.21080	0.09875	0.05705	0.03944	0.01525	0.00047	0.00012	0.000	0.390	34.623	16.219	1.475	1.020	0.394	0.012	0.003	54.14
204	584016.66	4139385.26	0.04468	0.02802	0.20386	0.09976	0.05771	0.03942	0.01527	0.00053	0.00014	0.000	0.381	33.483	16.385	1.492	1.019	0.395	0.014	0.004	53.17

Receptor No.	Receptor Coordinates UTM-X (m)	UTM-Y (m)	2023 Conc DPM	2024 Conc DPM	2025 Conc DPM	2026 Conc DPM	2027 Conc DPM	2028 Conc DPM	2029 Conc DPM	2030 Conc DPM	2031 Conc DPM	2023 Construct Risk	2024 Construct Risk	2025 Construct Risk	2026 Construct Risk	2027 Construct Risk	2028 Construct Risk	2029 Construct Risk	2030 Construct Risk	2031 Construct Risk	2023-2031 Total Cancer Risk (per million)
205	584025.32	4139382.79	0.04465	0.02782	0.20169	0.10311	0.05965	0.04031	0.01565	0.00059	0.00015	0.000	0.378	33.127	16.935	1.542	1.042	0.405	0.015	0.004	53.45
206	584033.97	4139380.33	0.04464	0.02792	0.20268	0.10854	0.06268	0.04195	0.01634	0.00067	0.00017	0.000	0.380	33.289	17.827	1.621	1.085	0.423	0.017	0.004	54.65
207	584042.63	4139377.87	0.04467	0.02820	0.20549	0.11605	0.06674	0.04422	0.01731	0.00078	0.00020	0.000	0.384	33.751	19.061	1.726	1.143	0.448	0.020	0.005	56.54
208	584051.29	4139375.41	0.04473	0.02855	0.20904	0.12599	0.07193	0.04712	0.01859	0.00090	0.00023	0.000	0.388	34.334	20.693	1.860	1.218	0.481	0.023	0.006	59.00
209	583984.50	4139403.76	0.04120	0.03340	0.26941	0.11264	0.06483	0.04646	0.01791	0.00037	0.00009	0.000	0.454	44.250	18.501	1.676	1.201	0.463	0.010	0.002	66.56
210	583993.15	4139401.30	0.04127	0.03053	0.23846	0.10458	0.06043	0.04251	0.01642	0.00040	0.00010	0.000	0.415	39.166	17.177	1.563	1.099	0.425	0.010	0.003	59.86
211	584045.09	4139386.52	0.04208	0.02895	0.21917	0.12500	0.07233	0.04745	0.01864	0.00082	0.00021	0.000	0.394	35.998	20.531	1.870	1.227	0.482	0.021	0.005	60.53
212	584053.75	4139384.06	0.04225	0.02949	0.22453	0.13664	0.07849	0.05089	0.02016	0.00095	0.00024	0.000	0.401	36.878	22.443	2.030	1.316	0.521	0.025	0.006	63.62
213	583986.96	4139412.42	0.03805	0.03155	0.25652	0.11012	0.06376	0.04506	0.01741	0.00038	0.00010	0.000	0.429	42.133	18.087	1.649	1.165	0.450	0.010	0.003	63.92
214	583995.62	4139409.96	0.03823	0.02916	0.23044	0.10396	0.06043	0.04189	0.01623	0.00042	0.00011	0.000	0.397	37.849	17.075	1.563	1.083	0.420	0.011	0.003	58.40
215	584047.55	4139395.18	0.03968	0.03006	0.23628	0.13631	0.07922	0.05142	0.02032	0.00086	0.00022	0.000	0.409	38.808	22.388	2.048	1.330	0.525	0.022	0.006	65.54
216	584056.21	4139392.72	0.03992	0.03077	0.24331	0.15020	0.08657	0.05550	0.02214	0.00101	0.00026	0.000	0.418	39.963	24.670	2.238	1.435	0.572	0.026	0.007	69.33
217	583989.42	4139421.08	0.03540	0.02981	0.24364	0.10795	0.06285	0.04371	0.01694	0.00040	0.00010	0.000	0.405	40.017	17.730	1.625	1.130	0.438	0.010	0.003	61.36
218	583998.08	4139418.61	0.03565	0.02801	0.22380	0.10417	0.06087	0.04153	0.01615	0.00044	0.00011	0.000	0.381	36.758	17.110	1.574	1.074	0.418	0.011	0.003	57.33
219	584050.02	4139403.84	0.03745	0.03157	0.25734	0.15032	0.08754	0.05626	0.02240	0.00091	0.00023	0.000	0.429	42.267	24.690	2.264	1.455	0.579	0.024	0.006	71.71
220	584058.67	4139401.38	0.03772	0.03242	0.26581	0.16701	0.09628	0.06105	0.02458	0.00108	0.00027	0.000	0.441	43.658	27.431	2.490	1.579	0.636	0.028	0.007	76.27
221	583991.88	4139429.73	0.03314	0.02821	0.23158	0.10641	0.06226	0.04253	0.01655	0.00042	0.00011	0.000	0.384	38.036	17.477	1.610	1.100	0.428	0.011	0.003	59.05
222	584000.54	4139427.27	0.03342	0.02716	0.21970	0.10558	0.06200	0.04163	0.01625	0.00046	0.00012	0.000	0.369	36.085	17.341	1.603	1.076	0.420	0.012	0.003	56.91
223	584052.48	4139412.49	0.03537	0.03353	0.28286	0.16674	0.09716	0.06196	0.02485	0.00097	0.00024	0.000	0.456	46.459	27.386	2.512	1.602	0.643	0.025	0.006	79.09
224	584061.14	4139410.03	0.03564	0.03449	0.29250	0.18598	0.10719	0.06739	0.02736	0.00116	0.00028	0.000	0.469	48.042	30.547	2.772	1.743	0.707	0.030	0.007	84.32
225	583994.35	4139438.39	0.03117	0.02687	0.22166	0.10588	0.06224	0.04174	0.01631	0.00044	0.00011	0.000	0.365	36.407	17.390	1.609	1.079	0.422	0.011	0.003	57.29
226	584003.00	4139435.93	0.03146	0.02678	0.22001	0.10878	0.06414	0.04245	0.01664	0.00049	0.00012	0.000	0.364	36.136	17.867	1.659	1.098	0.430	0.013	0.003	57.57
227	584054.94	4139421.15	0.03341	0.03602	0.31371	0.18497	0.10788	0.06849	0.02761	0.00103	0.00025	0.000	0.490	51.526	30.381	2.790	1.771	0.714	0.027	0.006	87.70
228	584063.60	4139418.69	0.03367	0.03705	0.32417	0.20578	0.11877	0.07437	0.03033	0.00123	0.00030	0.000	0.504	53.244	33.799	3.071	1.923	0.784	0.032	0.008	93.36
229	583996.81	4139447.05	0.02944	0.02601	0.21636	0.10710	0.06323	0.04170	0.01636	0.00047	0.00012	0.000	0.354	35.536	17.591	1.635	1.078	0.423	0.012	0.003	56.63
230	584005.47	4139444.58	0.02971	0.02717	0.22795	0.11470	0.06787	0.04449	0.01751	0.00051	0.00013	0.000	0.369	37.440	18.839	1.755	1.150	0.453	0.013	0.003	60.02
231	583999.27	4139455.70	0.02789	0.02611	0.22089	0.11164	0.06618	0.04318	0.01700	0.00050	0.00012	0.000	0.355	36.280	18.336	1.711	1.117	0.440	0.013	0.003	58.26
232	584007.93	4139453.24	0.02814	0.02888	0.24964	0.12521	0.07429	0.04864	0.01918	0.00054	0.00013	0.000	0.393	41.003	20.565	1.921	1.258	0.496	0.014	0.003	65.65
233	584016.59	4139450.78	0.02843	0.03205	0.28275	0.14103	0.08366	0.05496	0.02171	0.00060	0.00015	0.000	0.436	46.441	23.164	2.163	1.421	0.561	0.016	0.004	74.21
234	584025.24	4139448.31	0.02873	0.03504	0.31385	0.15724	0.09321	0.06122	0.02424	0.00067	0.00016	0.000	0.477	51.549	25.826	2.410	1.583	0.627	0.017	0.004	82.49
235	584033.90	4139445.85	0.02904	0.03770	0.34139	0.17363	0.10277	0.06728	0.02673	0.00075	0.00018	0.000	0.513	56.072	28.518	2.657	1.740	0.691	0.019	0.005	90.22
236	584042.55	4139443.39	0.02933	0.03997	0.36487	0.19035	0.11241	0.07315	0.02918	0.00085	0.00020	0.000	0.544	59.929	31.264	2.907	1.891	0.755	0.022	0.005	97.32
237	584001.73	4139464.36	0.02648	0.02839	0.24822	0.12361	0.07347	0.04812	0.01896	0.00053	0.00013	0.000	0.386	40.769	20.303	1.900	1.244	0.490	0.014	0.003	65.11
238	584010.39	4139461.90	0.02671	0.03311	0.29785	0.14430	0.08572	0.05679	0.02238	0.00058	0.00014	0.000	0.450	48.921	23.701	2.217	1.468	0.579	0.015	0.004	77.35
239	584019.05	4139459.43	0.02697	0.03723	0.34109	0.16380	0.09723	0.06472	0.02554	0.00064	0.00015	0.000	0.506	56.023	26.904	2.514	1.673	0.660	0.017	0.004	88.30
240	584027.70	4139456.97	0.02724	0.04068	0.37716	0.18205	0.10795	0.07183	0.02840	0.00071	0.00017	0.000	0.553	61.947	29.901	2.791	1.857	0.734	0.018	0.004	97.81
241	584036.36	4139454.51	0.02751	0.04356	0.40719	0.19965	0.11822	0.07837	0.03108	0.00080	0.00019	0.000	0.592	66.880	32.792	3.057	2.026	0.804	0.021	0.005	106.18
242	584045.02	4139452.05	0.02777	0.04593	0.43184	0.21711	0.12831	0.08451	0.03364	0.00091	0.00021	0.000	0.625	70.928	35.660	3.318	2.185	0.870	0.024	0.005	**113.61**
		Maximum	0.05517	0.04593	0.43184	0.21711	0.12831	0.08451	0.03364	0.00211	0.00059	**0.00**	**0.625**	**70.928**	**35.660**	**3.318**	**2.185**	**0.870**	**0.055**	**0.015**	**113.61**

Google Middlefield - District Utilities Construction Impacts
DPM Cancer Risk Calculations From District Utilities Construction - With Mitigation
at Off-Site Residential Receptors (1st & 2nd level receptor heights)

Exposure Durations (years) for Maximum Cancer Risk

Exposure Type	2023	2024	2025	2026	2027	2028	2029	2030	2031
3rd Trimester (10)	0	0.25	0	0	0	0	0	0	0
Infant (10)	0	0	1	1	0	0	0	0	0
Child (3)	0	0	0	0	1	1	1	1	1
Adult (1)	0	0	0	0	0	0	0	0	0

Receptor No.	Receptor Coordinates UTM-X (m)	UTM-Y (m)	2023 Conc DPM	2024 Conc DPM	2025 Conc DPM	2026 Conc DPM	2027 Conc DPM	2028 Conc DPM	2029 Conc DPM	2030 Conc DPM	2031 Conc DPM	2023 Construct Risk	2024 Construct Risk	2025 Construct Risk	2026 Construct Risk	2027 Construct Risk	2028 Construct Risk	2029 Construct Risk	2030 Construct Risk	2031 Construct Risk	2023-2031 Total Cancer Risk (per million)
1	583674.05	4138932.37	0.00187	0.00070	0.00089	0.00059	0.00042	0.00029	0.00016	0.00004	0.00001	0.000	0.010	0.146	0.097	0.011	0.007	0.004	0.001	0.000	0.28
2	583685.82	4138936.00	0.00211	0.00079	0.00097	0.00062	0.00044	0.00031	0.00017	0.00004	0.00001	0.000	0.011	0.159	0.102	0.011	0.008	0.004	0.001	0.000	0.30
3	583705.56	4138942.41	0.00259	0.00098	0.00113	0.00069	0.00049	0.00035	0.00019	0.00004	0.00001	0.000	0.013	0.186	0.113	0.013	0.009	0.005	0.001	0.000	0.34
4	583715.08	4138945.35	0.00288	0.00109	0.00122	0.00073	0.00052	0.00037	0.00020	0.00004	0.00001	0.000	0.015	0.200	0.120	0.013	0.010	0.005	0.001	0.000	0.36
5	583722.18	4138945.87	0.00310	0.00117	0.00129	0.00076	0.00054	0.00039	0.00021	0.00005	0.00001	0.000	0.016	0.212	0.125	0.014	0.010	0.005	0.001	0.000	0.38
6	583727.20	4138939.64	0.00320	0.00121	0.00132	0.00078	0.00055	0.00040	0.00022	0.00005	0.00001	0.000	0.016	0.217	0.128	0.014	0.010	0.006	0.001	0.000	0.39
7	583734.13	4138930.98	0.00334	0.00126	0.00136	0.00081	0.00057	0.00041	0.00022	0.00005	0.00001	0.000	0.017	0.223	0.133	0.015	0.011	0.006	0.001	0.000	0.41
8	583740.36	4138923.02	0.00345	0.00130	0.00140	0.00083	0.00059	0.00043	0.00023	0.00005	0.00001	0.000	0.018	0.230	0.136	0.015	0.011	0.006	0.001	0.000	0.42
9	583745.55	4138915.57	0.00354	0.00134	0.00143	0.00085	0.00060	0.00044	0.00024	0.00005	0.00001	0.000	0.018	0.235	0.140	0.016	0.011	0.006	0.001	0.000	0.43
10	583750.23	4138909.86	0.00362	0.00137	0.00145	0.00087	0.00062	0.00045	0.00024	0.00005	0.00001	0.000	0.019	0.238	0.143	0.016	0.012	0.006	0.001	0.000	0.44
11	583755.59	4138902.41	0.00371	0.00140	0.00148	0.00089	0.00063	0.00046	0.00025	0.00005	0.00002	0.000	0.019	0.243	0.146	0.016	0.012	0.006	0.001	0.001	0.44
12	583747.80	4138895.84	0.00337	0.00127	0.00138	0.00085	0.00061	0.00043	0.00024	0.00005	0.00001	0.000	0.017	0.227	0.140	0.016	0.011	0.006	0.001	0.000	0.42
13	583757.15	4138883.72	0.00351	0.00132	0.00143	0.00088	0.00063	0.00045	0.00025	0.00006	0.00002	0.000	0.018	0.235	0.145	0.016	0.012	0.006	0.002	0.001	0.43
14	583765.46	4138890.29	0.00387	0.00146	0.00154	0.00093	0.00066	0.00048	0.00026	0.00006	0.00002	0.000	0.020	0.253	0.153	0.017	0.012	0.007	0.002	0.001	0.46
15	583771.18	4138882.33	0.00395	0.00149	0.00157	0.00095	0.00068	0.00049	0.00027	0.00006	0.00002	0.000	0.020	0.258	0.156	0.018	0.013	0.007	0.002	0.001	0.47
16	583776.72	4138875.93	0.00404	0.00152	0.00160	0.00098	0.00070	0.00050	0.00027	0.00006	0.00002	0.000	0.021	0.263	0.161	0.018	0.013	0.007	0.002	0.001	0.48
17	583783.64	4138866.92	0.00413	0.00156	0.00163	0.00100	0.00072	0.00051	0.00028	0.00006	0.00002	0.000	0.021	0.268	0.164	0.019	0.013	0.007	0.002	0.001	0.49
18	583788.14	4138861.04	0.00419	0.00158	0.00165	0.00102	0.00073	0.00052	0.00029	0.00006	0.00002	0.000	0.021	0.271	0.168	0.019	0.013	0.007	0.002	0.001	0.50
19	583794.20	4138852.90	0.00425	0.00160	0.00168	0.00105	0.00075	0.00054	0.00029	0.00007	0.00002	0.000	0.022	0.276	0.172	0.019	0.014	0.007	0.002	0.001	0.51
20	583714.91	4138939.46	0.00283	0.00107	0.00120	0.00073	0.00052	0.00037	0.00020	0.00004	0.00001	0.000	0.015	0.197	0.120	0.013	0.010	0.005	0.001	0.000	0.36
21	583719.93	4138932.71	0.00291	0.00110	0.00123	0.00075	0.00053	0.00038	0.00021	0.00005	0.00001	0.000	0.015	0.202	0.123	0.014	0.010	0.005	0.001	0.000	0.37
22	583725.30	4138925.27	0.00300	0.00113	0.00126	0.00077	0.00054	0.00039	0.00021	0.00005	0.00001	0.000	0.015	0.207	0.126	0.014	0.010	0.005	0.001	0.000	0.38
23	583731.88	4138917.30	0.00312	0.00118	0.00130	0.00079	0.00056	0.00040	0.00022	0.00005	0.00001	0.000	0.016	0.214	0.130	0.014	0.010	0.006	0.001	0.000	0.39
24	583737.24	4138909.69	0.00320	0.00121	0.00132	0.00081	0.00058	0.00041	0.00022	0.00005	0.00001	0.000	0.016	0.217	0.133	0.015	0.011	0.006	0.001	0.000	0.40
25	583742.96	4138903.11	0.00330	0.00125	0.00136	0.00083	0.00059	0.00042	0.00023	0.00005	0.00001	0.000	0.017	0.223	0.136	0.015	0.011	0.006	0.001	0.000	0.41
26	583762.52	4138876.96	0.00359	0.00135	0.00146	0.00091	0.00065	0.00046	0.00025	0.00006	0.00002	0.000	0.018	0.240	0.149	0.017	0.012	0.006	0.002	0.001	0.44
27	583768.41	4138869.87	0.00367	0.00138	0.00149	0.00093	0.00066	0.00047	0.00026	0.00006	0.00002	0.000	0.019	0.245	0.153	0.017	0.012	0.007	0.002	0.001	0.45
28	583775.16	4138860.34	0.00375	0.00141	0.00152	0.00095	0.00068	0.00049	0.00027	0.00006	0.00002	0.000	0.019	0.250	0.156	0.018	0.013	0.007	0.002	0.001	0.46
29	583781.04	4138853.42	0.00383	0.00144	0.00155	0.00098	0.00070	0.00050	0.00027	0.00006	0.00002	0.000	0.020	0.255	0.161	0.018	0.013	0.007	0.002	0.001	0.48
30	583694.83	4138938.94	0.00231	0.00087	0.00104	0.00066	0.00047	0.00033	0.00018	0.00004	0.00001	0.000	0.012	0.171	0.108	0.012	0.009	0.005	0.001	0.000	0.32
31	584511.66	4138899.64	0.00309	0.00115	0.00189	0.00994	0.00660	0.00489	0.00308	0.00140	0.00039	0.000	0.016	0.310	1.633	0.171	0.126	0.080	0.036	0.010	2.38
32	584507.85	4138883.72	0.00320	0.00120	0.00191	0.00978	0.00652	0.00480	0.00302	0.00135	0.00038	0.000	0.016	0.314	1.606	0.169	0.124	0.078	0.035	0.010	2.35
33	584503.70	4138868.48	0.00331	0.00123	0.00194	0.00962	0.00645	0.00470	0.00297	0.00130	0.00036	0.000	0.017	0.319	1.580	0.167	0.122	0.077	0.034	0.009	2.32
34	584500.23	4138850.13	0.00340	0.00126	0.00195	0.00937	0.00632	0.00457	0.00289	0.00124	0.00034	0.000	0.017	0.320	1.539	0.163	0.118	0.075	0.032	0.009	2.27
35	584537.28	4138897.91	0.00259	0.00097	0.00171	0.00905	0.00597	0.00449	0.00280	0.00134	0.00038	0.000	0.013	0.281	1.486	0.154	0.116	0.072	0.035	0.010	2.17
36	584533.13	4138879.91	0.00270	0.00101	0.00174	0.00893	0.00593	0.00442	0.00276	0.00129	0.00036	0.000	0.014	0.286	1.467	0.153	0.114	0.071	0.033	0.009	2.15
37	584527.93	4138865.02	0.00282	0.00105	0.00177	0.00888	0.00592	0.00438	0.00274	0.00125	0.00035	0.000	0.014	0.291	1.459	0.153	0.113	0.071	0.032	0.009	2.14
38	583674.05	4138932.37	0.00180	0.00067	0.00085	0.00057	0.00040	0.00028	0.00016	0.00004	0.00001	0.000	0.009	0.140	0.094	0.010	0.007	0.004	0.001	0.000	0.27
39	583685.82	4138936.00	0.00202	0.00075	0.00093	0.00060	0.00043	0.00030	0.00017	0.00004	0.00001	0.000	0.010	0.153	0.099	0.011	0.008	0.004	0.001	0.000	0.29
40	583705.56	4138942.41	0.00248	0.00093	0.00108	0.00067	0.00048	0.00034	0.00018	0.00004	0.00001	0.000	0.013	0.177	0.110	0.012	0.009	0.005	0.001	0.000	0.33
41	583715.08	4138945.35	0.00274	0.00103	0.00117	0.00071	0.00050	0.00036	0.00020	0.00004	0.00001	0.000	0.014	0.192	0.117	0.013	0.009	0.005	0.001	0.000	0.35
42	583722.18	4138945.87	0.00296	0.00111	0.00124	0.00074	0.00052	0.00038	0.00020	0.00004	0.00001	0.000	0.015	0.204	0.122	0.013	0.010	0.005	0.001	0.000	0.37
43	583727.20	4138939.64	0.00305	0.00115	0.00127	0.00075	0.00053	0.00039	0.00021	0.00005	0.00001	0.000	0.016	0.209	0.123	0.014	0.010	0.005	0.001	0.000	0.38
44	583734.13	4138930.98	0.00318	0.00120	0.00131	0.00078	0.00055	0.00040	0.00022	0.00005	0.00001	0.000	0.016	0.215	0.128	0.014	0.010	0.006	0.001	0.000	0.39
45	583740.36	4138923.02	0.00329	0.00124	0.00134	0.00080	0.00057	0.00041	0.00022	0.00005	0.00001	0.000	0.017	0.220	0.131	0.015	0.011	0.006	0.001	0.000	0.40
46	583745.55	4138915.57	0.00337	0.00127	0.00137	0.00082	0.00058	0.00042	0.00023	0.00005	0.00001	0.000	0.017	0.225	0.135	0.015	0.011	0.006	0.001	0.000	0.41
47	583750.23	4138909.86	0.00345	0.00130	0.00140	0.00084	0.00060	0.00043	0.00023	0.00005	0.00001	0.000	0.018	0.230	0.138	0.016	0.011	0.006	0.001	0.000	0.42
48	583755.59	4138902.41	0.00353	0.00133	0.00142	0.00086	0.00061	0.00044	0.00024	0.00005	0.00001	0.000	0.018	0.233	0.141	0.016	0.011	0.006	0.001	0.000	0.43
49	583747.80	4138895.84	0.00321	0.00121	0.00133	0.00082	0.00059	0.00042	0.00023	0.00005	0.00001	0.000	0.016	0.218	0.135	0.015	0.011	0.006	0.001	0.000	0.40
50	583757.15	4138883.72	0.00335	0.00126	0.00137	0.00086	0.00061	0.00044	0.00024	0.00005	0.00001	0.000	0.017	0.225	0.141	0.016	0.011	0.006	0.001	0.000	0.42
51	583765.46	4138890.29	0.00370	0.00139	0.00148	0.00090	0.00064	0.00046	0.00025	0.00006	0.00002	0.000	0.019	0.243	0.148	0.017	0.012	0.006	0.002	0.001	0.45
52	583771.18	4138882.33	0.00377	0.00142	0.00151	0.00092	0.00066	0.00047	0.00026	0.00006	0.00002	0.000	0.019	0.248	0.151	0.017	0.012	0.007	0.002	0.001	0.46
53	583776.72	4138875.93	0.00386	0.00145	0.00154	0.00094	0.00067	0.00048	0.00026	0.00006	0.00002	0.000	0.020	0.253	0.154	0.017	0.012	0.007	0.002	0.001	0.47
54	583783.64	4138866.92	0.00395	0.00148	0.00157	0.00097	0.00070	0.00050	0.00027	0.00006	0.00002	0.000	0.020	0.258	0.159	0.018	0.013	0.007	0.002	0.001	0.48
55	583788.14	4138861.04	0.00400	0.00150	0.00159	0.00099	0.00071	0.00051	0.00028	0.00006	0.00002	0.000	0.020	0.261	0.163	0.018	0.013	0.007	0.002	0.001	0.49
56	583794.20	4138852.90	0.00406	0.00153	0.00162	0.00101	0.00073	0.00052	0.00028	0.00006	0.00002	0.000	0.021	0.266	0.166	0.019	0.013	0.007	0.002	0.001	0.49
57	583714.91	4138939.46	0.00270	0.00101	0.00116	0.00071	0.00050	0.00036	0.00019	0.00004	0.00001	0.000	0.014	0.191	0.117	0.013	0.009	0.005	0.001	0.000	0.35

Receptor No.	Receptor Coordinates UTM-X (m)	UTM-Y (m)	2023 Conc DPM	2024 Conc DPM	2025 Conc DPM	2026 Conc DPM	2027 Conc DPM	2028 Conc DPM	2029 Conc DPM	2030 Conc DPM	2031 Conc DPM	2023 Construct Risk	2024 Construct Risk	2025 Construct Risk	2026 Construct Risk	2027 Construct Risk	2028 Construct Risk	2029 Construct Risk	2030 Construct Risk	2031 Construct Risk	2023-2031 Total Cancer Risk (per million)
58	583719.93	4138932.71	0.00278	0.00105	0.00118	0.00072	0.00051	0.00037	0.00020	0.00004	0.00001	0.000	0.014	0.194	0.118	0.013	0.010	0.005	0.001	0.000	0.36
59	583725.30	4138925.27	0.00287	0.00108	0.00121	0.00074	0.00053	0.00038	0.00021	0.00005	0.00001	0.000	0.015	0.199	0.122	0.014	0.010	0.005	0.001	0.000	0.37
60	583731.88	4138917.30	0.00298	0.00112	0.00125	0.00076	0.00054	0.00039	0.00021	0.00005	0.00001	0.000	0.015	0.205	0.125	0.014	0.010	0.005	0.001	0.000	0.38
61	583737.24	4138909.69	0.00306	0.00115	0.00127	0.00078	0.00056	0.00040	0.00022	0.00005	0.00001	0.000	0.016	0.209	0.128	0.014	0.010	0.006	0.001	0.000	0.38
62	583742.96	4138903.11	0.00315	0.00118	0.00131	0.00080	0.00057	0.00041	0.00022	0.00005	0.00001	0.000	0.016	0.215	0.131	0.015	0.011	0.006	0.001	0.000	0.40
63	583762.52	4138876.96	0.00342	0.00129	0.00140	0.00088	0.00063	0.00045	0.00024	0.00006	0.00002	0.000	0.018	0.230	0.145	0.016	0.012	0.006	0.002	0.001	0.43
64	583768.41	4138869.87	0.00351	0.00132	0.00143	0.00090	0.00064	0.00046	0.00025	0.00006	0.00002	0.000	0.018	0.235	0.148	0.017	0.012	0.006	0.002	0.001	0.44
65	583775.16	4138860.34	0.00358	0.00134	0.00146	0.00092	0.00066	0.00047	0.00026	0.00006	0.00002	0.000	0.018	0.240	0.151	0.017	0.012	0.007	0.002	0.001	0.45
66	583781.04	4138853.42	0.00366	0.00137	0.00149	0.00095	0.00068	0.00048	0.00027	0.00006	0.00002	0.000	0.019	0.245	0.156	0.018	0.012	0.007	0.002	0.001	0.46
67	583694.83	4138938.94	0.00221	0.00083	0.00100	0.00063	0.00045	0.00032	0.00017	0.00004	0.00001	0.000	0.011	0.164	0.103	0.012	0.008	0.004	0.001	0.000	0.30
68	584511.66	4138899.64	0.00294	0.00110	0.00183	0.00962	0.00638	0.00474	0.00298	0.00137	0.00038	0.000	0.015	0.301	1.580	0.165	0.123	0.077	0.035	0.010	2.31
69	584507.85	4138883.72	0.00306	0.00114	0.00185	0.00947	0.00631	0.00465	0.00293	0.00131	0.00037	0.000	0.016	0.304	1.555	0.163	0.120	0.076	0.034	0.010	2.28
70	584503.70	4138868.48	0.00316	0.00118	0.00188	0.00931	0.00624	0.00456	0.00287	0.00126	0.00035	0.000	0.016	0.309	1.529	0.161	0.118	0.074	0.033	0.009	2.25
71	584500.23	4138850.13	0.00325	0.00121	0.00189	0.00908	0.00613	0.00443	0.00280	0.00121	0.00033	0.000	0.016	0.310	1.491	0.159	0.115	0.072	0.031	0.009	2.20
72	584537.28	4138897.91	0.00248	0.00093	0.00166	0.00876	0.00578	0.00436	0.00271	0.00131	0.00037	0.000	0.013	0.273	1.439	0.149	0.113	0.070	0.034	0.010	2.10
73	584533.13	4138879.91	0.00258	0.00097	0.00169	0.00865	0.00574	0.00428	0.00267	0.00126	0.00035	0.000	0.013	0.278	1.421	0.148	0.111	0.069	0.033	0.009	2.08
74	584527.93	4138865.02	0.00270	0.00101	0.00172	0.00861	0.00574	0.00425	0.00266	0.00122	0.00034	0.000	0.014	0.283	1.414	0.148	0.110	0.069	0.032	0.009	2.08
75	583484.36	4139204.52	0.00048	0.00017	0.00024	0.00028	0.00021	0.00013	0.00007	0.00002	0.00001	0.000	0.002	0.039	0.046	0.005	0.003	0.002	0.001	0.000	0.10
76	583493.96	4139201.73	0.00050	0.00018	0.00025	0.00028	0.00021	0.00013	0.00008	0.00002	0.00001	0.000	0.002	0.041	0.046	0.005	0.003	0.002	0.001	0.000	0.10
77	583503.57	4139198.94	0.00052	0.00019	0.00026	0.00029	0.00022	0.00013	0.00008	0.00002	0.00001	0.000	0.003	0.043	0.048	0.006	0.003	0.002	0.001	0.000	0.10
78	583513.17	4139196.15	0.00054	0.00019	0.00028	0.00030	0.00022	0.00014	0.00008	0.00002	0.00001	0.000	0.003	0.046	0.049	0.006	0.004	0.002	0.001	0.000	0.11
79	583522.77	4139193.37	0.00056	0.00021	0.00029	0.00031	0.00023	0.00014	0.00008	0.00002	0.00001	0.000	0.003	0.048	0.051	0.006	0.004	0.002	0.001	0.000	0.11
80	583532.38	4139190.58	0.00059	0.00022	0.00031	0.00032	0.00024	0.00015	0.00009	0.00002	0.00001	0.000	0.003	0.051	0.053	0.006	0.004	0.002	0.001	0.000	0.12
81	583541.98	4139187.79	0.00062	0.00023	0.00033	0.00033	0.00024	0.00015	0.00009	0.00002	0.00001	0.000	0.003	0.054	0.054	0.006	0.004	0.002	0.001	0.000	0.12
82	583487.15	4139214.12	0.00049	0.00018	0.00024	0.00028	0.00021	0.00013	0.00008	0.00002	0.00001	0.000	0.002	0.039	0.046	0.005	0.003	0.002	0.001	0.000	0.10
83	583496.75	4139211.33	0.00051	0.00018	0.00025	0.00029	0.00022	0.00013	0.00008	0.00002	0.00001	0.000	0.002	0.041	0.048	0.006	0.003	0.002	0.001	0.000	0.10
84	583506.36	4139208.55	0.00054	0.00019	0.00027	0.00030	0.00022	0.00014	0.00008	0.00002	0.00001	0.000	0.003	0.044	0.049	0.006	0.004	0.002	0.001	0.000	0.11
85	583515.96	4139205.76	0.00056	0.00020	0.00028	0.00030	0.00023	0.00014	0.00008	0.00002	0.00001	0.000	0.003	0.046	0.049	0.006	0.004	0.002	0.001	0.000	0.11
86	583525.56	4139202.97	0.00059	0.00021	0.00030	0.00031	0.00023	0.00015	0.00008	0.00002	0.00001	0.000	0.003	0.049	0.051	0.006	0.004	0.002	0.001	0.000	0.12
87	583535.17	4139200.18	0.00061	0.00022	0.00031	0.00032	0.00024	0.00015	0.00009	0.00002	0.00001	0.000	0.003	0.051	0.053	0.006	0.004	0.002	0.001	0.000	0.12
88	583544.77	4139197.39	0.00065	0.00024	0.00033	0.00033	0.00025	0.00016	0.00009	0.00002	0.00001	0.000	0.003	0.054	0.054	0.006	0.004	0.002	0.001	0.000	0.13
89	583489.94	4139223.73	0.00051	0.00018	0.00025	0.00029	0.00021	0.00013	0.00008	0.00002	0.00001	0.000	0.002	0.041	0.048	0.005	0.003	0.002	0.001	0.000	0.10
90	583499.54	4139220.94	0.00053	0.00019	0.00026	0.00029	0.00022	0.00014	0.00008	0.00002	0.00001	0.000	0.003	0.043	0.048	0.006	0.004	0.002	0.001	0.000	0.11
91	583509.14	4139218.15	0.00056	0.00020	0.00027	0.00030	0.00022	0.00014	0.00008	0.00002	0.00001	0.000	0.003	0.044	0.049	0.006	0.004	0.002	0.001	0.000	0.11
92	583518.75	4139215.36	0.00058	0.00021	0.00029	0.00031	0.00023	0.00014	0.00008	0.00002	0.00001	0.000	0.003	0.048	0.051	0.006	0.004	0.002	0.001	0.000	0.11
93	583528.35	4139212.57	0.00061	0.00022	0.00030	0.00032	0.00024	0.00015	0.00009	0.00002	0.00001	0.000	0.003	0.049	0.053	0.006	0.004	0.002	0.001	0.000	0.12
94	583537.95	4139209.79	0.00064	0.00023	0.00032	0.00033	0.00024	0.00015	0.00009	0.00002	0.00001	0.000	0.003	0.053	0.054	0.006	0.004	0.002	0.001	0.000	0.12
95	583547.56	4139207.00	0.00067	0.00025	0.00034	0.00034	0.00025	0.00016	0.00009	0.00003	0.00001	0.000	0.003	0.056	0.056	0.006	0.004	0.002	0.001	0.000	0.13
96	583492.73	4139233.33	0.00053	0.00019	0.00025	0.00029	0.00022	0.00013	0.00008	0.00002	0.00001	0.000	0.003	0.041	0.048	0.006	0.003	0.002	0.001	0.000	0.10
97	583502.33	4139230.54	0.00055	0.00020	0.00026	0.00030	0.00022	0.00014	0.00008	0.00002	0.00001	0.000	0.003	0.043	0.049	0.006	0.004	0.002	0.001	0.000	0.11
98	583511.93	4139227.75	0.00058	0.00021	0.00028	0.00031	0.00023	0.00014	0.00008	0.00002	0.00001	0.000	0.003	0.046	0.051	0.006	0.004	0.002	0.001	0.000	0.11
99	583521.54	4139224.97	0.00060	0.00022	0.00029	0.00031	0.00023	0.00015	0.00008	0.00002	0.00001	0.000	0.003	0.048	0.051	0.006	0.004	0.002	0.001	0.000	0.11
100	583531.14	4139222.18	0.00063	0.00023	0.00031	0.00032	0.00024	0.00015	0.00009	0.00002	0.00001	0.000	0.003	0.051	0.053	0.006	0.004	0.002	0.001	0.000	0.12
101	583540.74	4139219.39	0.00067	0.00024	0.00033	0.00033	0.00025	0.00016	0.00009	0.00003	0.00001	0.000	0.003	0.054	0.054	0.006	0.004	0.002	0.001	0.000	0.13
102	583550.35	4139216.60	0.00070	0.00026	0.00035	0.00034	0.00026	0.00016	0.00009	0.00003	0.00001	0.000	0.004	0.057	0.056	0.007	0.004	0.002	0.001	0.000	0.13
103	583495.51	4139242.93	0.00055	0.00020	0.00026	0.00030	0.00022	0.00014	0.00008	0.00002	0.00001	0.000	0.003	0.043	0.049	0.006	0.004	0.002	0.001	0.000	0.11
104	583505.12	4139240.15	0.00058	0.00021	0.00027	0.00030	0.00023	0.00014	0.00008	0.00002	0.00001	0.000	0.003	0.044	0.049	0.006	0.004	0.002	0.001	0.000	0.11
105	583514.72	4139237.36	0.00060	0.00022	0.00028	0.00031	0.00023	0.00014	0.00008	0.00002	0.00001	0.000	0.003	0.046	0.051	0.006	0.004	0.002	0.001	0.000	0.11
106	583524.32	4139234.57	0.00063	0.00023	0.00030	0.00032	0.00024	0.00015	0.00009	0.00002	0.00001	0.000	0.003	0.049	0.053	0.006	0.004	0.002	0.001	0.000	0.12
107	583533.93	4139231.78	0.00066	0.00024	0.00031	0.00033	0.00024	0.00015	0.00009	0.00003	0.00001	0.000	0.003	0.051	0.054	0.006	0.004	0.002	0.001	0.000	0.12
108	583543.53	4139228.99	0.00070	0.00026	0.00033	0.00034	0.00025	0.00016	0.00009	0.00003	0.00001	0.000	0.004	0.054	0.056	0.006	0.004	0.002	0.001	0.000	0.13
109	583553.13	4139226.20	0.00074	0.00027	0.00036	0.00035	0.00026	0.00017	0.00010	0.00003	0.00001	0.000	0.004	0.059	0.057	0.007	0.004	0.003	0.001	0.000	0.14
110	583498.30	4139252.54	0.00058	0.00021	0.00027	0.00030	0.00023	0.00014	0.00008	0.00002	0.00001	0.000	0.003	0.044	0.049	0.006	0.004	0.002	0.001	0.000	0.11
111	583507.91	4139249.75	0.00060	0.00022	0.00028	0.00031	0.00023	0.00014	0.00008	0.00002	0.00001	0.000	0.003	0.046	0.051	0.006	0.004	0.002	0.001	0.000	0.11
112	583517.51	4139246.96	0.00063	0.00023	0.00029	0.00032	0.00024	0.00015	0.00009	0.00003	0.00001	0.000	0.003	0.048	0.053	0.006	0.004	0.002	0.001	0.000	0.12
113	583527.11	4139244.17	0.00066	0.00024	0.00031	0.00033	0.00024	0.00015	0.00009	0.00003	0.00001	0.000	0.003	0.051	0.054	0.006	0.004	0.002	0.001	0.000	0.12
114	583536.72	4139241.38	0.00069	0.00025	0.00032	0.00033	0.00025	0.00016	0.00009	0.00003	0.00001	0.000	0.003	0.053	0.054	0.006	0.004	0.002	0.001	0.000	0.12
115	583546.32	4139238.60	0.00073	0.00027	0.00034	0.00035	0.00026	0.00016	0.00009	0.00003	0.00001	0.000	0.004	0.056	0.057	0.007	0.004	0.002	0.001	0.000	0.13
116	583555.92	4139235.81	0.00077	0.00029	0.00036	0.00036	0.00027	0.00017	0.00010	0.00003	0.00001	0.000	0.004	0.059	0.059	0.007	0.004	0.003	0.001	0.000	0.14
117	583484.36	4139204.52	0.00046	0.00016	0.00023	0.00027	0.00020	0.00012	0.00007	0.00002	0.00001	0.000	0.002	0.038	0.044	0.005	0.003	0.002	0.001	0.000	0.10
118	583493.96	4139201.73	0.00048	0.00017	0.00024	0.00028	0.00021	0.00013	0.00007	0.00002	0.00001	0.000	0.002	0.039	0.046	0.005	0.003	0.002	0.001	0.000	0.10
119	583503.57	4139198.94	0.00050	0.00018	0.00025	0.00028	0.00021	0.00013	0.00008	0.00002	0.00001	0.000	0.002	0.041	0.046	0.005	0.003	0.002	0.001	0.000	0.10
120	583513.17	4139196.15	0.00052	0.00019	0.00026	0.00029	0.00022	0.00013	0.00008	0.00002	0.00001	0.000	0.003	0.043	0.048	0.006	0.003	0.002	0.001	0.000	0.10
121	583522.77	4139193.37	0.00054	0.00020	0.00028	0.00030	0.00022	0.00014	0.00008	0.00002	0.00001	0.000	0.003	0.046	0.049	0.006	0.004	0.002	0.001	0.000	0.11
122	583532.38	4139190.58	0.00057	0.00021	0.00030	0.00031	0.00023	0.00014	0.00008	0.00002	0.00001	0.000	0.003	0.049	0.051	0.006	0.004	0.002	0.001	0.000	0.12
123	583541.98	4139187.79	0.00059	0.00022	0.00031	0.00032	0.00023	0.00015	0.00009	0.00002	0.00001	0.000	0.003	0.051	0.053	0.006	0.004	0.002	0.001	0.000	0.12
124	583487.15	4139214.12	0.00047	0.00017	0.00023	0.00027	0.00020	0.00013	0.00007	0.00002	0.00001	0.000	0.002	0.038	0.044	0.005	0.003	0.002	0.001	0.000	0.10
125	583496.75	4139211.33	0.00049	0.00018	0.00024	0.00028	0.00021	0.00013	0.00008	0.00002	0.00001	0.000	0.002	0.039	0.046	0.005	0.003	0.002	0.001	0.000	0.10
126	583506.36	4139208.55	0.00051	0.00018	0.00025	0.00029	0.00021	0.00013	0.00008	0.00002	0.00001	0.000	0.002	0.041	0.048	0.005	0.003	0.002	0.001	0.000	0.10
127	583515.96	4139205.76	0.00054	0.00019	0.00027	0.00029	0.00022	0.00014	0.00008	0.00002	0.00001	0.000	0.003	0.044	0.048	0.006	0.004	0.002	0.001	0.000	0.11

Receptor No.	Receptor Coordinates UTM-X (m)	UTM-Y (m)	2023 Conc DPM	2024 Conc DPM	2025 Conc DPM	2026 Conc DPM	2027 Conc DPM	2028 Conc DPM	2029 Conc DPM	2030 Conc DPM	2031 Conc DPM	2023 Construct Risk	2024 Construct Risk	2025 Construct Risk	2026 Construct Risk	2027 Construct Risk	2028 Construct Risk	2029 Construct Risk	2030 Construct Risk	2031 Construct Risk	2023-2031 Total Cancer Risk (per million)
128	583525.56	4139202.97	0.00056	0.00020	0.00028	0.00030	0.00022	0.00014	0.00008	0.00002	0.00001	0.000	0.003	0.046	0.049	0.006	0.004	0.002	0.001	0.000	0.11
129	583535.17	4139200.18	0.00059	0.00021	0.00030	0.00031	0.00023	0.00015	0.00008	0.00002	0.00001	0.000	0.003	0.049	0.051	0.006	0.004	0.002	0.001	0.000	0.12
130	583544.77	4139197.39	0.00062	0.00023	0.00032	0.00032	0.00024	0.00015	0.00009	0.00002	0.00001	0.000	0.003	0.053	0.053	0.006	0.004	0.002	0.001	0.000	0.12
131	583489.94	4139223.73	0.00049	0.00018	0.00024	0.00028	0.00021	0.00013	0.00007	0.00002	0.00001	0.000	0.002	0.039	0.046	0.005	0.003	0.002	0.001	0.000	0.10
132	583499.54	4139220.94	0.00051	0.00018	0.00025	0.00028	0.00021	0.00013	0.00008	0.00002	0.00001	0.000	0.002	0.041	0.046	0.005	0.003	0.002	0.001	0.000	0.10
133	583509.14	4139218.15	0.00053	0.00019	0.00026	0.00029	0.00022	0.00014	0.00008	0.00002	0.00001	0.000	0.003	0.043	0.048	0.006	0.004	0.002	0.001	0.000	0.11
134	583518.75	4139215.36	0.00056	0.00020	0.00027	0.00030	0.00022	0.00014	0.00008	0.00002	0.00001	0.000	0.003	0.044	0.049	0.006	0.004	0.002	0.001	0.000	0.11
135	583528.35	4139212.57	0.00058	0.00021	0.00029	0.00031	0.00023	0.00014	0.00008	0.00002	0.00001	0.000	0.003	0.048	0.051	0.006	0.004	0.002	0.001	0.000	0.11
136	583537.95	4139209.79	0.00061	0.00022	0.00031	0.00032	0.00023	0.00015	0.00009	0.00002	0.00001	0.000	0.003	0.051	0.053	0.006	0.004	0.002	0.001	0.000	0.12
137	583547.56	4139207.00	0.00064	0.00024	0.00032	0.00033	0.00024	0.00015	0.00009	0.00002	0.00001	0.000	0.003	0.053	0.054	0.006	0.004	0.002	0.001	0.000	0.12
138	583492.73	4139233.33	0.00051	0.00018	0.00024	0.00028	0.00021	0.00013	0.00008	0.00002	0.00001	0.000	0.002	0.039	0.046	0.005	0.003	0.002	0.001	0.000	0.10
139	583502.33	4139230.54	0.00053	0.00019	0.00025	0.00029	0.00022	0.00013	0.00008	0.00002	0.00001	0.000	0.003	0.041	0.048	0.006	0.003	0.002	0.001	0.000	0.10
140	583511.93	4139227.75	0.00055	0.00020	0.00026	0.00030	0.00022	0.00014	0.00008	0.00002	0.00001	0.000	0.003	0.043	0.049	0.006	0.004	0.002	0.001	0.000	0.11
141	583521.54	4139224.97	0.00058	0.00021	0.00028	0.00030	0.00023	0.00014	0.00008	0.00002	0.00001	0.000	0.003	0.046	0.049	0.006	0.004	0.002	0.001	0.000	0.11
142	583531.14	4139222.18	0.00061	0.00022	0.00029	0.00031	0.00023	0.00015	0.00008	0.00002	0.00001	0.000	0.003	0.048	0.051	0.006	0.004	0.002	0.001	0.000	0.11
143	583540.74	4139219.39	0.00064	0.00023	0.00031	0.00032	0.00024	0.00015	0.00009	0.00002	0.00001	0.000	0.003	0.051	0.053	0.006	0.004	0.002	0.001	0.000	0.12
144	583550.35	4139216.60	0.00067	0.00025	0.00033	0.00033	0.00025	0.00016	0.00009	0.00002	0.00001	0.000	0.003	0.054	0.054	0.006	0.004	0.002	0.001	0.000	0.13
145	583495.51	4139242.93	0.00053	0.00019	0.00025	0.00029	0.00021	0.00013	0.00008	0.00002	0.00001	0.000	0.003	0.041	0.048	0.005	0.003	0.002	0.001	0.000	0.10
146	583505.12	4139240.15	0.00055	0.00020	0.00026	0.00029	0.00022	0.00014	0.00008	0.00002	0.00001	0.000	0.003	0.043	0.048	0.006	0.004	0.002	0.001	0.000	0.11
147	583514.72	4139237.36	0.00058	0.00021	0.00027	0.00030	0.00022	0.00014	0.00008	0.00002	0.00001	0.000	0.003	0.044	0.049	0.006	0.004	0.002	0.001	0.000	0.11
148	583524.32	4139234.57	0.00060	0.00022	0.00028	0.00031	0.00023	0.00014	0.00008	0.00002	0.00001	0.000	0.003	0.046	0.051	0.006	0.004	0.002	0.001	0.000	0.11
149	583533.93	4139231.78	0.00063	0.00023	0.00030	0.00032	0.00024	0.00015	0.00009	0.00002	0.00001	0.000	0.003	0.049	0.053	0.006	0.004	0.002	0.001	0.000	0.12
150	583543.53	4139228.99	0.00067	0.00024	0.00032	0.00033	0.00024	0.00015	0.00009	0.00003	0.00001	0.000	0.003	0.053	0.054	0.006	0.004	0.002	0.001	0.000	0.12
151	583553.13	4139226.20	0.00070	0.00026	0.00034	0.00034	0.00025	0.00016	0.00009	0.00003	0.00001	0.000	0.004	0.056	0.056	0.006	0.004	0.002	0.001	0.000	0.13
152	583498.30	4139252.54	0.00055	0.00020	0.00025	0.00029	0.00022	0.00014	0.00008	0.00002	0.00001	0.000	0.003	0.041	0.048	0.006	0.004	0.002	0.001	0.000	0.10
153	583507.91	4139249.75	0.00058	0.00021	0.00027	0.00030	0.00022	0.00014	0.00008	0.00002	0.00001	0.000	0.003	0.044	0.049	0.006	0.004	0.002	0.001	0.000	0.11
154	583517.51	4139246.96	0.00060	0.00022	0.00028	0.00031	0.00023	0.00014	0.00008	0.00002	0.00001	0.000	0.003	0.046	0.051	0.006	0.004	0.002	0.001	0.000	0.11
155	583527.11	4139244.17	0.00063	0.00023	0.00029	0.00032	0.00023	0.00015	0.00009	0.00002	0.00001	0.000	0.003	0.048	0.053	0.006	0.004	0.002	0.001	0.000	0.12
156	583536.72	4139241.38	0.00066	0.00024	0.00031	0.00032	0.00024	0.00015	0.00009	0.00003	0.00001	0.000	0.003	0.051	0.053	0.006	0.004	0.002	0.001	0.000	0.12
157	583546.32	4139238.60	0.00070	0.00026	0.00033	0.00033	0.00025	0.00016	0.00009	0.00003	0.00001	0.000	0.004	0.054	0.054	0.006	0.004	0.002	0.001	0.000	0.13
158	583555.92	4139235.81	0.00074	0.00027	0.00035	0.00035	0.00026	0.00016	0.00009	0.00003	0.00001	0.000	0.004	0.057	0.057	0.007	0.004	0.002	0.001	0.000	0.13
159	583979.57	4139386.45	0.00480	0.00507	0.03918	0.01887	0.01363	0.01159	0.00579	0.00025	0.00006	0.000	0.069	6.435	3.099	0.352	0.300	0.150	0.006	0.002	10.41
160	583988.23	4139383.99	0.00471	0.00464	0.03454	0.01716	0.01240	0.01046	0.00527	0.00027	0.00007	0.000	0.063	5.673	2.818	0.321	0.270	0.136	0.007	0.002	9.29
161	583996.88	4139381.52	0.00463	0.00430	0.03106	0.01598	0.01154	0.00966	0.00491	0.00030	0.00008	0.000	0.058	5.101	2.625	0.298	0.250	0.127	0.008	0.002	8.47
162	584005.54	4139379.06	0.00455	0.00406	0.02862	0.01530	0.01104	0.00916	0.00471	0.00033	0.00009	0.000	0.055	4.701	2.513	0.285	0.237	0.122	0.009	0.002	7.92
163	584014.20	4139376.60	0.00447	0.00389	0.02708	0.01507	0.01086	0.00894	0.00464	0.00037	0.00010	0.000	0.053	4.448	2.475	0.281	0.231	0.120	0.010	0.003	7.62
164	584022.85	4139374.14	0.00440	0.00379	0.02621	0.01522	0.01095	0.00895	0.00470	0.00042	0.00011	0.000	0.052	4.305	2.500	0.283	0.231	0.122	0.011	0.003	7.51
165	584031.51	4139371.67	0.00433	0.00373	0.02583	0.01572	0.01127	0.00914	0.00486	0.00048	0.00012	0.000	0.051	4.242	2.582	0.291	0.236	0.126	0.012	0.003	7.54
166	583982.03	4139395.11	0.00429	0.00476	0.03773	0.01845	0.01336	0.01131	0.00567	0.00026	0.00007	0.000	0.065	6.197	3.030	0.345	0.292	0.147	0.007	0.002	10.09
167	583990.69	4139392.64	0.00423	0.00437	0.03351	0.01694	0.01227	0.01029	0.00521	0.00028	0.00007	0.000	0.059	5.504	2.782	0.317	0.266	0.135	0.007	0.002	9.07
168	583999.35	4139390.18	0.00418	0.00409	0.03048	0.01598	0.01157	0.00962	0.00492	0.00031	0.00008	0.000	0.056	5.006	2.625	0.299	0.249	0.127	0.008	0.002	8.37
169	584008.00	4139387.72	0.00413	0.00390	0.02854	0.01554	0.01124	0.00927	0.00479	0.00035	0.00009	0.000	0.053	4.688	2.552	0.291	0.240	0.124	0.009	0.002	7.96
170	584016.66	4139385.26	0.00409	0.00379	0.02746	0.01554	0.01124	0.00920	0.00480	0.00039	0.00010	0.000	0.052	4.510	2.552	0.291	0.238	0.124	0.010	0.003	7.78
171	584025.32	4139382.79	0.00405	0.00373	0.02704	0.01593	0.01149	0.00934	0.00492	0.00044	0.00011	0.000	0.051	4.441	2.616	0.297	0.242	0.127	0.011	0.003	7.79
172	584033.97	4139380.33	0.00401	0.00372	0.02703	0.01665	0.01197	0.00966	0.00515	0.00051	0.00013	0.000	0.051	4.440	2.735	0.310	0.250	0.133	0.013	0.003	7.93
173	583984.50	4139403.76	0.00387	0.00447	0.03614	0.01800	0.01306	0.01099	0.00554	0.00027	0.00007	0.000	0.061	5.936	2.956	0.338	0.284	0.143	0.007	0.002	9.73
174	583993.15	4139401.30	0.00384	0.00414	0.03247	0.01675	0.01215	0.01013	0.00516	0.00030	0.00008	0.000	0.056	5.333	2.751	0.314	0.262	0.133	0.008	0.002	8.86
175	583986.96	4139412.42	0.00352	0.00420	0.03449	0.01755	0.01276	0.01066	0.00541	0.00028	0.00007	0.000	0.057	5.665	2.883	0.330	0.276	0.140	0.007	0.002	9.36
176	583995.62	4139409.96	0.00351	0.00394	0.03151	0.01663	0.01209	0.01001	0.00512	0.00031	0.00008	0.000	0.054	5.175	2.731	0.313	0.259	0.132	0.008	0.002	8.67
177	583989.42	4139421.08	0.00323	0.00395	0.03283	0.01713	0.01248	0.01034	0.00528	0.00030	0.00007	0.000	0.054	5.392	2.814	0.323	0.267	0.137	0.008	0.002	9.00
178	583998.08	4139418.61	0.00323	0.00377	0.03074	0.01663	0.01211	0.00995	0.00513	0.00032	0.00008	0.000	0.051	5.049	2.731	0.313	0.257	0.133	0.008	0.002	8.55
179	583991.88	4139429.73	0.00299	0.00373	0.03128	0.01681	0.01226	0.01007	0.00518	0.00031	0.00008	0.000	0.051	5.138	2.761	0.317	0.260	0.134	0.008	0.002	8.67
180	584000.54	4139427.27	0.00299	0.00365	0.03034	0.01683	0.01227	0.01000	0.00519	0.00034	0.00008	0.000	0.050	4.983	2.764	0.317	0.259	0.134	0.009	0.002	8.52
181	583994.35	4139438.39	0.00278	0.00355	0.03002	0.01664	0.01214	0.00988	0.00513	0.00033	0.00008	0.000	0.048	4.931	2.733	0.314	0.255	0.133	0.009	0.002	8.42
182	584003.00	4139435.93	0.00279	0.00359	0.03051	0.01731	0.01263	0.01022	0.00534	0.00036	0.00009	0.000	0.049	5.011	2.843	0.327	0.264	0.138	0.009	0.002	8.64
183	583996.81	4139447.05	0.00260	0.00342	0.02928	0.01671	0.01221	0.00984	0.00515	0.00035	0.00008	0.000	0.047	4.809	2.745	0.316	0.254	0.133	0.009	0.002	8.31
184	584005.47	4139444.58	0.00261	0.00361	0.03149	0.01814	0.01326	0.01068	0.00561	0.00038	0.00009	0.000	0.049	5.172	2.979	0.343	0.276	0.145	0.010	0.002	8.98
185	583999.27	4139455.70	0.00244	0.00336	0.02929	0.01711	0.01251	0.01002	0.00528	0.00037	0.00009	0.000	0.046	4.811	2.810	0.323	0.259	0.137	0.010	0.002	8.40
186	584007.93	4139453.24	0.00245	0.00372	0.03338	0.01938	0.01417	0.01138	0.00599	0.00040	0.00010	0.000	0.051	5.483	3.183	0.366	0.294	0.155	0.010	0.003	9.54
187	584016.59	4139450.78	0.00246	0.00411	0.03787	0.02192	0.01602	0.01290	0.00679	0.00045	0.00011	0.000	0.056	6.220	3.600	0.414	0.334	0.176	0.012	0.003	10.81
188	584025.24	4139448.31	0.00247	0.00449	0.04212	0.02450	0.01789	0.01441	0.00760	0.00050	0.00012	0.000	0.061	6.918	4.024	0.463	0.373	0.197	0.013	0.003	12.05
189	584033.90	4139445.85	0.00248	0.00482	0.04589	0.02705	0.01973	0.01586	0.00841	0.00057	0.00013	0.000	0.066	7.537	4.443	0.510	0.410	0.217	0.015	0.003	13.20
190	584042.55	4139443.39	0.00250	0.00510	0.04909	0.02958	0.02152	0.01724	0.00920	0.00065	0.00015	0.000	0.069	8.063	4.858	0.556	0.446	0.238	0.017	0.004	14.25
191	583979.57	4139386.45	0.00429	0.00445	0.03433	0.01666	0.01199	0.01017	0.00508	0.00023	0.00006	0.000	0.061	5.639	2.736	0.310	0.263	0.131	0.006	0.002	9.15
192	583988.23	4139383.99	0.00424	0.00405	0.02992	0.01501	0.01080	0.00909	0.00458	0.00025	0.00006	0.000	0.055	4.914	2.465	0.279	0.235	0.118	0.006	0.002	8.08
193	583996.88	4139381.52	0.00419	0.00376	0.02690	0.01397	0.01006	0.00839	0.00427	0.00027	0.00007	0.000	0.051	4.418	2.295	0.260	0.217	0.110	0.007	0.002	7.36
194	584005.54	4139379.06	0.00414	0.00357	0.02488	0.01341	0.00966	0.00799	0.00411	0.00030	0.00008	0.000	0.049	4.086	2.203	0.250	0.207	0.106	0.008	0.002	6.91
195	584014.20	4139376.60	0.00409	0.00344	0.02366	0.01324	0.00953	0.00782	0.00406	0.00034	0.00009	0.000	0.047	3.886	2.175	0.246	0.202	0.105	0.009	0.002	6.67
196	584022.85	4139374.14	0.00405	0.00337	0.02302	0.01340	0.00963	0.00785	0.00412	0.00038	0.00010	0.000	0.046	3.781	2.201	0.249	0.203	0.107	0.010	0.003	6.60
197	584031.51	4139371.67	0.00401	0.00333	0.02279	0.01384	0.00993	0.00804	0.00426	0.00043	0.00011	0.000	0.045	3.743	2.273	0.257	0.208	0.110	0.011	0.003	6.65

Receptor No.	Receptor Coordinates UTM-X (m)	UTM-Y (m)	2023 Conc DPM	2024 Conc DPM	2025 Conc DPM	2026 Conc DPM	2027 Conc DPM	2028 Conc DPM	2029 Conc DPM	2030 Conc DPM	2031 Conc DPM	2023 Construct Risk	2024 Construct Risk	2025 Construct Risk	2026 Construct Risk	2027 Construct Risk	2028 Construct Risk	2029 Construct Risk	2030 Construct Risk	2031 Construct Risk	2023-2031 Total Cancer Risk (per million)
198	584040.17	4139369.21	0.00397	0.00332	0.02284	0.01455	0.01040	0.00836	0.00449	0.00049	0.00013	0.000	0.045	3.751	2.390	0.269	0.216	0.116	0.013	0.003	6.80
199	584048.82	4139366.75	0.00394	0.00332	0.02304	0.01555	0.01104	0.00882	0.00481	0.00057	0.00015	0.000	0.045	3.784	2.554	0.285	0.228	0.124	0.015	0.004	7.04
200	583982.03	4139395.11	0.00386	0.00418	0.03299	0.01626	0.01173	0.00990	0.00497	0.00024	0.00006	0.000	0.057	5.418	2.671	0.303	0.256	0.129	0.006	0.002	8.84
201	583990.69	4139392.64	0.00384	0.00382	0.02893	0.01477	0.01066	0.00891	0.00452	0.00026	0.00007	0.000	0.052	4.752	2.426	0.276	0.230	0.117	0.007	0.002	7.86
202	583999.35	4139390.18	0.00381	0.00358	0.02629	0.01392	0.01006	0.00833	0.00426	0.00028	0.00007	0.000	0.049	4.318	2.286	0.260	0.215	0.110	0.007	0.002	7.25
203	584008.00	4139387.72	0.00379	0.00343	0.02471	0.01357	0.00980	0.00805	0.00416	0.00031	0.00008	0.000	0.047	4.059	2.229	0.253	0.208	0.108	0.008	0.002	6.91
204	584016.66	4139385.26	0.00377	0.00335	0.02390	0.01361	0.00983	0.00802	0.00418	0.00035	0.00009	0.000	0.046	3.925	2.235	0.254	0.207	0.108	0.009	0.002	6.79
205	584025.32	4139382.79	0.00375	0.00332	0.02365	0.01397	0.01008	0.00817	0.00430	0.00040	0.00010	0.000	0.045	3.884	2.295	0.261	0.211	0.111	0.010	0.003	6.82
206	584033.97	4139380.33	0.00373	0.00332	0.02376	0.01460	0.01051	0.00846	0.00450	0.00045	0.00012	0.000	0.045	3.902	2.398	0.272	0.219	0.116	0.012	0.003	6.97
207	584042.63	4139377.87	0.00371	0.00334	0.02409	0.01549	0.01111	0.00889	0.00479	0.00052	0.00013	0.000	0.045	3.957	2.544	0.287	0.230	0.124	0.013	0.003	7.20
208	584051.29	4139375.41	0.00370	0.00336	0.02451	0.01667	0.01188	0.00944	0.00516	0.00060	0.00015	0.000	0.046	4.026	2.738	0.307	0.244	0.133	0.016	0.004	7.51
209	583984.50	4139403.76	0.00351	0.00393	0.03153	0.01582	0.01145	0.00961	0.00485	0.00025	0.00006	0.000	0.053	5.179	2.598	0.296	0.248	0.125	0.006	0.002	8.51
210	583993.15	4139401.30	0.00350	0.00361	0.02792	0.01456	0.01054	0.00875	0.00446	0.00027	0.00007	0.000	0.049	4.586	2.391	0.273	0.226	0.115	0.007	0.002	7.65
211	584045.09	4139386.52	0.00347	0.00339	0.02568	0.01668	0.01200	0.00956	0.00516	0.00055	0.00014	0.000	0.046	4.218	2.740	0.310	0.247	0.133	0.014	0.004	7.71
212	584053.75	4139384.06	0.00347	0.00344	0.02631	0.01808	0.01293	0.01022	0.00560	0.00064	0.00016	0.000	0.047	4.321	2.970	0.334	0.264	0.145	0.017	0.004	8.10
213	583986.96	4139412.42	0.00321	0.00369	0.03002	0.01540	0.01117	0.00930	0.00472	0.00026	0.00007	0.000	0.050	4.931	2.529	0.289	0.240	0.122	0.007	0.002	8.17
214	583995.62	4139409.96	0.00322	0.00343	0.02698	0.01440	0.01045	0.00861	0.00442	0.00028	0.00007	0.000	0.047	4.431	2.365	0.270	0.223	0.114	0.007	0.002	7.46
215	584047.55	4139395.18	0.00326	0.00349	0.02767	0.01819	0.01311	0.01039	0.00563	0.00058	0.00014	0.000	0.047	4.545	2.988	0.339	0.269	0.146	0.015	0.004	8.35
216	584056.21	4139392.72	0.00326	0.00356	0.02850	0.01986	0.01422	0.01118	0.00616	0.00068	0.00017	0.000	0.048	4.681	3.262	0.368	0.289	0.159	0.018	0.004	8.83
217	583989.42	4139421.08	0.00297	0.00347	0.02851	0.01502	0.01091	0.00901	0.00461	0.00027	0.00007	0.000	0.047	4.683	2.467	0.282	0.233	0.119	0.007	0.002	7.84
218	583998.08	4139418.61	0.00298	0.00327	0.02620	0.01436	0.01044	0.00853	0.00441	0.00029	0.00007	0.000	0.044	4.303	2.359	0.270	0.221	0.114	0.007	0.002	7.32
219	584050.02	4139403.84	0.00306	0.00363	0.03013	0.02005	0.01446	0.01140	0.00622	0.00061	0.00015	0.000	0.049	4.949	3.293	0.374	0.295	0.161	0.016	0.004	9.14
220	584058.67	4139401.38	0.00307	0.00372	0.03112	0.02206	0.01579	0.01235	0.00686	0.00072	0.00018	0.000	0.051	5.111	3.623	0.408	0.319	0.177	0.019	0.005	9.71
221	583991.88	4139429.73	0.00276	0.00327	0.02709	0.01471	0.01071	0.00875	0.00451	0.00028	0.00007	0.000	0.044	4.449	2.416	0.277	0.226	0.117	0.007	0.002	7.54
222	584000.54	4139427.27	0.00277	0.00316	0.02571	0.01448	0.01055	0.00854	0.00445	0.00031	0.00008	0.000	0.043	4.223	2.378	0.273	0.221	0.115	0.008	0.002	7.26
223	584052.48	4139412.49	0.00287	0.00383	0.03311	0.02224	0.01604	0.01260	0.00690	0.00065	0.00016	0.000	0.052	5.438	3.653	0.415	0.326	0.178	0.017	0.004	10.08
224	584061.14	4139410.03	0.00288	0.00393	0.03424	0.02456	0.01757	0.01368	0.00764	0.00077	0.00019	0.000	0.053	5.624	4.034	0.454	0.354	0.198	0.020	0.005	10.74
225	583994.35	4139438.39	0.00258	0.00311	0.02593	0.01454	0.01060	0.00857	0.00446	0.00030	0.00007	0.000	0.042	4.259	2.388	0.274	0.222	0.115	0.008	0.002	7.31
226	584003.00	4139435.93	0.00259	0.00309	0.02574	0.01486	0.01084	0.00870	0.00456	0.00033	0.00008	0.000	0.042	4.228	2.441	0.280	0.225	0.118	0.009	0.002	7.34
227	584054.94	4139421.15	0.00270	0.00408	0.03671	0.02470	0.01782	0.01397	0.00767	0.00069	0.00016	0.000	0.055	6.029	4.057	0.461	0.361	0.198	0.018	0.004	11.18
228	584063.60	4139418.69	0.00271	0.00419	0.03793	0.02721	0.01947	0.01515	0.00847	0.00082	0.00020	0.000	0.057	6.230	4.469	0.503	0.392	0.219	0.021	0.005	11.90
229	583996.81	4139447.05	0.00242	0.00299	0.02531	0.01462	0.01067	0.00855	0.00449	0.00031	0.00008	0.000	0.041	4.157	2.401	0.276	0.221	0.116	0.008	0.002	7.22
230	584005.47	4139444.58	0.00243	0.00312	0.02666	0.01564	0.01142	0.00913	0.00481	0.00034	0.00008	0.000	0.042	4.379	2.569	0.295	0.236	0.124	0.009	0.002	7.66
231	583999.27	4139455.70	0.00228	0.00299	0.02583	0.01520	0.01111	0.00886	0.00467	0.00033	0.00008	0.000	0.041	4.242	2.497	0.287	0.229	0.121	0.009	0.002	7.43
232	584007.93	4139453.24	0.00229	0.00329	0.02920	0.01710	0.01251	0.00999	0.00527	0.00036	0.00009	0.000	0.045	4.796	2.809	0.323	0.258	0.136	0.009	0.002	8.38
233	584016.59	4139450.78	0.00231	0.00363	0.03307	0.01930	0.01412	0.01131	0.00596	0.00040	0.00010	0.000	0.049	5.432	3.170	0.365	0.292	0.154	0.010	0.003	9.48
234	584025.24	4139448.31	0.00233	0.00396	0.03671	0.02152	0.01574	0.01260	0.00666	0.00045	0.00011	0.000	0.054	6.029	3.535	0.407	0.326	0.172	0.012	0.003	10.54
235	584033.90	4139445.85	0.00235	0.00424	0.03993	0.02372	0.01733	0.01385	0.00735	0.00050	0.00012	0.000	0.058	6.558	3.896	0.448	0.358	0.190	0.013	0.003	11.52
236	584042.55	4139443.39	0.00236	0.00449	0.04268	0.02591	0.01889	0.01505	0.00804	0.00057	0.00014	0.000	0.061	7.010	4.256	0.488	0.389	0.208	0.015	0.004	12.43
237	584001.73	4139464.36	0.00215	0.00322	0.02903	0.01690	0.01238	0.00989	0.00520	0.00035	0.00009	0.000	0.044	4.768	2.776	0.320	0.256	0.134	0.009	0.002	8.31
238	584010.39	4139461.90	0.00216	0.00374	0.03483	0.01985	0.01455	0.01171	0.00613	0.00039	0.00009	0.000	0.051	5.721	3.260	0.376	0.303	0.159	0.010	0.002	9.88
239	584019.05	4139459.43	0.00218	0.00418	0.03989	0.02259	0.01656	0.01336	0.00699	0.00043	0.00010	0.000	0.057	6.552	3.710	0.428	0.345	0.181	0.011	0.003	11.29
240	584027.70	4139456.97	0.00220	0.00456	0.04411	0.02510	0.01839	0.01483	0.00778	0.00048	0.00011	0.000	0.062	7.245	4.123	0.476	0.383	0.201	0.012	0.003	12.50
241	584036.36	4139454.51	0.00221	0.00487	0.04762	0.02747	0.02010	0.01618	0.00853	0.00053	0.00013	0.000	0.066	7.821	4.512	0.520	0.418	0.221	0.014	0.003	13.58
242	584045.02	4139452.05	0.00223	0.00513	0.05051	0.02976	0.02173	0.01743	0.00925	0.00061	0.00014	0.000	0.070	8.296	4.888	0.562	0.451	0.239	0.016	0.004	**14.52**
		Maximum	0.00480	0.00513	0.05051	0.02976	0.02173	0.01743	0.00925	0.0014	0.00039	**0.000**	**0.1**	**8.3**	**4.9**	**0.6**	**0.5**	**0.2**	**0.0**	**0.0**	**14.52**

Google Middlefield - District Utilities Construction Impacts
Total PM2.5 Concentrations - Unmitigated
at Off-Site Residential Receptors (1st & 2nd level receptor heights)

Receptor	UTM Coordinates (m)		Construction Total PM2.5 (Fugitive + Exhaust) Concentrations (µg/m^3)								
No.	UTM-X	UTM-Y	2023	2024	2025	2026	2027	2028	2029	2030	2031
1	583674.05	4138932.37	0.06165	0.00521	0.02557	0.01163	0.00421	0.00175	0.00069	0.00008	0.00002
2	583685.82	4138936.00	0.06960	0.00586	0.02769	0.01229	0.00446	0.00187	0.00074	0.00009	0.00002
3	583705.56	4138942.41	0.08613	0.00720	0.03176	0.01352	0.00492	0.00209	0.00083	0.00009	0.00003
4	583715.08	4138945.35	0.09616	0.00799	0.03400	0.01418	0.00517	0.00221	0.00088	0.0001	0.00003
5	583722.18	4138945.87	0.10388	0.00860	0.03570	0.01471	0.00537	0.00231	0.00091	0.0001	0.00003
6	583727.20	4138939.64	0.10746	0.00888	0.03652	0.01514	0.00553	0.00237	0.00094	0.00011	0.00003
7	583734.13	4138930.98	0.11227	0.00925	0.03762	0.01574	0.00576	0.00245	0.00097	0.00011	0.00003
8	583740.36	4138923.02	0.11596	0.00956	0.03858	0.01629	0.00597	0.00252	0.001	0.00011	0.00003
9	583745.55	4138915.57	0.11890	0.00979	0.03930	0.01677	0.00615	0.00258	0.00102	0.00012	0.00003
10	583750.23	4138909.86	0.12193	0.01002	0.04003	0.0172	0.00631	0.00264	0.00105	0.00012	0.00003
11	583755.59	4138902.41	0.12494	0.01025	0.04079	0.01772	0.0065	0.00271	0.00107	0.00012	0.00003
12	583747.80	4138895.84	0.11298	0.00931	0.03829	0.01703	0.00624	0.00258	0.00102	0.00012	0.00003
13	583757.15	4138883.72	0.11799	0.00969	0.03959	0.01792	0.00657	0.00269	0.00107	0.00012	0.00003
14	583765.46	4138890.29	0.13104	0.01071	0.04230	0.01871	0.00687	0.00283	0.00113	0.00013	0.00004
15	583771.18	4138882.33	0.13395	0.01092	0.04309	0.0193	0.00708	0.0029	0.00115	0.00013	0.00004
16	583776.72	4138875.93	0.13732	0.01117	0.04395	0.01988	0.00729	0.00298	0.00118	0.00014	0.00004
17	583783.64	4138866.92	0.14080	0.01142	0.04492	0.02062	0.00756	0.00307	0.00122	0.00014	0.00004
18	583788.14	4138861.04	0.14289	0.01158	0.04553	0.0211	0.00773	0.00312	0.00124	0.00015	0.00004
19	583794.20	4138852.90	0.14542	0.01175	0.04631	0.02176	0.00796	0.0032	0.00128	0.00015	0.00004
20	583714.91	4138939.46	0.09412	0.00784	0.03363	0.0142	0.00518	0.0022	0.00087	0.0001	0.00003
21	583719.93	4138932.71	0.09715	0.00808	0.03436	0.0146	0.00533	0.00226	0.00089	0.0001	0.00003
22	583725.30	4138925.27	0.10025	0.00832	0.03512	0.01505	0.0055	0.00232	0.00092	0.00011	0.00003
23	583731.88	4138917.30	0.10433	0.00864	0.03611	0.01561	0.00571	0.0024	0.00095	0.00011	0.00003
24	583737.24	4138909.69	0.10716	0.00886	0.03682	0.01608	0.00588	0.00246	0.00097	0.00011	0.00003
25	583742.96	4138903.11	0.11071	0.00914	0.03769	0.01659	0.00608	0.00252	0.001	0.00012	0.00003
26	583762.52	4138876.96	0.12087	0.00991	0.04034	0.01845	0.00676	0.00276	0.0011	0.00013	0.00004
27	583768.41	4138869.87	0.12407	0.01015	0.04118	0.01903	0.00697	0.00283	0.00112	0.00013	0.00004
28	583775.16	4138860.34	0.12692	0.01036	0.04200	0.01972	0.00721	0.00291	0.00116	0.00014	0.00004
29	583781.04	4138853.42	0.12998	0.01058	0.04283	0.02032	0.00743	0.00298	0.00119	0.00014	0.00004
30	583694.83	4138938.94	0.07659	0.00643	0.02946	0.01283	0.00466	0.00197	0.00078	0.00009	0.00003
31	584511.66	4138899.64	0.13239	0.01122	0.06586	0.36558	0.089	0.03347	0.0134	0.0033	0.00092
32	584507.85	4138883.72	0.13802	0.01164	0.06659	0.35902	0.08884	0.03267	0.01317	0.00317	0.00088
33	584503.70	4138868.48	0.14330	0.01204	0.06738	0.35266	0.08863	0.03191	0.01295	0.00305	0.00085
34	584500.23	4138850.13	0.14723	0.01233	0.06793	0.34311	0.08768	0.0309	0.01261	0.00291	0.0008
35	584537.28	4138897.91	0.10867	0.00935	0.05993	0.33161	0.07904	0.03103	0.01219	0.00314	0.00088
36	584533.13	4138879.91	0.11397	0.00975	0.06075	0.32686	0.07926	0.03036	0.01202	0.00303	0.00085
37	584527.93	4138865.02	0.11982	0.01021	0.06186	0.3246	0.07994	0.02994	0.01194	0.00294	0.00082
38	583674.05	4138932.37	0.05903	0.00497	0.02477	0.01129	0.00407	0.0017	0.00067	0.00008	0.00002
39	583685.82	4138936.00	0.06657	0.00559	0.02680	0.01193	0.00431	0.00181	0.00072	0.00008	0.00002
40	583705.56	4138942.41	0.08220	0.00686	0.03072	0.01311	0.00475	0.00203	0.0008	0.00009	0.00003
41	583715.08	4138945.35	0.09140	0.00759	0.03286	0.01374	0.00499	0.00214	0.00085	0.0001	0.00003
42	583722.18	4138945.87	0.09865	0.00817	0.03449	0.01426	0.00519	0.00223	0.00088	0.0001	0.00003
43	583727.20	4138939.64	0.10203	0.00844	0.03528	0.01467	0.00535	0.00229	0.00091	0.0001	0.00003
44	583734.13	4138930.98	0.10656	0.00879	0.03635	0.01525	0.00557	0.00237	0.00094	0.00011	0.00003
45	583740.36	4138923.02	0.11043	0.00909	0.03728	0.01579	0.00577	0.00244	0.00097	0.00011	0.00003
46	583745.55	4138915.57	0.11325	0.00931	0.03798	0.01625	0.00595	0.0025	0.00099	0.00011	0.00003
47	583750.23	4138909.86	0.11613	0.00953	0.03868	0.01667	0.0061	0.00255	0.00101	0.00012	0.00003
48	583755.59	4138902.41	0.11901	0.00975	0.03941	0.01718	0.00629	0.00262	0.00104	0.00012	0.00003
49	583747.80	4138895.84	0.10776	0.00886	0.03703	0.01652	0.00604	0.0025	0.00099	0.00012	0.00003
50	583757.15	4138883.72	0.11254	0.00923	0.03828	0.01738	0.00636	0.0026	0.00103	0.00012	0.00003
51	583765.46	4138890.29	0.12484	0.01019	0.04088	0.01814	0.00664	0.00274	0.00109	0.00013	0.00003
52	583771.18	4138882.33	0.12764	0.01040	0.04164	0.01871	0.00685	0.00281	0.00112	0.00013	0.00004
53	583776.72	4138875.93	0.13089	0.01064	0.04247	0.01928	0.00706	0.00288	0.00115	0.00013	0.00004
54	583783.64	4138866.92	0.13426	0.01089	0.04341	0.02	0.00731	0.00297	0.00118	0.00014	0.00004
55	583788.14	4138861.04	0.13630	0.01103	0.04400	0.02047	0.00748	0.00302	0.0012	0.00014	0.00004
56	583794.20	4138852.90	0.13879	0.01121	0.04475	0.02111	0.00771	0.0031	0.00124	0.00015	0.00004
57	583714.91	4138939.46	0.08976	0.00746	0.03251	0.01376	0.005	0.00213	0.00084	0.0001	0.00003
58	583719.93	4138932.71	0.09265	0.00769	0.03323	0.01416	0.00515	0.00219	0.00087	0.0001	0.00003
59	583725.30	4138925.27	0.09562	0.00792	0.03396	0.01459	0.00532	0.00224	0.00089	0.0001	0.00003
60	583731.88	4138917.30	0.09950	0.00823	0.03492	0.01513	0.00552	0.00232	0.00092	0.00011	0.00003
61	583737.24	4138909.69	0.10221	0.00843	0.03561	0.01559	0.00569	0.00238	0.00094	0.00011	0.00003
62	583742.96	4138903.11	0.10559	0.00870	0.03645	0.01608	0.00588	0.00244	0.00097	0.00011	0.00003
63	583762.52	4138876.96	0.11530	0.00944	0.03901	0.01789	0.00654	0.00267	0.00106	0.00013	0.00003
64	583768.41	4138869.87	0.11837	0.00967	0.03982	0.01846	0.00675	0.00274	0.00109	0.00013	0.00004
65	583775.16	4138860.34	0.12112	0.00988	0.04062	0.01913	0.00698	0.00282	0.00112	0.00013	0.00004
66	583781.04	4138853.42	0.12408	0.01010	0.04142	0.01972	0.0072	0.00289	0.00115	0.00014	0.00004
67	583694.83	4138938.94	0.07319	0.00613	0.02851	0.01245	0.0045	0.00191	0.00075	0.00009	0.00002
68	584511.66	4138899.64	0.12627	0.01069	0.06399	0.35479	0.08609	0.03248	0.01298	0.00321	0.0009
69	584507.85	4138883.72	0.13163	0.01109	0.06472	0.34848	0.08593	0.03171	0.01276	0.00309	0.00086
70	584503.70	4138868.48	0.13664	0.01148	0.06547	0.34233	0.08574	0.03097	0.01254	0.00297	0.00082
71	584500.23	4138850.13	0.14050	0.01177	0.06605	0.33333	0.08489	0.03001	0.01223	0.00284	0.00079
72	584537.28	4138897.91	0.10401	0.00894	0.05825	0.322	0.0765	0.03012	0.01181	0.00307	0.00086
73	584533.13	4138879.91	0.10907	0.00932	0.05907	0.31747	0.07672	0.02948	0.01165	0.00295	0.00083
74	584527.93	4138865.02	0.11474	0.00976	0.06018	0.31552	0.07742	0.0291	0.01159	0.00287	0.0008
75	583484.36	4139204.52	0.01591	0.00130	0.00676	0.00718	0.00256	0.00079	0.00032	0.00005	0.00001
76	583493.96	4139201.73	0.01656	0.00135	0.00709	0.0073	0.00261	0.00081	0.00033	0.00005	0.00001
77	583503.57	4139198.94	0.01727	0.00142	0.00746	0.00743	0.00266	0.00083	0.00034	0.00005	0.00001
78	583513.17	4139196.15	0.01804	0.00149	0.00788	0.00757	0.00272	0.00086	0.00035	0.00005	0.00001
79	583522.77	4139193.37	0.01889	0.00156	0.00836	0.00772	0.00278	0.00088	0.00036	0.00005	0.00001
80	583532.38	4139190.58	0.01982	0.00165	0.00889	0.00787	0.00284	0.00091	0.00037	0.00005	0.00001
81	583541.98	4139187.79	0.02083	0.00174	0.00948	0.00803	0.0029	0.00094	0.00038	0.00005	0.00001
82	583487.15	4139214.12	0.01652	0.00134	0.00688	0.00732	0.00261	0.0008	0.00033	0.00005	0.00001
83	583496.75	4139211.33	0.01722	0.00141	0.00720	0.00745	0.00266	0.00083	0.00034	0.00005	0.00001
84	583506.36	4139208.55	0.01797	0.00147	0.00757	0.00759	0.00271	0.00085	0.00034	0.00005	0.00001
85	583515.96	4139205.76	0.01878	0.00154	0.00799	0.00773	0.00277	0.00087	0.00035	0.00005	0.00001
86	583525.56	4139202.97	0.01968	0.00162	0.00845	0.00788	0.00283	0.0009	0.00036	0.00005	0.00001
87	583535.17	4139200.18	0.02065	0.00171	0.00898	0.00803	0.00289	0.00093	0.00038	0.00006	0.00001
88	583544.77	4139197.39	0.02172	0.00181	0.00957	0.0082	0.00296	0.00096	0.00039	0.00006	0.00002
89	583489.94	4139223.73	0.01719	0.00140	0.00701	0.00747	0.00266	0.00082	0.00033	0.00005	0.00001
90	583499.54	4139220.94	0.01793	0.00146	0.00733	0.0076	0.00271	0.00084	0.00034	0.00005	0.00001
91	583509.14	4139218.15	0.01872	0.00153	0.00769	0.00774	0.00276	0.00086	0.00035	0.00005	0.00001
92	583518.75	4139215.36	0.01959	0.00161	0.00810	0.00789	0.00282	0.00089	0.00036	0.00005	0.00001
93	583528.35	4139212.57	0.02052	0.00169	0.00857	0.00804	0.00288	0.00092	0.00037	0.00006	0.00002
94	583537.95	4139209.79	0.02156	0.00178	0.00909	0.0082	0.00295	0.00094	0.00038	0.00006	0.00002

Receptor	UTM Coordinates (m)		Construction Total PM2.5 (Fugitive + Exhaust) Concentrations (µg/m^3)								
No.	UTM-X	UTM-Y	2023	2024	2025	2026	2027	2028	2029	2030	2031
95	583547.56	4139207.00	0.02271	0.00188	0.00969	0.00838	0.00302	0.00098	0.0004	0.00006	0.00002
96	583492.73	4139233.33	0.01790	0.00145	0.00716	0.00762	0.00271	0.00084	0.00034	0.00005	0.00001
97	583502.33	4139230.54	0.01869	0.00152	0.00748	0.00776	0.00276	0.00086	0.00035	0.00005	0.00001
98	583511.93	4139227.75	0.01954	0.00159	0.00784	0.0079	0.00282	0.00088	0.00036	0.00006	0.00002
99	583521.54	4139224.97	0.02045	0.00167	0.00824	0.00805	0.00288	0.00091	0.00037	0.00006	0.00002
100	583531.14	4139222.18	0.02145	0.00176	0.00870	0.00821	0.00294	0.00093	0.00038	0.00006	0.00002
101	583540.74	4139219.39	0.02256	0.00186	0.00923	0.00838	0.00301	0.00096	0.00039	0.00006	0.00002
102	583550.35	4139216.60	0.02381	0.00197	0.00983	0.00856	0.00308	0.001	0.0004	0.00006	0.00002
103	583495.51	4139242.93	0.01866	0.00151	0.00732	0.00778	0.00276	0.00085	0.00035	0.00005	0.00001
104	583505.12	4139240.15	0.01951	0.00158	0.00764	0.00792	0.00281	0.00088	0.00036	0.00006	0.00002
105	583514.72	4139237.36	0.02041	0.00166	0.00800	0.00807	0.00287	0.0009	0.00037	0.00006	0.00002
106	583524.32	4139234.57	0.02139	0.00174	0.00840	0.00822	0.00293	0.00092	0.00038	0.00006	0.00002
107	583533.93	4139231.78	0.02246	0.00184	0.00885	0.00838	0.003	0.00095	0.00039	0.00006	0.00002
108	583543.53	4139228.99	0.02368	0.00194	0.00939	0.00856	0.00307	0.00098	0.0004	0.00006	0.00002
109	583553.13	4139226.20	0.02502	0.00206	0.01000	0.00875	0.00315	0.00102	0.00041	0.00006	0.00002
110	583498.30	4139252.54	0.01951	0.00158	0.00752	0.00794	0.00281	0.00087	0.00035	0.00006	0.00002
111	583507.91	4139249.75	0.02040	0.00165	0.00783	0.00808	0.00287	0.00089	0.00036	0.00006	0.00002
112	583517.51	4139246.96	0.02136	0.00173	0.00818	0.00824	0.00292	0.00092	0.00037	0.00006	0.00002
113	583527.11	4139244.17	0.02241	0.00182	0.00858	0.00839	0.00299	0.00094	0.00038	0.00006	0.00002
114	583536.72	4139241.38	0.02358	0.00192	0.00904	0.00856	0.00306	0.00097	0.00039	0.00006	0.00002
115	583546.32	4139238.60	0.02490	0.00204	0.00958	0.00875	0.00313	0.001	0.00041	0.00006	0.00002
116	583555.92	4139235.81	0.02636	0.00216	0.01019	0.00895	0.00322	0.00104	0.00042	0.00006	0.00002
117	583484.36	4139204.52	0.01532	0.00124	0.00643	0.00705	0.0025	0.00077	0.00031	0.00005	0.00001
118	583493.96	4139201.73	0.01594	0.00130	0.00674	0.00716	0.00254	0.00079	0.00032	0.00005	0.00001
119	583503.57	4139198.94	0.01660	0.00136	0.00710	0.00729	0.00259	0.00081	0.00033	0.00005	0.00001
120	583513.17	4139196.15	0.01732	0.00142	0.00750	0.00741	0.00264	0.00083	0.00034	0.00005	0.00001
121	583522.77	4139193.37	0.01811	0.00149	0.00795	0.00755	0.0027	0.00086	0.00035	0.00005	0.00001
122	583532.38	4139190.58	0.01899	0.00157	0.00846	0.0077	0.00276	0.00089	0.00036	0.00005	0.00001
123	583541.98	4139187.79	0.01992	0.00166	0.00902	0.00784	0.00282	0.00091	0.00037	0.00005	0.00001
124	583487.15	4139214.12	0.01591	0.00129	0.00654	0.0072	0.00254	0.00078	0.00032	0.00005	0.00001
125	583496.75	4139211.33	0.01656	0.00135	0.00685	0.00732	0.00259	0.0008	0.00033	0.00005	0.00001
126	583506.36	4139208.55	0.01727	0.00141	0.00720	0.00744	0.00264	0.00082	0.00034	0.00005	0.00001
127	583515.96	4139205.76	0.01803	0.00148	0.00759	0.00757	0.0027	0.00085	0.00034	0.00005	0.00001
128	583525.56	4139202.97	0.01886	0.00155	0.00803	0.00771	0.00275	0.00087	0.00035	0.00005	0.00001
129	583535.17	4139200.18	0.01977	0.00163	0.00854	0.00786	0.00281	0.0009	0.00037	0.00005	0.00001
130	583544.77	4139197.39	0.02077	0.00172	0.00910	0.00802	0.00288	0.00093	0.00038	0.00005	0.00001
131	583489.94	4139223.73	0.01653	0.00134	0.00667	0.00735	0.00259	0.0008	0.00032	0.00005	0.00001
132	583499.54	4139220.94	0.01723	0.00140	0.00697	0.00747	0.00264	0.00082	0.00033	0.00005	0.00001
133	583509.14	4139218.15	0.01798	0.00146	0.00731	0.0076	0.00269	0.00084	0.00034	0.00005	0.00001
134	583518.75	4139215.36	0.01879	0.00153	0.00770	0.00773	0.00275	0.00086	0.00035	0.00005	0.00001
135	583528.35	4139212.57	0.01966	0.00161	0.00813	0.00788	0.00281	0.00089	0.00036	0.00005	0.00001
136	583537.95	4139209.79	0.02063	0.00170	0.00863	0.00803	0.00287	0.00092	0.00037	0.00006	0.00001
137	583547.56	4139207.00	0.02170	0.00179	0.00920	0.00819	0.00294	0.00095	0.00039	0.00006	0.00002
138	583492.73	4139233.33	0.01720	0.00139	0.00682	0.0075	0.00264	0.00082	0.00033	0.00005	0.00001
139	583502.33	4139230.54	0.01795	0.00145	0.00711	0.00763	0.00269	0.00084	0.00034	0.00005	0.00001
140	583511.93	4139227.75	0.01875	0.00152	0.00745	0.00776	0.00275	0.00086	0.00035	0.00005	0.00001
141	583521.54	4139224.97	0.01960	0.00160	0.00783	0.0079	0.0028	0.00088	0.00036	0.00005	0.00001
142	583531.14	4139222.18	0.02054	0.00168	0.00825	0.00805	0.00286	0.00091	0.00037	0.00006	0.00002
143	583540.74	4139219.39	0.02158	0.00177	0.00875	0.00821	0.00293	0.00093	0.00038	0.00006	0.00002
144	583550.35	4139216.60	0.02274	0.00187	0.00933	0.00838	0.003	0.00097	0.00039	0.00006	0.00002
145	583495.51	4139242.93	0.01793	0.00145	0.00698	0.00765	0.00269	0.00083	0.00034	0.00005	0.00001
146	583505.12	4139240.15	0.01872	0.00151	0.00727	0.00779	0.00274	0.00085	0.00035	0.00005	0.00001
147	583514.72	4139237.36	0.01958	0.00159	0.00760	0.00793	0.0028	0.00088	0.00036	0.00006	0.00002
148	583524.32	4139234.57	0.02049	0.00166	0.00798	0.00807	0.00286	0.0009	0.00037	0.00006	0.00002
149	583533.93	4139231.78	0.02149	0.00175	0.00840	0.00822	0.00292	0.00092	0.00038	0.00006	0.00002
150	583543.53	4139228.99	0.02263	0.00185	0.00891	0.00839	0.00299	0.00095	0.00039	0.00006	0.00002
151	583553.13	4139226.20	0.02389	0.00196	0.00948	0.00857	0.00306	0.00099	0.0004	0.00006	0.00002
152	583498.30	4139252.54	0.01873	0.00151	0.00718	0.00782	0.00274	0.00085	0.00035	0.00006	0.00002
153	583507.91	4139249.75	0.01957	0.00158	0.00746	0.00795	0.0028	0.00087	0.00035	0.00006	0.00002
154	583517.51	4139246.96	0.02047	0.00166	0.00778	0.00809	0.00285	0.00089	0.00036	0.00006	0.00002
155	583527.11	4139244.17	0.02146	0.00174	0.00815	0.00825	0.00291	0.00092	0.00037	0.00006	0.00002
156	583536.72	4139241.38	0.02255	0.00183	0.00858	0.00841	0.00298	0.00094	0.00038	0.00006	0.00002
157	583546.32	4139238.60	0.02380	0.00194	0.00908	0.00859	0.00305	0.00097	0.0004	0.00006	0.00002
158	583555.92	4139235.81	0.02516	0.00205	0.00966	0.00877	0.00313	0.00101	0.00041	0.00006	0.00002
159	583979.57	4139386.45	0.18633	0.05547	1.81555	0.21393	0.10185	0.06471	0.02645	0.00057	0.00014
160	583988.23	4139383.99	0.18282	0.04962	1.52894	0.20867	0.09597	0.05823	0.02383	0.00062	0.00016
161	583996.88	4139381.52	0.17959	0.04534	1.33312	0.20886	0.09279	0.05377	0.02207	0.00069	0.00017
162	584005.54	4139379.06	0.17663	0.04236	1.20369	0.21464	0.09215	0.05112	0.02105	0.00076	0.00019
163	584014.20	4139376.60	0.17399	0.04044	1.12351	0.22616	0.09382	0.05003	0.0207	0.00085	0.00022
164	584022.85	4139374.14	0.17172	0.03932	1.07899	0.24387	0.09759	0.05023	0.0209	0.00097	0.00025
165	584031.51	4139371.67	0.16986	0.03877	1.05908	0.26896	0.10337	0.05152	0.02159	0.0011	0.00028
166	583982.03	4139395.11	0.16590	0.05266	1.75815	0.21659	0.10207	0.06322	0.02591	0.00059	0.00015
167	583990.69	4139392.64	0.16413	0.04733	1.48833	0.21363	0.09725	0.05738	0.02356	0.00065	0.00016
168	583999.35	4139390.18	0.16255	0.04364	1.31198	0.21648	0.0953	0.05366	0.0221	0.00071	0.00018
169	584008.00	4139387.72	0.16114	0.04127	1.20360	0.22523	0.09602	0.0518	0.02141	0.0008	0.0002
170	584016.66	4139385.26	0.15993	0.03995	1.14405	0.24006	0.09914	0.0515	0.02139	0.00089	0.00023
171	584025.32	4139382.79	0.15890	0.03937	1.11861	0.26152	0.10444	0.05248	0.02192	0.00101	0.00025
172	584033.97	4139380.33	0.15810	0.03930	1.11537	0.29091	0.11181	0.0545	0.02293	0.00116	0.00029
173	583984.50	4139403.76	0.14962	0.04993	1.69295	0.22004	0.1024	0.06156	0.02531	0.00062	0.00016
174	583993.15	4139401.30	0.14893	0.04525	1.44659	0.22002	0.09896	0.05658	0.02332	0.00068	0.00017
175	583986.96	4139412.42	0.13640	0.04730	1.62333	0.22472	0.10302	0.05985	0.0247	0.00065	0.00016
176	583995.62	4139409.96	0.13639	0.04341	1.40779	0.22839	0.10133	0.05597	0.02317	0.00071	0.00018
177	583989.42	4139421.08	0.12547	0.04481	1.55259	0.23105	0.1041	0.05819	0.02413	0.00068	0.00017
178	583998.08	4139418.61	0.12588	0.04193	1.37869	0.23934	0.10461	0.05574	0.02319	0.00075	0.00018
179	583991.88	4139429.73	0.11625	0.04254	1.48699	0.23952	0.10587	0.05678	0.02368	0.00072	0.00017
180	584000.54	4139427.27	0.11689	0.04095	1.36882	0.2535	0.10912	0.05615	0.02349	0.00079	0.00019
181	583994.35	4139438.39	0.10834	0.04068	1.43698	0.25062	0.10864	0.05588	0.02344	0.00076	0.00018
182	584003.00	4139435.93	0.10910	0.04075	1.39360	0.27141	0.11523	0.05755	0.02422	0.00084	0.0002
183	583996.81	4139447.05	0.10144	0.03955	1.42169	0.26478	0.1128	0.05588	0.02359	0.00081	0.00019
184	584005.47	4139444.58	0.10223	0.04167	1.47721	0.29343	0.12333	0.06033	0.02553	0.00089	0.00021
185	583999.27	4139455.70	0.09532	0.03957	1.47412	0.2824	0.11879	0.05723	0.02432	0.00086	0.0002
186	584007.93	4139453.24	0.09609	0.04406	1.65600	0.31941	0.13364	0.06482	0.02756	0.00095	0.00022
187	584016.59	4139450.78	0.09697	0.04910	1.86932	0.36297	0.15054	0.07334	0.03124	0.00105	0.00024
188	584025.24	4139448.31	0.09790	0.05386	2.06862	0.41258	0.16851	0.08187	0.03497	0.00118	0.00027
189	584033.90	4139445.85	0.09883	0.05806	2.24146	0.46969	0.18747	0.09013	0.03867	0.00133	0.00031
190	584042.55	4139443.39	0.09971	0.06161	**2.38462**	0.53669	0.20763	0.09811	0.04234	0.00153	0.00035
191	583979.57	4139386.45	0.17028	0.04738	1.42167	0.19061	0.08944	0.05593	0.02276	0.00052	0.00013
192	583988.23	4139383.99	0.16798	0.04261	1.23771	0.1852	0.08413	0.0502	0.02049	0.00057	0.00015
193	583996.88	4139381.52	0.16588	0.03925	1.10533	0.18534	0.08159	0.04653	0.01906	0.00062	0.00016
194	584005.54	4139379.06	0.16391	0.03698	1.01598	0.19041	0.0813	0.04447	0.01829	0.00069	0.00018

Receptor	UTM Coordinates (m)		Construction Total PM2.5 (Fugitive + Exhaust) Concentrations (µg/m^3)								
No.	UTM-X	UTM-Y	2023	2024	2025	2026	2027	2028	2029	2030	2031
195	584014.20	4139376.60	0.16216	0.03557	0.96133	0.20022	0.08297	0.04373	0.01806	0.00077	0.0002
196	584022.85	4139374.14	0.16065	0.03480	0.93316	0.21497	0.08636	0.04407	0.01829	0.00087	0.00022
197	584031.51	4139371.67	0.15943	0.03450	0.92383	0.23538	0.0914	0.0453	0.01891	0.00099	0.00025
198	584040.17	4139369.21	0.15850	0.03452	0.92690	0.2629	0.09809	0.04733	0.01991	0.00113	0.00029
199	584048.82	4139366.75	0.15788	0.03471	0.93685	0.30024	0.10663	0.05012	0.02133	0.00131	0.00033
200	583982.03	4139395.11	0.15283	0.04490	1.36719	0.19262	0.0895	0.05452	0.02224	0.00054	0.00014
201	583990.69	4139392.64	0.15187	0.04056	1.19780	0.18913	0.08508	0.04932	0.0202	0.00059	0.00015
202	583999.35	4139390.18	0.15103	0.03769	1.08221	0.1915	0.08359	0.04627	0.01902	0.00065	0.00016
203	584008.00	4139387.72	0.15030	0.03595	1.01106	0.19903	0.08446	0.0449	0.01853	0.00072	0.00018
204	584016.66	4139385.26	0.14969	0.03505	0.97436	0.21154	0.08737	0.04485	0.01859	0.0008	0.0002
205	584025.32	4139382.79	0.14918	0.03476	0.96282	0.22925	0.09207	0.04586	0.0191	0.00091	0.00023
206	584033.97	4139380.33	0.14885	0.03487	0.96800	0.25287	0.09845	0.04773	0.02	0.00103	0.00026
207	584042.63	4139377.87	0.14866	0.03523	0.98292	0.28404	0.10657	0.05035	0.02125	0.00119	0.0003
208	584051.29	4139375.41	0.14866	0.03569	1.00192	0.32572	0.11667	0.0537	0.02291	0.00139	0.00035
209	583984.50	4139403.76	0.13878	0.04249	1.30683	0.19531	0.08968	0.05297	0.02167	0.00056	0.00014
210	583993.15	4139401.30	0.13864	0.03867	1.15695	0.19424	0.08641	0.04847	0.01992	0.00062	0.00016
211	584045.09	4139386.52	0.13962	0.03637	1.05378	0.31068	0.11695	0.05409	0.02294	0.00125	0.00031
212	584053.75	4139384.06	0.14001	0.03708	1.08169	0.35805	0.12897	0.05807	0.02489	0.00147	0.00036
213	583986.96	4139412.42	0.12726	0.04015	1.24308	0.19906	0.09013	0.05138	0.0211	0.00059	0.00015
214	583995.62	4139409.96	0.12762	0.03697	1.11816	0.20101	0.0883	0.04778	0.01973	0.00064	0.00016
215	584047.55	4139395.18	0.13124	0.03798	1.14225	0.34459	0.12955	0.05873	0.02506	0.00133	0.00033
216	584056.21	4139392.72	0.13187	0.03892	1.17835	0.39993	0.14389	0.06345	0.0274	0.00157	0.00038
217	583989.42	4139421.08	0.11762	0.03792	1.17849	0.20426	0.09101	0.04984	0.02057	0.00062	0.00015
218	583998.08	4139418.61	0.11831	0.03555	1.08593	0.20995	0.09098	0.0474	0.01967	0.00068	0.00017
219	584050.02	4139403.84	0.12344	0.04013	1.25086	0.3869	0.14449	0.06438	0.02769	0.00142	0.00034
220	584058.67	4139401.38	0.12419	0.04125	1.29399	0.45232	0.16143	0.06992	0.0305	0.00168	0.0004
221	583991.88	4139429.73	0.10944	0.03587	1.11719	0.21133	0.0925	0.04851	0.02013	0.00065	0.00016
222	584000.54	4139427.27	0.11029	0.03451	1.06585	0.22165	0.09473	0.04753	0.01984	0.00071	0.00017
223	584052.48	4139412.49	0.11615	0.04287	1.38133	0.43575	0.16144	0.07103	0.03079	0.00151	0.00036
224	584061.136	4139410.031	0.11692	0.04414	1.43021	0.51061	0.18088	0.07733	0.03401	0.0018	0.00042
225	583994.347	4139438.388	0.10235	0.03414	1.06513	0.22076	0.0949	0.04762	0.01988	0.00069	0.00017
226	584003.003	4139435.926	0.10327	0.03408	1.06555	0.23668	0.09989	0.0485	0.02036	0.00076	0.00018
227	584054.943	4139421.15	0.10929	0.04628	1.53494	0.4873	0.17991	0.07862	0.03426	0.00161	0.00037
228	584063.599	4139418.688	0.11003	0.04766	1.58791	0.568	0.20128	0.08544	0.03774	0.00193	0.00045
229	583996.809	4139447.045	0.09612	0.03301	1.03137	0.23314	0.09864	0.04756	0.01997	0.00073	0.00018
230	584005.466	4139444.582	0.09703	0.03458	1.09446	0.25585	0.10704	0.05082	0.02143	0.0008	0.00019
231	583999.272	4139455.702	0.09054	0.03301	1.02794	0.24986	0.10465	0.04915	0.02072	0.00078	0.00018
232	584007.929	4139453.239	0.09140	0.03661	1.16217	0.28058	0.1172	0.05539	0.02338	0.00085	0.0002
233	584016.585	4139450.776	0.09235	0.04077	1.31965	0.31689	0.13175	0.06261	0.02648	0.00094	0.00022
234	584025.242	4139448.314	0.09334	0.04473	1.47240	0.35759	0.14717	0.06982	0.02962	0.00105	0.00024
235	584033.898	4139445.851	0.09431	0.04826	1.61010	0.40347	0.16343	0.07683	0.03274	0.00118	0.00027
236	584042.555	4139443.388	0.09522	0.05128	1.72868	0.45578	0.18071	0.08362	0.03584	0.00134	0.00031
237	584001.735	4139464.358	0.08550	0.03537	1.07019	0.27461	0.11525	0.05433	0.02286	0.00083	0.00019
238	584010.391	4139461.895	0.08629	0.04132	1.27485	0.31428	0.13257	0.06406	0.02692	0.00091	0.00021
239	584019.048	4139459.433	0.08715	0.04667	1.47345	0.3561	0.14981	0.07309	0.03075	0.001	0.00023
240	584027.704	4139456.97	0.08803	0.05123	1.65020	0.40063	0.16692	0.08127	0.0343	0.00112	0.00026
241	584036.361	4139454.508	0.08889	0.05508	1.80236	0.44941	0.18438	0.08883	0.03765	0.00126	0.00029
242	584045.017	4139452.045	0.08970	0.05827	1.92976	0.50386	0.20259	0.09596	0.0409	0.00143	0.00033
		Maximum	**0.186**	**0.062**	**2.385**	**0.568**	**0.208**	**0.098**	**0.042**	**0.003**	**0.001**

Google Middlefield - District Utilities Construction Impacts
Total PM2.5 Concentrations - With Mitigation
at Off-Site Residential Receptors (1st & 2nd level receptor heights)

Receptor	UTM Coordinates (m)		Construction Total PM2.5 (Fugitive + Exhaust) Concentrations (µg/m^3)								
No.	UTM-X	UTM-Y	2023	2024	2025	2026	2027	2028	2029	2030	2031
1	583674.05	4138932.37	0.01015	0.00116	0.00469	0.00205	0.00083	0.00047	0.00028	0.00006	0.00002
2	583685.82	4138936.00	0.01148	0.00131	0.00509	0.00216	0.00089	0.0005	0.0003	0.00007	0.00002
3	583705.56	4138942.41	0.01426	0.00162	0.00585	0.00239	0.00099	0.00056	0.00033	0.00007	0.00002
4	583715.08	4138945.35	0.01596	0.00181	0.00627	0.0025	0.00104	0.0006	0.00035	0.00008	0.00002
5	583722.18	4138945.87	0.01726	0.00195	0.00659	0.0026	0.00108	0.00062	0.00037	0.00008	0.00002
6	583727.20	4138939.64	0.01786	0.00201	0.00675	0.00268	0.00112	0.00064	0.00038	0.00008	0.00002
7	583734.13	4138930.98	0.01867	0.00210	0.00696	0.00278	0.00116	0.00066	0.00039	0.00009	0.00002
8	583740.36	4138923.02	0.01928	0.00217	0.00713	0.00288	0.0012	0.00068	0.0004	0.00009	0.00002
9	583745.55	4138915.57	0.01977	0.00222	0.00727	0.00297	0.00124	0.0007	0.00041	0.00009	0.00002
10	583750.23	4138909.86	0.02028	0.00228	0.00741	0.00305	0.00127	0.00071	0.00042	0.00009	0.00003
11	583755.59	4138902.41	0.02079	0.00233	0.00755	0.00314	0.00131	0.00073	0.00043	0.0001	0.00003
12	583747.80	4138895.84	0.01877	0.00211	0.00708	0.00302	0.00125	0.00069	0.00041	0.00009	0.00003
13	583757.15	4138883.72	0.01961	0.00220	0.00732	0.00318	0.00131	0.00072	0.00043	0.0001	0.00003
14	583765.46	4138890.29	0.02183	0.00244	0.00784	0.00332	0.00138	0.00076	0.00046	0.0001	0.00003
15	583771.18	4138882.33	0.02232	0.00249	0.00798	0.00342	0.00142	0.00078	0.00047	0.0001	0.00003
16	583776.72	4138875.93	0.02289	0.00255	0.00815	0.00353	0.00146	0.0008	0.00048	0.00011	0.00003
17	583783.64	4138866.92	0.02349	0.00262	0.00833	0.00366	0.00151	0.00083	0.0005	0.00011	0.00003
18	583788.14	4138861.04	0.02385	0.00265	0.00844	0.00375	0.00155	0.00084	0.00051	0.00011	0.00003
19	583794.20	4138852.90	0.02428	0.00270	0.00859	0.00387	0.00159	0.00086	0.00052	0.00012	0.00003
20	583714.91	4138939.46	0.01560	0.00177	0.00620	0.00251	0.00104	0.00059	0.00035	0.00008	0.00002
21	583719.93	4138932.71	0.01611	0.00182	0.00634	0.00258	0.00107	0.00061	0.00036	0.00008	0.00002
22	583725.30	4138925.27	0.01663	0.00188	0.00648	0.00266	0.0011	0.00062	0.00037	0.00008	0.00002
23	583731.88	4138917.30	0.01731	0.00196	0.00667	0.00276	0.00115	0.00064	0.00038	0.00008	0.00002
24	583737.24	4138909.69	0.01779	0.00201	0.00680	0.00284	0.00118	0.00066	0.00039	0.00009	0.00002
25	583742.96	4138903.11	0.01839	0.00207	0.00697	0.00294	0.00122	0.00068	0.0004	0.00009	0.00002
26	583762.52	4138876.96	0.02010	0.00226	0.00746	0.00327	0.00135	0.00074	0.00044	0.0001	0.00003
27	583768.41	4138869.87	0.02064	0.00231	0.00762	0.00338	0.00139	0.00076	0.00046	0.0001	0.00003
28	583775.16	4138860.34	0.02113	0.00236	0.00777	0.0035	0.00144	0.00078	0.00047	0.00011	0.00003
29	583781.04	4138853.42	0.02165	0.00242	0.00793	0.00361	0.00148	0.0008	0.00048	0.00011	0.00003
30	583694.83	4138938.94	0.01265	0.00144	0.00542	0.00226	0.00093	0.00053	0.00031	0.00007	0.00002
31	584511.66	4138899.64	0.02130	0.00183	0.01196	0.0662	0.01746	0.00817	0.00598	0.00259	0.00072
32	584507.85	4138883.72	0.02222	0.00189	0.01210	0.06505	0.01742	0.00804	0.00589	0.00249	0.00069
33	584503.70	4138868.48	0.02308	0.00195	0.01224	0.06393	0.01736	0.00791	0.0058	0.0024	0.00066
34	584500.23	4138850.13	0.02371	0.00200	0.01235	0.06223	0.01716	0.00771	0.00565	0.00229	0.00063
35	584537.28	4138897.91	0.01744	0.00154	0.01088	0.05994	0.0155	0.00744	0.00542	0.00247	0.00069
36	584533.13	4138879.91	0.01831	0.00160	0.01103	0.05912	0.01553	0.00734	0.00535	0.00238	0.00066
37	584527.93	4138865.02	0.01925	0.00167	0.01123	0.05875	0.01565	0.0073	0.00532	0.00232	0.00064
38	583674.05	4138932.37	0.00970	0.00111	0.00454	0.00199	0.00081	0.00045	0.00027	0.00006	0.00002
39	583685.82	4138936.00	0.01097	0.00125	0.00492	0.0021	0.00086	0.00048	0.00029	0.00007	0.00002
40	583705.56	4138942.41	0.01359	0.00154	0.00566	0.00231	0.00095	0.00054	0.00032	0.00007	0.00002
41	583715.08	4138945.35	0.01514	0.00171	0.00606	0.00243	0.00101	0.00058	0.00034	0.00007	0.00002
42	583722.18	4138945.87	0.01636	0.00185	0.00637	0.00252	0.00105	0.0006	0.00036	0.00008	0.00002
43	583727.20	4138939.64	0.01693	0.00191	0.00652	0.00259	0.00108	0.00062	0.00036	0.00008	0.00002
44	583734.13	4138930.98	0.01769	0.00199	0.00672	0.0027	0.00112	0.00064	0.00038	0.00008	0.00002
45	583740.36	4138923.02	0.01834	0.00206	0.00689	0.00279	0.00116	0.00066	0.00039	0.00009	0.00002
46	583745.55	4138915.57	0.01881	0.00211	0.00702	0.00288	0.0012	0.00067	0.0004	0.00009	0.00002
47	583750.23	4138909.86	0.01930	0.00217	0.00716	0.00295	0.00123	0.00069	0.00041	0.00009	0.00002
48	583755.59	4138902.41	0.01979	0.00222	0.00729	0.00304	0.00127	0.0007	0.00042	0.00009	0.00003
49	583747.80	4138895.84	0.01788	0.00201	0.00684	0.00293	0.00121	0.00067	0.0004	0.00009	0.00002
50	583757.15	4138883.72	0.01869	0.00210	0.00708	0.00308	0.00127	0.0007	0.00042	0.00009	0.00003
51	583765.46	4138890.29	0.02077	0.00232	0.00757	0.00322	0.00133	0.00074	0.00044	0.0001	0.00003
52	583771.18	4138882.33	0.02125	0.00237	0.00771	0.00332	0.00138	0.00076	0.00045	0.0001	0.00003
53	583776.72	4138875.93	0.02180	0.00243	0.00787	0.00342	0.00142	0.00078	0.00047	0.0001	0.00003
54	583783.64	4138866.92	0.02238	0.00249	0.00805	0.00355	0.00147	0.0008	0.00048	0.00011	0.00003
55	583788.14	4138861.04	0.02273	0.00253	0.00816	0.00364	0.0015	0.00081	0.00049	0.00011	0.00003
56	583794.20	4138852.90	0.02315	0.00257	0.00830	0.00375	0.00154	0.00083	0.0005	0.00011	0.00003
57	583714.91	4138939.46	0.01486	0.00168	0.00599	0.00243	0.00101	0.00057	0.00034	0.00008	0.00002
58	583719.93	4138932.71	0.01535	0.00174	0.00613	0.0025	0.00104	0.00059	0.00035	0.00008	0.00002
59	583725.30	4138925.27	0.01584	0.00179	0.00627	0.00258	0.00107	0.0006	0.00036	0.00008	0.00002
60	583731.88	4138917.30	0.01650	0.00186	0.00645	0.00268	0.00111	0.00062	0.00037	0.00008	0.00002
61	583737.24	4138909.69	0.01695	0.00191	0.00658	0.00276	0.00114	0.00064	0.00038	0.00009	0.00002
62	583742.96	4138903.11	0.01752	0.00197	0.00673	0.00285	0.00118	0.00066	0.00039	0.00009	0.00002
63	583762.52	4138876.96	0.01916	0.00215	0.00721	0.00317	0.00131	0.00072	0.00043	0.0001	0.00003
64	583768.41	4138869.87	0.01968	0.00220	0.00737	0.00328	0.00135	0.00074	0.00044	0.0001	0.00003
65	583775.16	4138860.34	0.02015	0.00225	0.00752	0.0034	0.0014	0.00076	0.00046	0.0001	0.00003
66	583781.04	4138853.42	0.02065	0.00231	0.00767	0.0035	0.00144	0.00078	0.00047	0.00011	0.00003
67	583694.83	4138938.94	0.01208	0.00138	0.00524	0.00219	0.0009	0.00051	0.0003	0.00007	0.00002
68	584511.66	4138899.64	0.02033	0.00175	0.01163	0.06425	0.0169	0.00792	0.0058	0.00253	0.0007
69	584507.85	4138883.72	0.02120	0.00181	0.01176	0.06315	0.01685	0.00779	0.00571	0.00243	0.00067
70	584503.70	4138868.48	0.02201	0.00187	0.01190	0.06207	0.0168	0.00767	0.00562	0.00234	0.00065
71	584500.23	4138850.13	0.02263	0.00191	0.01201	0.06047	0.01662	0.00748	0.00548	0.00224	0.00062
72	584537.28	4138897.91	0.01671	0.00148	0.01058	0.05822	0.01501	0.00721	0.00525	0.00241	0.00067
73	584533.13	4138879.91	0.01753	0.00154	0.01073	0.05743	0.01504	0.00712	0.00519	0.00233	0.00065
74	584527.93	4138865.02	0.01845	0.00161	0.01093	0.05712	0.01517	0.00709	0.00517	0.00226	0.00063
75	583484.36	4139204.52	0.00258	0.00028	0.00123	0.00127	0.00048	0.00021	0.00014	0.00004	0.00001
76	583493.96	4139201.73	0.00269	0.00030	0.00129	0.00129	0.00049	0.00021	0.00014	0.00004	0.00001
77	583503.57	4139198.94	0.00281	0.00031	0.00135	0.00131	0.0005	0.00022	0.00014	0.00004	0.00001
78	583513.17	4139196.15	0.00294	0.00032	0.00143	0.00134	0.00051	0.00023	0.00015	0.00004	0.00001
79	583522.77	4139193.37	0.00308	0.00034	0.00152	0.00136	0.00052	0.00023	0.00015	0.00004	0.00001
80	583532.38	4139190.58	0.00323	0.00036	0.00161	0.00139	0.00053	0.00024	0.00016	0.00004	0.00001
81	583541.98	4139187.79	0.00340	0.00038	0.00172	0.00142	0.00055	0.00025	0.00016	0.00004	0.00001
82	583487.15	4139214.12	0.00269	0.00029	0.00125	0.0013	0.00049	0.00021	0.00014	0.00004	0.00001
83	583496.75	4139211.33	0.00280	0.00031	0.00131	0.00132	0.0005	0.00022	0.00014	0.00004	0.00001
84	583506.36	4139208.55	0.00293	0.00032	0.00138	0.00134	0.00051	0.00022	0.00015	0.00004	0.00001
85	583515.96	4139205.76	0.00306	0.00034	0.00145	0.00137	0.00052	0.00023	0.00015	0.00004	0.00001
86	583525.56	4139202.97	0.00321	0.00036	0.00154	0.00139	0.00053	0.00024	0.00015	0.00004	0.00001
87	583535.17	4139200.18	0.00338	0.00037	0.00163	0.00142	0.00054	0.00025	0.00016	0.00004	0.00001
88	583544.77	4139197.39	0.00356	0.00040	0.00174	0.00145	0.00056	0.00025	0.00016	0.00004	0.00001
89	583489.94	4139223.73	0.00280	0.00031	0.00127	0.00132	0.0005	0.00022	0.00014	0.00004	0.00001
90	583499.54	4139220.94	0.00292	0.00032	0.00133	0.00135	0.00051	0.00022	0.00015	0.00004	0.00001
91	583509.14	4139218.15	0.00306	0.00034	0.00140	0.00137	0.00052	0.00023	0.00015	0.00004	0.00001
92	583518.75	4139215.36	0.00320	0.00035	0.00147	0.0014	0.00053	0.00023	0.00015	0.00004	0.00001
93	583528.35	4139212.57	0.00336	0.00037	0.00156	0.00142	0.00054	0.00024	0.00016	0.00004	0.00001
94	583537.95	4139209.79	0.00353	0.00039	0.00165	0.00145	0.00056	0.00025	0.00016	0.00004	0.00001

Receptor	UTM Coordinates (m)		Construction Total PM2.5 (Fugitive + Exhaust) Concentrations (µg/m^3)								
No.	UTM-X	UTM-Y	2023	2024	2025	2026	2027	2028	2029	2030	2031
95	583547.56	4139207.00	0.00372	0.00041	0.00176	0.00148	0.00057	0.00026	0.00017	0.00004	0.00001
96	583492.73	4139233.33	0.00292	0.00032	0.00130	0.00135	0.00051	0.00022	0.00014	0.00004	0.00001
97	583502.33	4139230.54	0.00305	0.00033	0.00136	0.00137	0.00052	0.00023	0.00015	0.00004	0.00001
98	583511.93	4139227.75	0.00320	0.00035	0.00143	0.0014	0.00053	0.00023	0.00015	0.00004	0.00001
99	583521.54	4139224.97	0.00335	0.00037	0.00150	0.00143	0.00054	0.00024	0.00016	0.00004	0.00001
100	583531.14	4139222.18	0.00352	0.00039	0.00158	0.00145	0.00055	0.00025	0.00016	0.00004	0.00001
101	583540.74	4139219.39	0.00370	0.00041	0.00168	0.00148	0.00057	0.00025	0.00017	0.00004	0.00001
102	583550.35	4139216.60	0.00391	0.00043	0.00179	0.00152	0.00058	0.00026	0.00017	0.00005	0.00001
103	583495.51	4139242.93	0.00305	0.00033	0.00134	0.00138	0.00052	0.00022	0.00015	0.00004	0.00001
104	583505.12	4139240.15	0.00319	0.00035	0.00139	0.0014	0.00053	0.00023	0.00015	0.00004	0.00001
105	583514.72	4139237.36	0.00335	0.00037	0.00146	0.00143	0.00054	0.00024	0.00016	0.00004	0.00001
106	583524.32	4139234.57	0.00351	0.00038	0.00153	0.00146	0.00055	0.00024	0.00016	0.00004	0.00001
107	583533.93	4139231.78	0.00369	0.00040	0.00161	0.00149	0.00056	0.00025	0.00016	0.00005	0.00001
108	583543.53	4139228.99	0.00389	0.00043	0.00171	0.00152	0.00058	0.00026	0.00017	0.00005	0.00001
109	583553.13	4139226.20	0.00412	0.00045	0.00182	0.00155	0.0006	0.00027	0.00017	0.00005	0.00001
110	583498.30	4139252.54	0.00319	0.00035	0.00137	0.00141	0.00053	0.00023	0.00015	0.00004	0.00001
111	583507.91	4139249.75	0.00334	0.00036	0.00143	0.00143	0.00054	0.00024	0.00015	0.00004	0.00001
112	583517.51	4139246.96	0.00351	0.00038	0.00149	0.00146	0.00055	0.00024	0.00016	0.00005	0.00001
113	583527.11	4139244.17	0.00368	0.00040	0.00157	0.00149	0.00056	0.00025	0.00016	0.00005	0.00001
114	583536.72	4139241.38	0.00388	0.00042	0.00165	0.00152	0.00058	0.00026	0.00017	0.00005	0.00001
115	583546.32	4139238.60	0.00410	0.00045	0.00175	0.00155	0.00059	0.00027	0.00017	0.00005	0.00001
116	583555.92	4139235.81	0.00435	0.00048	0.00186	0.00159	0.00061	0.00028	0.00018	0.00005	0.00001
117	583484.36	4139204.52	0.00249	0.00027	0.00117	0.00125	0.00047	0.0002	0.00013	0.00004	0.00001
118	583493.96	4139201.73	0.00259	0.00028	0.00122	0.00127	0.00048	0.00021	0.00014	0.00004	0.00001
119	583503.57	4139198.94	0.00270	0.00030	0.00129	0.00129	0.00049	0.00021	0.00014	0.00004	0.00001
120	583513.17	4139196.15	0.00282	0.00031	0.00136	0.00131	0.0005	0.00022	0.00014	0.00004	0.00001
121	583522.77	4139193.37	0.00295	0.00033	0.00144	0.00134	0.00051	0.00023	0.00015	0.00004	0.00001
122	583532.38	4139190.58	0.00310	0.00034	0.00153	0.00136	0.00052	0.00023	0.00015	0.00004	0.00001
123	583541.98	4139187.79	0.00325	0.00036	0.00164	0.00139	0.00053	0.00024	0.00016	0.00004	0.00001
124	583487.15	4139214.12	0.00259	0.00028	0.00119	0.00127	0.00048	0.00021	0.00014	0.00004	0.00001
125	583496.75	4139211.33	0.00270	0.00029	0.00124	0.0013	0.00049	0.00021	0.00014	0.00004	0.00001
126	583506.36	4139208.55	0.00282	0.00031	0.00131	0.00132	0.0005	0.00022	0.00014	0.00004	0.00001
127	583515.96	4139205.76	0.00294	0.00032	0.00138	0.00134	0.00051	0.00022	0.00015	0.00004	0.00001
128	583525.56	4139202.97	0.00308	0.00034	0.00146	0.00137	0.00052	0.00023	0.00015	0.00004	0.00001
129	583535.17	4139200.18	0.00323	0.00036	0.00155	0.00139	0.00053	0.00024	0.00015	0.00004	0.00001
130	583544.77	4139197.39	0.00340	0.00038	0.00165	0.00142	0.00054	0.00025	0.00016	0.00004	0.00001
131	583489.94	4139223.73	0.00270	0.00029	0.00121	0.0013	0.00049	0.00021	0.00014	0.00004	0.00001
132	583499.54	4139220.94	0.00281	0.00031	0.00127	0.00132	0.0005	0.00022	0.00014	0.00004	0.00001
133	583509.14	4139218.15	0.00294	0.00032	0.00133	0.00135	0.00051	0.00022	0.00015	0.00004	0.00001
134	583518.75	4139215.36	0.00307	0.00034	0.00140	0.00137	0.00052	0.00023	0.00015	0.00004	0.00001
135	583528.35	4139212.57	0.00322	0.00035	0.00148	0.0014	0.00053	0.00023	0.00015	0.00004	0.00001
136	583537.95	4139209.79	0.00338	0.00037	0.00157	0.00142	0.00054	0.00024	0.00016	0.00004	0.00001
137	583547.56	4139207.00	0.00356	0.00039	0.00167	0.00145	0.00056	0.00025	0.00016	0.00004	0.00001
138	583492.73	4139233.33	0.00281	0.00031	0.00124	0.00133	0.0005	0.00021	0.00014	0.00004	0.00001
139	583502.33	4139230.54	0.00293	0.00032	0.00129	0.00135	0.00051	0.00022	0.00014	0.00004	0.00001
140	583511.93	4139227.75	0.00307	0.00033	0.00136	0.00138	0.00052	0.00023	0.00015	0.00004	0.00001
141	583521.54	4139224.97	0.00321	0.00035	0.00142	0.0014	0.00053	0.00023	0.00015	0.00004	0.00001
142	583531.14	4139222.18	0.00337	0.00037	0.00150	0.00143	0.00054	0.00024	0.00016	0.00004	0.00001
143	583540.74	4139219.39	0.00354	0.00039	0.00159	0.00146	0.00055	0.00025	0.00016	0.00004	0.00001
144	583550.35	4139216.60	0.00373	0.00041	0.00170	0.00149	0.00057	0.00026	0.00017	0.00004	0.00001
145	583495.51	4139242.93	0.00293	0.00032	0.00127	0.00136	0.00051	0.00022	0.00014	0.00004	0.00001
146	583505.12	4139240.15	0.00306	0.00033	0.00133	0.00138	0.00052	0.00022	0.00015	0.00004	0.00001
147	583514.72	4139237.36	0.00321	0.00035	0.00139	0.00141	0.00053	0.00023	0.00015	0.00004	0.00001
148	583524.32	4139234.57	0.00336	0.00037	0.00145	0.00143	0.00054	0.00024	0.00016	0.00004	0.00001
149	583533.93	4139231.78	0.00353	0.00039	0.00153	0.00146	0.00055	0.00024	0.00016	0.00004	0.00001
150	583543.53	4139228.99	0.00372	0.00041	0.00162	0.00149	0.00057	0.00025	0.00016	0.00005	0.00001
151	583553.13	4139226.20	0.00393	0.00043	0.00173	0.00152	0.00058	0.00026	0.00017	0.00005	0.00001
152	583498.30	4139252.54	0.00307	0.00033	0.00131	0.00139	0.00052	0.00022	0.00015	0.00004	0.00001
153	583507.91	4139249.75	0.00321	0.00035	0.00136	0.00141	0.00053	0.00023	0.00015	0.00004	0.00001
154	583517.51	4139246.96	0.00336	0.00037	0.00142	0.00144	0.00054	0.00024	0.00015	0.00004	0.00001
155	583527.11	4139244.17	0.00353	0.00038	0.00149	0.00146	0.00055	0.00024	0.00016	0.00004	0.00001
156	583536.72	4139241.38	0.00371	0.00041	0.00157	0.00149	0.00056	0.00025	0.00016	0.00005	0.00001
157	583546.32	4139238.60	0.00392	0.00043	0.00166	0.00152	0.00058	0.00026	0.00017	0.00005	0.00001
158	583555.92	4139235.81	0.00415	0.00045	0.00176	0.00156	0.00059	0.00027	0.00017	0.00005	0.00001
159	583979.57	4139386.45	0.03149	0.00968	0.33500	0.0418	0.026	0.02044	0.01076	0.00044	0.00011
160	583988.23	4139383.99	0.03084	0.00864	0.28110	0.0402	0.02378	0.01806	0.00962	0.00049	0.00012
161	583996.88	4139381.52	0.03024	0.00789	0.24449	0.03984	0.02245	0.01646	0.00888	0.00054	0.00014
162	584005.54	4139379.06	0.02969	0.00737	0.22038	0.04066	0.02186	0.01551	0.00847	0.0006	0.00015
163	584014.20	4139376.60	0.02919	0.00702	0.20547	0.04263	0.0219	0.01507	0.00835	0.00067	0.00017
164	584022.85	4139374.14	0.02876	0.00680	0.19719	0.04581	0.0225	0.01506	0.00847	0.00075	0.00019
165	584031.51	4139371.67	0.02840	0.00668	0.19347	0.05039	0.02359	0.0154	0.00881	0.00086	0.00022
166	583982.03	4139395.11	0.02793	0.00910	0.32451	0.04227	0.02584	0.01998	0.01057	0.00046	0.00012
167	583990.69	4139392.64	0.02759	0.00816	0.27366	0.0411	0.02388	0.0178	0.00954	0.00051	0.00013
168	583999.35	4139390.18	0.02729	0.00751	0.24062	0.04126	0.02286	0.01644	0.00892	0.00056	0.00014
169	584008.00	4139387.72	0.02701	0.00709	0.22037	0.04265	0.0226	0.01573	0.00865	0.00062	0.00016
170	584016.66	4139385.26	0.02676	0.00685	0.20924	0.04526	0.02301	0.01555	0.00867	0.0007	0.00017
171	584025.32	4139382.79	0.02655	0.00672	0.20446	0.04916	0.02397	0.01578	0.00892	0.00079	0.0002
172	584033.97	4139380.33	0.02638	0.00668	0.20381	0.05458	0.02543	0.01636	0.00939	0.00091	0.00023
173	583984.50	4139403.76	0.02510	0.00857	0.31258	0.04286	0.02567	0.01946	0.01037	0.00048	0.00012
174	583993.15	4139401.30	0.02495	0.00773	0.26602	0.04226	0.02407	0.01756	0.00947	0.00053	0.00013
175	583986.96	4139412.42	0.02281	0.00807	0.29982	0.04366	0.02555	0.01893	0.01016	0.00051	0.00012
176	583995.62	4139409.96	0.02278	0.00736	0.25892	0.04379	0.02439	0.01738	0.00945	0.00056	0.00014
177	583989.42	4139421.08	0.02091	0.00761	0.28684	0.04476	0.02551	0.01842	0.00997	0.00053	0.00013
178	583998.08	4139418.61	0.02096	0.00707	0.25362	0.04581	0.02493	0.01733	0.0095	0.00059	0.00014
179	583991.88	4139429.73	0.01932	0.00720	0.27481	0.04626	0.02563	0.01799	0.00984	0.00056	0.00014
180	584000.54	4139427.27	0.01941	0.00686	0.25190	0.04846	0.02578	0.0175	0.00968	0.00062	0.00015
181	583994.35	4139438.39	0.01795	0.00686	0.26570	0.04828	0.026	0.01774	0.0098	0.0006	0.00014
182	584003.00	4139435.93	0.01807	0.00680	0.25670	0.05189	0.02708	0.01801	0.01005	0.00066	0.00016
183	583996.81	4139447.05	0.01676	0.00666	0.26315	0.05096	0.02678	0.01782	0.00994	0.00063	0.00015
184	584005.47	4139444.58	0.01689	0.00694	0.27267	0.05624	0.029	0.01906	0.01069	0.0007	0.00016
185	583999.27	4139455.70	0.01571	0.00668	0.27358	0.05449	0.02819	0.01845	0.01037	0.00068	0.00016
186	584007.93	4139453.24	0.01584	0.00737	0.30698	0.06164	0.03173	0.02084	0.01172	0.00075	0.00017
187	584016.59	4139450.78	0.01598	0.00817	0.34638	0.0701	0.03581	0.02359	0.01328	0.00083	0.00019
188	584025.24	4139448.31	0.01613	0.00891	0.38314	0.07967	0.04007	0.02634	0.01488	0.00093	0.00021
189	584033.90	4139445.85	0.01627	0.00957	0.41497	0.09061	0.04446	0.029	0.01649	0.00105	0.00024
190	584042.55	4139443.39	0.01641	0.01011	**0.44127**	0.10339	0.04902	0.03157	0.01813	0.00121	0.00027
191	583979.57	4139386.45	0.02883	0.00815	0.25976	0.03637	0.02205	0.01704	0.00899	0.00041	0.0001
192	583988.23	4139383.99	0.02839	0.00739	0.22618	0.03518	0.02039	0.01524	0.00814	0.00044	0.00011
193	583996.88	4139381.52	0.02798	0.00683	0.20192	0.03504	0.01944	0.01406	0.0076	0.00049	0.00012
194	584005.54	4139379.06	0.02759	0.00645	0.18551	0.03586	0.01908	0.01337	0.00732	0.00054	0.00014

Receptor	UTM Coordinates (m)		Construction Total PM2.5 (Fugitive + Exhaust) Concentrations (µg/m^3)								
No.	UTM-X	UTM-Y	2023	2024	2025	2026	2027	2028	2029	2030	2031
195	584014.20	4139376.60	0.02724	0.00620	0.17547	0.03759	0.01922	0.01309	0.00726	0.0006	0.00015
196	584022.85	4139374.14	0.02693	0.00605	0.17030	0.04026	0.01979	0.01315	0.00739	0.00068	0.00017
197	584031.51	4139371.67	0.02668	0.00597	0.16859	0.044	0.02076	0.01348	0.00769	0.00077	0.00019
198	584040.17	4139369.21	0.02647	0.00594	0.16916	0.04907	0.02211	0.01407	0.00815	0.00089	0.00022
199	584048.82	4139366.75	0.02633	0.00594	0.17099	0.05597	0.02388	0.0149	0.00881	0.00103	0.00026
200	583982.03	4139395.11	0.02578	0.00764	0.24979	0.03672	0.02187	0.0166	0.0088	0.00042	0.00011
201	583990.69	4139392.64	0.02557	0.00696	0.21888	0.03589	0.02043	0.01497	0.00804	0.00046	0.00012
202	583999.35	4139390.18	0.02539	0.00649	0.19768	0.03618	0.01974	0.01398	0.00761	0.00051	0.00013
203	584008.00	4139387.72	0.02522	0.00619	0.18461	0.03747	0.01967	0.01351	0.00745	0.00056	0.00014
204	584016.66	4139385.26	0.02507	0.00603	0.17786	0.03972	0.02011	0.01345	0.0075	0.00063	0.00016
205	584025.32	4139382.79	0.02495	0.00596	0.17573	0.04296	0.021	0.01372	0.00775	0.00071	0.00018
206	584033.97	4139380.33	0.02485	0.00595	0.17668	0.04732	0.02228	0.01425	0.00816	0.00081	0.0002
207	584042.63	4139377.87	0.02478	0.00599	0.17942	0.05308	0.02395	0.01502	0.00873	0.00093	0.00023
208	584051.29	4139375.41	0.02474	0.00604	0.18291	0.06079	0.02605	0.01602	0.00949	0.00109	0.00027
209	583984.50	4139403.76	0.02333	0.00717	0.23874	0.03718	0.02169	0.01612	0.00861	0.00044	0.00011
210	583993.15	4139401.30	0.02327	0.00657	0.21140	0.03681	0.02054	0.01471	0.00796	0.00048	0.00012
211	584045.09	4139386.52	0.02322	0.00610	0.19240	0.05813	0.02621	0.0162	0.00945	0.00098	0.00024
212	584053.75	4139384.06	0.02325	0.00620	0.19752	0.0669	0.02872	0.0174	0.01034	0.00115	0.00028
213	583986.96	4139412.42	0.02132	0.00673	0.22705	0.03781	0.02155	0.01562	0.00841	0.00046	0.00011
214	583995.62	4139409.96	0.02135	0.00623	0.20429	0.03804	0.02077	0.0145	0.00792	0.00051	0.00012
215	584047.55	4139395.18	0.02178	0.00630	0.20861	0.06456	0.02898	0.01769	0.01037	0.00104	0.00025
216	584056.21	4139392.72	0.02186	0.00643	0.21523	0.0748	0.03198	0.01913	0.01143	0.00123	0.0003
217	583989.42	4139421.08	0.01964	0.00632	0.21520	0.03871	0.02149	0.01514	0.00823	0.00049	0.00012
218	583998.08	4139418.61	0.01974	0.00595	0.19838	0.03966	0.02117	0.01439	0.00793	0.00053	0.00013
219	584050.02	4139403.84	0.02044	0.00659	0.22852	0.07258	0.0323	0.01952	0.01151	0.00111	0.00027
220	584058.67	4139401.38	0.02054	0.00675	0.23642	0.08467	0.03585	0.02122	0.01277	0.00132	0.00031
221	583991.88	4139429.73	0.01822	0.00594	0.20395	0.03994	0.02156	0.01473	0.00809	0.00051	0.00012
222	584000.54	4139427.27	0.01834	0.00573	0.19469	0.04182	0.02183	0.01444	0.00804	0.00056	0.00014
223	584052.48	4139412.49	0.01920	0.00697	0.25242	0.08185	0.03609	0.02167	0.01285	0.00119	0.00028
224	584061.136	4139410.031	0.01931	0.00716	0.26138	0.09568	0.04017	0.02362	0.01429	0.00142	0.00033
225	583994.347	4139438.388	0.01699	0.00562	0.19436	0.04162	0.02184	0.01445	0.00803	0.00054	0.00013
226	584003.003	4139435.926	0.01713	0.00562	0.19458	0.04461	0.02283	0.01475	0.00828	0.00059	0.00014
227	584054.943	4139421.15	0.01803	0.00746	0.28050	0.09165	0.04027	0.02411	0.01432	0.00127	0.00029
228	584063.599	4139418.688	0.01813	0.00766	0.29021	0.10655	0.04474	0.02621	0.01588	0.00152	0.00035
229	583996.809	4139447.045	0.01591	0.00540	0.18804	0.04386	0.02244	0.01442	0.0081	0.00058	0.00014
230	584005.466	4139444.582	0.01605	0.00564	0.19968	0.04818	0.0243	0.01545	0.00873	0.00063	0.00015
231	583999.272	4139455.702	0.01495	0.00534	0.18697	0.04689	0.02357	0.01483	0.00839	0.00061	0.00014
232	584007.929	4139453.239	0.01508	0.00588	0.21138	0.05274	0.02647	0.01674	0.00947	0.00067	0.00016
233	584016.585	4139450.776	0.01523	0.00651	0.24007	0.05967	0.02985	0.01896	0.01073	0.00074	0.00017
234	584025.242	4139448.314	0.01538	0.00711	0.26798	0.06741	0.0334	0.0212	0.01204	0.00083	0.00019
235	584033.898	4139445.851	0.01553	0.00765	0.29318	0.07611	0.03707	0.02339	0.01336	0.00093	0.00021
236	584042.555	4139443.388	0.01567	0.00811	0.31490	0.08598	0.0409	0.02552	0.0147	0.00106	0.00024
237	584001.735	4139464.358	0.01408	0.00557	0.19313	0.05126	0.02568	0.0161	0.00911	0.00065	0.00015
238	584010.391	4139461.895	0.01421	0.00644	0.22987	0.05876	0.02972	0.01897	0.01068	0.00072	0.00017
239	584019.048	4139459.433	0.01434	0.00724	0.26593	0.06673	0.03375	0.02173	0.01221	0.00079	0.00018
240	584027.704	4139456.97	0.01448	0.00793	0.29822	0.07522	0.03771	0.02427	0.01368	0.00088	0.0002
241	584036.361	4139454.508	0.01461	0.00852	0.32609	0.08448	0.04167	0.02664	0.0151	0.00099	0.00022
242	584045.017	4139452.045	0.01473	0.00902	0.34948	0.09475	0.04571	0.02888	0.01651	0.00113	0.00025
		Maximum	**0.031**	**0.010**	**0.441**	**0.107**	**0.049**	**0.032**	**0.018**	**0.003**	**0.001**

Google Middlefield - District Utilities Construction Impacts
DPM Cancer Risk Calculations From District Utilities Construction - Unmitigated
at On-Site Residential Receptors

Exposure Durations (years) for Maximum Cancer Risk

Exposure Type	2023	2024	2025	2026	2027	2028	2029	2030	2031
3rd Trimester (10)	0	0	0.25	0	0	0	0	0	0
Infant (10)	0	0	0	1	1	0	0	0	0
Child (3)	0	0	0	0	0	1	1	1	1
Adult (1)	0	0	0	0	0	0	0	0	0

	Receptor Coordinates		2023	2024	2025	2026	2027	2028	2029	2030	2031	2023	2024	2025	2026	2027	2028	2029	2030	2031	2026-2031	With MERV-13 Filtration 2026-2031
Receptor	UTM-X	UTM-Y	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Construct	Construct	Construct	Construct	Construct	Construct	Construct	Construct	Construct	Total Cancer Risk	Total Cancer Risk
No.	(m)	(m)	DPM	DPM	DPM	DPM	DPM	DPM	DPM	DPM	DPM	Risk	Risk	Risk	Risk	Risk	Risk	Risk	Risk	Risk	(per million)	(per million)
1	583791.67	4139222.58	0.00000	0.00000	0.00000	0.01363	0.00760	0.00513	0.00181	0.00008	0.00002	0.000	0.000	0.000	2.239	1.248	0.133	0.047	0.002	0.001	3.67	1.10
2	583800.29	4139219.98	0.00000	0.00000	0.00000	0.01492	0.00830	0.00567	0.00201	0.00008	0.00002	0.000	0.000	0.000	2.451	1.363	0.147	0.052	0.002	0.001	4.01	1.20
3	583808.90	4139217.39	0.00000	0.00000	0.00000	0.01634	0.00906	0.00626	0.00223	0.00009	0.00002	0.000	0.000	0.000	2.684	1.488	0.162	0.058	0.002	0.001	4.39	1.32
4	583817.52	4139214.79	0.00000	0.00000	0.00000	0.01790	0.00990	0.00691	0.00247	0.00009	0.00003	0.000	0.000	0.000	2.940	1.626	0.179	0.064	0.002	0.001	4.81	1.44
5	583826.14	4139212.19	0.00000	0.00000	0.00000	0.01960	0.01082	0.00761	0.00273	0.00010	0.00003	0.000	0.000	0.000	3.219	1.777	0.197	0.071	0.003	0.001	5.27	1.58
6	583834.75	4139209.60	0.00000	0.00000	0.00000	0.02144	0.01180	0.00837	0.00301	0.00010	0.00003	0.000	0.000	0.000	3.521	1.938	0.216	0.078	0.003	0.001	5.76	1.73
7	583785.65	4139233.80	0.00000	0.00000	0.00000	0.01306	0.00732	0.00490	0.00173	0.00008	0.00002	0.000	0.000	0.000	2.145	1.202	0.127	0.045	0.002	0.001	3.52	1.06
8	583794.26	4139231.20	0.00000	0.00000	0.00000	0.01433	0.00800	0.00543	0.00193	0.00008	0.00002	0.000	0.000	0.000	2.354	1.314	0.140	0.050	0.002	0.001	3.86	1.16
9	583802.88	4139228.60	0.00000	0.00000	0.00000	0.01575	0.00877	0.00602	0.00215	0.00009	0.00002	0.000	0.000	0.000	2.587	1.440	0.156	0.056	0.002	0.001	4.24	1.27
10	583811.50	4139226.01	0.00000	0.00000	0.00000	0.01732	0.00962	0.00668	0.00239	0.00009	0.00002	0.000	0.000	0.000	2.845	1.580	0.173	0.062	0.002	0.001	4.66	1.40
11	583820.12	4139223.41	0.00000	0.00000	0.00000	0.01905	0.01055	0.00740	0.00266	0.00009	0.00003	0.000	0.000	0.000	3.129	1.733	0.191	0.069	0.002	0.001	5.12	1.54
12	583828.73	4139220.81	0.00000	0.00000	0.00000	0.02093	0.01156	0.00818	0.00295	0.00010	0.00003	0.000	0.000	0.000	3.438	1.899	0.212	0.076	0.003	0.001	5.63	1.69
13	583837.35	4139218.22	0.00000	0.00000	0.00000	0.02296	0.01266	0.00903	0.00326	0.00010	0.00003	0.000	0.000	0.000	3.771	2.079	0.233	0.084	0.003	0.001	6.17	1.85
14	583845.97	4139215.62	0.00000	0.00000	0.00000	0.02513	0.01382	0.00993	0.00360	0.00011	0.00003	0.000	0.000	0.000	4.128	2.270	0.257	0.093	0.003	0.001	6.75	2.03
15	583788.24	4139242.41	0.00000	0.00000	0.00000	0.01371	0.00769	0.00518	0.00184	0.00008	0.00002	0.000	0.000	0.000	2.252	1.263	0.134	0.048	0.002	0.001	3.70	1.11
16	583796.86	4139239.82	0.00000	0.00000	0.00000	0.01511	0.00844	0.00576	0.00205	0.00008	0.00002	0.000	0.000	0.000	2.482	1.386	0.149	0.053	0.002	0.001	4.07	1.22
17	583805.48	4139237.22	0.00000	0.00000	0.00000	0.01668	0.00929	0.00642	0.00230	0.00009	0.00002	0.000	0.000	0.000	2.740	1.526	0.166	0.059	0.002	0.001	4.49	1.35
18	583814.10	4139234.62	0.00000	0.00000	0.00000	0.01842	0.01024	0.00715	0.00257	0.00009	0.00003	0.000	0.000	0.000	3.025	1.682	0.185	0.066	0.002	0.001	4.96	1.49
19	583822.71	4139232.03	0.00000	0.00000	0.00000	0.02034	0.01128	0.00796	0.00287	0.00010	0.00003	0.000	0.000	0.000	3.341	1.853	0.206	0.074	0.003	0.001	5.48	1.64
20	583831.33	4139229.43	0.00000	0.00000	0.00000	0.02244	0.01241	0.00884	0.00320	0.00010	0.00003	0.000	0.000	0.000	3.686	2.038	0.229	0.083	0.003	0.001	6.04	1.81
21	583839.95	4139226.83	0.00000	0.00000	0.00000	0.02470	0.01363	0.00978	0.00355	0.00011	0.00003	0.000	0.000	0.000	4.057	2.239	0.253	0.092	0.003	0.001	6.64	1.99
22	583848.56	4139224.24	0.00000	0.00000	0.00000	0.02709	0.01492	0.01078	0.00392	0.00011	0.00003	0.000	0.000	0.000	4.449	2.451	0.279	0.101	0.003	0.001	7.28	2.19
23	583790.84	4139251.03	0.00000	0.00000	0.00000	0.01443	0.00809	0.00548	0.00195	0.00008	0.00002	0.000	0.000	0.000	2.370	1.329	0.142	0.050	0.002	0.001	3.89	1.17
24	583799.46	4139248.43	0.00000	0.00000	0.00000	0.01598	0.00894	0.00613	0.00219	0.00009	0.00002	0.000	0.000	0.000	2.625	1.468	0.159	0.057	0.002	0.001	4.31	1.29
25	583808.08	4139245.84	0.00000	0.00000	0.00000	0.01772	0.00989	0.00687	0.00247	0.00009	0.00002	0.000	0.000	0.000	2.910	1.624	0.178	0.064	0.002	0.001	4.78	1.43
26	583816.69	4139243.24	0.00000	0.00000	0.00000	0.01966	0.01094	0.00769	0.00277	0.00009	0.00003	0.000	0.000	0.000	3.229	1.797	0.199	0.072	0.002	0.001	5.30	1.59
27	583825.31	4139240.64	0.00000	0.00000	0.00000	0.02182	0.01211	0.00859	0.00311	0.00010	0.00003	0.000	0.000	0.000	3.584	1.989	0.222	0.080	0.003	0.001	5.88	1.76
28	583833.93	4139238.05	0.00000	0.00000	0.00000	0.02416	0.01338	0.00958	0.00348	0.00010	0.00003	0.000	0.000	0.000	3.968	2.198	0.248	0.090	0.003	0.001	6.51	1.95
29	583842.54	4139235.45	0.00000	0.00000	0.00000	0.02668	0.01474	0.01064	0.00388	0.00011	0.00003	0.000	0.000	0.000	4.382	2.421	0.275	0.100	0.003	0.001	7.18	2.15
30	583851.16	4139232.85	0.00000	0.00000	0.00000	0.02934	0.01617	0.01175	0.00429	0.00011	0.00003	0.000	0.000	0.000	4.819	2.656	0.304	0.111	0.003	0.001	7.89	2.37
31	583793.44	4139259.65	0.00000	0.00000	0.00000	0.01522	0.00855	0.00582	0.00208	0.00008	0.00002	0.000	0.000	0.000	2.500	1.404	0.150	0.054	0.002	0.001	4.11	1.23
32	583802.06	4139257.05	0.00000	0.00000	0.00000	0.01695	0.00949	0.00655	0.00235	0.00009	0.00002	0.000	0.000	0.000	2.784	1.559	0.169	0.061	0.002	0.001	4.58	1.37
33	583810.67	4139254.45	0.00000	0.00000	0.00000	0.01889	0.01055	0.00737	0.00266	0.00009	0.00002	0.000	0.000	0.000	3.103	1.733	0.191	0.069	0.002	0.001	5.10	1.53
34	583819.29	4139251.86	0.00000	0.00000	0.00000	0.02108	0.01174	0.00830	0.00301	0.00009	0.00003	0.000	0.000	0.000	3.462	1.928	0.215	0.078	0.002	0.001	5.69	1.71
35	583827.91	4139249.26	0.00000	0.00000	0.00000	0.02350	0.01306	0.00933	0.00339	0.00010	0.00003	0.000	0.000	0.000	3.860	2.145	0.241	0.088	0.003	0.001	6.34	1.90
36	583836.52	4139246.66	0.00000	0.00000	0.00000	0.02614	0.01449	0.01044	0.00381	0.00010	0.00003	0.000	0.000	0.000	4.293	2.380	0.270	0.099	0.003	0.001	7.05	2.11
37	583845.14	4139244.07	0.00000	0.00000	0.00000	0.02897	0.01602	0.01163	0.00426	0.00011	0.00003	0.000	0.000	0.000	4.758	2.631	0.301	0.110	0.003	0.001	7.80	2.34
38	583853.76	4139241.47	0.00000	0.00000	0.00000	0.03193	0.01762	0.01288	0.00472	0.00012	0.00003	0.000	0.000	0.000	5.244	2.894	0.333	0.122	0.003	0.001	8.60	2.58
39	583796.03	4139268.27	0.00000	0.00000	0.00000	0.01610	0.00905	0.00619	0.00222	0.00009	0.00002	0.000	0.000	0.000	2.644	1.486	0.160	0.057	0.002	0.001	4.35	1.31
40	583804.65	4139265.67	0.00000	0.00000	0.00000	0.01803	0.01011	0.00702	0.00253	0.00009	0.00002	0.000	0.000	0.000	2.961	1.661	0.182	0.065	0.002	0.001	4.87	1.46
41	583813.27	4139263.07	0.00000	0.00000	0.00000	0.02023	0.01131	0.00795	0.00288	0.00009	0.00003	0.000	0.000	0.000	3.323	1.858	0.206	0.074	0.002	0.001	5.46	1.64
42	583821.89	4139260.48	0.00000	0.00000	0.00000	0.02270	0.01266	0.00901	0.00328	0.00010	0.00003	0.000	0.000	0.000	3.728	2.079	0.233	0.085	0.003	0.001	6.13	1.84
43	583830.50	4139257.88	0.00000	0.00000	0.00000	0.02544	0.01416	0.01017	0.00372	0.00010	0.00003	0.000	0.000	0.000	4.178	2.326	0.263	0.096	0.003	0.001	6.87	2.06
44	583839.12	4139255.28	0.00000	0.00000	0.00000	0.02842	0.01578	0.01144	0.00419	0.00011	0.00003	0.000	0.000	0.000	4.668	2.592	0.296	0.108	0.003	0.001	7.67	2.30
45	583847.74	4139252.69	0.00000	0.00000	0.00000	0.03161	0.01751	0.01279	0.00470	0.00011	0.00003	0.000	0.000	0.000	5.192	2.876	0.331	0.122	0.003	0.001	8.52	2.56
46	583856.36	4139250.09	0.00000	0.00000	0.00000	0.03492	0.01930	0.01418	0.00522	0.00012	0.00003	0.000	0.000	0.000	5.735	3.170	0.367	0.135	0.003	0.001	9.41	2.82
47	583798.63	4139276.88	0.00000	0.00000	0.00000	0.01708	0.00961	0.00662	0.00238	0.00009	0.00002	0.000	0.000	0.000	2.805	1.578	0.171	0.062	0.002	0.001	4.62	1.39
48	583807.25	4139274.29	0.00000	0.00000	0.00000	0.01926	0.01081	0.00755	0.00273	0.00009	0.00002	0.000	0.000	0.000	3.163	1.776	0.195	0.071	0.002	0.001	5.21	1.56
49	583815.87	4139271.69	0.00000	0.00000	0.00000	0.02176	0.01218	0.00862	0.00313	0.00009	0.00003	0.000	0.000	0.000	3.574	2.001	0.223	0.081	0.002	0.001	5.88	1.76
50	583824.48	4139269.09	0.00000	0.00000	0.00000	0.02457	0.01372	0.00982	0.00359	0.00010	0.00003	0.000	0.000	0.000	4.036	2.253	0.254	0.093	0.003	0.001	6.64	1.99
51	583833.10	4139266.50	0.00000	0.00000	0.00000	0.02769	0.01543	0.01116	0.00409	0.00010	0.00003	0.000	0.000	0.000	4.548	2.534	0.289	0.106	0.003	0.001	7.48	2.24
52	583841.72	4139263.90	0.00000	0.00000	0.00000	0.03108	0.01728	0.01261	0.00464	0.00011	0.00003	0.000	0.000	0.000	5.105	2.838	0.326	0.120	0.003	0.001	8.39	2.52
53	583850.33	4139261.30	0.00000	0.00000	0.00000	0.03467	0.01923	0.01413	0.00521	0.00011	0.00003	0.000	0.000	0.000	5.694	3.158	0.365	0.135	0.003	0.001	9.36	2.81
54	583858.95	4139258.71	0.00000	0.00000	0.00000	0.03837	0.02124	0.01570	0.00580	0.00012	0.00003	0.000	0.000	0.000	6.302	3.489	0.406	0.150	0.003	0.001	10.35	3.11
55	583780.45	4139216.56	0.00000	0.00000	0.00000	0.01193	0.00667	0.00443	0.00155	0.00008	0.00002	0.000	0.000	0.000	1.959	1.096	0.115	0.040	0.002	0.001	3.21	0.96
56	583789.07	4139213.96	0.00000	0.00000	0.00000	0.01299	0.00724	0.00487	0.00171	0.00008	0.00002	0.000	0.000	0.000	2.134	1.189	0.126	0.044	0.002	0.001	3.50	1.05
57	583797.69	4139211.37	0.00000	0.00000	0.00000	0.01416	0.00787	0.00535	0.00189	0.00008	0.00002	0.000	0.000	0.000	2.326	1.293	0.138	0.049	0.002	0.001	3.81	1.14
58	583806.31	4139208.77	0.00000	0.00000	0.00000	0.01546	0.00857	0.00588	0.00209	0.00009	0.00002	0.000	0.000	0.000	2.539	1.408	0.152	0.054	0.002	0.001	4.16	1.25
59	583814.92	4139206.17	0.00000	0.00000	0.00000	0.01688	0.00933	0.00647	0.00230	0.00009	0.00003	0.000	0.000	0.000	2.772	1.532	0.167	0.059	0.002	0.001	4.53	1.36
60	583823.54	4139203.58	0.00000	0.00000	0.00000	0.01842	0.01016	0.00711	0.00254	0.00010	0.00003	0.000	0.000	0.000	3.025	1.669	0.184	0.066	0.003	0.001	4.95	1.48

																						With MERV-13 Filtration
	Receptor Coordinates		2023	2024	2025	2026	2027	2028	2029	2030	2031	2023	2024	2025	2026	2027	2028	2029	2030	2031	2026-2031	2026-2031
Receptor	UTM-X	UTM-Y	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Construct	Construct	Construct	Construct	Construct	Construct	Construct	Construct	Construct	Total Cancer Risk	Total Cancer Risk
No.	(m)	(m)	DPM	DPM	DPM	DPM	DPM	DPM	DPM	DPM	DPM	Risk	Risk	Risk	Risk	Risk	Risk	Risk	Risk	Risk	(per million)	(per million)
61	583783.05	4139225.18	0.00000	0.00000	0.00000	0.01247	0.00698	0.00466	0.00164	0.00008	0.00002	0.000	0.000	0.000	2.048	1.146	0.120	0.042	0.002	0.001	3.36	1.01
62	583804.84	4139304.14	0.00000	0.00000	0.00000	0.02074	0.01173	0.00822	0.00299	0.00009	0.00003	0.000	0.000	0.000	3.406	1.927	0.213	0.077	0.002	0.001	5.63	1.69
63	583882.65	4139281.65	0.00000	0.00000	0.00000	0.06384	0.03537	0.02675	0.01000	0.00014	0.00004	0.000	0.000	0.000	10.486	5.809	0.692	0.259	0.004	0.001	17.25	5.17
64	583830.98	4139362.17	0.00000	0.00000	0.00000	0.05672	0.03246	0.02446	0.00919	0.00012	0.00003	0.000	0.000	0.000	9.316	5.331	0.632	0.238	0.003	0.001	15.52	4.66
65	583839.62	4139359.67	0.00000	0.00000	0.00000	0.07385	0.04225	0.03222	0.01215	0.00012	0.00003	0.000	0.000	0.000	12.130	6.939	0.833	0.314	0.003	0.001	20.22	6.07
66	583848.27	4139357.17	0.00000	0.00000	0.00000	0.08972	0.05125	0.03935	0.01488	0.00013	0.00003	0.000	0.000	0.000	14.736	8.418	1.017	0.385	0.003	0.001	24.56	7.37
67	583856.91	4139354.67	0.00000	0.00000	0.00000	0.10370	0.05909	0.04556	0.01725	0.00013	0.00004	0.000	0.000	0.000	17.032	9.705	1.178	0.446	0.003	0.001	28.37	8.51
68	583865.56	4139352.17	0.00000	0.00000	0.00000	0.11596	0.06585	0.05090	0.01929	0.00014	0.00004	0.000	0.000	0.000	19.046	10.816	1.316	0.499	0.004	0.001	31.68	9.50
69	583874.21	4139349.67	0.00000	0.00000	0.00000	0.12667	0.07162	0.05545	0.02102	0.00014	0.00004	0.000	0.000	0.000	20.805	11.763	1.434	0.544	0.004	0.001	34.55	10.37
70	583882.85	4139347.17	0.00000	0.00000	0.00000	0.13594	0.07650	0.05927	0.02248	0.00015	0.00004	0.000	0.000	0.000	22.328	12.565	1.533	0.581	0.004	0.001	37.01	11.10
71	583891.50	4139344.67	0.00000	0.00000	0.00000	0.14384	0.08054	0.06243	0.02368	0.00016	0.00004	0.000	0.000	0.000	23.625	13.228	1.614	0.612	0.004	0.001	39.09	11.73
72	583900.15	4139342.17	0.00000	0.00000	0.00000	0.15028	0.08376	0.06493	0.02462	0.00017	0.00004	0.000	0.000	0.000	24.683	13.757	1.679	0.637	0.004	0.001	40.76	12.23
73	583824.83	4139373.31	0.00000	0.00000	0.00000	0.05161	0.02963	0.02220	0.00832	0.00012	0.00003	0.000	0.000	0.000	8.477	4.867	0.574	0.215	0.003	0.001	14.14	4.24
74	583833.48	4139370.81	0.00000	0.00000	0.00000	0.07669	0.04407	0.03367	0.01271	0.00012	0.00003	0.000	0.000	0.000	12.596	7.238	0.871	0.329	0.003	0.001	21.04	6.31
75	583842.12	4139368.31	0.00000	0.00000	0.00000	0.09881	0.05674	0.04373	0.01656	0.00012	0.00003	0.000	0.000	0.000	16.229	9.319	1.131	0.428	0.003	0.001	27.11	8.13
76	583850.77	4139365.81	0.00000	0.00000	0.00000	0.11682	0.06696	0.05183	0.01966	0.00013	0.00003	0.000	0.000	0.000	19.187	10.998	1.340	0.508	0.003	0.001	32.04	9.61
77	583859.41	4139363.31	0.00000	0.00000	0.00000	0.13181	0.07534	0.05846	0.02219	0.00013	0.00004	0.000	0.000	0.000	21.649	12.374	1.512	0.574	0.003	0.001	36.11	10.83
78	583868.06	4139360.81	0.00000	0.00000	0.00000	0.14461	0.08234	0.06400	0.02430	0.00014	0.00004	0.000	0.000	0.000	23.752	13.524	1.655	0.628	0.004	0.001	39.56	11.87
79	583876.71	4139358.32	0.00000	0.00000	0.00000	0.15565	0.08824	0.06864	0.02607	0.00015	0.00004	0.000	0.000	0.000	25.565	14.493	1.775	0.674	0.004	0.001	42.51	12.75
80	583885.35	4139355.82	0.00000	0.00000	0.00000	0.16509	0.09312	0.07246	0.02753	0.00015	0.00004	0.000	0.000	0.000	27.115	15.295	1.874	0.712	0.004	0.001	45.00	13.50
81	583894.00	4139353.32	0.00000	0.00000	0.00000	0.17305	0.09711	0.07557	0.02871	0.00016	0.00004	0.000	0.000	0.000	28.423	15.950	1.954	0.742	0.004	0.001	47.07	14.12
82	583902.64	4139350.82	0.00000	0.00000	0.00000	0.17940	0.10022	0.07797	0.02962	0.00017	0.00005	0.000	0.000	0.000	29.466	16.461	2.016	0.766	0.004	0.001	48.71	14.61
83	583807.34	4139312.79	0.00000	0.00000	0.00000	0.02230	0.01263	0.00891	0.00325	0.00010	0.00003	0.000	0.000	0.000	3.663	2.074	0.230	0.084	0.003	0.001	6.05	1.82
84	583815.98	4139310.29	0.00000	0.00000	0.00000	0.02616	0.01479	0.01060	0.00389	0.00010	0.00003	0.000	0.000	0.000	4.297	2.429	0.274	0.101	0.003	0.001	7.10	2.13
85	583824.63	4139307.79	0.00000	0.00000	0.00000	0.03074	0.01735	0.01260	0.00465	0.00010	0.00003	0.000	0.000	0.000	5.049	2.850	0.326	0.120	0.003	0.001	8.35	2.50
86	583833.28	4139305.29	0.00000	0.00000	0.00000	0.03600	0.02028	0.01491	0.00553	0.00011	0.00003	0.000	0.000	0.000	5.913	3.331	0.386	0.143	0.003	0.001	9.78	2.93
87	583841.92	4139302.79	0.00000	0.00000	0.00000	0.04181	0.02351	0.01745	0.00650	0.00011	0.00003	0.000	0.000	0.000	6.867	3.861	0.451	0.168	0.003	0.001	11.35	3.41
88	583813.48	4139301.64	0.00000	0.00000	0.00000	0.02405	0.01358	0.00966	0.00353	0.00010	0.00003	0.000	0.000	0.000	3.950	2.230	0.250	0.091	0.003	0.001	6.53	1.96
89	583850.57	4139300.29	0.00000	0.00000	0.00000	0.04796	0.02691	0.02013	0.00751	0.00012	0.00003	0.000	0.000	0.000	7.877	4.420	0.521	0.194	0.003	0.001	13.02	3.90
90	583859.21	4139297.79	0.00000	0.00000	0.00000	0.05419	0.03034	0.02282	0.00853	0.00012	0.00003	0.000	0.000	0.000	8.901	4.983	0.590	0.221	0.003	0.001	14.70	4.41
91	583867.86	4139295.29	0.00000	0.00000	0.00000	0.06029	0.03366	0.02543	0.00952	0.00013	0.00004	0.000	0.000	0.000	9.902	5.529	0.658	0.246	0.003	0.001	16.34	4.90
92	583876.51	4139292.80	0.00000	0.00000	0.00000	0.06607	0.03677	0.02787	0.01044	0.00014	0.00004	0.000	0.000	0.000	10.852	6.039	0.721	0.270	0.004	0.001	17.89	5.37
93	583885.15	4139290.30	0.00000	0.00000	0.00000	0.07134	0.03957	0.03005	0.01127	0.00014	0.00004	0.000	0.000	0.000	11.717	6.499	0.777	0.291	0.004	0.001	19.29	5.79
94	583809.84	4139321.43	0.00000	0.00000	0.00000	0.02409	0.01366	0.00970	0.00355	0.00010	0.00003	0.000	0.000	0.000	3.957	2.244	0.251	0.092	0.003	0.001	6.55	1.96
95	583822.13	4139299.14	0.00000	0.00000	0.00000	0.02795	0.01575	0.01136	0.00418	0.00010	0.00003	0.000	0.000	0.000	4.591	2.587	0.294	0.108	0.003	0.001	7.58	2.27
96	583818.48	4139318.93	0.00000	0.00000	0.00000	0.02864	0.01621	0.01170	0.00431	0.00010	0.00003	0.000	0.000	0.000	4.704	2.662	0.303	0.111	0.003	0.001	7.78	2.34
97	583827.13	4139316.44	0.00000	0.00000	0.00000	0.03409	0.01927	0.01410	0.00523	0.00011	0.00003	0.000	0.000	0.000	5.599	3.165	0.365	0.135	0.003	0.001	9.27	2.78
98	583835.77	4139313.94	0.00000	0.00000	0.00000	0.04034	0.02277	0.01686	0.00627	0.00011	0.00003	0.000	0.000	0.000	6.626	3.740	0.436	0.162	0.003	0.001	10.97	3.29
99	583844.42	4139311.44	0.00000	0.00000	0.00000	0.04717	0.02658	0.01986	0.00742	0.00011	0.00003	0.000	0.000	0.000	7.748	4.366	0.514	0.192	0.003	0.001	12.82	3.85
100	583853.07	4139308.94	0.00000	0.00000	0.00000	0.05428	0.03051	0.02296	0.00860	0.00012	0.00003	0.000	0.000	0.000	8.915	5.011	0.594	0.222	0.003	0.001	14.75	4.42
101	583861.71	4139306.44	0.00000	0.00000	0.00000	0.06133	0.03439	0.02601	0.00975	0.00013	0.00003	0.000	0.000	0.000	10.073	5.648	0.673	0.252	0.003	0.001	16.65	5.00
102	583870.36	4139303.94	0.00000	0.00000	0.00000	0.06809	0.03807	0.02890	0.01085	0.00013	0.00004	0.000	0.000	0.000	11.184	6.253	0.747	0.281	0.003	0.001	18.47	5.54
103	583879.01	4139301.44	0.00000	0.00000	0.00000	0.07435	0.04143	0.03154	0.01185	0.00014	0.00004	0.000	0.000	0.000	12.212	6.805	0.816	0.306	0.004	0.001	20.14	6.04
104	583887.65	4139298.94	0.00000	0.00000	0.00000	0.07995	0.04439	0.03385	0.01272	0.00015	0.00004	0.000	0.000	0.000	13.132	7.291	0.875	0.329	0.004	0.001	21.63	6.49
105	583830.78	4139296.64	0.00000	0.00000	0.00000	0.03242	0.01823	0.01331	0.00492	0.00011	0.00003	0.000	0.000	0.000	5.325	2.994	0.344	0.127	0.003	0.001	8.79	2.64
106	583812.33	4139330.08	0.00000	0.00000	0.00000	0.02616	0.01486	0.01062	0.00390	0.00010	0.00003	0.000	0.000	0.000	4.297	2.441	0.275	0.101	0.003	0.001	7.12	2.13
107	583820.98	4139327.58	0.00000	0.00000	0.00000	0.03162	0.01793	0.01303	0.00482	0.00010	0.00003	0.000	0.000	0.000	5.193	2.945	0.337	0.125	0.003	0.001	8.60	2.58
108	583829.63	4139325.08	0.00000	0.00000	0.00000	0.03819	0.02162	0.01594	0.00593	0.00011	0.00003	0.000	0.000	0.000	6.273	3.551	0.412	0.153	0.003	0.001	10.39	3.12
109	583838.27	4139322.58	0.00000	0.00000	0.00000	0.04568	0.02583	0.01926	0.00719	0.00011	0.00003	0.000	0.000	0.000	7.503	4.242	0.498	0.186	0.003	0.001	12.43	3.73
110	583846.92	4139320.08	0.00000	0.00000	0.00000	0.05373	0.03033	0.02281	0.00854	0.00012	0.00003	0.000	0.000	0.000	8.825	4.982	0.590	0.221	0.003	0.001	14.62	4.39
111	583855.57	4139317.58	0.00000	0.00000	0.00000	0.06189	0.03486	0.02639	0.00991	0.00012	0.00003	0.000	0.000	0.000	10.165	5.726	0.682	0.256	0.003	0.001	16.83	5.05
112	583864.21	4139315.09	0.00000	0.00000	0.00000	0.06981	0.03921	0.02981	0.01121	0.00013	0.00003	0.000	0.000	0.000	11.466	6.440	0.771	0.290	0.003	0.001	18.97	5.69
113	583839.42	4139294.15	0.00000	0.00000	0.00000	0.03738	0.02098	0.01547	0.00574	0.00011	0.00003	0.000	0.000	0.000	6.140	3.446	0.400	0.148	0.003	0.001	10.14	3.04
114	583872.86	4139312.59	0.00000	0.00000	0.00000	0.07722	0.04323	0.03297	0.01241	0.00014	0.00004	0.000	0.000	0.000	12.683	7.100	0.853	0.321	0.004	0.001	20.96	6.29
115	583881.50	4139310.09	0.00000	0.00000	0.00000	0.08394	0.04682	0.03579	0.01347	0.00014	0.00004	0.000	0.000	0.000	13.787	7.690	0.925	0.348	0.004	0.001	22.76	6.83
116	583890.15	4139307.59	0.00000	0.00000	0.00000	0.08983	0.04992	0.03820	0.01439	0.00015	0.00004	0.000	0.000	0.000	14.754	8.199	0.988	0.372	0.004	0.001	24.32	7.30
117	583814.83	4139338.73	0.00000	0.00000	0.00000	0.02860	0.01627	0.01171	0.00431	0.00010	0.00003	0.000	0.000	0.000	4.697	2.672	0.303	0.111	0.003	0.001	7.79	2.34
118	583823.48	4139336.23	0.00000	0.00000	0.00000	0.03526	0.02003	0.01467	0.00544	0.00011	0.00003	0.000	0.000	0.000	5.791	3.290	0.379	0.141	0.003	0.001	9.60	2.88
119	583832.13	4139333.73	0.00000	0.00000	0.00000	0.04332	0.02458	0.01826	0.00682	0.00011	0.00003	0.000	0.000	0.000	7.115	4.037	0.472	0.176	0.003	0.001	11.80	3.54
120	583848.07	4139291.65	0.00000	0.00000	0.00000	0.04270	0.02392	0.01778	0.00661	0.00011	0.00003	0.000	0.000	0.000	7.013	3.929	0.460	0.171	0.003	0.001	11.58	3.47
121	583840.77	4139331.23	0.00000	0.00000	0.00000	0.05238	0.02968	0.02229	0.00835	0.00012	0.00003	0.000	0.000	0.000	8.603	4.875	0.576	0.216	0.003	0.001	14.27	4.28
122	583849.42	4139328.73	0.00000	0.00000	0.00000	0.06184	0.03498	0.02648	0.00995	0.00012	0.00003	0.000	0.000	0.000	10.157	5.745	0.685	0.257	0.003	0.001	16.85	5.05
123	583858.06	4139326.23	0.00000	0.00000	0.00000	0.07113	0.04014	0.03055	0.01150	0.00013	0.00003	0.000	0.000	0.000	11.683	6.593	0.790	0.297	0.003	0.001	19.37	5.81
124	583866.71	4139323.73	0.00000	0.00000	0.00000	0.07990	0.04495	0.03434	0.01294	0.00013	0.00004	0.000	0.000	0.000	13.123	7.383	0.888	0.335	0.003	0.001	21.73	6.52
125	583875.36	4139321.23	0.00000	0.00000	0.00000	0.08793	0.04929	0.03775	0.01424	0.00014	0.00004	0.000	0.000	0.000	14.442	8.096	0.976	0.368	0.004	0.001	23.89	7.17
126	583884.00	4139318.73	0.00000	0.00000	0.00000	0.09505	0.05307	0.04071	0.01536	0.00015	0.00004	0.000	0.000	0.000	15.612	8.717	1.053	0.397	0.004	0.001	25.78	7.73
127	583892.65	4139316.23	0.00000	0.00000	0.00000	0.10117	0.05626	0.04320	0.01630	0.00015	0.00004	0.000	0.000	0.000	16.617	9.241	1.117	0.421	0.004	0.001	27.40	8.22
128	583856.72	4139289.15	0.00000	0.00000	0.00000	0.04819	0.02693	0.02015	0.00751	0.00012	0.00003	0.000	0.000	0.000	7.915	4.423	0.521	0.194	0.003	0.001	13.06	3.92
129	583817.33	4139347.37	0.00000	0.00000	0.00000	0.03157	0.01798	0.01303	0.00482	0.00011	0.00003	0.000	0.000	0.000	5.185	2.953	0.337	0.125	0.003	0.001	8.60	2.58
130	583825.98	4139344.87	0.00000	0.00000	0.00000	0.03992	0.02272	0.01678	0.00625	0.00011	0.00003	0.000	0.000	0.000	6.557	3.732	0.434	0.162	0.003	0.001	10.89	3.27
131	583834.62	4139342.37	0.00000	0.00000	0.00000	0.05002	0.02845	0.02130	0.00798	0.00011	0.00003	0.000	0.000	0.000	8.216	4.673	0.551	0.206	0.003	0.001	13.65	4.09
132	583843.27	4139339.88	0.00000	0.00000	0.00000	0.06104	0.03467	0.02623	0.00986	0.00012	0.00003	0.000	0.000	0.000	10.026	5.694	0.678	0.255	0.003	0.001	16.66	5.00

Receptor No.	Receptor Coordinates UTM-X (m)	UTM-Y (m)	2023 Conc DPM	2024 Conc DPM	2025 Conc DPM	2026 Conc DPM	2027 Conc DPM	2028 Conc DPM	2029 Conc DPM	2030 Conc DPM	2031 Conc DPM	2023 Construct Risk	2024 Construct Risk	2025 Construct Risk	2026 Construct Risk	2027 Construct Risk	2028 Construct Risk	2029 Construct Risk	2030 Construct Risk	2031 Construct Risk	2026-2031 Total Cancer Risk (per million)	With MERV-13 Filtration 2026-2031 Total Cancer Risk (per million)
133	583851.92	4139337.38	0.00000	0.00000	0.00000	0.07206	0.04085	0.03111	0.01172	0.00012	0.00003	0.000	0.000	0.000	11.836	6.709	0.804	0.303	0.003	0.001	19.66	5.90
134	583860.56	4139334.88	0.00000	0.00000	0.00000	0.08248	0.04663	0.03568	0.01346	0.00013	0.00003	0.000	0.000	0.000	13.547	7.659	0.923	0.348	0.003	0.001	22.48	6.74
135	583869.21	4139332.38	0.00000	0.00000	0.00000	0.09204	0.05186	0.03980	0.01503	0.00014	0.00004	0.000	0.000	0.000	15.117	8.518	1.029	0.389	0.004	0.001	25.06	7.52
136	583877.86	4139329.88	0.00000	0.00000	0.00000	0.10059	0.05646	0.04341	0.01640	0.00014	0.00004	0.000	0.000	0.000	16.522	9.273	1.122	0.424	0.004	0.001	27.35	8.20
137	583886.50	4139327.38	0.00000	0.00000	0.00000	0.10805	0.06038	0.04649	0.01757	0.00015	0.00004	0.000	0.000	0.000	17.747	9.917	1.202	0.454	0.004	0.001	29.33	8.80
138	583865.36	4139286.65	0.00000	0.00000	0.00000	0.05365	0.02991	0.02248	0.00839	0.00013	0.00003	0.000	0.000	0.000	8.812	4.913	0.581	0.217	0.003	0.001	14.53	4.36
139	583895.15	4139324.88	0.00000	0.00000	0.00000	0.11435	0.06363	0.04901	0.01852	0.00016	0.00004	0.000	0.000	0.000	18.782	10.451	1.267	0.479	0.004	0.001	30.98	9.30
140	583819.83	4139356.02	0.00000	0.00000	0.00000	0.03539	0.02020	0.01476	0.00548	0.00011	0.00003	0.000	0.000	0.000	5.813	3.318	0.382	0.142	0.003	0.001	9.66	2.90
141	583828.48	4139353.52	0.00000	0.00000	0.00000	0.04640	0.02647	0.01972	0.00738	0.00011	0.00003	0.000	0.000	0.000	7.621	4.348	0.510	0.191	0.003	0.001	12.67	3.80
142	583837.12	4139351.02	0.00000	0.00000	0.00000	0.05940	0.03387	0.02559	0.00962	0.00012	0.00003	0.000	0.000	0.000	9.756	5.563	0.662	0.249	0.003	0.001	16.23	4.87
143	583845.77	4139348.52	0.00000	0.00000	0.00000	0.07275	0.04143	0.03157	0.01190	0.00012	0.00003	0.000	0.000	0.000	11.949	6.805	0.816	0.308	0.003	0.001	19.88	5.96
144	583854.42	4139346.02	0.00000	0.00000	0.00000	0.08535	0.04850	0.03717	0.01404	0.00013	0.00003	0.000	0.000	0.000	14.018	7.966	0.961	0.363	0.003	0.001	23.31	6.99
145	583874.01	4139284.15	0.00000	0.00000	0.00000	0.05893	0.03275	0.02471	0.00923	0.00013	0.00004	0.000	0.000	0.000	9.679	5.379	0.639	0.239	0.003	0.001	15.94	4.78
146	583863.06	4139343.52	0.00000	0.00000	0.00000	0.09679	0.05484	0.04217	0.01595	0.00013	0.00004	0.000	0.000	0.000	15.897	9.007	1.090	0.412	0.003	0.001	26.41	7.92
147	583871.71	4139341.02	0.00000	0.00000	0.00000	0.10700	0.06039	0.04655	0.01761	0.00014	0.00004	0.000	0.000	0.000	17.574	9.919	1.204	0.455	0.004	0.001	29.16	8.75
148	583880.35	4139338.52	0.00000	0.00000	0.00000	0.11597	0.06516	0.05030	0.01904	0.00015	0.00004	0.000	0.000	0.000	19.048	10.702	1.301	0.492	0.004	0.001	31.55	9.46
149	583889.00	4139336.03	0.00000	0.00000	0.00000	0.12371	0.06919	0.05345	0.02024	0.00015	0.00004	0.000	0.000	0.000	20.319	11.364	1.382	0.523	0.004	0.001	33.59	10.08
150	583897.65	4139333.53	0.00000	0.00000	0.00000	0.13012	0.07245	0.05598	0.02119	0.00016	0.00004	0.000	0.000	0.000	21.372	11.900	1.448	0.548	0.004	0.001	35.27	10.58
151	583822.33	4139364.66	0.00000	0.00000	0.00000	0.04099	0.02346	0.01731	0.00645	0.00011	0.00003	0.000	0.000	0.000	6.732	3.853	0.448	0.167	0.003	0.001	11.20	3.36
152	584262.99	4139130.33	0.00000	0.00000	0.00000	0.33952	0.22533	0.09506	0.03743	0.00383	0.00091	0.000	0.000	0.000	55.765	37.010	2.458	0.968	0.099	0.024	96.32	28.90
153	584269.95	4139136.04	0.00000	0.00000	0.00000	0.37074	0.23908	0.10191	0.04117	0.00413	0.00098	0.000	0.000	0.000	60.893	39.268	2.635	1.065	0.107	0.025	103.99	31.20
154	584276.90	4139141.75	0.00000	0.00000	0.00000	0.40477	0.25225	0.10901	0.04533	0.00445	0.00105	0.000	0.000	0.000	66.482	41.431	2.819	1.172	0.115	0.027	112.05	33.61
155	584283.85	4139147.47	0.00000	0.00000	0.00000	0.44130	0.26463	0.11630	0.04984	0.00479	0.00112	0.000	0.000	0.000	72.482	43.465	3.007	1.289	0.124	0.029	120.40	36.12
156	584257.28	4139137.28	0.00000	0.00000	0.00000	0.34645	0.23452	0.09754	0.03824	0.00385	0.00092	0.000	0.000	0.000	56.903	38.519	2.522	0.989	0.100	0.024	99.06	29.72
157	584264.23	4139143.00	0.00000	0.00000	0.00000	0.38003	0.25013	0.10500	0.04227	0.00417	0.00098	0.000	0.000	0.000	62.419	41.083	2.715	1.093	0.108	0.025	107.44	32.23
158	584271.19	4139148.71	0.00000	0.00000	0.00000	0.41737	0.26533	0.11285	0.04685	0.00451	0.00105	0.000	0.000	0.000	68.552	43.580	2.918	1.211	0.117	0.027	116.40	34.92
159	584278.14	4139154.42	0.00000	0.00000	0.00000	0.45869	0.27997	0.12108	0.05200	0.00487	0.00113	0.000	0.000	0.000	75.338	45.984	3.131	1.345	0.126	0.029	125.95	37.79
160	584251.57	4139144.24	0.00000	0.00000	0.00000	0.35253	0.24373	0.09993	0.03893	0.00387	0.00092	0.000	0.000	0.000	57.902	40.032	2.584	1.007	0.100	0.024	101.65	30.49
161	584258.52	4139149.95	0.00000	0.00000	0.00000	0.38815	0.26132	0.10799	0.04320	0.00420	0.00099	0.000	0.000	0.000	63.752	42.921	2.792	1.117	0.109	0.026	110.72	33.22
162	584265.47	4139155.66	0.00000	0.00000	0.00000	0.42835	0.27863	0.11656	0.04813	0.00456	0.00106	0.000	0.000	0.000	70.355	45.764	3.014	1.245	0.118	0.027	120.52	36.16
163	584272.43	4139161.38	0.00000	0.00000	0.00000	0.47410	0.29566	0.12572	0.05386	0.00494	0.00114	0.000	0.000	0.000	77.869	48.561	3.251	1.393	0.128	0.029	131.23	39.37
164	584245.85	4139151.19	0.00000	0.00000	0.00000	0.35768	0.25285	0.10219	0.03949	0.00388	0.00092	0.000	0.000	0.000	58.748	41.530	2.642	1.021	0.100	0.024	104.07	31.22
165	584252.81	4139156.91	0.00000	0.00000	0.00000	0.39513	0.27264	0.11088	0.04396	0.00422	0.00099	0.000	0.000	0.000	64.899	44.780	2.867	1.137	0.109	0.026	113.82	34.15
166	584259.76	4139162.62	0.00000	0.00000	0.00000	0.43772	0.29222	0.12014	0.04917	0.00459	0.00106	0.000	0.000	0.000	71.894	47.996	3.107	1.271	0.119	0.027	124.41	37.32
167	584266.72	4139168.33	0.00000	0.00000	0.00000	0.48703	0.31162	0.13014	0.05535	0.00500	0.00115	0.000	0.000	0.000	79.993	51.183	3.365	1.431	0.129	0.030	136.13	40.84
168	584240.14	4139158.15	0.00000	0.00000	0.00000	0.36208	0.26186	0.10435	0.03996	0.00389	0.00092	0.000	0.000	0.000	59.470	43.010	2.698	1.033	0.101	0.024	106.34	31.90
169	584247.09	4139163.86	0.00000	0.00000	0.00000	0.40096	0.28402	0.11364	0.04456	0.00424	0.00099	0.000	0.000	0.000	65.856	46.649	2.938	1.152	0.110	0.026	116.73	35.02
170	584254.05	4139169.57	0.00000	0.00000	0.00000	0.44548	0.30607	0.12359	0.04997	0.00463	0.00107	0.000	0.000	0.000	73.169	50.271	3.196	1.292	0.120	0.028	128.07	38.42
171	584261.00	4139175.29	0.00000	0.00000	0.00000	0.49751	0.32796	0.13438	0.05647	0.00505	0.00115	0.000	0.000	0.000	81.714	53.866	3.475	1.460	0.131	0.030	140.68	42.20
172	584234.43	4139165.10	0.00000	0.00000	0.00000	0.36577	0.27062	0.10638	0.04033	0.00390	0.00092	0.000	0.000	0.000	60.076	44.448	2.751	1.043	0.101	0.024	108.44	32.53
173	584241.38	4139170.81	0.00000	0.00000	0.00000	0.40594	0.29543	0.11630	0.04504	0.00425	0.00099	0.000	0.000	0.000	66.674	48.523	3.007	1.165	0.110	0.026	119.50	35.85
174	584248.34	4139176.53	0.00000	0.00000	0.00000	0.45203	0.32030	0.12697	0.05059	0.00465	0.00107	0.000	0.000	0.000	74.244	52.608	3.283	1.308	0.120	0.028	131.59	39.48
175	584255.29	4139182.24	0.00000	0.00000	0.00000	0.50599	0.34488	0.13850	0.05729	0.00509	0.00116	0.000	0.000	0.000	83.107	56.645	3.581	1.481	0.132	0.030	144.98	43.49
176	584101.89	4139406.61	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00080	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.021	0.02	0.01
177	584108.98	4139401.06	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00096	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.025	0.02	0.01
178	584116.07	4139395.51	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00111	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.029	0.03	0.01
179	584123.15	4139389.97	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00127	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.033	0.03	0.01
180	584130.24	4139384.42	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00142	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.037	0.04	0.01
181	584137.33	4139378.88	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00156	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.040	0.04	0.01
182	584144.42	4139373.33	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00168	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.043	0.04	0.01
183	584151.51	4139367.78	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00179	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.046	0.05	0.01
184	584107.44	4139413.69	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00101	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.026	0.03	0.01
185	584114.52	4139408.15	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.031	0.03	0.01
186	584121.61	4139402.60	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.036	0.04	0.01
187	584128.70	4139397.06	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00158	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.041	0.04	0.01
188	584135.79	4139391.51	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00174	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.045	0.04	0.01
189	584142.88	4139385.96	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00189	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.049	0.05	0.01
190	584149.96	4139380.42	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00201	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.052	0.05	0.02
191	584157.05	4139374.87	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00212	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.055	0.05	0.02
192	584112.98	4139420.78	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00132	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.034	0.03	0.01
193	584120.07	4139415.24	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00157	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.041	0.04	0.01
194	584127.16	4139409.69	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00179	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.046	0.05	0.01
195	584134.25	4139404.14	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00198	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.051	0.05	0.02
196	584141.33	4139398.60	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00215	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.056	0.06	0.02
197	584148.42	4139393.05	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00229	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.059	0.06	0.02
198	584155.51	4139387.51	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00241	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.062	0.06	0.02
199	584162.60	4139381.96	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00251	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.065	0.06	0.02
200	584118.53	4139427.87	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00187	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.048	0.05	0.01
201	584125.62	4139422.32	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00213	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.055	0.06	0.02
202	584132.70	4139416.78	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00234	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.061	0.06	0.02
203	584139.79	4139411.23	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00252	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.065	0.07	0.02
204	584146.88	4139405.69	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00267	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.069	0.07	0.02

Receptor No.	Receptor Coordinates UTM-X (m)	UTM-Y (m)	2023 Conc DPM	2024 Conc DPM	2025 Conc DPM	2026 Conc DPM	2027 Conc DPM	2028 Conc DPM	2029 Conc DPM	2030 Conc DPM	2031 Conc DPM	2023 Construct Risk	2024 Construct Risk	2025 Construct Risk	2026 Construct Risk	2027 Construct Risk	2028 Construct Risk	2029 Construct Risk	2030 Construct Risk	2031 Construct Risk	2026-2031 Total Cancer Risk (per million)	With MERV-13 Filtration 2026-2031 Total Cancer Risk (per million)
205	584153.97	4139400.14	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00279	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.072	0.07	0.02
206	584161.06	4139394.59	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00289	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.075	0.07	0.02
207	584168.14	4139389.05	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00297	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.077	0.08	0.02
208	584124.07	4139434.96	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00286	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.074	0.07	0.02
209	584131.16	4139429.41	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00304	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.079	0.08	0.02
210	584138.25	4139423.87	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00318	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.082	0.08	0.02
211	584145.34	4139418.32	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00329	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.085	0.09	0.03
212	584152.43	4139412.77	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00338	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.087	0.09	0.03
213	584159.51	4139407.23	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00345	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.089	0.09	0.03
214	584166.60	4139401.68	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00351	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.091	0.09	0.03
215	584173.69	4139396.14	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00355	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.092	0.09	0.03
216	584092.34	4139379.79	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00055	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.014	0.01	0.00
217	584099.43	4139374.25	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00063	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.016	0.02	0.00
218	584106.52	4139368.70	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00072	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.019	0.02	0.01
219	584113.60	4139363.16	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00081	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.021	0.02	0.01
220	584120.69	4139357.61	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00090	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.023	0.02	0.01
221	584127.78	4139352.07	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.026	0.03	0.01
222	584134.87	4139346.52	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00109	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.028	0.03	0.01
223	584097.89	4139386.88	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00065	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.017	0.02	0.01
224	584104.97	4139381.34	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00075	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.019	0.02	0.01
225	584112.06	4139375.79	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00086	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.022	0.02	0.01
226	584119.15	4139370.25	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00097	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.025	0.03	0.01
227	584126.24	4139364.70	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00108	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.028	0.03	0.01
228	584133.33	4139359.15	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00118	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.031	0.03	0.01
229	584140.42	4139353.61	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00128	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.033	0.03	0.01
230	584098.22	4139397.64	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00069	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.018	0.02	0.01
231	584103.43	4139393.97	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00078	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.02	0.01
232	584110.52	4139388.43	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00091	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.024	0.02	0.01
233	584117.61	4139382.88	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00104	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.027	0.03	0.01
234	584124.70	4139377.33	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00117	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.030	0.03	0.01
235	584131.78	4139371.79	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00129	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.033	0.03	0.01
236	584138.87	4139366.24	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00141	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.036	0.04	0.01
237	584145.96	4139360.70	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00151	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.039	0.04	0.01
238	584179.51	4139343.08	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00202	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.052	0.05	0.02
239	584186.57	4139337.51	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00207	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.054	0.05	0.02
240	584193.64	4139331.93	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00212	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.055	0.05	0.02
241	584200.70	4139326.36	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00216	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.056	0.06	0.02
242	584207.77	4139320.78	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00220	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.057	0.06	0.02
243	584214.84	4139315.21	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00223	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.058	0.06	0.02
244	584221.90	4139309.63	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00225	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.058	0.06	0.02
245	584178.02	4139355.72	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00226	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.058	0.06	0.02
246	584185.08	4139350.15	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00231	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.060	0.06	0.02
247	584192.15	4139344.57	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00236	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.061	0.06	0.02
248	584199.21	4139339.00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00240	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.062	0.06	0.02
249	584206.28	4139333.42	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00244	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.063	0.06	0.02
250	584213.35	4139327.85	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00246	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.064	0.06	0.02
251	584220.41	4139322.27	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00249	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.064	0.06	0.02
252	584227.48	4139316.70	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00250	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.065	0.06	0.02
253	584183.59	4139362.79	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00260	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.067	0.07	0.02
254	584190.66	4139357.21	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00264	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.068	0.07	0.02
255	584197.72	4139351.64	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00268	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.069	0.07	0.02
256	584204.79	4139346.06	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00272	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.070	0.07	0.02
257	584211.85	4139340.49	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00274	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.071	0.07	0.02
258	584218.92	4139334.91	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00276	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.071	0.07	0.02
259	584225.99	4139329.34	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00278	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.072	0.07	0.02
260	584233.05	4139323.77	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00279	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.072	0.07	0.02
261	584189.16	4139369.85	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00299	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.077	0.08	0.02
262	584196.23	4139364.28	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00302	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.078	0.08	0.02
263	584203.30	4139358.70	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00305	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.079	0.08	0.02
264	584210.36	4139353.13	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00307	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.079	0.08	0.02
265	584217.43	4139347.56	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00309	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.080	0.08	0.02
266	584224.49	4139341.98	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00309	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.080	0.08	0.02
267	584231.56	4139336.41	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00310	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.080	0.08	0.02
268	584238.63	4139330.83	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00310	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.080	0.08	0.02
269	584194.74	4139376.92	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00344	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.089	0.09	0.03
270	584201.80	4139371.34	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00346	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.089	0.09	0.03
271	584208.87	4139365.77	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00347	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.090	0.09	0.03
272	584215.94	4139360.20	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00348	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.090	0.09	0.03
273	584223.00	4139354.62	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00347	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.090	0.00	0.00
274	584230.07	4139349.05	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00347	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.090	0.00	0.00
275	584237.13	4139343.47	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00346	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.089	0.00	0.00
276	584244.20	4139337.90	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00345	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.089	0.00	0.00

Receptor No.	Receptor Coordinates UTM-X (m)	UTM-Y (m)	2023 Conc DPM	2024 Conc DPM	2025 Conc DPM	2026 Conc DPM	2027 Conc DPM	2028 Conc DPM	2029 Conc DPM	2030 Conc DPM	2031 Conc DPM	2023 Construct Risk	2024 Construct Risk	2025 Construct Risk	2026 Construct Risk	2027 Construct Risk	2028 Construct Risk	2029 Construct Risk	2030 Construct Risk	2031 Construct Risk	2026-2031 Total Cancer Risk (per million)	With MERV-13 Filtration 2026-2031 Total Cancer Risk (per million)
277	584155.72	4139327.46	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00127	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.033	0.00	0.00
278	584162.78	4139321.88	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00134	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.035	0.00	0.00
279	584169.85	4139316.31	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.036	0.00	0.00
280	584176.92	4139310.73	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00146	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.038	0.00	0.00
281	584183.98	4139305.16	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00151	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.039	0.00	0.00
282	584191.05	4139299.59	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.040	0.00	0.00
283	584198.11	4139294.01	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00159	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.041	0.00	0.00
284	584205.18	4139288.44	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00163	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.042	0.00	0.00
285	584161.29	4139334.52	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00147	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.038	0.00	0.00
286	584168.36	4139328.95	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00154	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.040	0.00	0.00
287	584175.42	4139323.37	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.041	0.00	0.00
288	584182.49	4139317.80	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.043	0.00	0.00
289	584189.56	4139312.23	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.044	0.00	0.00
290	584196.62	4139306.65	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00174	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.045	0.00	0.00
291	584203.69	4139301.08	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00178	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.046	0.00	0.00
292	584210.75	4139295.50	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00182	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.047	0.00	0.00
293	584166.87	4139341.59	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.044	0.00	0.00
294	584173.93	4139336.01	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00176	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.046	0.00	0.00
295	584181.00	4139330.44	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00182	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.047	0.00	0.00
296	584188.06	4139324.87	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00187	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.048	0.00	0.00
297	584195.13	4139319.29	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00192	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.050	0.00	0.00
298	584202.20	4139313.72	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00196	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.051	0.00	0.00
299	584209.26	4139308.14	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00199	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.051	0.00	0.00
300	584216.33	4139302.57	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00202	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.052	0.00	0.00
301	584172.44	4139348.65	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00196	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.051	0.00	0.00
302	584258.09	4139291.88	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00254	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.066	0.00	0.00
303	584265.06	4139286.19	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00253	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.065	0.00	0.00
304	584272.03	4139280.50	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00252	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.065	0.00	0.00
305	584279.01	4139274.80	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00251	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.065	0.00	0.00
306	584285.98	4139269.11	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00250	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.065	0.00	0.00
307	584292.95	4139263.42	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00248	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.064	0.00	0.00
308	584299.92	4139257.73	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00246	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.064	0.00	0.00
309	584306.89	4139252.04	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00244	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.063	0.00	0.00
310	584256.81	4139304.54	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00280	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.072	0.00	0.00
311	584263.78	4139298.85	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00279	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.072	0.00	0.00
312	584270.76	4139293.16	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00277	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.072	0.00	0.00
313	584277.73	4139287.47	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00276	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.071	0.00	0.00
314	584284.70	4139281.78	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00274	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.071	0.00	0.00
315	584291.67	4139276.08	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00272	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.070	0.00	0.00
316	584298.64	4139270.39	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00270	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.070	0.00	0.00
317	584305.61	4139264.70	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00267	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.069	0.00	0.00
318	584312.58	4139259.01	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00264	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.068	0.00	0.00
319	584262.50	4139311.52	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00308	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.080	0.00	0.00
320	584269.48	4139305.82	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00307	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.079	0.00	0.00
321	584276.45	4139300.13	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00304	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.079	0.00	0.00
322	584283.42	4139294.44	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00302	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.078	0.00	0.00
323	584290.39	4139288.75	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00299	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.077	0.00	0.00
324	584297.36	4139283.06	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00296	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.077	0.00	0.00
325	584304.33	4139277.36	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00293	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.076	0.00	0.00
326	584311.30	4139271.67	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00290	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.075	0.00	0.00
327	584268.20	4139318.49	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00340	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.088	0.00	0.00
328	584275.17	4139312.79	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00337	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.087	0.00	0.00
329	584282.14	4139307.10	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00334	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.086	0.00	0.00
330	584289.11	4139301.41	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00331	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.086	0.00	0.00
331	584296.08	4139295.72	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00327	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.085	0.00	0.00
332	584303.05	4139290.03	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00323	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.084	0.00	0.00
333	584310.02	4139284.34	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00319	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.082	0.00	0.00
334	584317.00	4139278.64	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00315	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.081	0.00	0.00
335	584280.86	4139319.77	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00372	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.096	0.00	0.00
336	584287.83	4139314.07	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00368	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.095	0.00	0.00
337	584294.80	4139308.38	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00363	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.094	0.00	0.00
338	584301.77	4139302.69	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00358	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.093	0.00	0.00
339	584308.75	4139297.00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00353	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.091	0.00	0.00
340	584315.72	4139291.31	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00348	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.090	0.00	0.00
341	584322.69	4139285.62	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00342	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.088	0.00	0.00
342	584300.49	4139315.35	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00399	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.103	0.00	0.00
343	584307.47	4139309.66	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00393	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.102	0.00	0.00
344	584314.44	4139303.97	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00387	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.100	0.00	0.00
345	584321.41	4139298.28	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00380	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.098	0.00	0.00
346	584318.63	4139308.69	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00413	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.107	0.00	0.00
347	584327.10	4139305.25	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00416	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.108	0.00	0.00
348	584228.35	4139269.69	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00173	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.045	0.00	0.00

																						With MERV-13 Filtration
	Receptor Coordinates		2023	2024	2025	2026	2027	2028	2029	2030	2031	2023	2024	2025	2026	2027	2028	2029	2030	2031	2026-2031	2026-2031
Receptor	UTM-X	UTM-Y	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Construct	Construct	Construct	Construct	Construct	Construct	Construct	Construct	Construct	Total Cancer Risk	Total Cancer Risk
No.	(m)	(m)	DPM	DPM	DPM	DPM	DPM	DPM	DPM	DPM	DPM	Risk	Risk	Risk	Risk	Risk	Risk	Risk	Risk	Risk	(per million)	(per million)
349	584235.32	4139263.99	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00174	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.045	0.00	0.00
350	584242.30	4139258.30	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00176	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.046	0.00	0.00
351	584249.27	4139252.61	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00177	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.046	0.00	0.00
352	584256.24	4139246.92	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00178	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.046	0.00	0.00
353	584263.21	4139241.23	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00179	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.046	0.00	0.00
354	584270.18	4139235.53	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00179	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.046	0.00	0.00
355	584277.15	4139229.84	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00179	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.046	0.00	0.00
356	584284.12	4139224.15	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00179	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.046	0.00	0.00
357	584234.04	4139276.66	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00190	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.049	0.00	0.00
358	584241.02	4139270.97	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00192	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.050	0.00	0.00
359	584247.99	4139265.27	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00193	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.050	0.00	0.00
360	584254.96	4139259.58	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00193	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.050	0.00	0.00
361	584261.93	4139253.89	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00194	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.050	0.00	0.00
362	584268.90	4139248.20	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00194	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.050	0.00	0.00
363	584275.87	4139242.51	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00194	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.050	0.00	0.00
364	584282.85	4139236.81	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00194	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.050	0.00	0.00
365	584289.82	4139231.12	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00193	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.050	0.00	0.00
366	584239.74	4139283.63	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00209	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.054	0.00	0.00
367	584246.71	4139277.94	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00210	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.054	0.00	0.00
368	584253.68	4139272.25	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00211	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.055	0.00	0.00
369	584260.65	4139266.55	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00211	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.055	0.00	0.00
370	584267.62	4139260.86	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00211	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.055	0.00	0.00
371	584274.59	4139255.17	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00211	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.055	0.00	0.00
372	584281.57	4139249.48	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00211	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.055	0.00	0.00
373	584288.54	4139243.79	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00210	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.054	0.00	0.00
374	584295.51	4139238.09	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00209	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.054	0.00	0.00
375	584245.43	4139290.60	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00231	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.060	0.00	0.00
376	584252.40	4139284.91	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00231	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.060	0.00	0.00
377	584259.37	4139279.22	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00231	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.060	0.00	0.00
378	584266.34	4139273.53	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00231	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.060	0.00	0.00
379	584273.31	4139267.83	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00230	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.059	0.00	0.00
380	584280.29	4139262.14	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00230	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.059	0.00	0.00
381	584287.26	4139256.45	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00229	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.059	0.00	0.00
382	584294.23	4139250.76	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00227	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.059	0.00	0.00
383	584301.20	4139245.07	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00226	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.058	0.00	0.00
384	584251.12	4139297.57	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00254	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.066	0.00	0.00
		Maximum	0.00000	0.00000	0.00000	0.50599	0.34488	0.13850	0.05729	0.00509	0.00416	**0.00**	**0.0**	**0.0**	**83.1**	**56.6**	**3.6**	**1.5**	**0.1**	**0.1**	**144.98**	**43.493**

Google Middlefield - District Utilities Construction Impacts
DPM Cancer Risk Calculations From District Utilities Construction - with Mitigation
at On-Site Residential Receptors

Exposure Durations (years) for Maximum Cancer Risk

Exposure Type	2023	2024	2025	2026	2027	2028	2029	2030	2031
3rd Trimester (10)	0	0	0.25	0	0	0	0	0	0
Infant (10)	0	0	0	1	1	0	0	0	0
Child (3)	0	0	0	0	0	1	1	1	1
Adult (1)	0	0	0	0	0	0	0	0	0

	Receptor Coordinates		2023	2024	2025	2026	2027	2028	2029	2030	2031	2023	2024	2025	2026	2027	2028	2029	2030	2031		With MERV-13 Filtration 2026-2031
Receptor	UTM-X	UTM-Y	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Construct	Construct	Construct	Construct	Construct	Construct	Construct	Construct	Construct	Total	Total Cancer Risk
No.	(m)	(m)	DPM	DPM	DPM	DPM	DPM	DPM	DPM	DPM	DPM	Risk	Risk	Risk	Risk	Risk	Risk	Risk	Risk	Risk	Risk	(per million)
1	583791.67	4139222.58	0.00000	0.00000	0.00000	0.00181	0.00128	0.00103	0.00053	0.00005	0.00001	0.00	0.00	0.00	0.30	0.21	0.03	0.01	0.001	0.000	0.55	0.16
2	583800.29	4139219.98	0.00000	0.00000	0.00000	0.00200	0.00141	0.00114	0.00058	0.00006	0.00002	0.00	0.00	0.00	0.33	0.23	0.03	0.01	0.00	0.00	0.61	0.18
3	583808.90	4139217.39	0.00000	0.00000	0.00000	0.00220	0.00155	0.00126	0.00064	0.00006	0.00002	0.00	0.00	0.00	0.36	0.25	0.03	0.02	0.00	0.00	0.67	0.20
4	583817.52	4139214.79	0.00000	0.00000	0.00000	0.00242	0.00170	0.00140	0.00071	0.00006	0.00002	0.00	0.00	0.00	0.40	0.28	0.04	0.02	0.00	0.00	0.73	0.22
5	583826.14	4139212.19	0.00000	0.00000	0.00000	0.00266	0.00187	0.00154	0.00078	0.00007	0.00002	0.00	0.00	0.00	0.44	0.31	0.04	0.02	0.00	0.00	0.81	0.24
6	583834.75	4139209.60	0.00000	0.00000	0.00000	0.00292	0.00205	0.00170	0.00086	0.00007	0.00002	0.00	0.00	0.00	0.48	0.34	0.04	0.02	0.00	0.00	0.88	0.27
7	583785.65	4139233.80	0.00000	0.00000	0.00000	0.00174	0.00123	0.00098	0.00051	0.00005	0.00001	0.00	0.00	0.00	0.29	0.20	0.03	0.01	0.00	0.00	0.53	0.16
8	583794.26	4139231.20	0.00000	0.00000	0.00000	0.00192	0.00135	0.00109	0.00056	0.00006	0.00002	0.00	0.00	0.00	0.32	0.22	0.03	0.01	0.00	0.00	0.58	0.17
9	583802.88	4139228.60	0.00000	0.00000	0.00000	0.00212	0.00149	0.00121	0.00062	0.00006	0.00002	0.00	0.00	0.00	0.35	0.24	0.03	0.02	0.00	0.00	0.64	0.19
10	583811.50	4139226.01	0.00000	0.00000	0.00000	0.00234	0.00165	0.00135	0.00069	0.00006	0.00002	0.00	0.00	0.00	0.38	0.27	0.03	0.02	0.00	0.00	0.71	0.21
11	583820.12	4139223.41	0.00000	0.00000	0.00000	0.00258	0.00182	0.00150	0.00076	0.00006	0.00002	0.00	0.00	0.00	0.42	0.30	0.04	0.02	0.00	0.00	0.78	0.23
12	583828.73	4139220.81	0.00000	0.00000	0.00000	0.00285	0.00201	0.00166	0.00084	0.00007	0.00002	0.00	0.00	0.00	0.47	0.33	0.04	0.02	0.00	0.00	0.87	0.26
13	583837.35	4139218.22	0.00000	0.00000	0.00000	0.00314	0.00221	0.00184	0.00093	0.00007	0.00002	0.00	0.00	0.00	0.52	0.36	0.05	0.02	0.00	0.00	0.95	0.29
14	583845.97	4139215.62	0.00000	0.00000	0.00000	0.00344	0.00242	0.00203	0.00102	0.00007	0.00002	0.00	0.00	0.00	0.57	0.40	0.05	0.03	0.00	0.00	1.04	0.31
15	583788.24	4139242.41	0.00000	0.00000	0.00000	0.00183	0.00129	0.00104	0.00053	0.00005	0.00001	0.00	0.00	0.00	0.30	0.21	0.03	0.01	0.00	0.00	0.55	0.17
16	583796.86	4139239.82	0.00000	0.00000	0.00000	0.00203	0.00143	0.00116	0.00059	0.00006	0.00002	0.00	0.00	0.00	0.33	0.23	0.03	0.02	0.00	0.00	0.62	0.18
17	583805.48	4139237.22	0.00000	0.00000	0.00000	0.00225	0.00159	0.00130	0.00066	0.00006	0.00002	0.00	0.00	0.00	0.37	0.26	0.03	0.02	0.00	0.00	0.68	0.21
18	583814.10	4139234.62	0.00000	0.00000	0.00000	0.00250	0.00176	0.00145	0.00073	0.00006	0.00002	0.00	0.00	0.00	0.41	0.29	0.04	0.02	0.00	0.00	0.76	0.23
19	583822.71	4139232.03	0.00000	0.00000	0.00000	0.00277	0.00196	0.00162	0.00082	0.00006	0.00002	0.00	0.00	0.00	0.45	0.32	0.04	0.02	0.00	0.00	0.84	0.25
20	583831.33	4139229.43	0.00000	0.00000	0.00000	0.00307	0.00216	0.00180	0.00091	0.00007	0.00002	0.00	0.00	0.00	0.50	0.35	0.05	0.02	0.00	0.00	0.93	0.28
21	583839.95	4139226.83	0.00000	0.00000	0.00000	0.00339	0.00239	0.00200	0.00100	0.00007	0.00002	0.00	0.00	0.00	0.56	0.39	0.05	0.03	0.00	0.00	1.03	0.31
22	583848.56	4139224.24	0.00000	0.00000	0.00000	0.00373	0.00263	0.00220	0.00110	0.00007	0.00002	0.00	0.00	0.00	0.61	0.43	0.06	0.03	0.00	0.00	1.13	0.34
23	583790.84	4139251.03	0.00000	0.00000	0.00000	0.00193	0.00137	0.00110	0.00056	0.00005	0.00001	0.00	0.00	0.00	0.32	0.23	0.03	0.01	0.00	0.00	0.59	0.18
24	583799.46	4139248.43	0.00000	0.00000	0.00000	0.00215	0.00152	0.00124	0.00063	0.00006	0.00002	0.00	0.00	0.00	0.35	0.25	0.03	0.02	0.00	0.00	0.65	0.20
25	583808.08	4139245.84	0.00000	0.00000	0.00000	0.00240	0.00170	0.00139	0.00071	0.00006	0.00002	0.00	0.00	0.00	0.39	0.28	0.04	0.02	0.00	0.00	0.73	0.22
26	583816.69	4139243.24	0.00000	0.00000	0.00000	0.00268	0.00189	0.00156	0.00079	0.00006	0.00002	0.00	0.00	0.00	0.44	0.31	0.04	0.02	0.00	0.00	0.81	0.24
27	583825.31	4139240.64	0.00000	0.00000	0.00000	0.00299	0.00211	0.00175	0.00088	0.00007	0.00002	0.00	0.00	0.00	0.49	0.35	0.05	0.02	0.00	0.00	0.91	0.27
28	583833.93	4139238.05	0.00000	0.00000	0.00000	0.00332	0.00235	0.00196	0.00098	0.00007	0.00002	0.00	0.00	0.00	0.55	0.39	0.05	0.03	0.00	0.00	1.01	0.30
29	583842.54	4139235.45	0.00000	0.00000	0.00000	0.00368	0.00260	0.00218	0.00109	0.00007	0.00002	0.00	0.00	0.00	0.60	0.43	0.06	0.03	0.00	0.00	1.12	0.34
30	583851.16	4139232.85	0.00000	0.00000	0.00000	0.00406	0.00286	0.00241	0.00120	0.00008	0.00002	0.00	0.00	0.00	0.67	0.47	0.06	0.03	0.00	0.00	1.23	0.37
31	583793.44	4139259.65	0.00000	0.00000	0.00000	0.00204	0.00145	0.00117	0.00060	0.00006	0.00002	0.00	0.00	0.00	0.34	0.24	0.03	0.02	0.00	0.00	0.62	0.19
32	583802.06	4139257.05	0.00000	0.00000	0.00000	0.00229	0.00162	0.00133	0.00067	0.00006	0.00002	0.00	0.00	0.00	0.38	0.27	0.03	0.02	0.00	0.00	0.70	0.21
33	583810.67	4139254.45	0.00000	0.00000	0.00000	0.00257	0.00182	0.00150	0.00076	0.00006	0.00002	0.00	0.00	0.00	0.42	0.30	0.04	0.02	0.00	0.00	0.78	0.23
34	583819.29	4139251.86	0.00000	0.00000	0.00000	0.00288	0.00204	0.00169	0.00085	0.00006	0.00002	0.00	0.00	0.00	0.47	0.34	0.04	0.02	0.00	0.00	0.88	0.26
35	583827.91	4139249.26	0.00000	0.00000	0.00000	0.00323	0.00229	0.00191	0.00096	0.00007	0.00002	0.00	0.00	0.00	0.53	0.38	0.05	0.02	0.00	0.00	0.98	0.29
36	583836.52	4139246.66	0.00000	0.00000	0.00000	0.00361	0.00255	0.00214	0.00107	0.00007	0.00002	0.00	0.00	0.00	0.59	0.42	0.06	0.03	0.00	0.00	1.10	0.33
37	583845.14	4139244.07	0.00000	0.00000	0.00000	0.00401	0.00284	0.00239	0.00119	0.00007	0.00002	0.00	0.00	0.00	0.66	0.47	0.06	0.03	0.00	0.00	1.22	0.37
38	583853.76	4139241.47	0.00000	0.00000	0.00000	0.00443	0.00313	0.00265	0.00132	0.00008	0.00002	0.00	0.00	0.00	0.73	0.51	0.07	0.03	0.00	0.00	1.35	0.40
39	583796.03	4139268.27	0.00000	0.00000	0.00000	0.00217	0.00154	0.00125	0.00064	0.00006	0.00002	0.00	0.00	0.00	0.36	0.25	0.03	0.02	0.00	0.00	0.66	0.20
40	583804.65	4139265.67	0.00000	0.00000	0.00000	0.00245	0.00174	0.00142	0.00072	0.00006	0.00002	0.00	0.00	0.00	0.40	0.29	0.04	0.02	0.00	0.00	0.75	0.22
41	583813.27	4139263.07	0.00000	0.00000	0.00000	0.00276	0.00196	0.00162	0.00082	0.00006	0.00002	0.00	0.00	0.00	0.45	0.32	0.04	0.02	0.00	0.00	0.84	0.25
42	583821.89	4139260.48	0.00000	0.00000	0.00000	0.00312	0.00221	0.00184	0.00093	0.00006	0.00002	0.00	0.00	0.00	0.51	0.36	0.05	0.02	0.00	0.00	0.95	0.28
43	583830.50	4139257.88	0.00000	0.00000	0.00000	0.00351	0.00249	0.00208	0.00104	0.00007	0.00002	0.00	0.00	0.00	0.58	0.41	0.05	0.03	0.00	0.00	1.07	0.32
44	583839.12	4139255.28	0.00000	0.00000	0.00000	0.00394	0.00279	0.00235	0.00117	0.00007	0.00002	0.00	0.00	0.00	0.65	0.46	0.06	0.03	0.00	0.00	1.20	0.36
45	583847.74	4139252.69	0.00000	0.00000	0.00000	0.00440	0.00311	0.00263	0.00131	0.00007	0.00002	0.00	0.00	0.00	0.72	0.51	0.07	0.03	0.00	0.00	1.34	0.40
46	583856.36	4139250.09	0.00000	0.00000	0.00000	0.00487	0.00345	0.00292	0.00145	0.00008	0.00002	0.00	0.00	0.00	0.80	0.57	0.08	0.04	0.00	0.00	1.48	0.44
47	583798.63	4139276.88	0.00000	0.00000	0.00000	0.00231	0.00164	0.00134	0.00068	0.00006	0.00002	0.00	0.00	0.00	0.38	0.27	0.03	0.02	0.00	0.00	0.70	0.21
48	583807.25	4139274.29	0.00000	0.00000	0.00000	0.00263	0.00187	0.00154	0.00078	0.00006	0.00002	0.00	0.00	0.00	0.43	0.31	0.04	0.02	0.00	0.00	0.80	0.24
49	583815.87	4139271.69	0.00000	0.00000	0.00000	0.00299	0.00212	0.00176	0.00089	0.00006	0.00002	0.00	0.00	0.00	0.49	0.35	0.05	0.02	0.00	0.00	0.91	0.27
50	583824.48	4139269.09	0.00000	0.00000	0.00000	0.00339	0.00241	0.00201	0.00101	0.00007	0.00002	0.00	0.00	0.00	0.56	0.40	0.05	0.03	0.00	0.00	1.03	0.31
51	583833.10	4139266.50	0.00000	0.00000	0.00000	0.00384	0.00273	0.00229	0.00114	0.00007	0.00002	0.00	0.00	0.00	0.63	0.45	0.06	0.03	0.00	0.00	1.17	0.35
52	583841.72	4139263.90	0.00000	0.00000	0.00000	0.00433	0.00307	0.00260	0.00129	0.00007	0.00002	0.00	0.00	0.00	0.71	0.50	0.07	0.03	0.00	0.00	1.32	0.40
53	583850.33	4139261.30	0.00000	0.00000	0.00000	0.00485	0.00344	0.00291	0.00145	0.00008	0.00002	0.00	0.00	0.00	0.80	0.57	0.08	0.04	0.00	0.00	1.48	0.44
54	583858.95	4139258.71	0.00000	0.00000	0.00000	0.00538	0.00381	0.00324	0.00161	0.00008	0.00002	0.00	0.00	0.00	0.88	0.63	0.08	0.04	0.00	0.00	1.64	0.49
55	583780.45	4139216.56	0.00000	0.00000	0.00000	0.00157	0.00111	0.00088	0.00046	0.00005	0.00001	0.00	0.00	0.00	0.26	0.18	0.02	0.01	0.00	0.00	0.48	0.14
56	583789.07	4139213.96	0.00000	0.00000	0.00000	0.00172	0.00121	0.00097	0.00050	0.00005	0.00001	0.00	0.00	0.00	0.28	0.20	0.03	0.01	0.00	0.00	0.52	0.16
57	583797.69	4139211.37	0.00000	0.00000	0.00000	0.00189	0.00133	0.00107	0.00055	0.00006	0.00002	0.00	0.00	0.00	0.31	0.22	0.03	0.01	0.00	0.00	0.57	0.17
58	583806.31	4139208.77	0.00000	0.00000	0.00000	0.00207	0.00146	0.00118	0.00060	0.00006	0.00002	0.00	0.00	0.00	0.34	0.24	0.03	0.02	0.00	0.00	0.63	0.19
59	583814.92	4139206.17	0.00000	0.00000	0.00000	0.00227	0.00160	0.00131	0.00066	0.00006	0.00002	0.00	0.00	0.00	0.37	0.26	0.03	0.02	0.00	0.00	0.69	0.21
60	583823.54	4139203.58	0.00000	0.00000	0.00000	0.00249	0.00175	0.00144	0.00073	0.00006	0.00002	0.00	0.00	0.00	0.41	0.29	0.04	0.02	0.00	0.00	0.75	0.23

Receptor No.	Receptor Coordinates UTM-X (m)	UTM-Y (m)	2023 Conc DPM	2024 Conc DPM	2025 Conc DPM	2026 Conc DPM	2027 Conc DPM	2028 Conc DPM	2029 Conc DPM	2030 Conc DPM	2031 Conc DPM	2023 Construct Risk	2024 Construct Risk	2025 Construct Risk	2026 Construct Risk	2027 Construct Risk	2028 Construct Risk	2029 Construct Risk	2030 Construct Risk	2031 Construct Risk	Total Risk	With MERV-13 Filtration 2026-2031 Total Cancer Risk (per million)
61	583783.05	4139225.18	0.00000	0.00000	0.00000	0.00165	0.00117	0.00093	0.00048	0.00005	0.00001	0.00	0.00	0.00	0.27	0.19	0.02	0.01	0.00	0.00	0.50	0.15
62	583804.84	4139304.14	0.00000	0.00000	0.00000	0.00284	0.00203	0.00168	0.00085	0.00006	0.00002	0.00	0.00	0.00	0.47	0.33	0.04	0.02	0.00	0.00	0.87	0.26
63	583882.65	4139281.65	0.00000	0.00000	0.00000	0.00908	0.00646	0.00557	0.00274	0.00009	0.00003	0.00	0.00	0.00	1.49	1.06	0.14	0.07	0.00	0.00	2.77	0.83
64	583830.98	4139362.17	0.00000	0.00000	0.00000	0.00817	0.00593	0.00510	0.00250	0.00008	0.00002	0.00	0.00	0.00	1.34	0.97	0.13	0.06	0.00	0.00	2.51	0.75
65	583839.62	4139359.67	0.00000	0.00000	0.00000	0.01072	0.00778	0.00674	0.00329	0.00008	0.00002	0.00	0.00	0.00	1.76	1.28	0.17	0.09	0.00	0.00	3.30	0.99
66	583848.27	4139357.17	0.00000	0.00000	0.00000	0.01307	0.00948	0.00825	0.00402	0.00008	0.00002	0.00	0.00	0.00	2.15	1.56	0.21	0.10	0.00	0.00	4.02	1.21
67	583856.91	4139354.67	0.00000	0.00000	0.00000	0.01513	0.01097	0.00956	0.00465	0.00009	0.00002	0.00	0.00	0.00	2.49	1.80	0.25	0.12	0.00	0.00	4.66	1.40
68	583865.56	4139352.17	0.00000	0.00000	0.00000	0.01692	0.01224	0.01069	0.00520	0.00009	0.00002	0.00	0.00	0.00	2.78	2.01	0.28	0.13	0.00	0.00	5.20	1.56
69	583874.21	4139349.67	0.00000	0.00000	0.00000	0.01847	0.01333	0.01165	0.00566	0.00010	0.00003	0.00	0.00	0.00	3.03	2.19	0.30	0.15	0.00	0.00	5.67	1.70
70	583882.85	4139347.17	0.00000	0.00000	0.00000	0.01979	0.01425	0.01246	0.00605	0.00010	0.00003	0.00	0.00	0.00	3.25	2.34	0.32	0.16	0.00	0.00	6.07	1.82
71	583891.50	4139344.67	0.00000	0.00000	0.00000	0.02090	0.01500	0.01312	0.00637	0.00010	0.00003	0.00	0.00	0.00	3.43	2.46	0.34	0.16	0.00	0.00	6.40	1.92
72	583900.15	4139342.17	0.00000	0.00000	0.00000	0.02180	0.01560	0.01364	0.00663	0.00011	0.00003	0.00	0.00	0.00	3.58	2.56	0.35	0.17	0.00	0.00	6.67	2.00
73	583824.83	4139373.31	0.00000	0.00000	0.00000	0.00742	0.00539	0.00462	0.00227	0.00008	0.00002	0.00	0.00	0.00	1.22	0.89	0.12	0.06	0.00	0.00	2.28	0.69
74	583833.48	4139370.81	0.00000	0.00000	0.00000	0.01116	0.00813	0.00705	0.00344	0.00008	0.00002	0.00	0.00	0.00	1.83	1.34	0.18	0.09	0.00	0.00	3.44	1.03
75	583842.12	4139368.31	0.00000	0.00000	0.00000	0.01446	0.01053	0.00918	0.00447	0.00008	0.00002	0.00	0.00	0.00	2.38	1.73	0.24	0.12	0.00	0.00	4.46	1.34
76	583850.77	4139365.81	0.00000	0.00000	0.00000	0.01713	0.01246	0.01089	0.00529	0.00009	0.00002	0.00	0.00	0.00	2.81	2.05	0.28	0.14	0.00	0.00	5.28	1.58
77	583859.41	4139363.31	0.00000	0.00000	0.00000	0.01933	0.01405	0.01229	0.00596	0.00009	0.00002	0.00	0.00	0.00	3.17	2.31	0.32	0.15	0.00	0.00	5.96	1.79
78	583868.06	4139360.81	0.00000	0.00000	0.00000	0.02120	0.01537	0.01346	0.00653	0.00009	0.00002	0.00	0.00	0.00	3.48	2.52	0.35	0.17	0.00	0.00	6.53	1.96
79	583876.71	4139358.32	0.00000	0.00000	0.00000	0.02279	0.01648	0.01444	0.00700	0.00010	0.00003	0.00	0.00	0.00	3.74	2.71	0.37	0.18	0.00	0.00	7.01	2.10
80	583885.35	4139355.82	0.00000	0.00000	0.00000	0.02413	0.01740	0.01525	0.00739	0.00010	0.00003	0.00	0.00	0.00	3.96	2.86	0.39	0.19	0.00	0.00	7.41	2.22
81	583894.00	4139353.32	0.00000	0.00000	0.00000	0.02524	0.01814	0.01590	0.00771	0.00011	0.00003	0.00	0.00	0.00	4.15	2.98	0.41	0.20	0.00	0.00	7.74	2.32
82	583902.64	4139350.82	0.00000	0.00000	0.00000	0.02611	0.01872	0.01640	0.00796	0.00011	0.00003	0.00	0.00	0.00	4.29	3.07	0.42	0.21	0.00	0.00	8.00	2.40
83	583807.34	4139312.79	0.00000	0.00000	0.00000	0.00307	0.00220	0.00182	0.00092	0.00006	0.00002	0.00	0.00	0.00	0.50	0.36	0.05	0.02	0.00	0.00	0.94	0.28
84	583815.98	4139310.29	0.00000	0.00000	0.00000	0.00363	0.00260	0.00217	0.00109	0.00007	0.00002	0.00	0.00	0.00	0.60	0.43	0.06	0.03	0.00	0.00	1.11	0.33
85	583824.63	4139307.79	0.00000	0.00000	0.00000	0.00430	0.00308	0.00260	0.00129	0.00007	0.00002	0.00	0.00	0.00	0.71	0.51	0.07	0.03	0.00	0.00	1.32	0.39
86	583833.28	4139305.29	0.00000	0.00000	0.00000	0.00507	0.00363	0.00308	0.00153	0.00007	0.00002	0.00	0.00	0.00	0.83	0.60	0.08	0.04	0.00	0.00	1.55	0.47
87	583841.92	4139302.79	0.00000	0.00000	0.00000	0.00592	0.00424	0.00362	0.00179	0.00007	0.00002	0.00	0.00	0.00	0.97	0.70	0.09	0.05	0.00	0.00	1.81	0.54
88	583813.48	4139301.64	0.00000	0.00000	0.00000	0.00333	0.00238	0.00198	0.00099	0.00006	0.00002	0.00	0.00	0.00	0.55	0.39	0.05	0.03	0.00	0.00	1.02	0.31
89	583850.57	4139300.29	0.00000	0.00000	0.00000	0.00682	0.00488	0.00418	0.00206	0.00008	0.00002	0.00	0.00	0.00	1.12	0.80	0.11	0.05	0.00	0.00	2.09	0.63
90	583859.21	4139297.79	0.00000	0.00000	0.00000	0.00772	0.00552	0.00475	0.00233	0.00008	0.00002	0.00	0.00	0.00	1.27	0.91	0.12	0.06	0.00	0.00	2.36	0.71
91	583867.86	4139295.29	0.00000	0.00000	0.00000	0.00860	0.00615	0.00530	0.00260	0.00009	0.00002	0.00	0.00	0.00	1.41	1.01	0.14	0.07	0.00	0.00	2.63	0.79
92	583876.51	4139292.80	0.00000	0.00000	0.00000	0.00943	0.00673	0.00581	0.00285	0.00009	0.00002	0.00	0.00	0.00	1.55	1.11	0.15	0.07	0.00	0.00	2.88	0.86
93	583885.15	4139290.30	0.00000	0.00000	0.00000	0.01018	0.00725	0.00627	0.00307	0.00010	0.00003	0.00	0.00	0.00	1.67	1.19	0.16	0.08	0.00	0.00	3.11	0.93
94	583809.84	4139321.43	0.00000	0.00000	0.00000	0.00333	0.00239	0.00199	0.00100	0.00007	0.00002	0.00	0.00	0.00	0.55	0.39	0.05	0.03	0.00	0.00	1.02	0.31
95	583822.13	4139299.14	0.00000	0.00000	0.00000	0.00389	0.00278	0.00234	0.00117	0.00007	0.00002	0.00	0.00	0.00	0.64	0.46	0.06	0.03	0.00	0.00	1.19	0.36
96	583818.48	4139318.93	0.00000	0.00000	0.00000	0.00400	0.00287	0.00241	0.00120	0.00007	0.00002	0.00	0.00	0.00	0.66	0.47	0.06	0.03	0.00	0.00	1.22	0.37
97	583827.13	4139316.44	0.00000	0.00000	0.00000	0.00480	0.00344	0.00291	0.00145	0.00007	0.00002	0.00	0.00	0.00	0.79	0.57	0.08	0.04	0.00	0.00	1.47	0.44
98	583835.77	4139313.94	0.00000	0.00000	0.00000	0.00571	0.00410	0.00349	0.00173	0.00007	0.00002	0.00	0.00	0.00	0.94	0.67	0.09	0.04	0.00	0.00	1.75	0.52
99	583844.42	4139311.44	0.00000	0.00000	0.00000	0.00671	0.00482	0.00413	0.00203	0.00008	0.00002	0.00	0.00	0.00	1.10	0.79	0.11	0.05	0.00	0.00	2.06	0.62
100	583853.07	4139308.94	0.00000	0.00000	0.00000	0.00775	0.00556	0.00478	0.00235	0.00008	0.00002	0.00	0.00	0.00	1.27	0.91	0.12	0.06	0.00	0.00	2.37	0.71
101	583861.71	4139306.44	0.00000	0.00000	0.00000	0.00878	0.00629	0.00542	0.00266	0.00008	0.00002	0.00	0.00	0.00	1.44	1.03	0.14	0.07	0.00	0.00	2.69	0.81
102	583870.36	4139303.94	0.00000	0.00000	0.00000	0.00975	0.00698	0.00603	0.00295	0.00009	0.00002	0.00	0.00	0.00	1.60	1.15	0.16	0.08	0.00	0.00	2.98	0.89
103	583879.01	4139301.44	0.00000	0.00000	0.00000	0.01065	0.00761	0.00658	0.00322	0.00009	0.00003	0.00	0.00	0.00	1.75	1.25	0.17	0.08	0.00	0.00	3.26	0.98
104	583887.65	4139298.94	0.00000	0.00000	0.00000	0.01145	0.00816	0.00707	0.00346	0.00010	0.00003	0.00	0.00	0.00	1.88	1.34	0.18	0.09	0.00	0.00	3.50	1.05
105	583830.78	4139296.64	0.00000	0.00000	0.00000	0.00454	0.00325	0.00275	0.00137	0.00007	0.00002	0.00	0.00	0.00	0.75	0.53	0.07	0.04	0.00	0.00	1.39	0.42
106	583812.33	4139330.08	0.00000	0.00000	0.00000	0.00364	0.00261	0.00218	0.00109	0.00007	0.00002	0.00	0.00	0.00	0.60	0.43	0.06	0.03	0.00	0.00	1.11	0.33
107	583820.98	4139327.58	0.00000	0.00000	0.00000	0.00444	0.00319	0.00269	0.00134	0.00007	0.00002	0.00	0.00	0.00	0.73	0.52	0.07	0.03	0.00	0.00	1.36	0.41
108	583829.63	4139325.08	0.00000	0.00000	0.00000	0.00540	0.00388	0.00330	0.00164	0.00007	0.00002	0.00	0.00	0.00	0.89	0.64	0.09	0.04	0.00	0.00	1.65	0.50
109	583838.27	4139322.58	0.00000	0.00000	0.00000	0.00650	0.00468	0.00400	0.00197	0.00008	0.00002	0.00	0.00	0.00	1.07	0.77	0.10	0.05	0.00	0.00	1.99	0.60
110	583846.92	4139320.08	0.00000	0.00000	0.00000	0.00769	0.00552	0.00475	0.00233	0.00008	0.00002	0.00	0.00	0.00	1.26	0.91	0.12	0.06	0.00	0.00	2.36	0.71
111	583855.57	4139317.58	0.00000	0.00000	0.00000	0.00888	0.00638	0.00550	0.00270	0.00008	0.00002	0.00	0.00	0.00	1.46	1.05	0.14	0.07	0.00	0.00	2.72	0.82
112	583864.21	4139315.09	0.00000	0.00000	0.00000	0.01003	0.00720	0.00623	0.00305	0.00009	0.00002	0.00	0.00	0.00	1.65	1.18	0.16	0.08	0.00	0.00	3.07	0.92
113	583839.42	4139294.15	0.00000	0.00000	0.00000	0.00527	0.00376	0.00320	0.00159	0.00007	0.00002	0.00	0.00	0.00	0.87	0.62	0.08	0.04	0.00	0.00	1.61	0.48
114	583872.86	4139312.59	0.00000	0.00000	0.00000	0.01110	0.00795	0.00689	0.00337	0.00009	0.00002	0.00	0.00	0.00	1.82	1.31	0.18	0.09	0.00	0.00	3.40	1.02
115	583881.50	4139310.09	0.00000	0.00000	0.00000	0.01206	0.00862	0.00748	0.00366	0.00009	0.00003	0.00	0.00	0.00	1.98	1.42	0.19	0.09	0.00	0.00	3.69	1.11
116	583890.15	4139307.59	0.00000	0.00000	0.00000	0.01290	0.00920	0.00799	0.00390	0.00010	0.00003	0.00	0.00	0.00	2.12	1.51	0.21	0.10	0.00	0.00	3.94	1.18
117	583814.83	4139338.73	0.00000	0.00000	0.00000	0.00399	0.00287	0.00241	0.00120	0.00007	0.00002	0.00	0.00	0.00	0.66	0.47	0.06	0.03	0.00	0.00	1.22	0.37
118	583823.48	4139336.23	0.00000	0.00000	0.00000	0.00498	0.00358	0.00303	0.00151	0.00007	0.00002	0.00	0.00	0.00	0.82	0.59	0.08	0.04	0.00	0.00	1.53	0.46
119	583832.13	4139333.73	0.00000	0.00000	0.00000	0.00616	0.00444	0.00379	0.00187	0.00007	0.00002	0.00	0.00	0.00	1.01	0.73	0.10	0.05	0.00	0.00	1.89	0.57
120	583848.07	4139291.65	0.00000	0.00000	0.00000	0.00604	0.00432	0.00369	0.00182	0.00008	0.00002	0.00	0.00	0.00	0.99	0.71	0.10	0.05	0.00	0.00	1.85	0.55
121	583840.77	4139331.23	0.00000	0.00000	0.00000	0.00750	0.00540	0.00464	0.00228	0.00008	0.00002	0.00	0.00	0.00	1.23	0.89	0.12	0.06	0.00	0.00	2.30	0.69
122	583849.42	4139328.73	0.00000	0.00000	0.00000	0.00889	0.00640	0.00553	0.00271	0.00008	0.00002	0.00	0.00	0.00	1.46	1.05	0.14	0.07	0.00	0.00	2.73	0.82
123	583858.06	4139326.23	0.00000	0.00000	0.00000	0.01025	0.00738	0.00638	0.00312	0.00008	0.00002	0.00	0.00	0.00	1.68	1.21	0.16	0.08	0.00	0.00	3.14	0.94
124	583866.71	4139323.73	0.00000	0.00000	0.00000	0.01153	0.00828	0.00718	0.00351	0.00009	0.00002	0.00	0.00	0.00	1.89	1.36	0.19	0.09	0.00	0.00	3.53	1.06
125	583875.36	4139321.23	0.00000	0.00000	0.00000	0.01268	0.00910	0.00790	0.00386	0.00009	0.00002	0.00	0.00	0.00	2.08	1.49	0.20	0.10	0.00	0.00	3.88	1.17
126	583884.00	4139318.73	0.00000	0.00000	0.00000	0.01370	0.00980	0.00852	0.00416	0.00010	0.00003	0.00	0.00	0.00	2.25	1.61	0.22	0.11	0.00	0.00	4.19	1.26
127	583892.65	4139316.23	0.00000	0.00000	0.00000	0.01457	0.01040	0.00905	0.00441	0.00010	0.00003	0.00	0.00	0.00	2.39	1.71	0.23	0.11	0.00	0.00	4.45	1.34
128	583856.72	4139289.15	0.00000	0.00000	0.00000	0.00684	0.00488	0.00418	0.00206	0.00008	0.00002	0.00	0.00	0.00	1.12	0.80	0.11	0.05	0.00	0.00	2.09	0.63
129	583817.33	4139347.37	0.00000	0.00000	0.00000	0.00443	0.00319	0.00269	0.00134	0.00007	0.00002	0.00	0.00	0.00	0.73	0.52	0.07	0.03	0.00	0.00	1.36	0.41
130	583825.98	4139344.87	0.00000	0.00000	0.00000	0.00567	0.00409	0.00348	0.00172	0.00007	0.00002	0.00	0.00	0.00	0.93	0.67	0.09	0.04	0.00	0.00	1.74	0.52
131	583834.62	4139342.37	0.00000	0.00000	0.00000	0.00716	0.00517	0.00443	0.00218	0.00008	0.00002	0.00	0.00	0.00	1.18	0.85	0.11	0.06	0.00	0.00	2.20	0.66
132	583843.27	4139339.88	0.00000	0.00000	0.00000	0.00879	0.00634	0.00547	0.00268	0.00008	0.00002	0.00	0.00	0.00	1.44	1.04	0.14	0.07	0.00	0.00	2.70	0.81

Receptor No.	Receptor Coordinates UTM-X (m)	UTM-Y (m)	2023 Conc DPM	2024 Conc DPM	2025 Conc DPM	2026 Conc DPM	2027 Conc DPM	2028 Conc DPM	2029 Conc DPM	2030 Conc DPM	2031 Conc DPM	2023 Construct Risk	2024 Construct Risk	2025 Construct Risk	2026 Construct Risk	2027 Construct Risk	2028 Construct Risk	2029 Construct Risk	2030 Construct Risk	2031 Construct Risk	Total Risk	With MERV-13 Filtration 2026-2031 Total Cancer Risk (per million)
133	583851.92	4139337.38	0.00000	0.00000	0.00000	0.01041	0.00751	0.00651	0.00318	0.00008	0.00002	0.00	0.00	0.00	1.71	1.23	0.17	0.08	0.00	0.00	3.20	0.96
134	583860.56	4139334.88	0.00000	0.00000	0.00000	0.01193	0.00860	0.00747	0.00365	0.00009	0.00002	0.00	0.00	0.00	1.96	1.41	0.19	0.09	0.00	0.00	3.66	1.10
135	583869.21	4139332.38	0.00000	0.00000	0.00000	0.01332	0.00959	0.00834	0.00407	0.00009	0.00002	0.00	0.00	0.00	2.19	1.58	0.22	0.11	0.00	0.00	4.09	1.23
136	583877.86	4139329.88	0.00000	0.00000	0.00000	0.01456	0.01045	0.00910	0.00443	0.00009	0.00003	0.00	0.00	0.00	2.39	1.72	0.24	0.11	0.00	0.00	4.46	1.34
137	583886.50	4139327.38	0.00000	0.00000	0.00000	0.01562	0.01119	0.00975	0.00475	0.00010	0.00003	0.00	0.00	0.00	2.57	1.84	0.25	0.12	0.00	0.00	4.78	1.43
138	583865.36	4139286.65	0.00000	0.00000	0.00000	0.00763	0.00544	0.00467	0.00230	0.00008	0.00002	0.00	0.00	0.00	1.25	0.89	0.12	0.06	0.00	0.00	2.33	0.70
139	583895.15	4139324.88	0.00000	0.00000	0.00000	0.01650	0.01179	0.01028	0.00501	0.00011	0.00003	0.00	0.00	0.00	2.71	1.94	0.27	0.13	0.00	0.00	5.05	1.51
140	583819.83	4139356.02	0.00000	0.00000	0.00000	0.00500	0.00361	0.00305	0.00152	0.00007	0.00002	0.00	0.00	0.00	0.82	0.59	0.08	0.04	0.00	0.00	1.53	0.46
141	583828.48	4139353.52	0.00000	0.00000	0.00000	0.00663	0.00479	0.00410	0.00202	0.00008	0.00002	0.00	0.00	0.00	1.09	0.79	0.11	0.05	0.00	0.00	2.04	0.61
142	583837.12	4139351.02	0.00000	0.00000	0.00000	0.00856	0.00619	0.00534	0.00262	0.00008	0.00002	0.00	0.00	0.00	1.41	1.02	0.14	0.07	0.00	0.00	2.63	0.79
143	583845.77	4139348.52	0.00000	0.00000	0.00000	0.01053	0.00762	0.00660	0.00323	0.00008	0.00002	0.00	0.00	0.00	1.73	1.25	0.17	0.08	0.00	0.00	3.24	0.97
144	583854.42	4139346.02	0.00000	0.00000	0.00000	0.01239	0.00896	0.00779	0.00380	0.00008	0.00002	0.00	0.00	0.00	2.04	1.47	0.20	0.10	0.00	0.00	3.81	1.14
145	583874.01	4139284.15	0.00000	0.00000	0.00000	0.00838	0.00597	0.00514	0.00253	0.00009	0.00002	0.00	0.00	0.00	1.38	0.98	0.13	0.07	0.00	0.00	2.56	0.77
146	583863.06	4139343.52	0.00000	0.00000	0.00000	0.01406	0.01016	0.00884	0.00431	0.00009	0.00002	0.00	0.00	0.00	2.31	1.67	0.23	0.11	0.00	0.00	4.32	1.30
147	583871.71	4139341.02	0.00000	0.00000	0.00000	0.01554	0.01120	0.00977	0.00475	0.00009	0.00002	0.00	0.00	0.00	2.55	1.84	0.25	0.12	0.00	0.00	4.77	1.43
148	583880.35	4139338.52	0.00000	0.00000	0.00000	0.01683	0.01210	0.01056	0.00514	0.00010	0.00003	0.00	0.00	0.00	2.76	1.99	0.27	0.13	0.00	0.00	5.16	1.55
149	583889.00	4139336.03	0.00000	0.00000	0.00000	0.01793	0.01285	0.01122	0.00546	0.00010	0.00003	0.00	0.00	0.00	2.94	2.11	0.29	0.14	0.00	0.00	5.49	1.65
150	583897.65	4139333.53	0.00000	0.00000	0.00000	0.01883	0.01346	0.01175	0.00572	0.00011	0.00003	0.00	0.00	0.00	3.09	2.21	0.30	0.15	0.00	0.00	5.76	1.73
151	583822.33	4139364.66	0.00000	0.00000	0.00000	0.00583	0.00422	0.00359	0.00178	0.00008	0.00002	0.00	0.00	0.00	0.96	0.69	0.09	0.05	0.00	0.00	1.79	0.54
152	584262.99	4139130.33	0.00000	0.00000	0.00000	0.03915	0.02987	0.01784	0.01197	0.00256	0.00061	0.00	0.00	0.00	6.43	4.91	0.46	0.31	0.07	0.02	12.19	3.66
153	584269.95	4139136.04	0.00000	0.00000	0.00000	0.04275	0.03194	0.01924	0.01312	0.00276	0.00065	0.00	0.00	0.00	7.02	5.25	0.50	0.34	0.07	0.02	13.19	3.96
154	584276.90	4139141.75	0.00000	0.00000	0.00000	0.04668	0.03404	0.02074	0.01438	0.00298	0.00069	0.00	0.00	0.00	7.67	5.59	0.54	0.37	0.08	0.02	14.26	4.28
155	584283.85	4139147.47	0.00000	0.00000	0.00000	0.05092	0.03614	0.02230	0.01575	0.00321	0.00074	0.00	0.00	0.00	8.36	5.94	0.58	0.41	0.08	0.02	15.39	4.62
156	584257.28	4139137.28	0.00000	0.00000	0.00000	0.03996	0.03091	0.01829	0.01220	0.00258	0.00061	0.00	0.00	0.00	6.56	5.08	0.47	0.32	0.07	0.02	12.51	3.75
157	584264.23	4139143.00	0.00000	0.00000	0.00000	0.04383	0.03322	0.01982	0.01342	0.00279	0.00065	0.00	0.00	0.00	7.20	5.46	0.51	0.35	0.07	0.02	13.60	4.08
158	584271.19	4139148.71	0.00000	0.00000	0.00000	0.04815	0.03559	0.02147	0.01481	0.00302	0.00070	0.00	0.00	0.00	7.91	5.85	0.56	0.38	0.08	0.02	14.79	4.44
159	584278.14	4139154.42	0.00000	0.00000	0.00000	0.05294	0.03803	0.02325	0.01636	0.00326	0.00075	0.00	0.00	0.00	8.70	6.25	0.60	0.42	0.08	0.02	16.07	4.82
160	584251.57	4139144.24	0.00000	0.00000	0.00000	0.04067	0.03193	0.01872	0.01239	0.00259	0.00061	0.00	0.00	0.00	6.68	5.24	0.48	0.32	0.07	0.02	12.81	3.84
161	584258.52	4139149.95	0.00000	0.00000	0.00000	0.04477	0.03447	0.02036	0.01368	0.00281	0.00065	0.00	0.00	0.00	7.35	5.66	0.53	0.35	0.07	0.02	13.98	4.20
162	584265.47	4139155.66	0.00000	0.00000	0.00000	0.04942	0.03711	0.02216	0.01517	0.00305	0.00070	0.00	0.00	0.00	8.12	6.10	0.57	0.39	0.08	0.02	15.27	4.58
163	584272.43	4139161.38	0.00000	0.00000	0.00000	0.05473	0.03989	0.02414	0.01688	0.00331	0.00075	0.00	0.00	0.00	8.99	6.55	0.62	0.44	0.09	0.02	16.71	5.01
164	584245.85	4139151.19	0.00000	0.00000	0.00000	0.04126	0.03292	0.01912	0.01254	0.00260	0.00061	0.00	0.00	0.00	6.78	5.41	0.49	0.32	0.07	0.02	13.09	3.93
165	584252.81	4139156.91	0.00000	0.00000	0.00000	0.04558	0.03571	0.02087	0.01390	0.00283	0.00066	0.00	0.00	0.00	7.49	5.87	0.54	0.36	0.07	0.02	14.34	4.30
166	584259.76	4139162.62	0.00000	0.00000	0.00000	0.05050	0.03862	0.02279	0.01546	0.00308	0.00071	0.00	0.00	0.00	8.29	6.34	0.59	0.40	0.08	0.02	15.72	4.72
167	584266.72	4139168.33	0.00000	0.00000	0.00000	0.05622	0.04170	0.02495	0.01730	0.00335	0.00076	0.00	0.00	0.00	9.23	6.85	0.65	0.45	0.09	0.02	17.28	5.18
168	584240.14	4139158.15	0.00000	0.00000	0.00000	0.04177	0.03388	0.01948	0.01267	0.00261	0.00061	0.00	0.00	0.00	6.86	5.56	0.50	0.33	0.07	0.02	13.34	4.00
169	584247.09	4139163.86	0.00000	0.00000	0.00000	0.04625	0.03692	0.02134	0.01406	0.00284	0.00066	0.00	0.00	0.00	7.60	6.06	0.55	0.36	0.07	0.02	14.67	4.40
170	584254.05	4139169.57	0.00000	0.00000	0.00000	0.05139	0.04010	0.02338	0.01569	0.00310	0.00071	0.00	0.00	0.00	8.44	6.59	0.60	0.41	0.08	0.02	16.14	4.84
171	584261.00	4139175.29	0.00000	0.00000	0.00000	0.05742	0.04348	0.02569	0.01762	0.00338	0.00076	0.00	0.00	0.00	9.43	7.14	0.66	0.46	0.09	0.02	17.80	5.34
172	584234.43	4139165.10	0.00000	0.00000	0.00000	0.04220	0.03480	0.01982	0.01277	0.00261	0.00061	0.00	0.00	0.00	6.93	5.72	0.51	0.33	0.07	0.02	13.57	4.07
173	584241.38	4139170.81	0.00000	0.00000	0.00000	0.04682	0.03811	0.02178	0.01419	0.00285	0.00066	0.00	0.00	0.00	7.69	6.26	0.56	0.37	0.07	0.02	14.97	4.49
174	584248.34	4139176.53	0.00000	0.00000	0.00000	0.05213	0.04159	0.02394	0.01586	0.00311	0.00071	0.00	0.00	0.00	8.56	6.83	0.62	0.41	0.08	0.02	16.52	4.96
175	584255.29	4139182.24	0.00000	0.00000	0.00000	0.05838	0.04526	0.02637	0.01785	0.00341	0.00077	0.00	0.00	0.00	9.59	7.43	0.68	0.46	0.09	0.02	18.27	5.48
176	584101.89	4139406.61	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00053	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00
177	584108.98	4139401.06	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00063	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.00
178	584116.07	4139395.51	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00074	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.01
179	584123.15	4139389.97	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00084	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.01
180	584130.24	4139384.42	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00094	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.01
181	584137.33	4139378.88	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00103	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	0.01
182	584144.42	4139373.33	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00112	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	0.01
183	584151.51	4139367.78	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00119	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	0.01
184	584107.44	4139413.69	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00067	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.01
185	584114.52	4139408.15	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00080	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.01
186	584121.61	4139402.60	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00093	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.01
187	584128.70	4139397.06	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	0.01
188	584135.79	4139391.51	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00116	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	0.01
189	584142.88	4139385.96	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	0.01
190	584149.96	4139380.42	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00133	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	0.01
191	584157.05	4139374.87	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00141	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.01
192	584112.98	4139420.78	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00088	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.01
193	584120.07	4139415.24	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00104	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	0.01
194	584127.16	4139409.69	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00119	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	0.01
195	584134.25	4139404.14	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00132	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	0.01
196	584141.33	4139398.60	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00142	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.01
197	584148.42	4139393.05	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00152	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.01
198	584155.51	4139387.51	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.01
199	584162.60	4139381.96	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00166	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.01
200	584118.53	4139427.87	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00124	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	0.01
201	584125.62	4139422.32	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00141	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.01
202	584132.70	4139416.78	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00156	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.01
203	584139.79	4139411.23	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00167	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.01
204	584146.88	4139405.69	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00177	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.01

Receptor No.	Receptor Coordinates UTM-X (m)	UTM-Y (m)	2023 Conc DPM	2024 Conc DPM	2025 Conc DPM	2026 Conc DPM	2027 Conc DPM	2028 Conc DPM	2029 Conc DPM	2030 Conc DPM	2031 Conc DPM	2023 Construct Risk	2024 Construct Risk	2025 Construct Risk	2026 Construct Risk	2027 Construct Risk	2028 Construct Risk	2029 Construct Risk	2030 Construct Risk	2031 Construct Risk	Total Risk	With MERV-13 Filtration 2026-2031 Total Cancer Risk (per million)
205	584153.97	4139400.14	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00185	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.01
206	584161.06	4139394.59	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00192	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.01
207	584168.14	4139389.05	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00197	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.02
208	584124.07	4139434.96	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00190	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.01
209	584131.16	4139429.41	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00202	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.02
210	584138.25	4139423.87	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00211	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.02
211	584145.34	4139418.32	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00218	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.02
212	584152.43	4139412.77	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00224	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.02
213	584159.51	4139407.23	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00229	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.02
214	584166.60	4139401.68	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00233	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.02
215	584173.69	4139396.14	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00236	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.02
216	584092.34	4139379.79	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00036	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00
217	584099.43	4139374.25	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00042	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00
218	584106.52	4139368.70	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00048	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00
219	584113.60	4139363.16	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00054	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00
220	584120.69	4139357.61	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00060	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.00
221	584127.78	4139352.07	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00066	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.01
222	584134.87	4139346.52	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00072	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.01
223	584097.89	4139386.88	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00043	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00
224	584104.97	4139381.34	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00050	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00
225	584112.06	4139375.79	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00057	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00
226	584119.15	4139370.25	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00064	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.00
227	584126.24	4139364.70	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00071	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.01
228	584133.33	4139359.15	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00078	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.01
229	584140.42	4139353.61	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00085	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.01
230	584098.22	4139397.64	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00046	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00
231	584103.43	4139393.97	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00052	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00
232	584110.52	4139388.43	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00060	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.00
233	584117.61	4139382.88	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00069	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.01
234	584124.70	4139377.33	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00077	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.01
235	584131.78	4139371.79	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00086	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.01
236	584138.87	4139366.24	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00093	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.01
237	584145.96	4139360.70	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	0.01
238	584179.51	4139343.08	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00134	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	0.01
239	584186.57	4139337.51	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00138	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.01
240	584193.64	4139331.93	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00141	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.01
241	584200.70	4139326.36	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00143	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.01
242	584207.77	4139320.78	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00146	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.01
243	584214.84	4139315.21	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00148	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.01
244	584221.90	4139309.63	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00149	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.01
245	584178.02	4139355.72	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.01
246	584185.08	4139350.15	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00153	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.01
247	584192.15	4139344.57	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00157	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.01
248	584199.21	4139339.00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00159	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.01
249	584206.28	4139333.42	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00162	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.01
250	584213.35	4139327.85	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00163	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.01
251	584220.41	4139322.27	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.01
252	584227.48	4139316.70	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00166	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.01
253	584183.59	4139362.79	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00172	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.01
254	584190.66	4139357.21	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00176	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.01
255	584197.72	4139351.64	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00178	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.01
256	584204.79	4139346.06	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.01
257	584211.85	4139340.49	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00182	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.01
258	584218.92	4139334.91	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00183	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.01
259	584225.99	4139329.34	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00184	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.01
260	584233.05	4139323.77	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00185	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.01
261	584189.16	4139369.85	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00198	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.02
262	584196.23	4139364.28	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00201	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.02
263	584203.30	4139358.70	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00202	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.02
264	584210.36	4139353.13	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00204	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.02
265	584217.43	4139347.56	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00205	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.02
266	584224.49	4139341.98	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00205	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.02
267	584231.56	4139336.41	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00206	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.02
268	584238.63	4139330.83	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00206	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.02
269	584194.74	4139376.92	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00229	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.02
270	584201.80	4139371.34	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00230	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.02
271	584208.87	4139365.77	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00230	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.02
272	584215.94	4139360.20	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00231	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.02
273	584223.00	4139354.62	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00231	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00
274	584230.07	4139349.05	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00230	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00
275	584237.13	4139343.47	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00230	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00
276	584244.20	4139337.90	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00229	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00

Receptor No.	Receptor Coordinates UTM-X (m)	UTM-Y (m)	2023 Conc DPM	2024 Conc DPM	2025 Conc DPM	2026 Conc DPM	2027 Conc DPM	2028 Conc DPM	2029 Conc DPM	2030 Conc DPM	2031 Conc DPM	2023 Construct Risk	2024 Construct Risk	2025 Construct Risk	2026 Construct Risk	2027 Construct Risk	2028 Construct Risk	2029 Construct Risk	2030 Construct Risk	2031 Construct Risk	Total Risk	With MERV-13 Filtration 2026-2031 Total Cancer Risk (per million)
277	584155.72	4139327.46	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00084	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00
278	584162.78	4139321.88	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00089	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00
279	584169.85	4139316.31	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00093	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00
280	584176.92	4139310.73	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00097	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
281	584183.98	4139305.16	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
282	584191.05	4139299.59	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00103	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
283	584198.11	4139294.01	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00106	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
284	584205.18	4139288.44	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00108	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
285	584161.29	4139334.52	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00097	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
286	584168.36	4139328.95	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00102	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
287	584175.42	4139323.37	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00106	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
288	584182.49	4139317.80	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
289	584189.56	4139312.23	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00113	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
290	584196.62	4139306.65	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00116	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
291	584203.69	4139301.08	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00118	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
292	584210.75	4139295.50	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
293	584166.87	4139341.59	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00113	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
294	584173.93	4139336.01	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00117	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
295	584181.00	4139330.44	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00121	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
296	584188.06	4139324.87	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00124	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
297	584195.13	4139319.29	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00127	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
298	584202.20	4139313.72	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
299	584209.26	4139308.14	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00132	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
300	584216.33	4139302.57	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00134	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
301	584172.44	4139348.65	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
302	584258.09	4139291.88	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00168	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00
303	584265.06	4139286.19	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00168	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00
304	584272.03	4139280.50	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00167	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00
305	584279.01	4139274.80	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00167	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00
306	584285.98	4139269.11	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00166	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00
307	584292.95	4139263.42	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00
308	584299.92	4139257.73	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00163	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00
309	584306.89	4139252.04	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00162	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00
310	584256.81	4139304.54	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00186	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00
311	584263.78	4139298.85	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00185	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00
312	584270.76	4139293.16	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00184	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00
313	584277.73	4139287.47	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00183	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00
314	584284.70	4139281.78	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00182	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00
315	584291.67	4139276.08	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00
316	584298.64	4139270.39	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00179	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00
317	584305.61	4139264.70	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00177	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00
318	584312.58	4139259.01	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00
319	584262.50	4139311.52	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00205	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00
320	584269.48	4139305.82	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00203	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00
321	584276.45	4139300.13	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00202	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00
322	584283.42	4139294.44	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00
323	584290.39	4139288.75	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00199	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00
324	584297.36	4139283.06	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00197	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00
325	584304.33	4139277.36	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00
326	584311.30	4139271.67	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00192	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00
327	584268.20	4139318.49	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00226	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00
328	584275.17	4139312.79	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00224	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00
329	584282.14	4139307.10	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00222	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00
330	584289.11	4139301.41	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00220	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00
331	584296.08	4139295.72	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00217	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00
332	584303.05	4139290.03	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00215	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00
333	584310.02	4139284.34	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00212	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00
334	584317.00	4139278.64	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00209	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00
335	584280.86	4139319.77	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00247	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00
336	584287.83	4139314.07	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00244	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00
337	584294.80	4139308.38	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00241	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00
338	584301.77	4139302.69	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00238	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00
339	584308.75	4139297.00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00234	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00
340	584315.72	4139291.31	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00231	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00
341	584322.69	4139285.62	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00227	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00
342	584300.49	4139315.35	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00265	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00
343	584307.47	4139309.66	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00261	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00
344	584314.44	4139303.97	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00257	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00
345	584321.41	4139298.28	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00252	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00
346	584318.63	4139308.69	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00274	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00
347	584327.10	4139305.25	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00276	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00
348	584228.35	4139269.69	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00

Receptor No.	Receptor Coordinates UTM-X (m)	UTM-Y (m)	2023 Conc DPM	2024 Conc DPM	2025 Conc DPM	2026 Conc DPM	2027 Conc DPM	2028 Conc DPM	2029 Conc DPM	2030 Conc DPM	2031 Conc DPM	2023 Construct Risk	2024 Construct Risk	2025 Construct Risk	2026 Construct Risk	2027 Construct Risk	2028 Construct Risk	2029 Construct Risk	2030 Construct Risk	2031 Construct Risk	Total Risk	With MERV-13 Filtration 2026-2031 Total Cancer Risk (per million)
349	584235.32	4139263.99	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00116	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
350	584242.30	4139258.30	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00117	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
351	584249.27	4139252.61	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00118	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
352	584256.24	4139246.92	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00118	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
353	584263.21	4139241.23	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00119	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
354	584270.18	4139235.53	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00119	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
355	584277.15	4139229.84	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00119	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
356	584284.12	4139224.15	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00119	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
357	584234.04	4139276.66	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00126	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
358	584241.02	4139270.97	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00127	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
359	584247.99	4139265.27	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00128	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
360	584254.96	4139259.58	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00128	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
361	584261.93	4139253.89	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00129	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
362	584268.90	4139248.20	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00129	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
363	584275.87	4139242.51	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00129	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
364	584282.85	4139236.81	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00129	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
365	584289.82	4139231.12	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00128	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
366	584239.74	4139283.63	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00139	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00
367	584246.71	4139277.94	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00
368	584253.68	4139272.25	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00
369	584260.65	4139266.55	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00
370	584267.62	4139260.86	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00
371	584274.59	4139255.17	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00
372	584281.57	4139249.48	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00
373	584288.54	4139243.79	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00139	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00
374	584295.51	4139238.09	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00139	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00
375	584245.43	4139290.60	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00153	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00
376	584252.40	4139284.91	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00153	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00
377	584259.37	4139279.22	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00153	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00
378	584266.34	4139273.53	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00153	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00
379	584273.31	4139267.83	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00153	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00
380	584280.29	4139262.14	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00152	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00
381	584287.26	4139256.45	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00152	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00
382	584294.23	4139250.76	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00151	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00
383	584301.20	4139245.07	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00
384	584251.12	4139297.57	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00169	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00
		Maximum	0.0000	0.0000	0.0000	0.0584	0.0453	0.0264	0.0179	0.0034	0.0028	**0.00**	**0.0**	**0.0**	**9.6**	**7.4**	**0.7**	**0.5**	**0.1**	**0.1**	**18.27**	**5.482**

Google Middlefield - District Utilities Construction Impacts
Total PM2.5 Concentrations - Unmitigated
at On-Site Residential Receptors

Receptor	Receptor Group	Receptor Coordinates		Construction PM2.5 (µg/m^3) Total PM2.5 Concentrations (Fugitive + Exhaust) by Year									Maximum PM2.5 Conc.	With Use of MERV-13 Filtration
		UTM-X	UTM-Y											
No.	Name	(m)	(m)	2023	2024	2025	2026	2027	2028	2029	2030	2031	2026-2031	Maximum PM2.5
1	Res-R1	583791.7	4139222.6	0.00000	0.00000	0.00000	0.02583	0.01064	0.00608	0.00219	0.00012	0.00003	0.02583	0.008
2	Res-R1	583800.3	4139220.0	0.00000	0.00000	0.00000	0.02761	0.01147	0.00669	0.00242	0.00013	0.00003	0.02761	0.008
3	Res-R1	583808.9	4139217.4	0.00000	0.00000	0.00000	0.02958	0.01238	0.00737	0.00269	0.00013	0.00004	0.02958	0.009
4	Res-R1	583817.5	4139214.8	0.00000	0.00000	0.00000	0.03175	0.01339	0.00812	0.00297	0.00014	0.00004	0.03175	0.010
5	Res-R1	583826.1	4139212.2	0.00000	0.00000	0.00000	0.03412	0.01448	0.00894	0.00329	0.00015	0.00004	0.03412	0.010
6	Res-R1	583834.8	4139209.6	0.00000	0.00000	0.00000	0.0367	0.01567	0.00982	0.00362	0.00015	0.00004	0.03670	0.011
7	Res-R1	583785.7	4139233.8	0.00000	0.00000	0.00000	0.02514	0.01035	0.00581	0.00209	0.00012	0.00003	0.02514	0.008
8	Res-R1	583794.3	4139231.2	0.00000	0.00000	0.00000	0.02688	0.01117	0.00642	0.00232	0.00012	0.00003	0.02688	0.008
9	Res-R1	583802.9	4139228.6	0.00000	0.00000	0.00000	0.02881	0.01208	0.0071	0.00259	0.00013	0.00004	0.02881	0.009
10	Res-R1	583811.5	4139226.0	0.00000	0.00000	0.00000	0.03094	0.01309	0.00786	0.00288	0.00014	0.00004	0.03094	0.009
11	Res-R1	583820.1	4139223.4	0.00000	0.00000	0.00000	0.0333	0.01421	0.00869	0.0032	0.00014	0.00004	0.03330	0.010
12	Res-R1	583828.7	4139220.8	0.00000	0.00000	0.00000	0.03587	0.01542	0.0096	0.00354	0.00015	0.00004	0.03587	0.011
13	Res-R1	583837.4	4139218.2	0.00000	0.00000	0.00000	0.03866	0.01672	0.01058	0.00392	0.00016	0.00004	0.03866	0.012
14	Res-R1	583846.0	4139215.6	0.00000	0.00000	0.00000	0.04167	0.01811	0.01162	0.00432	0.00016	0.00004	0.04167	0.013
15	Res-R1	583788.2	4139242.4	0.00000	0.00000	0.00000	0.02614	0.01085	0.00613	0.00222	0.00012	0.00003	0.02614	0.008
16	Res-R1	583796.9	4139239.8	0.00000	0.00000	0.00000	0.02803	0.01176	0.0068	0.00247	0.00013	0.00003	0.02803	0.008
17	Res-R1	583805.5	4139237.2	0.00000	0.00000	0.00000	0.03013	0.01277	0.00756	0.00277	0.00013	0.00004	0.03013	0.009
18	Res-R1	583814.1	4139234.6	0.00000	0.00000	0.00000	0.03245	0.01389	0.0084	0.00309	0.00014	0.00004	0.03245	0.010
19	Res-R1	583822.7	4139232.0	0.00000	0.00000	0.00000	0.03502	0.01512	0.00933	0.00345	0.00014	0.00004	0.03502	0.011
20	Res-R1	583831.3	4139229.4	0.00000	0.00000	0.00000	0.03783	0.01647	0.01034	0.00384	0.00015	0.00004	0.03783	0.011
21	Res-R1	583840.0	4139226.8	0.00000	0.00000	0.00000	0.04087	0.01792	0.01144	0.00426	0.00016	0.00004	0.04087	0.012
22	Res-R1	583848.6	4139224.2	0.00000	0.00000	0.00000	0.04413	0.01945	0.01259	0.00471	0.00017	0.00005	0.04413	0.013
23	Res-R1	583790.8	4139251.0	0.00000	0.00000	0.00000	0.02724	0.01139	0.00648	0.00235	0.00012	0.00003	0.02724	0.008
24	Res-R1	583799.5	4139248.4	0.00000	0.00000	0.00000	0.02929	0.0124	0.00722	0.00264	0.00013	0.00003	0.02929	0.009
25	Res-R1	583808.1	4139245.8	0.00000	0.00000	0.00000	0.03159	0.01352	0.00807	0.00297	0.00013	0.00004	0.03159	0.009
26	Res-R1	583816.7	4139243.2	0.00000	0.00000	0.00000	0.03414	0.01478	0.00901	0.00333	0.00014	0.00004	0.03414	0.010
27	Res-R1	583825.3	4139240.6	0.00000	0.00000	0.00000	0.03696	0.01616	0.01006	0.00374	0.00015	0.00004	0.03696	0.011
28	Res-R1	583833.9	4139238.1	0.00000	0.00000	0.00000	0.04004	0.01766	0.0112	0.00418	0.00015	0.00004	0.04004	0.012
29	Res-R1	583842.5	4139235.5	0.00000	0.00000	0.00000	0.04337	0.01927	0.01242	0.00466	0.00016	0.00004	0.04337	0.013
30	Res-R1	583851.2	4139232.9	0.00000	0.00000	0.00000	0.04692	0.02098	0.01371	0.00515	0.00017	0.00005	0.04692	0.014
31	Res-R1	583793.4	4139259.7	0.00000	0.00000	0.00000	0.02843	0.01199	0.00686	0.0025	0.00013	0.00003	0.02843	0.009
32	Res-R1	583802.1	4139257.1	0.00000	0.00000	0.00000	0.03068	0.01311	0.0077	0.00283	0.00013	0.00004	0.03068	0.009
33	Res-R1	583810.7	4139254.5	0.00000	0.00000	0.00000	0.0332	0.01437	0.00865	0.0032	0.00014	0.00004	0.03320	0.010
34	Res-R1	583819.3	4139251.9	0.00000	0.00000	0.00000	0.03602	0.01578	0.00971	0.00361	0.00014	0.00004	0.03602	0.011
35	Res-R1	583827.9	4139249.3	0.00000	0.00000	0.00000	0.03914	0.01733	0.0109	0.00407	0.00015	0.00004	0.03914	0.012
36	Res-R1	583836.5	4139246.7	0.00000	0.00000	0.00000	0.04254	0.01902	0.01218	0.00457	0.00016	0.00004	0.04254	0.013
37	Res-R1	583845.1	4139244.1	0.00000	0.00000	0.00000	0.04621	0.02083	0.01356	0.00511	0.00016	0.00004	0.04621	0.014
38	Res-R1	583853.8	4139241.5	0.00000	0.00000	0.00000	0.0501	0.02272	0.015	0.00567	0.00017	0.00005	0.05010	0.015
39	Res-R1	583796.0	4139268.3	0.00000	0.00000	0.00000	0.02973	0.01264	0.0073	0.00267	0.00013	0.00003	0.02973	0.009
40	Res-R1	583804.7	4139265.7	0.00000	0.00000	0.00000	0.03221	0.0139	0.00824	0.00304	0.00013	0.00004	0.03221	0.010
41	Res-R1	583813.3	4139263.1	0.00000	0.00000	0.00000	0.03501	0.01532	0.00931	0.00346	0.00014	0.00004	0.03501	0.011
42	Res-R1	583821.9	4139260.5	0.00000	0.00000	0.00000	0.03815	0.01691	0.01052	0.00393	0.00015	0.00004	0.03815	0.011
43	Res-R1	583830.5	4139257.9	0.00000	0.00000	0.00000	0.04162	0.01867	0.01186	0.00446	0.00015	0.00004	0.04162	0.012
44	Res-R1	583839.1	4139255.3	0.00000	0.00000	0.00000	0.0454	0.02058	0.01332	0.00503	0.00016	0.00004	0.04540	0.014
45	Res-R1	583847.7	4139252.7	0.00000	0.00000	0.00000	0.04947	0.02262	0.01488	0.00564	0.00017	0.00005	0.04947	0.015
46	Res-R1	583856.4	4139250.1	0.00000	0.00000	0.00000	0.05374	0.02473	0.01649	0.00626	0.00018	0.00005	0.05374	0.016
47	Res-R1	583798.6	4139276.9	0.00000	0.00000	0.00000	0.03116	0.01336	0.00778	0.00286	0.00013	0.00004	0.03116	0.009
48	Res-R1	583807.3	4139274.3	0.00000	0.00000	0.00000	0.03392	0.01478	0.00885	0.00328	0.00014	0.00004	0.03392	0.010
49	Res-R1	583815.9	4139271.7	0.00000	0.00000	0.00000	0.03705	0.01639	0.01007	0.00376	0.00014	0.00004	0.03705	0.011
50	Res-R1	583824.5	4139269.1	0.00000	0.00000	0.00000	0.04056	0.01821	0.01145	0.0043	0.00015	0.00004	0.04056	0.012
51	Res-R1	583833.1	4139266.5	0.00000	0.00000	0.00000	0.04446	0.02022	0.01299	0.00491	0.00015	0.00004	0.04446	0.013
52	Res-R1	583841.7	4139263.9	0.00000	0.00000	0.00000	0.04869	0.02239	0.01466	0.00556	0.00016	0.00004	0.04869	0.015
53	Res-R1	583850.3	4139261.3	0.00000	0.00000	0.00000	0.0532	0.02468	0.01642	0.00625	0.00017	0.00005	0.05320	0.016
54	Res-R1	583859.0	4139258.7	0.00000	0.00000	0.00000	0.05791	0.02704	0.01823	0.00696	0.00018	0.00005	0.05791	0.017
55	Res-R1	583780.5	4139216.6	0.00000	0.00000	0.00000	0.02335	0.00946	0.00527	0.00188	0.00012	0.00003	0.02335	0.007
56	Res-R1	583789.1	4139214.0	0.00000	0.00000	0.00000	0.02486	0.01015	0.00577	0.00207	0.00012	0.00003	0.02486	0.007
57	Res-R1	583797.7	4139211.4	0.00000	0.00000	0.00000	0.02652	0.01091	0.00633	0.00228	0.00013	0.00003	0.02652	0.008
58	Res-R1	583806.3	4139208.8	0.00000	0.00000	0.00000	0.02835	0.01174	0.00695	0.00252	0.00013	0.00004	0.02835	0.009
59	Res-R1	583814.9	4139206.2	0.00000	0.00000	0.00000	0.03036	0.01266	0.00762	0.00277	0.00014	0.00004	0.03036	0.009
60	Res-R1	583823.5	4139203.6	0.00000	0.00000	0.00000	0.03256	0.01365	0.00836	0.00306	0.00014	0.00004	0.03256	0.010
61	Res-R1	583783.1	4139225.2	0.00000	0.00000	0.00000	0.02421	0.00989	0.00553	0.00198	0.00012	0.00003	0.02421	0.007
62	Res-R2	583804.8	4139304.1	0.00000	0.00000	0.00000	0.03642	0.01604	0.00963	0.00359	0.00014	0.00004	0.03642	0.011
63	Res-R2	583882.7	4139281.7	0.00000	0.00000	0.00000	0.08883	0.0437	0.03095	0.01201	0.00021	0.00006	0.08883	0.027
64	Res-R2	583831.0	4139362.2	0.00000	0.00000	0.00000	0.07913	0.03991	0.02798	0.01087	0.00018	0.00005	0.07913	0.024
65	Res-R2	583839.6	4139359.7	0.00000	0.00000	0.00000	0.09803	0.05089	0.03675	0.01436	0.00019	0.00005	0.09803	0.029
66	Res-R2	583848.3	4139357.2	0.00000	0.00000	0.00000	0.11572	0.06109	0.04487	0.0176	0.00019	0.00005	0.11572	0.035
67	Res-R2	583856.9	4139354.7	0.00000	0.00000	0.00000	0.13149	0.07005	0.05197	0.02044	0.0002	0.00005	0.13149	0.039
68	Res-R2	583865.6	4139352.2	0.00000	0.00000	0.00000	0.1455	0.07783	0.0581	0.02289	0.00021	0.00005	0.14550	0.044
69	Res-R2	583874.2	4139349.7	0.00000	0.00000	0.00000	0.15793	0.08453	0.06333	0.02497	0.00022	0.00006	0.15793	0.047
70	Res-R2	583882.9	4139347.2	0.00000	0.00000	0.00000	0.1689	0.09023	0.06773	0.02672	0.00023	0.00006	0.16890	0.051
71	Res-R2	583891.5	4139344.7	0.00000	0.00000	0.00000	0.17851	0.09503	0.07137	0.02817	0.00024	0.00006	0.17851	0.054
72	Res-R2	583900.2	4139342.2	0.00000	0.00000	0.00000	0.18669	0.09893	0.07426	0.0293	0.00025	0.00007	0.18669	0.056
73	Res-R2	583824.8	4139373.3	0.00000	0.00000	0.00000	0.07341	0.03647	0.02514	0.0097	0.00018	0.00005	0.07341	0.022
74	Res-R2	583833.5	4139370.8	0.00000	0.00000	0.00000	0.10034	0.0522	0.03771	0.01466	0.00018	0.00005	0.10034	0.030
75	Res-R2	583842.1	4139368.3	0.00000	0.00000	0.00000	0.12444	0.06624	0.04893	0.01912	0.00019	0.00005	0.12444	0.037
76	Res-R2	583850.8	4139365.8	0.00000	0.00000	0.00000	0.14441	0.07776	0.05811	0.02278	0.0002	0.00005	0.14441	0.043
77	Res-R2	583859.4	4139363.3	0.00000	0.00000	0.00000	0.16129	0.08732	0.06569	0.0258	0.00021	0.00005	0.16129	0.048
78	Res-R2	583868.1	4139360.8	0.00000	0.00000	0.00000	0.17591	0.09539	0.07204	0.02834	0.00021	0.00006	0.17591	0.053
79	Res-R2	583876.7	4139358.3	0.00000	0.00000	0.00000	0.18875	0.10224	0.07737	0.03046	0.00022	0.00006	0.18875	0.057
80	Res-R2	583885.4	4139355.8	0.00000	0.00000	0.00000	0.19996	0.10797	0.08177	0.03222	0.00023	0.00006	0.19996	0.060
81	Res-R2	583894.0	4139353.3	0.00000	0.00000	0.00000	0.20971	0.11274	0.08537	0.03364	0.00025	0.00006	0.20971	0.063
82	Res-R2	583902.6	4139350.8	0.00000	0.00000	0.00000	0.21786	0.11654	0.08815	0.03474	0.00026	0.00007	0.21786	0.065
83	Res-R2	583807.3	4139312.8	0.00000	0.00000	0.00000	0.03855	0.01714	0.01042	0.0039	0.00015	0.00004	0.03855	0.012
84	Res-R2	583816.0	4139310.3	0.00000	0.00000	0.00000	0.04319	0.01966	0.01235	0.00467	0.00015	0.00004	0.04319	0.013
85	Res-R2	583824.6	4139307.8	0.00000	0.00000	0.00000	0.04863	0.02264	0.01465	0.00558	0.00016	0.00004	0.04863	0.015
86	Res-R2	583833.3	4139305.3	0.00000	0.00000	0.00000	0.05485	0.02605	0.0173	0.00663	0.00016	0.00004	0.05485	0.016
87	Res-R2	583841.9	4139302.8	0.00000	0.00000	0.00000	0.0617	0.0298	0.02022	0.00779	0.00017	0.00005	0.06170	0.019
88	Res-R2	583813.5	4139301.6	0.00000	0.00000	0.00000	0.04045	0.0182	0.01128	0.00424	0.00015	0.00004	0.04045	0.012
89	Res-R2	583850.6	4139300.3	0.00000	0.00000	0.00000	0.06897	0.03375	0.0233	0.00901	0.00018	0.00005	0.06897	0.021
90	Res-R2	583859.2	4139297.8	0.00000	0.00000	0.00000	0.0764	0.03773	0.0264	0.01024	0.00019	0.00005	0.07640	0.023
91	Res-R2	583867.9	4139295.3	0.00000	0.00000	0.00000	0.08376	0.04162	0.02941	0.01143	0.0002	0.00005	0.08376	0.025
92	Res-R2	583876.5	4139292.8	0.00000	0.00000	0.00000	0.09086	0.04527	0.03222	0.01254	0.00021	0.00006	0.09086	0.027
93	Res-R2	583885.2	4139290.3	0.00000	0.00000	0.00000	0.09753	0.0486	0.03475	0.01353	0.00022	0.00006	0.09753	0.029

Receptor No.	Receptor Group Name	Receptor Coordinates UTM-X (m)	UTM-Y (m)	Construction PM2.5 (µg/m^3) Total PM2.5 Concentrations (Fugitive + Exhaust) by Year 2023	2024	2025	2026	2027	2028	2029	2030	2031	Maximum PM2.5 Conc. 2026-2031	With Use of MERV-13 Filtration Maximum PM2.5
94	Res-R2	583809.8	4139321.4	0.00000	0.00000	0.00000	0.04096	0.0184	0.01133	0.00426	0.00015	0.00004	0.04096	0.012
95	Res-R2	583822.1	4139299.1	0.00000	0.00000	0.00000	0.04514	0.02073	0.01322	0.00501	0.00015	0.00004	0.04514	0.014
96	Res-R2	583818.5	4139318.9	0.00000	0.00000	0.00000	0.04636	0.02137	0.01362	0.00517	0.00016	0.00004	0.04636	0.014
97	Res-R2	583827.1	4139316.4	0.00000	0.00000	0.00000	0.05276	0.02491	0.01638	0.00627	0.00016	0.00004	0.05276	0.016
98	Res-R2	583835.8	4139313.9	0.00000	0.00000	0.00000	0.06005	0.02896	0.01954	0.00753	0.00017	0.00004	0.06005	0.018
99	Res-R2	583844.4	4139311.4	0.00000	0.00000	0.00000	0.06803	0.03337	0.02299	0.0089	0.00017	0.00005	0.06803	0.020
100	Res-R2	583853.1	4139308.9	0.00000	0.00000	0.00000	0.07635	0.03794	0.02656	0.01032	0.00018	0.00005	0.07635	0.023
101	Res-R2	583861.7	4139306.4	0.00000	0.00000	0.00000	0.08468	0.04244	0.03007	0.01171	0.00019	0.00005	0.08468	0.025
102	Res-R2	583870.4	4139303.9	0.00000	0.00000	0.00000	0.09278	0.04673	0.0334	0.01303	0.0002	0.00005	0.09278	0.028
103	Res-R2	583879.0	4139301.4	0.00000	0.00000	0.00000	0.10042	0.05069	0.03644	0.01423	0.00021	0.00006	0.10042	0.030
104	Res-R2	583887.7	4139298.9	0.00000	0.00000	0.00000	0.10747	0.0542	0.03911	0.01528	0.00022	0.00006	0.10747	0.032
105	Res-R2	583830.8	4139296.6	0.00000	0.00000	0.00000	0.05048	0.02363	0.01546	0.0059	0.00016	0.00004	0.05048	0.015
106	Res-R2	583812.3	4139330.1	0.00000	0.00000	0.00000	0.04369	0.01985	0.01239	0.00468	0.00015	0.00004	0.04369	0.013
107	Res-R2	583821.0	4139327.6	0.00000	0.00000	0.00000	0.05008	0.0234	0.01515	0.00578	0.00016	0.00004	0.05008	0.015
108	Res-R2	583829.6	4139325.1	0.00000	0.00000	0.00000	0.05771	0.02768	0.0185	0.00712	0.00017	0.00004	0.05771	0.017
109	Res-R2	583838.3	4139322.6	0.00000	0.00000	0.00000	0.06636	0.03253	0.02231	0.00863	0.00017	0.00005	0.06636	0.020
110	Res-R2	583846.9	4139320.1	0.00000	0.00000	0.00000	0.07567	0.03773	0.02639	0.01026	0.00018	0.00005	0.07567	0.023
111	Res-R2	583855.6	4139317.6	0.00000	0.00000	0.00000	0.08516	0.04297	0.0305	0.0119	0.00019	0.00005	0.08516	0.026
112	Res-R2	583864.2	4139315.1	0.00000	0.00000	0.00000	0.09445	0.04802	0.03444	0.01346	0.0002	0.00005	0.09445	0.028
113	Res-R2	583839.4	4139294.2	0.00000	0.00000	0.00000	0.0564	0.02683	0.01794	0.00688	0.00017	0.00004	0.05640	0.017
114	Res-R2	583872.9	4139312.6	0.00000	0.00000	0.00000	0.10327	0.05271	0.03808	0.01491	0.0002	0.00005	0.10327	0.031
115	Res-R2	583881.5	4139310.1	0.00000	0.00000	0.00000	0.11144	0.05693	0.04133	0.01619	0.00022	0.00006	0.11144	0.033
116	Res-R2	583890.2	4139307.6	0.00000	0.00000	0.00000	0.11883	0.06062	0.04412	0.01729	0.00023	0.00006	0.11883	0.036
117	Res-R2	583814.8	4139338.7	0.00000	0.00000	0.00000	0.04685	0.02154	0.01365	0.00518	0.00016	0.00004	0.04685	0.014
118	Res-R2	583823.5	4139336.2	0.00000	0.00000	0.00000	0.05455	0.02588	0.01704	0.00654	0.00016	0.00004	0.05455	0.016
119	Res-R2	583832.1	4139333.7	0.00000	0.00000	0.00000	0.06381	0.03112	0.02117	0.00818	0.00017	0.00005	0.06381	0.019
120	Res-R2	583848.1	4139291.7	0.00000	0.00000	0.00000	0.06277	0.03025	0.0206	0.00793	0.00017	0.00005	0.06277	0.019
121	Res-R2	583840.8	4139331.2	0.00000	0.00000	0.00000	0.07417	0.03699	0.02579	0.01003	0.00018	0.00005	0.07417	0.022
122	Res-R2	583849.4	4139328.7	0.00000	0.00000	0.00000	0.08501	0.04309	0.0306	0.01195	0.00018	0.00005	0.08501	0.026
123	Res-R2	583858.1	4139326.2	0.00000	0.00000	0.00000	0.09573	0.04905	0.03529	0.01381	0.00019	0.00005	0.09573	0.029
124	Res-R2	583866.7	4139323.7	0.00000	0.00000	0.00000	0.10597	0.05463	0.03965	0.01555	0.0002	0.00005	0.10597	0.032
125	Res-R2	583875.4	4139321.2	0.00000	0.00000	0.00000	0.11549	0.05968	0.04357	0.01711	0.00021	0.00006	0.11549	0.035
126	Res-R2	583884.0	4139318.7	0.00000	0.00000	0.00000	0.12412	0.06414	0.04699	0.01846	0.00022	0.00006	0.12412	0.037
127	Res-R2	583892.7	4139316.2	0.00000	0.00000	0.00000	0.13181	0.06794	0.04987	0.01959	0.00023	0.00006	0.13181	0.040
128	Res-R2	583856.7	4139289.2	0.00000	0.00000	0.00000	0.06938	0.03377	0.02333	0.00901	0.00018	0.00005	0.06938	0.021
129	Res-R2	583817.3	4139347.4	0.00000	0.00000	0.00000	0.05059	0.02358	0.01517	0.00579	0.00016	0.00004	0.05059	0.015
130	Res-R2	583826.0	4139344.9	0.00000	0.00000	0.00000	0.06014	0.02902	0.01946	0.0075	0.00017	0.00004	0.06014	0.018
131	Res-R2	583834.6	4139342.4	0.00000	0.00000	0.00000	0.07159	0.03557	0.02464	0.00957	0.00017	0.00005	0.07159	0.021
132	Res-R2	583843.3	4139339.9	0.00000	0.00000	0.00000	0.08408	0.0427	0.03029	0.01183	0.00018	0.00005	0.08408	0.025
133	Res-R2	583851.9	4139337.4	0.00000	0.00000	0.00000	0.09662	0.0498	0.03591	0.01407	0.00019	0.00005	0.09662	0.029
134	Res-R2	583860.6	4139334.9	0.00000	0.00000	0.00000	0.10859	0.05647	0.04115	0.01616	0.0002	0.00005	0.10859	0.033
135	Res-R2	583869.2	4139332.4	0.00000	0.00000	0.00000	0.11971	0.06252	0.04589	0.01805	0.00021	0.00005	0.11971	0.036
136	Res-R2	583877.9	4139329.9	0.00000	0.00000	0.00000	0.12982	0.06788	0.05005	0.0197	0.00022	0.00006	0.12982	0.039
137	Res-R2	583886.5	4139327.4	0.00000	0.00000	0.00000	0.13886	0.07251	0.05359	0.0211	0.00023	0.00006	0.13886	0.042
138	Res-R2	583865.4	4139286.7	0.00000	0.00000	0.00000	0.07603	0.03725	0.02602	0.01007	0.00019	0.00005	0.07603	0.023
139	Res-R2	583895.2	4139324.9	0.00000	0.00000	0.00000	0.14678	0.0764	0.05651	0.02225	0.00024	0.00006	0.14678	0.044
140	Res-R2	583819.8	4139356.0	0.00000	0.00000	0.00000	0.05526	0.02616	0.01714	0.00657	0.00017	0.00004	0.05526	0.017
141	Res-R2	583828.5	4139353.5	0.00000	0.00000	0.00000	0.06764	0.03329	0.02279	0.00882	0.00017	0.00005	0.06764	0.020
142	Res-R2	583837.1	4139351.0	0.00000	0.00000	0.00000	0.0822	0.0417	0.02947	0.01149	0.00018	0.00005	0.08220	0.025
143	Res-R2	583845.8	4139348.5	0.00000	0.00000	0.00000	0.0972	0.05032	0.03632	0.01423	0.00019	0.00005	0.09720	0.029
144	Res-R2	583854.4	4139346.0	0.00000	0.00000	0.00000	0.11147	0.05842	0.04274	0.01679	0.00019	0.00005	0.11147	0.033
145	Res-R2	583874.0	4139284.2	0.00000	0.00000	0.00000	0.08257	0.04059	0.02859	0.01108	0.0002	0.00005	0.08257	0.025
146	Res-R2	583863.1	4139343.5	0.00000	0.00000	0.00000	0.12456	0.06571	0.04848	0.01908	0.0002	0.00005	0.12456	0.037
147	Res-R2	583871.7	4139341.0	0.00000	0.00000	0.00000	0.13641	0.07214	0.05351	0.02109	0.00021	0.00006	0.13641	0.041
148	Res-R2	583880.4	4139338.5	0.00000	0.00000	0.00000	0.14701	0.07772	0.05783	0.0228	0.00022	0.00006	0.14701	0.044
149	Res-R2	583889.0	4139336.0	0.00000	0.00000	0.00000	0.15641	0.08248	0.06146	0.02424	0.00023	0.00006	0.15641	0.047
150	Res-R2	583897.7	4139333.5	0.00000	0.00000	0.00000	0.16449	0.0864	0.06438	0.02539	0.00024	0.00006	0.16449	0.049
151	Res-R2	583822.3	4139364.7	0.00000	0.00000	0.00000	0.0618	0.02984	0.01996	0.00768	0.00017	0.00005	0.06180	0.019
152	Res-R6	584263.0	4139130.3	0.00000	0.00000	0.00000	1.47691	0.56154	0.12507	0.05012	0.00609	0.00141	1.47691	0.443
153	Res-R6	584270.0	4139136.0	0.00000	0.00000	0.00000	1.63178	0.58644	0.13441	0.05521	0.00659	0.00151	1.63178	0.490
154	Res-R6	584276.9	4139141.8	0.00000	0.00000	0.00000	1.8035	0.6055	0.14418	0.06085	0.00712	0.00162	1.80350	0.541
155	Res-R6	584283.9	4139147.5	0.00000	0.00000	0.00000	1.99015	0.61798	0.15431	0.06699	0.00769	0.00173	1.99015	0.597
156	Res-R6	584257.3	4139137.3	0.00000	0.00000	0.00000	1.50308	0.59269	0.12796	0.05117	0.00613	0.00141	1.50308	0.451
157	Res-R6	584264.2	4139143.0	0.00000	0.00000	0.00000	1.66906	0.62336	0.13806	0.05663	0.00665	0.00152	1.66906	0.501
158	Res-R6	584271.2	4139148.7	0.00000	0.00000	0.00000	1.85709	0.64775	0.14878	0.06284	0.00721	0.00163	1.85709	0.557
159	Res-R6	584278.1	4139154.4	0.00000	0.00000	0.00000	2.06778	0.66495	0.16012	0.06984	0.00782	0.00174	2.06778	0.620
160	Res-R6	584251.6	4139144.2	0.00000	0.00000	0.00000	1.52488	0.62478	0.13071	0.05205	0.00617	0.00142	1.52488	0.457
161	Res-R6	584258.5	4139150.0	0.00000	0.00000	0.00000	1.70014	0.66212	0.14155	0.05783	0.0067	0.00152	1.70014	0.510
162	Res-R6	584265.5	4139155.7	0.00000	0.00000	0.00000	1.90177	0.69288	0.15317	0.06452	0.00729	0.00164	1.90177	0.571
163	Res-R6	584272.4	4139161.4	0.00000	0.00000	0.00000	2.13388	0.71578	0.16569	0.07228	0.00794	0.00176	2.13388	0.640
164	Res-R6	584245.9	4139151.2	0.00000	0.00000	0.00000	1.54206	0.65735	0.13328	0.05277	0.00619	0.00142	1.54206	0.463
165	Res-R6	584252.8	4139156.9	0.00000	0.00000	0.00000	1.72525	0.70266	0.14488	0.05881	0.00674	0.00153	1.72525	0.518
166	Res-R6	584259.8	4139162.6	0.00000	0.00000	0.00000	1.93775	0.74106	0.15736	0.06587	0.00736	0.00165	1.93775	0.581
167	Res-R6	584266.7	4139168.3	0.00000	0.00000	0.00000	2.18619	0.7707	0.17093	0.07422	0.00803	0.00177	2.18619	0.656
168	Res-R6	584240.1	4139158.2	0.00000	0.00000	0.00000	1.55562	0.69012	0.1357	0.05336	0.0062	0.00142	1.55562	0.467
169	Res-R6	584247.1	4139163.9	0.00000	0.00000	0.00000	1.74452	0.74456	0.14802	0.05958	0.00677	0.00153	1.74452	0.523
170	Res-R6	584254.1	4139169.6	0.00000	0.00000	0.00000	1.96519	0.79221	0.16134	0.06691	0.00741	0.00165	1.96519	0.590
171	Res-R6	584261.0	4139175.3	0.00000	0.00000	0.00000	2.22518	0.83026	0.17588	0.07568	0.00811	0.00178	2.22518	0.668
172	Res-R6	584234.4	4139165.1	0.00000	0.00000	0.00000	1.56593	0.72236	0.13795	0.05383	0.0062	0.00141	1.56593	0.470
173	Res-R6	584241.4	4139170.8	0.00000	0.00000	0.00000	1.75962	0.78744	0.15103	0.0602	0.00679	0.00153	1.75962	0.528
174	Res-R6	584248.3	4139176.5	0.00000	0.00000	0.00000	1.98627	0.84637	0.1652	0.06771	0.00744	0.00166	1.98627	0.596
175	Res-R6	584255.3	4139182.2	0.00000	0.00000	0.00000	2.25355	0.89481	0.18063	0.07673	0.00817	0.00179	**2.25355**	**0.676**
176	Res-R3	584101.9	4139406.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00124	0.00124	0.000
177	Res-R3	584109.0	4139401.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00149	0.00149	0.000
178	Res-R3	584116.1	4139395.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00174	0.00174	0.001
179	Res-R3	584123.2	4139390.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00199	0.00199	0.001
180	Res-R3	584130.2	4139384.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00223	0.00223	0.001
181	Res-R3	584137.3	4139378.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00244	0.00244	0.001
182	Res-R3	584144.4	4139373.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00264	0.00264	0.001
183	Res-R3	584151.5	4139367.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00281	0.00281	0.001
184	Res-R3	584107.4	4139413.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00157	0.00157	0.000
185	Res-R3	584114.5	4139408.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00189	0.00189	0.001
186	Res-R3	584121.6	4139402.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0022	0.00220	0.001
187	Res-R3	584128.7	4139397.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00249	0.00249	0.001
188	Res-R3	584135.8	4139391.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00275	0.00275	0.001
189	Res-R3	584142.9	4139386.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00298	0.00298	0.001
190	Res-R3	584150.0	4139380.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00317	0.00317	0.001
191	Res-R3	584157.1	4139374.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00334	0.00334	0.001
192	Res-R3	584113.0	4139420.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00207	0.00207	0.001
193	Res-R3	584120.1	4139415.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00247	0.00247	0.001

Receptor No.	Receptor Group Name	Receptor Coordinates UTM-X (m)	UTM-Y (m)	Construction PM2.5 (µg/m^3) Total PM2.5 Concentrations (Fugitive + Exhaust) by Year 2023	2024	2025	2026	2027	2028	2029	2030	2031	Maximum PM2.5 Conc. 2026-2031	With Use of MERV-13 Filtration Maximum PM2.5
194	Res-R3	584127.2	4139409.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00283	0.00283	0.001
195	Res-R3	584134.2	4139404.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00314	0.00314	0.001
196	Res-R3	584141.3	4139398.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0034	0.00340	0.001
197	Res-R3	584148.4	4139393.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00363	0.00363	0.001
198	Res-R3	584155.5	4139387.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00381	0.00381	0.001
199	Res-R3	584162.6	4139382.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00397	0.00397	0.001
200	Res-R3	584118.5	4139427.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00287	0.00287	0.001
201	Res-R3	584125.6	4139422.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00332	0.00332	0.001
202	Res-R3	584132.7	4139416.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00368	0.00368	0.001
203	Res-R3	584139.8	4139411.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00398	0.00398	0.001
204	Res-R3	584146.9	4139405.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00422	0.00422	0.001
205	Res-R3	584154.0	4139400.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00442	0.00442	0.001
206	Res-R3	584161.1	4139394.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00458	0.00458	0.001
207	Res-R3	584168.1	4139389.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00472	0.00472	0.001
208	Res-R3	584124.1	4139435.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00418	0.00418	0.001
209	Res-R3	584131.2	4139429.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00457	0.00457	0.001
210	Res-R3	584138.2	4139423.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00486	0.00486	0.001
211	Res-R3	584145.3	4139418.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00509	0.00509	0.002
212	Res-R3	584152.4	4139412.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00527	0.00527	0.002
213	Res-R3	584159.5	4139407.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00541	0.00541	0.002
214	Res-R3	584166.6	4139401.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00552	0.00552	0.002
215	Res-R3	584173.7	4139396.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00561	0.00561	0.002
216	Res-R3	584092.3	4139379.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00083	0.00083	0.000
217	Res-R3	584099.4	4139374.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00096	0.00096	0.000
218	Res-R3	584106.5	4139368.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0011	0.00110	0.000
219	Res-R3	584113.6	4139363.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00124	0.00124	0.000
220	Res-R3	584120.7	4139357.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00139	0.00139	0.000
221	Res-R3	584127.8	4139352.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00154	0.00154	0.000
222	Res-R3	584134.9	4139346.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00168	0.00168	0.001
223	Res-R3	584097.9	4139386.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00099	0.00099	0.000
224	Res-R3	584105.0	4139381.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00115	0.00115	0.000
225	Res-R3	584112.1	4139375.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00132	0.00132	0.000
226	Res-R3	584119.2	4139370.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00149	0.00149	0.000
227	Res-R3	584126.2	4139364.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00167	0.00167	0.001
228	Res-R3	584133.3	4139359.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00183	0.00183	0.001
229	Res-R3	584140.4	4139353.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00199	0.00199	0.001
230	Res-R3	584098.2	4139397.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00106	0.00106	0.000
231	Res-R3	584103.4	4139394.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0012	0.00120	0.000
232	Res-R3	584110.5	4139388.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0014	0.00140	0.000
233	Res-R3	584117.6	4139382.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00161	0.00161	0.000
234	Res-R3	584124.7	4139377.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00182	0.00182	0.001
235	Res-R3	584131.8	4139371.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00201	0.00201	0.001
236	Res-R3	584138.9	4139366.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00219	0.00219	0.001
237	Res-R4	584146.0	4139360.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00236	0.00236	0.001
238	Res-R4	584179.5	4139343.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00315	0.00315	0.001
239	Res-R4	584186.6	4139337.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00323	0.00323	0.001
240	Res-R4	584193.6	4139331.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0033	0.00330	0.001
241	Res-R4	584200.7	4139326.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00337	0.00337	0.001
242	Res-R4	584207.8	4139320.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00342	0.00342	0.001
243	Res-R4	584214.8	4139315.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00346	0.00346	0.001
244	Res-R4	584221.9	4139309.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0035	0.00350	0.001
245	Res-R4	584178.0	4139355.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00353	0.00353	0.001
246	Res-R4	584185.1	4139350.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00361	0.00361	0.001
247	Res-R4	584192.1	4139344.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00369	0.00369	0.001
248	Res-R4	584199.2	4139339.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00375	0.00375	0.001
249	Res-R4	584206.3	4139333.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0038	0.00380	0.001
250	Res-R4	584213.3	4139327.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00384	0.00384	0.001
251	Res-R4	584220.4	4139322.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00388	0.00388	0.001
252	Res-R4	584227.5	4139316.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0039	0.00390	0.001
253	Res-R4	584183.6	4139362.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00407	0.00407	0.001
254	Res-R4	584190.7	4139357.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00414	0.00414	0.001
255	Res-R4	584197.7	4139351.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0042	0.00420	0.001
256	Res-R4	584204.8	4139346.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00425	0.00425	0.001
257	Res-R4	584211.9	4139340.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00429	0.00429	0.001
258	Res-R4	584218.9	4139334.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00432	0.00432	0.001
259	Res-R4	584226.0	4139329.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00434	0.00434	0.001
260	Res-R4	584233.1	4139323.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00435	0.00435	0.001
261	Res-R4	584189.2	4139369.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00469	0.00469	0.001
262	Res-R4	584196.2	4139364.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00475	0.00475	0.001
263	Res-R4	584203.3	4139358.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00479	0.00479	0.001
264	Res-R4	584210.4	4139353.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00482	0.00482	0.001
265	Res-R4	584217.4	4139347.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00484	0.00484	0.001
266	Res-R4	584224.5	4139342.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00485	0.00485	0.001
267	Res-R4	584231.6	4139336.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00485	0.00485	0.001
268	Res-R4	584238.6	4139330.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00485	0.00485	0.001
269	Res-R4	584194.7	4139376.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00541	0.00541	0.002
270	Res-R4	584201.8	4139371.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00544	0.00544	0.002
271	Res-R4	584208.9	4139365.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00545	0.00545	0.002
272	Res-R4	584215.9	4139360.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00546	0.00546	0.002
273	Res-R4	584223.0	4139354.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00546	0.00546	0.002
274	Res-R4	584230.1	4139349.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00545	0.00545	0.002
275	Res-R4	584237.1	4139343.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00543	0.00543	0.002
276	Res-R4	584244.2	4139337.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00541	0.00541	0.002
277	Res-R4	584155.7	4139327.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00197	0.00197	0.001
278	Res-R4	584162.8	4139321.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00207	0.00207	0.001
279	Res-R4	584169.9	4139316.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00217	0.00217	0.001
280	Res-R4	584176.9	4139310.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00225	0.00225	0.001
281	Res-R4	584184.0	4139305.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00233	0.00233	0.001
282	Res-R4	584191.0	4139299.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0024	0.00240	0.001
283	Res-R4	584198.1	4139294.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00247	0.00247	0.001
284	Res-R4	584205.2	4139288.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00253	0.00253	0.001
285	Res-R4	584161.3	4139334.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00227	0.00227	0.001
286	Res-R4	584168.4	4139328.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00238	0.00238	0.001
287	Res-R4	584175.4	4139323.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00248	0.00248	0.001
288	Res-R4	584182.5	4139317.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00256	0.00256	0.001
289	Res-R4	584189.6	4139312.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00264	0.00264	0.001
290	Res-R4	584196.6	4139306.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0027	0.00270	0.001
291	Res-R4	584203.7	4139301.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00276	0.00276	0.001
292	Res-R4	584210.8	4139295.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00282	0.00282	0.001
293	Res-R4	584166.9	4139341.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00263	0.00263	0.001

Receptor No.	Receptor Group Name	Receptor Coordinates UTM-X (m)	UTM-Y (m)	Construction PM2.5 (µg/m^3) Total PM2.5 Concentrations (Fugitive + Exhaust) by Year 2023	2024	2025	2026	2027	2028	2029	2030	2031	Maximum PM2.5 Conc. 2026-2031	With Use of MERV-13 Filtration Maximum PM2.5
294	Res-R4	584173.9	4139336.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00274	0.00274	0.001
295	Res-R4	584181.0	4139330.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00283	0.00283	0.001
296	Res-R4	584188.1	4139324.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00291	0.00291	0.001
297	Res-R4	584195.1	4139319.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00298	0.00298	0.001
298	Res-R4	584202.2	4139313.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00304	0.00304	0.001
299	Res-R4	584209.3	4139308.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00309	0.00309	0.001
300	Res-R4	584216.3	4139302.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00314	0.00314	0.001
301	Res-R5	584172.4	4139348.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00305	0.00305	0.001
302	Res-R5	584258.1	4139291.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00395	0.00395	0.001
303	Res-R5	584265.1	4139286.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00394	0.00394	0.001
304	Res-R5	584272.0	4139280.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00393	0.00393	0.001
305	Res-R5	584279.0	4139274.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00391	0.00391	0.001
306	Res-R5	584286.0	4139269.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00389	0.00389	0.001
307	Res-R5	584292.9	4139263.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00386	0.00386	0.001
308	Res-R5	584299.9	4139257.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00383	0.00383	0.001
309	Res-R5	584306.9	4139252.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0038	0.00380	0.001
310	Res-R5	584256.8	4139304.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00437	0.00437	0.001
311	Res-R5	584263.8	4139298.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00435	0.00435	0.001
312	Res-R5	584270.8	4139293.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00433	0.00433	0.001
313	Res-R5	584277.7	4139287.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0043	0.00430	0.001
314	Res-R5	584284.7	4139281.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00427	0.00427	0.001
315	Res-R5	584291.7	4139276.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00424	0.00424	0.001
316	Res-R5	584298.6	4139270.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0042	0.00420	0.001
317	Res-R5	584305.6	4139264.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00416	0.00416	0.001
318	Res-R5	584312.6	4139259.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00411	0.00411	0.001
319	Res-R5	584262.5	4139311.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00482	0.00482	0.001
320	Res-R5	584269.5	4139305.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00479	0.00479	0.001
321	Res-R5	584276.4	4139300.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00475	0.00475	0.001
322	Res-R5	584283.4	4139294.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00471	0.00471	0.001
323	Res-R5	584290.4	4139288.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00467	0.00467	0.001
324	Res-R5	584297.4	4139283.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00462	0.00462	0.001
325	Res-R5	584304.3	4139277.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00457	0.00457	0.001
326	Res-R5	584311.3	4139271.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00452	0.00452	0.001
327	Res-R5	584268.2	4139318.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00533	0.00533	0.002
328	Res-R5	584275.2	4139312.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00528	0.00528	0.002
329	Res-R5	584282.1	4139307.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00523	0.00523	0.002
330	Res-R5	584289.1	4139301.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00517	0.00517	0.002
331	Res-R5	584296.1	4139295.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00512	0.00512	0.002
332	Res-R5	584303.1	4139290.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00505	0.00505	0.002
333	Res-R5	584310.0	4139284.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00499	0.00499	0.001
334	Res-R5	584317.0	4139278.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00491	0.00491	0.001
335	Res-R5	584280.9	4139319.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00584	0.00584	0.002
336	Res-R5	584287.8	4139314.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00576	0.00576	0.002
337	Res-R5	584294.8	4139308.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00569	0.00569	0.002
338	Res-R5	584301.8	4139302.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00561	0.00561	0.002
339	Res-R5	584308.7	4139297.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00553	0.00553	0.002
340	Res-R5	584315.7	4139291.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00545	0.00545	0.002
341	Res-R5	584322.7	4139285.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00536	0.00536	0.002
342	Res-R5	584300.5	4139315.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00627	0.00627	0.002
343	Res-R5	584307.5	4139309.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00617	0.00617	0.002
344	Res-R5	584314.4	4139304.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00607	0.00607	0.002
345	Res-R5	584321.4	4139298.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00596	0.00596	0.002
346	Res-R5	584318.6	4139308.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00648	0.00648	0.002
347	Res-R5	584327.1	4139305.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00654	0.00654	0.002
348	Res-R5	584228.4	4139269.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00268	0.00268	0.001
349	Res-R5	584235.3	4139264.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0027	0.00270	0.001
350	Res-R5	584242.3	4139258.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00273	0.00273	0.001
351	Res-R5	584249.3	4139252.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00275	0.00275	0.001
352	Res-R5	584256.2	4139246.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00276	0.00276	0.001
353	Res-R5	584263.2	4139241.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00277	0.00277	0.001
354	Res-R5	584270.2	4139235.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00278	0.00278	0.001
355	Res-R5	584277.2	4139229.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00278	0.00278	0.001
356	Res-R5	584284.1	4139224.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00278	0.00278	0.001
357	Res-R5	584234.0	4139276.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00295	0.00295	0.001
358	Res-R5	584241.0	4139271.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00297	0.00297	0.001
359	Res-R5	584248.0	4139265.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00299	0.00299	0.001
360	Res-R5	584255.0	4139259.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.003	0.00300	0.001
361	Res-R5	584261.9	4139253.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00301	0.00301	0.001
362	Res-R5	584268.9	4139248.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00301	0.00301	0.001
363	Res-R5	584275.9	4139242.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00301	0.00301	0.001
364	Res-R5	584282.8	4139236.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00301	0.00301	0.001
365	Res-R5	584289.8	4139231.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.003	0.00300	0.001
366	Res-R5	584239.7	4139283.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00325	0.00325	0.001
367	Res-R5	584246.7	4139277.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00327	0.00327	0.001
368	Res-R5	584253.7	4139272.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00328	0.00328	0.001
369	Res-R5	584260.7	4139266.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00328	0.00328	0.001
370	Res-R5	584267.6	4139260.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00328	0.00328	0.001
371	Res-R5	584274.6	4139255.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00328	0.00328	0.001
372	Res-R5	584281.6	4139249.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00327	0.00327	0.001
373	Res-R5	584288.5	4139243.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00326	0.00326	0.001
374	Res-R5	584295.5	4139238.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00324	0.00324	0.001
375	Res-R5	584245.4	4139290.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00359	0.00359	0.001
376	Res-R5	584252.4	4139284.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00359	0.00359	0.001
377	Res-R5	584259.4	4139279.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00359	0.00359	0.001
378	Res-R5	584266.3	4139273.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00359	0.00359	0.001
379	Res-R5	584273.3	4139267.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00358	0.00358	0.001
380	Res-R5	584280.3	4139262.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00357	0.00357	0.001
381	Res-R5	584287.3	4139256.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00355	0.00355	0.001
382	Res-R5	584294.2	4139250.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00353	0.00353	0.001
383	Res-R5	584301.2	4139245.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00351	0.00351	0.001
384	Res-R5	584251.1	4139297.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00396	0.00396	0.001
			Maximum	**0.0000**	**0.0000**	**0.0000**	**2.2536**	**0.8948**	**0.1806**	**0.0767**	**0.0082**	**0.0065**	**2.2536**	**0.676**

Google Middlefield - District Utilities Construction Impacts
Total PM2.5 Concentrations - with Mitigation
at On-Site Residential Receptors

Receptor No.	Receptor Group Name	Receptor Coordinates UTM-X (m)	UTM-Y (m)	Construction PM2.5 (µg/m^3) Total PM2.5 Concentrations (Fugitive + Exhaust) by Year 2023	2024	2025	2026	2027	2028	2029	2030	2031	Maximum PM2.5 Conc. 2026-2031	With Use of MERV-13 Filtration Maximum PM2.5
1	Res-R1	583791.7	4139222.6	0.00000	0.00000	0.00000	0.00468	0.00238	0.00165	0.0009	0.0001	0.00003	0.00468	0.001
2	Res-R1	583800.3	4139220.0	0.00000	0.00000	0.00000	0.00502	0.00259	0.00183	0.001	0.0001	0.00003	0.00502	0.002
3	Res-R1	583808.9	4139217.4	0.00000	0.00000	0.00000	0.00539	0.00283	0.00203	0.0011	0.0001	0.00003	0.00539	0.002
4	Res-R1	583817.5	4139214.8	0.00000	0.00000	0.00000	0.0058	0.00308	0.00225	0.00121	0.00011	0.00003	0.00580	0.002
5	Res-R1	583826.1	4139212.2	0.00000	0.00000	0.00000	0.00624	0.00336	0.00248	0.00134	0.00011	0.00003	0.00624	0.002
6	Res-R1	583834.8	4139209.6	0.00000	0.00000	0.00000	0.00673	0.00367	0.00274	0.00147	0.00012	0.00003	0.00673	0.002
7	Res-R1	583785.7	4139233.8	0.00000	0.00000	0.00000	0.00456	0.00231	0.00157	0.00087	0.00009	0.00002	0.00456	0.001
8	Res-R1	583794.3	4139231.2	0.00000	0.00000	0.00000	0.00488	0.00251	0.00175	0.00096	0.0001	0.00003	0.00488	0.001
9	Res-R1	583802.9	4139228.6	0.00000	0.00000	0.00000	0.00525	0.00275	0.00195	0.00106	0.0001	0.00003	0.00525	0.002
10	Res-R1	583811.5	4139226.0	0.00000	0.00000	0.00000	0.00565	0.003	0.00217	0.00117	0.00011	0.00003	0.00565	0.002
11	Res-R1	583820.1	4139223.4	0.00000	0.00000	0.00000	0.00609	0.00329	0.00241	0.0013	0.00011	0.00003	0.00609	0.002
12	Res-R1	583828.7	4139220.8	0.00000	0.00000	0.00000	0.00658	0.0036	0.00268	0.00144	0.00012	0.00003	0.00658	0.002
13	Res-R1	583837.4	4139218.2	0.00000	0.00000	0.00000	0.00711	0.00394	0.00297	0.00158	0.00012	0.00003	0.00711	0.002
14	Res-R1	583846.0	4139215.6	0.00000	0.00000	0.00000	0.00768	0.0043	0.00328	0.00174	0.00013	0.00003	0.00768	0.002
15	Res-R1	583788.2	4139242.4	0.00000	0.00000	0.00000	0.00475	0.00243	0.00167	0.00091	0.00009	0.00003	0.00475	0.001
16	Res-R1	583796.9	4139239.8	0.00000	0.00000	0.00000	0.0051	0.00266	0.00186	0.00101	0.0001	0.00003	0.00510	0.002
17	Res-R1	583805.5	4139237.2	0.00000	0.00000	0.00000	0.0055	0.00292	0.00208	0.00113	0.0001	0.00003	0.00550	0.002
18	Res-R1	583814.1	4139234.6	0.00000	0.00000	0.00000	0.00594	0.0032	0.00233	0.00125	0.00011	0.00003	0.00594	0.002
19	Res-R1	583822.7	4139232.0	0.00000	0.00000	0.00000	0.00642	0.00352	0.00261	0.0014	0.00011	0.00003	0.00642	0.002
20	Res-R1	583831.3	4139229.4	0.00000	0.00000	0.00000	0.00696	0.00387	0.00291	0.00155	0.00012	0.00003	0.00696	0.002
21	Res-R1	583840.0	4139226.8	0.00000	0.00000	0.00000	0.00753	0.00425	0.00323	0.00172	0.00012	0.00003	0.00753	0.002
22	Res-R1	583848.6	4139224.2	0.00000	0.00000	0.00000	0.00815	0.00465	0.00358	0.00189	0.00013	0.00004	0.00815	0.002
23	Res-R1	583790.8	4139251.0	0.00000	0.00000	0.00000	0.00496	0.00256	0.00177	0.00097	0.0001	0.00003	0.00496	0.001
24	Res-R1	583799.5	4139248.4	0.00000	0.00000	0.00000	0.00534	0.00282	0.00199	0.00108	0.0001	0.00003	0.00534	0.002
25	Res-R1	583808.1	4139245.8	0.00000	0.00000	0.00000	0.00578	0.00311	0.00224	0.00121	0.0001	0.00003	0.00578	0.002
26	Res-R1	583816.7	4139243.2	0.00000	0.00000	0.00000	0.00626	0.00343	0.00251	0.00135	0.00011	0.00003	0.00626	0.002
27	Res-R1	583825.3	4139240.6	0.00000	0.00000	0.00000	0.0068	0.00379	0.00283	0.00151	0.00011	0.00003	0.00680	0.002
28	Res-R1	583833.9	4139238.1	0.00000	0.00000	0.00000	0.00738	0.00418	0.00317	0.00168	0.00012	0.00003	0.00738	0.002
29	Res-R1	583842.5	4139235.5	0.00000	0.00000	0.00000	0.00802	0.0046	0.00353	0.00187	0.00013	0.00003	0.00802	0.002
30	Res-R1	583851.2	4139232.9	0.00000	0.00000	0.00000	0.0087	0.00504	0.00392	0.00207	0.00013	0.00004	0.00870	0.003
31	Res-R1	583793.4	4139259.7	0.00000	0.00000	0.00000	0.00518	0.00271	0.00188	0.00103	0.0001	0.00003	0.00518	0.002
32	Res-R1	583802.1	4139257.1	0.00000	0.00000	0.00000	0.00561	0.00299	0.00213	0.00115	0.0001	0.00003	0.00561	0.002
33	Res-R1	583810.7	4139254.5	0.00000	0.00000	0.00000	0.00609	0.00332	0.00241	0.00129	0.00011	0.00003	0.00609	0.002
34	Res-R1	583819.3	4139251.9	0.00000	0.00000	0.00000	0.00662	0.00368	0.00273	0.00146	0.00011	0.00003	0.00662	0.002
35	Res-R1	583827.9	4139249.3	0.00000	0.00000	0.00000	0.00722	0.00409	0.00308	0.00164	0.00012	0.00003	0.00722	0.002
36	Res-R1	583836.5	4139246.7	0.00000	0.00000	0.00000	0.00787	0.00453	0.00346	0.00183	0.00012	0.00003	0.00787	0.002
37	Res-R1	583845.1	4139244.1	0.00000	0.00000	0.00000	0.00857	0.005	0.00388	0.00204	0.00013	0.00003	0.00857	0.003
38	Res-R1	583853.8	4139241.5	0.00000	0.00000	0.00000	0.00932	0.0055	0.00431	0.00227	0.00013	0.00004	0.00932	0.003
39	Res-R1	583796.0	4139268.3	0.00000	0.00000	0.00000	0.00543	0.00287	0.00201	0.00109	0.0001	0.00003	0.00543	0.002
40	Res-R1	583804.7	4139265.7	0.00000	0.00000	0.00000	0.0059	0.00319	0.00229	0.00123	0.0001	0.00003	0.00590	0.002
41	Res-R1	583813.3	4139263.1	0.00000	0.00000	0.00000	0.00644	0.00356	0.00261	0.0014	0.00011	0.00003	0.00644	0.002
42	Res-R1	583821.9	4139260.5	0.00000	0.00000	0.00000	0.00704	0.00397	0.00297	0.00158	0.00011	0.00003	0.00704	0.002
43	Res-R1	583830.5	4139257.9	0.00000	0.00000	0.00000	0.0077	0.00443	0.00337	0.00179	0.00012	0.00003	0.00770	0.002
44	Res-R1	583839.1	4139255.3	0.00000	0.00000	0.00000	0.00843	0.00494	0.00381	0.00201	0.00012	0.00003	0.00843	0.003
45	Res-R1	583847.7	4139252.7	0.00000	0.00000	0.00000	0.00921	0.00547	0.00428	0.00225	0.00013	0.00003	0.00921	0.003
46	Res-R1	583856.4	4139250.1	0.00000	0.00000	0.00000	0.01003	0.00603	0.00477	0.0025	0.00014	0.00004	0.01003	0.003
47	Res-R1	583798.6	4139276.9	0.00000	0.00000	0.00000	0.0057	0.00305	0.00215	0.00117	0.0001	0.00003	0.00570	0.002
48	Res-R1	583807.3	4139274.3	0.00000	0.00000	0.00000	0.00623	0.00341	0.00247	0.00133	0.00011	0.00003	0.00623	0.002
49	Res-R1	583815.9	4139271.7	0.00000	0.00000	0.00000	0.00683	0.00383	0.00284	0.00151	0.00011	0.00003	0.00683	0.002
50	Res-R1	583824.5	4139269.1	0.00000	0.00000	0.00000	0.0075	0.00431	0.00325	0.00172	0.00012	0.00003	0.00750	0.002
51	Res-R1	583833.1	4139266.5	0.00000	0.00000	0.00000	0.00825	0.00484	0.00371	0.00196	0.00012	0.00003	0.00825	0.002
52	Res-R1	583841.7	4139263.9	0.00000	0.00000	0.00000	0.00907	0.00541	0.00422	0.00222	0.00013	0.00003	0.00907	0.003
53	Res-R1	583850.3	4139261.3	0.00000	0.00000	0.00000	0.00994	0.00602	0.00475	0.00249	0.00013	0.00004	0.00994	0.003
54	Res-R1	583859.0	4139258.7	0.00000	0.00000	0.00000	0.01085	0.00664	0.0053	0.00277	0.00014	0.00004	0.01085	0.003
55	Res-R1	583780.5	4139216.6	0.00000	0.00000	0.00000	0.00422	0.00209	0.00141	0.00078	0.00009	0.00002	0.00422	0.001
56	Res-R1	583789.1	4139214.0	0.00000	0.00000	0.00000	0.0045	0.00227	0.00156	0.00086	0.00009	0.00003	0.00450	0.001
57	Res-R1	583797.7	4139211.4	0.00000	0.00000	0.00000	0.00481	0.00246	0.00172	0.00094	0.0001	0.00003	0.00481	0.001
58	Res-R1	583806.3	4139208.8	0.00000	0.00000	0.00000	0.00515	0.00267	0.0019	0.00103	0.0001	0.00003	0.00515	0.002
59	Res-R1	583814.9	4139206.2	0.00000	0.00000	0.00000	0.00553	0.0029	0.0021	0.00113	0.00011	0.00003	0.00553	0.002
60	Res-R1	583823.5	4139203.6	0.00000	0.00000	0.00000	0.00594	0.00315	0.00231	0.00125	0.00011	0.00003	0.00594	0.002
61	Res-R1	583783.1	4139225.2	0.00000	0.00000	0.00000	0.00438	0.0022	0.00149	0.00082	0.00009	0.00002	0.00438	0.001
62	Res-R2	583804.8	4139304.1	0.00000	0.00000	0.00000	0.00672	0.00372	0.0027	0.00145	0.00011	0.00003	0.00672	0.002
63	Res-R2	583882.7	4139281.7	0.00000	0.00000	0.00000	0.0169	0.01109	0.00921	0.00474	0.00017	0.00004	0.01690	0.005
64	Res-R2	583831.0	4139362.2	0.00000	0.00000	0.00000	0.015	0.00989	0.00814	0.00419	0.00014	0.00004	0.01500	0.005
65	Res-R2	583839.6	4139359.7	0.00000	0.00000	0.00000	0.0187	0.0128	0.01077	0.0055	0.00014	0.00004	0.01870	0.006
66	Res-R2	583848.3	4139357.2	0.00000	0.00000	0.00000	0.0222	0.01554	0.01325	0.00674	0.00015	0.00004	0.02220	0.007
67	Res-R2	583856.9	4139354.7	0.00000	0.00000	0.00000	0.02533	0.01796	0.01544	0.00784	0.00016	0.00004	0.02533	0.008
68	Res-R2	583865.6	4139352.2	0.00000	0.00000	0.00000	0.02809	0.02007	0.01734	0.00879	0.00016	0.00004	0.02809	0.008
69	Res-R2	583874.2	4139349.7	0.00000	0.00000	0.00000	0.03051	0.02188	0.01895	0.00961	0.00017	0.00004	0.03051	0.009
70	Res-R2	583882.9	4139347.2	0.00000	0.00000	0.00000	0.03261	0.02342	0.02031	0.01029	0.00018	0.00005	0.03261	0.010
71	Res-R2	583891.5	4139344.7	0.00000	0.00000	0.00000	0.03443	0.02469	0.02143	0.01086	0.00019	0.00005	0.03443	0.010
72	Res-R2	583900.2	4139342.2	0.00000	0.00000	0.00000	0.03595	0.02572	0.02231	0.01131	0.0002	0.00005	0.03595	0.011
73	Res-R2	583824.8	4139373.3	0.00000	0.00000	0.00000	0.01366	0.00876	0.00709	0.00366	0.00014	0.00004	0.01366	0.004
74	Res-R2	583833.5	4139370.8	0.00000	0.00000	0.00000	0.01865	0.01264	0.01059	0.00539	0.00014	0.00004	0.01865	0.006
75	Res-R2	583842.1	4139368.3	0.00000	0.00000	0.00000	0.02326	0.01626	0.01386	0.00702	0.00015	0.00004	0.02326	0.007
76	Res-R2	583850.8	4139365.8	0.00000	0.00000	0.00000	0.02718	0.01932	0.01664	0.00841	0.00016	0.00004	0.02718	0.008
77	Res-R2	583859.4	4139363.3	0.00000	0.00000	0.00000	0.03051	0.0219	0.01896	0.00958	0.00016	0.00004	0.03051	0.009
78	Res-R2	583868.1	4139360.8	0.00000	0.00000	0.00000	0.03338	0.02409	0.02093	0.01056	0.00017	0.00004	0.03338	0.010
79	Res-R2	583876.7	4139358.3	0.00000	0.00000	0.00000	0.03587	0.02594	0.02258	0.01139	0.00018	0.00005	0.03587	0.011
80	Res-R2	583885.4	4139355.8	0.00000	0.00000	0.00000	0.038	0.02748	0.02394	0.01208	0.00018	0.00005	0.03800	0.011
81	Res-R2	583894.0	4139353.3	0.00000	0.00000	0.00000	0.03983	0.02875	0.02505	0.01265	0.00019	0.00005	0.03983	0.012
82	Res-R2	583902.6	4139350.8	0.00000	0.00000	0.00000	0.04134	0.02975	0.0259	0.01308	0.0002	0.00005	0.04134	0.012
83	Res-R2	583807.3	4139312.8	0.00000	0.00000	0.00000	0.00713	0.004	0.00294	0.00157	0.00011	0.00003	0.00713	0.002
84	Res-R2	583816.0	4139310.3	0.00000	0.00000	0.00000	0.00804	0.00467	0.00352	0.00187	0.00012	0.00003	0.00804	0.002
85	Res-R2	583824.6	4139307.8	0.00000	0.00000	0.00000	0.0091	0.00546	0.00423	0.00222	0.00012	0.00003	0.00910	0.003
86	Res-R2	583833.3	4139305.3	0.00000	0.00000	0.00000	0.01032	0.00637	0.00504	0.00263	0.00013	0.00003	0.01032	0.003
87	Res-R2	583841.9	4139302.8	0.00000	0.00000	0.00000	0.01167	0.00738	0.00593	0.00308	0.00013	0.00004	0.01167	0.004
88	Res-R2	583813.5	4139301.6	0.00000	0.00000	0.00000	0.0075	0.00429	0.0032	0.0017	0.00012	0.00003	0.00750	0.002
89	Res-R2	583850.6	4139300.3	0.00000	0.00000	0.00000	0.0131	0.00844	0.00688	0.00356	0.00014	0.00004	0.01310	0.004
90	Res-R2	583859.2	4139297.8	0.00000	0.00000	0.00000	0.01455	0.00951	0.00783	0.00404	0.00015	0.00004	0.01455	0.004
91	Res-R2	583867.9	4139295.3	0.00000	0.00000	0.00000	0.01598	0.01056	0.00875	0.00451	0.00015	0.00004	0.01598	0.005
92	Res-R2	583876.5	4139292.8	0.00000	0.00000	0.00000	0.01735	0.01153	0.00961	0.00494	0.00016	0.00004	0.01735	0.005

Receptor No.	Receptor Group Name	Receptor Coordinates UTM-X (m)	UTM-Y (m)	Construction PM2.5 (µg/m^3) Total PM2.5 Concentrations (Fugitive + Exhaust) by Year 2023	2024	2025	2026	2027	2028	2029	2030	2031	Maximum PM2.5 Conc. 2026-2031	With Use of MERV-13 Filtration Maximum PM2.5
93	Res-R2	583885.2	4139290.3	0.00000	0.00000	0.00000	0.01863	0.01242	0.01039	0.00534	0.00017	0.00004	0.01863	0.006
94	Res-R2	583809.8	4139321.4	0.00000	0.00000	0.00000	0.00761	0.00433	0.00321	0.00171	0.00012	0.00003	0.00761	0.002
95	Res-R2	583822.1	4139299.1	0.00000	0.00000	0.00000	0.00841	0.00496	0.00379	0.002	0.00012	0.00003	0.00841	0.003
96	Res-R2	583818.5	4139318.9	0.00000	0.00000	0.00000	0.00866	0.00512	0.00391	0.00206	0.00012	0.00003	0.00866	0.003
97	Res-R2	583827.1	4139316.4	0.00000	0.00000	0.00000	0.00992	0.00607	0.00476	0.00249	0.00013	0.00003	0.00992	0.003
98	Res-R2	583835.8	4139313.9	0.00000	0.00000	0.00000	0.01136	0.00716	0.00573	0.00298	0.00013	0.00003	0.01136	0.003
99	Res-R2	583844.4	4139311.4	0.00000	0.00000	0.00000	0.01294	0.00835	0.00679	0.00352	0.00014	0.00004	0.01294	0.004
100	Res-R2	583853.1	4139308.9	0.00000	0.00000	0.00000	0.01458	0.00958	0.00789	0.00407	0.00014	0.00004	0.01458	0.004
101	Res-R2	583861.7	4139306.4	0.00000	0.00000	0.00000	0.01621	0.01079	0.00897	0.00462	0.00015	0.00004	0.01621	0.005
102	Res-R2	583870.4	4139303.9	0.00000	0.00000	0.00000	0.01779	0.01195	0.01	0.00513	0.00016	0.00004	0.01779	0.005
103	Res-R2	583879.0	4139301.4	0.00000	0.00000	0.00000	0.01926	0.013	0.01093	0.0056	0.00016	0.00004	0.01926	0.006
104	Res-R2	583887.7	4139298.9	0.00000	0.00000	0.00000	0.02061	0.01394	0.01174	0.00602	0.00017	0.00005	0.02061	0.006
105	Res-R2	583830.8	4139296.6	0.00000	0.00000	0.00000	0.00946	0.00573	0.00447	0.00234	0.00012	0.00003	0.00946	0.003
106	Res-R2	583812.3	4139330.1	0.00000	0.00000	0.00000	0.00814	0.00471	0.00354	0.00188	0.00012	0.00003	0.00814	0.002
107	Res-R2	583821.0	4139327.6	0.00000	0.00000	0.00000	0.0094	0.00566	0.00438	0.0023	0.00012	0.00003	0.00940	0.003
108	Res-R2	583829.6	4139325.1	0.00000	0.00000	0.00000	0.01091	0.00681	0.00541	0.00282	0.00013	0.00003	0.01091	0.003
109	Res-R2	583838.3	4139322.6	0.00000	0.00000	0.00000	0.01263	0.00812	0.00659	0.00341	0.00013	0.00004	0.01263	0.004
110	Res-R2	583846.9	4139320.1	0.00000	0.00000	0.00000	0.01448	0.00953	0.00785	0.00405	0.00014	0.00004	0.01448	0.004
111	Res-R2	583855.6	4139317.6	0.00000	0.00000	0.00000	0.01635	0.01095	0.00912	0.00469	0.00015	0.00004	0.01635	0.005
112	Res-R2	583864.2	4139315.1	0.00000	0.00000	0.00000	0.01817	0.01231	0.01034	0.0053	0.00015	0.00004	0.01817	0.005
113	Res-R2	583839.4	4139294.2	0.00000	0.00000	0.00000	0.01061	0.00658	0.00523	0.00273	0.00013	0.00003	0.01061	0.003
114	Res-R2	583872.9	4139312.6	0.00000	0.00000	0.00000	0.01989	0.01358	0.01146	0.00587	0.00016	0.00004	0.01989	0.006
115	Res-R2	583881.5	4139310.1	0.00000	0.00000	0.00000	0.02146	0.0147	0.01245	0.00637	0.00017	0.00004	0.02146	0.006
116	Res-R2	583890.2	4139307.6	0.00000	0.00000	0.00000	0.02287	0.01568	0.01331	0.00681	0.00018	0.00005	0.02287	0.007
117	Res-R2	583814.8	4139338.7	0.00000	0.00000	0.00000	0.00877	0.00515	0.00392	0.00207	0.00012	0.00003	0.00877	0.003
118	Res-R2	583823.5	4139336.2	0.00000	0.00000	0.00000	0.0103	0.00632	0.00497	0.0026	0.00013	0.00003	0.01030	0.003
119	Res-R2	583832.1	4139333.7	0.00000	0.00000	0.00000	0.01214	0.00774	0.00624	0.00324	0.00013	0.00004	0.01214	0.004
120	Res-R2	583848.1	4139291.7	0.00000	0.00000	0.00000	0.01186	0.0075	0.00604	0.00314	0.00014	0.00004	0.01186	0.004
121	Res-R2	583840.8	4139331.2	0.00000	0.00000	0.00000	0.0142	0.00933	0.00767	0.00396	0.00014	0.00004	0.01420	0.004
122	Res-R2	583849.4	4139328.7	0.00000	0.00000	0.00000	0.01636	0.01099	0.00916	0.00471	0.00014	0.00004	0.01636	0.005
123	Res-R2	583858.1	4139326.2	0.00000	0.00000	0.00000	0.01848	0.01261	0.01061	0.00544	0.00015	0.00004	0.01848	0.006
124	Res-R2	583866.7	4139323.7	0.00000	0.00000	0.00000	0.02049	0.01412	0.01196	0.00612	0.00016	0.00004	0.02049	0.006
125	Res-R2	583875.4	4139321.2	0.00000	0.00000	0.00000	0.02234	0.01548	0.01317	0.00673	0.00016	0.00004	0.02234	0.007
126	Res-R2	583884.0	4139318.7	0.00000	0.00000	0.00000	0.024	0.01667	0.01422	0.00726	0.00017	0.00005	0.02400	0.007
127	Res-R2	583892.7	4139316.2	0.00000	0.00000	0.00000	0.02546	0.01768	0.01509	0.0077	0.00018	0.00005	0.02546	0.008
128	Res-R2	583856.7	4139289.2	0.00000	0.00000	0.00000	0.01315	0.00844	0.00688	0.00356	0.00014	0.00004	0.01315	0.004
129	Res-R2	583817.3	4139347.4	0.00000	0.00000	0.00000	0.00951	0.00569	0.00439	0.00231	0.00013	0.00003	0.00951	0.003
130	Res-R2	583826.0	4139344.9	0.00000	0.00000	0.00000	0.01141	0.00716	0.00571	0.00297	0.00013	0.00003	0.01141	0.003
131	Res-R2	583834.6	4139342.4	0.00000	0.00000	0.00000	0.01369	0.00893	0.00731	0.00377	0.00014	0.00004	0.01369	0.004
132	Res-R2	583843.3	4139339.9	0.00000	0.00000	0.00000	0.01618	0.01087	0.00906	0.00465	0.00014	0.00004	0.01618	0.005
133	Res-R2	583851.9	4139337.4	0.00000	0.00000	0.00000	0.01868	0.0128	0.01079	0.00553	0.00015	0.00004	0.01868	0.006
134	Res-R2	583860.6	4139334.9	0.00000	0.00000	0.00000	0.02105	0.01461	0.01242	0.00634	0.00015	0.00004	0.02105	0.006
135	Res-R2	583869.2	4139332.4	0.00000	0.00000	0.00000	0.02323	0.01625	0.01388	0.00708	0.00016	0.00004	0.02323	0.007
136	Res-R2	583877.9	4139329.9	0.00000	0.00000	0.00000	0.02519	0.01769	0.01516	0.00773	0.00017	0.00004	0.02519	0.008
137	Res-R2	583886.5	4139327.4	0.00000	0.00000	0.00000	0.02692	0.01893	0.01625	0.00828	0.00018	0.00005	0.02692	0.008
138	Res-R2	583865.4	4139286.7	0.00000	0.00000	0.00000	0.01444	0.00937	0.0077	0.00398	0.00015	0.00004	0.01444	0.004
139	Res-R2	583895.2	4139324.9	0.00000	0.00000	0.00000	0.02841	0.01996	0.01714	0.00873	0.00019	0.00005	0.02841	0.009
140	Res-R2	583819.8	4139356.0	0.00000	0.00000	0.00000	0.01042	0.00636	0.00497	0.00261	0.00013	0.00003	0.01042	0.003
141	Res-R2	583828.5	4139353.5	0.00000	0.00000	0.00000	0.01287	0.00827	0.00669	0.00347	0.00014	0.00004	0.01287	0.004
142	Res-R2	583837.1	4139351.0	0.00000	0.00000	0.00000	0.01576	0.01053	0.00874	0.00449	0.00014	0.00004	0.01576	0.005
143	Res-R2	583845.8	4139348.5	0.00000	0.00000	0.00000	0.01875	0.01287	0.01085	0.00555	0.00015	0.00004	0.01875	0.006
144	Res-R2	583854.4	4139346.0	0.00000	0.00000	0.00000	0.02159	0.01507	0.01284	0.00655	0.00015	0.00004	0.02159	0.006
145	Res-R2	583874.0	4139284.2	0.00000	0.00000	0.00000	0.0157	0.01027	0.00849	0.00438	0.00016	0.00004	0.01570	0.005
146	Res-R2	583863.1	4139343.5	0.00000	0.00000	0.00000	0.02417	0.01705	0.01461	0.00744	0.00016	0.00004	0.02417	0.007
147	Res-R2	583871.7	4139341.0	0.00000	0.00000	0.00000	0.02649	0.01879	0.01617	0.00822	0.00017	0.00004	0.02649	0.008
148	Res-R2	583880.4	4139338.5	0.00000	0.00000	0.00000	0.02853	0.02029	0.0175	0.0089	0.00017	0.00005	0.02853	0.009
149	Res-R2	583889.0	4139336.0	0.00000	0.00000	0.00000	0.03032	0.02156	0.01861	0.00946	0.00018	0.00005	0.03032	0.009
150	Res-R2	583897.7	4139333.5	0.00000	0.00000	0.00000	0.03184	0.02259	0.01951	0.00992	0.00019	0.00005	0.03184	0.010
151	Res-R2	583822.3	4139364.7	0.00000	0.00000	0.00000	0.01165	0.00727	0.00577	0.00301	0.00014	0.00004	0.01165	0.003
152	Res-R6	584263.0	4139130.3	0.00000	0.00000	0.00000	0.27176	0.10807	0.03286	0.02467	0.00483	0.0011	0.27176	0.082
153	Res-R6	584270.0	4139136.0	0.00000	0.00000	0.00000	0.30056	0.11346	0.03566	0.02715	0.00522	0.00118	0.30056	0.090
154	Res-R6	584276.9	4139141.8	0.00000	0.00000	0.00000	0.33255	0.11793	0.03866	0.0299	0.00565	0.00127	0.33255	0.100
155	Res-R6	584283.9	4139147.5	0.00000	0.00000	0.00000	0.36738	0.12136	0.04184	0.0329	0.0061	0.00135	0.36738	0.110
156	Res-R6	584257.3	4139137.3	0.00000	0.00000	0.00000	0.27655	0.11373	0.03369	0.02512	0.00486	0.00111	0.27655	0.083
157	Res-R6	584264.2	4139143.0	0.00000	0.00000	0.00000	0.3074	0.12021	0.03672	0.02778	0.00527	0.00119	0.30740	0.092
158	Res-R6	584271.2	4139148.7	0.00000	0.00000	0.00000	0.34244	0.12574	0.04005	0.0308	0.00572	0.00127	0.34244	0.103
159	Res-R6	584278.1	4139154.4	0.00000	0.00000	0.00000	0.38175	0.13017	0.04367	0.03419	0.00621	0.00137	0.38175	0.115
160	Res-R6	584251.6	4139144.2	0.00000	0.00000	0.00000	0.28051	0.11952	0.03446	0.02551	0.00489	0.00111	0.28051	0.084
161	Res-R6	584258.5	4139150.0	0.00000	0.00000	0.00000	0.31308	0.12724	0.03771	0.02832	0.00532	0.00119	0.31308	0.094
162	Res-R6	584265.5	4139155.7	0.00000	0.00000	0.00000	0.35064	0.13399	0.04132	0.03155	0.00579	0.00128	0.35064	0.105
163	Res-R6	584272.4	4139161.4	0.00000	0.00000	0.00000	0.39395	0.13958	0.04535	0.03529	0.0063	0.00138	0.39395	0.118
164	Res-R6	584245.9	4139151.2	0.00000	0.00000	0.00000	0.28362	0.12537	0.03516	0.02582	0.0049	0.00111	0.28362	0.085
165	Res-R6	584252.8	4139156.9	0.00000	0.00000	0.00000	0.31764	0.13455	0.03862	0.02875	0.00535	0.0012	0.31764	0.095
166	Res-R6	584259.8	4139162.6	0.00000	0.00000	0.00000	0.35721	0.14272	0.04249	0.03216	0.00584	0.00129	0.35721	0.107
167	Res-R6	584266.7	4139168.3	0.00000	0.00000	0.00000	0.40354	0.14961	0.04686	0.03617	0.00638	0.00139	0.40354	0.121
168	Res-R6	584240.1	4139158.2	0.00000	0.00000	0.00000	0.28605	0.13122	0.03581	0.02606	0.00491	0.00111	0.28605	0.086
169	Res-R6	584247.1	4139163.9	0.00000	0.00000	0.00000	0.32112	0.14205	0.03946	0.02908	0.00537	0.0012	0.32112	0.096
170	Res-R6	584254.1	4139169.6	0.00000	0.00000	0.00000	0.36218	0.15191	0.04355	0.03262	0.00588	0.00129	0.36218	0.109
171	Res-R6	584261.0	4139175.3	0.00000	0.00000	0.00000	0.41062	0.16036	0.04819	0.03682	0.00644	0.00139	0.41062	0.123
172	Res-R6	584234.4	4139165.1	0.00000	0.00000	0.00000	0.28789	0.13696	0.0364	0.02626	0.00492	0.00111	0.28789	0.086
173	Res-R6	584241.4	4139170.8	0.00000	0.00000	0.00000	0.32381	0.1497	0.04023	0.02935	0.00539	0.0012	0.32381	0.097
174	Res-R6	584248.3	4139176.5	0.00000	0.00000	0.00000	0.36595	0.16159	0.04453	0.03298	0.00591	0.0013	0.36595	0.110
175	Res-R6	584255.3	4139182.2	0.00000	0.00000	0.00000	0.41571	0.17193	0.04941	0.03729	0.00649	0.0014	**0.41571**	**0.125**
176	Res-R3	584101.9	4139406.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00097	0.00097	0.000
177	Res-R3	584109.0	4139401.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00117	0.00117	0.000
178	Res-R3	584116.1	4139395.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00137	0.00137	0.000
179	Res-R3	584123.2	4139390.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00156	0.00156	0.000
180	Res-R3	584130.2	4139384.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00175	0.00175	0.001
181	Res-R3	584137.3	4139378.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00192	0.00192	0.001
182	Res-R3	584144.4	4139373.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00207	0.00207	0.001
183	Res-R3	584151.5	4139367.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00221	0.00221	0.001
184	Res-R3	584107.4	4139413.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00123	0.00123	0.000
185	Res-R3	584114.5	4139408.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00149	0.00149	0.000
186	Res-R3	584121.6	4139402.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00173	0.00173	0.001
187	Res-R3	584128.7	4139397.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00196	0.00196	0.001
188	Res-R3	584135.8	4139391.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00216	0.00216	0.001
189	Res-R3	584142.9	4139386.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00234	0.00234	0.001
190	Res-R3	584150.0	4139380.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0025	0.00250	0.001
191	Res-R3	584157.1	4139374.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00263	0.00263	0.001
192	Res-R3	584113.0	4139420.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00163	0.00163	0.000

Receptor No.	Receptor Group Name	Receptor Coordinates UTM-X (m)	UTM-Y (m)	Construction PM2.5 (µg/m^3) Total PM2.5 Concentrations (Fugitive + Exhaust) by Year 2023	2024	2025	2026	2027	2028	2029	2030	2031	Maximum PM2.5 Conc. 2026-2031	With Use of MERV-13 Filtration Maximum PM2.5
193	Res-R3	584120.1	4139415.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00194	0.00194	0.001
194	Res-R3	584127.2	4139409.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00223	0.00223	0.001
195	Res-R3	584134.2	4139404.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00247	0.00247	0.001
196	Res-R3	584141.3	4139398.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00268	0.00268	0.001
197	Res-R3	584148.4	4139393.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00286	0.00286	0.001
198	Res-R3	584155.5	4139387.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.003	0.00300	0.001
199	Res-R3	584162.6	4139382.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00313	0.00313	0.001
200	Res-R3	584118.5	4139427.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00224	0.00224	0.001
201	Res-R3	584125.6	4139422.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0026	0.00260	0.001
202	Res-R3	584132.7	4139416.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00289	0.00289	0.001
203	Res-R3	584139.8	4139411.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00313	0.00313	0.001
204	Res-R3	584146.9	4139405.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00333	0.00333	0.001
205	Res-R3	584154.0	4139400.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00348	0.00348	0.001
206	Res-R3	584161.1	4139394.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00361	0.00361	0.001
207	Res-R3	584168.1	4139389.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00372	0.00372	0.001
208	Res-R3	584124.1	4139435.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00322	0.00322	0.001
209	Res-R3	584131.2	4139429.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00354	0.00354	0.001
210	Res-R3	584138.2	4139423.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00379	0.00379	0.001
211	Res-R3	584145.3	4139418.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00398	0.00398	0.001
212	Res-R3	584152.4	4139412.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00413	0.00413	0.001
213	Res-R3	584159.5	4139407.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00425	0.00425	0.001
214	Res-R3	584166.6	4139401.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00435	0.00435	0.001
215	Res-R3	584173.7	4139396.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00442	0.00442	0.001
216	Res-R3	584092.3	4139379.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00065	0.00065	0.000
217	Res-R3	584099.4	4139374.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00075	0.00075	0.000
218	Res-R3	584106.5	4139368.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00086	0.00086	0.000
219	Res-R3	584113.6	4139363.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00097	0.00097	0.000
220	Res-R3	584120.7	4139357.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00109	0.00109	0.000
221	Res-R3	584127.8	4139352.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0012	0.00120	0.000
222	Res-R3	584134.9	4139346.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00131	0.00131	0.000
223	Res-R3	584097.9	4139386.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00077	0.00077	0.000
224	Res-R3	584105.0	4139381.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0009	0.00090	0.000
225	Res-R3	584112.1	4139375.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00103	0.00103	0.000
226	Res-R3	584119.2	4139370.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00117	0.00117	0.000
227	Res-R3	584126.2	4139364.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0013	0.00130	0.000
228	Res-R3	584133.3	4139359.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00143	0.00143	0.000
229	Res-R3	584140.4	4139353.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00156	0.00156	0.000
230	Res-R3	584098.2	4139397.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00083	0.00083	0.000
231	Res-R3	584103.4	4139394.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00094	0.00094	0.000
232	Res-R3	584110.5	4139388.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0011	0.00110	0.000
233	Res-R3	584117.6	4139382.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00126	0.00126	0.000
234	Res-R3	584124.7	4139377.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00142	0.00142	0.000
235	Res-R3	584131.8	4139371.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00158	0.00158	0.000
236	Res-R3	584138.9	4139366.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00172	0.00172	0.001
237	Res-R4	584146.0	4139360.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00185	0.00185	0.001
238	Res-R4	584179.5	4139343.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00247	0.00247	0.001
239	Res-R4	584186.6	4139337.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00253	0.00253	0.001
240	Res-R4	584193.6	4139331.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00259	0.00259	0.001
241	Res-R4	584200.7	4139326.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00264	0.00264	0.001
242	Res-R4	584207.8	4139320.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00268	0.00268	0.001
243	Res-R4	584214.8	4139315.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00272	0.00272	0.001
244	Res-R4	584221.9	4139309.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00274	0.00274	0.001
245	Res-R4	584178.0	4139355.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00277	0.00277	0.001
246	Res-R4	584185.1	4139350.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00284	0.00284	0.001
247	Res-R4	584192.1	4139344.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00289	0.00289	0.001
248	Res-R4	584199.2	4139339.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00294	0.00294	0.001
249	Res-R4	584206.3	4139333.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00298	0.00298	0.001
250	Res-R4	584213.3	4139327.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00301	0.00301	0.001
251	Res-R4	584220.4	4139322.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00304	0.00304	0.001
252	Res-R4	584227.5	4139316.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00306	0.00306	0.001
253	Res-R4	584183.6	4139362.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0032	0.00320	0.001
254	Res-R4	584190.7	4139357.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00326	0.00326	0.001
255	Res-R4	584197.7	4139351.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0033	0.00330	0.001
256	Res-R4	584204.8	4139346.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00334	0.00334	0.001
257	Res-R4	584211.9	4139340.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00337	0.00337	0.001
258	Res-R4	584218.9	4139334.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00339	0.00339	0.001
259	Res-R4	584226.0	4139329.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0034	0.00340	0.001
260	Res-R4	584233.1	4139323.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00341	0.00341	0.001
261	Res-R4	584189.2	4139369.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00369	0.00369	0.001
262	Res-R4	584196.2	4139364.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00373	0.00373	0.001
263	Res-R4	584203.3	4139358.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00376	0.00376	0.001
264	Res-R4	584210.4	4139353.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00379	0.00379	0.001
265	Res-R4	584217.4	4139347.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0038	0.00380	0.001
266	Res-R4	584224.5	4139342.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00381	0.00381	0.001
267	Res-R4	584231.6	4139336.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00381	0.00381	0.001
268	Res-R4	584238.6	4139330.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00381	0.00381	0.001
269	Res-R4	584194.7	4139376.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00425	0.00425	0.001
270	Res-R4	584201.8	4139371.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00427	0.00427	0.001
271	Res-R4	584208.9	4139365.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00429	0.00429	0.001
272	Res-R4	584215.9	4139360.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00429	0.00429	0.001
273	Res-R4	584223.0	4139354.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00429	0.00429	0.001
274	Res-R4	584230.1	4139349.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00428	0.00428	0.001
275	Res-R4	584237.1	4139343.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00427	0.00427	0.001
276	Res-R4	584244.2	4139337.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00425	0.00425	0.001
277	Res-R4	584155.7	4139327.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00154	0.00154	0.000
278	Res-R4	584162.8	4139321.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00162	0.00162	0.000
279	Res-R4	584169.9	4139316.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00169	0.00169	0.001
280	Res-R4	584176.9	4139310.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00176	0.00176	0.001
281	Res-R4	584184.0	4139305.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00183	0.00183	0.001
282	Res-R4	584191.0	4139299.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00188	0.00188	0.001
283	Res-R4	584198.1	4139294.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00193	0.00193	0.001
284	Res-R4	584205.2	4139288.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00198	0.00198	0.001
285	Res-R4	584161.3	4139334.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00178	0.00178	0.001
286	Res-R4	584168.4	4139328.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00186	0.00186	0.001
287	Res-R4	584175.4	4139323.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00194	0.00194	0.001
288	Res-R4	584182.5	4139317.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00201	0.00201	0.001
289	Res-R4	584189.6	4139312.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00207	0.00207	0.001
290	Res-R4	584196.6	4139306.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00212	0.00212	0.001
291	Res-R4	584203.7	4139301.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00216	0.00216	0.001
292	Res-R4	584210.8	4139295.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00221	0.00221	0.001

Receptor No.	Receptor Group Name	Receptor Coordinates UTM-X (m)	UTM-Y (m)	Construction PM2.5 (µg/m^3) Total PM2.5 Concentrations (Fugitive + Exhaust) by Year 2023	2024	2025	2026	2027	2028	2029	2030	2031	Maximum PM2.5 Conc. 2026-2031	With Use of MERV-13 Filtration Maximum PM2.5
293	Res-R4	584166.9	4139341.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00206	0.00206	0.001
294	Res-R4	584173.9	4139336.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00215	0.00215	0.001
295	Res-R4	584181.0	4139330.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00222	0.00222	0.001
296	Res-R4	584188.1	4139324.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00228	0.00228	0.001
297	Res-R4	584195.1	4139319.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00234	0.00234	0.001
298	Res-R4	584202.2	4139313.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00238	0.00238	0.001
299	Res-R4	584209.3	4139308.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00242	0.00242	0.001
300	Res-R4	584216.3	4139302.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00246	0.00246	0.001
301	Res-R5	584172.4	4139348.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00239	0.00239	0.001
302	Res-R5	584258.1	4139291.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0031	0.00310	0.001
303	Res-R5	584265.1	4139286.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00309	0.00309	0.001
304	Res-R5	584272.0	4139280.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00308	0.00308	0.001
305	Res-R5	584279.0	4139274.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00306	0.00306	0.001
306	Res-R5	584286.0	4139269.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00305	0.00305	0.001
307	Res-R5	584292.9	4139263.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00303	0.00303	0.001
308	Res-R5	584299.9	4139257.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.003	0.00300	0.001
309	Res-R5	584306.9	4139252.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00297	0.00297	0.001
310	Res-R5	584256.8	4139304.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00342	0.00342	0.001
311	Res-R5	584263.8	4139298.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00341	0.00341	0.001
312	Res-R5	584270.8	4139293.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00339	0.00339	0.001
313	Res-R5	584277.7	4139287.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00337	0.00337	0.001
314	Res-R5	584284.7	4139281.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00335	0.00335	0.001
315	Res-R5	584291.7	4139276.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00332	0.00332	0.001
316	Res-R5	584298.6	4139270.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00329	0.00329	0.001
317	Res-R5	584305.6	4139264.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00326	0.00326	0.001
318	Res-R5	584312.6	4139259.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00322	0.00322	0.001
319	Res-R5	584262.5	4139311.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00378	0.00378	0.001
320	Res-R5	584269.5	4139305.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00376	0.00376	0.001
321	Res-R5	584276.4	4139300.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00373	0.00373	0.001
322	Res-R5	584283.4	4139294.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0037	0.00370	0.001
323	Res-R5	584290.4	4139288.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00366	0.00366	0.001
324	Res-R5	584297.4	4139283.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00363	0.00363	0.001
325	Res-R5	584304.3	4139277.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00359	0.00359	0.001
326	Res-R5	584311.3	4139271.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00354	0.00354	0.001
327	Res-R5	584268.2	4139318.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00419	0.00419	0.001
328	Res-R5	584275.2	4139312.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00415	0.00415	0.001
329	Res-R5	584282.1	4139307.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00411	0.00411	0.001
330	Res-R5	584289.1	4139301.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00406	0.00406	0.001
331	Res-R5	584296.1	4139295.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00402	0.00402	0.001
332	Res-R5	584303.1	4139290.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00397	0.00397	0.001
333	Res-R5	584310.0	4139284.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00391	0.00391	0.001
334	Res-R5	584317.0	4139278.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00386	0.00386	0.001
335	Res-R5	584280.9	4139319.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00459	0.00459	0.001
336	Res-R5	584287.8	4139314.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00453	0.00453	0.001
337	Res-R5	584294.8	4139308.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00447	0.00447	0.001
338	Res-R5	584301.8	4139302.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00441	0.00441	0.001
339	Res-R5	584308.7	4139297.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00434	0.00434	0.001
340	Res-R5	584315.7	4139291.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00428	0.00428	0.001
341	Res-R5	584322.7	4139285.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0042	0.00420	0.001
342	Res-R5	584300.5	4139315.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00493	0.00493	0.001
343	Res-R5	584307.5	4139309.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00485	0.00485	0.001
344	Res-R5	584314.4	4139304.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00477	0.00477	0.001
345	Res-R5	584321.4	4139298.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00468	0.00468	0.001
346	Res-R5	584318.6	4139308.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00509	0.00509	0.002
347	Res-R5	584327.1	4139305.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00514	0.00514	0.002
348	Res-R5	584228.4	4139269.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00209	0.00209	0.001
349	Res-R5	584235.3	4139264.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00212	0.00212	0.001
350	Res-R5	584242.3	4139258.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00214	0.00214	0.001
351	Res-R5	584249.3	4139252.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00215	0.00215	0.001
352	Res-R5	584256.2	4139246.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00216	0.00216	0.001
353	Res-R5	584263.2	4139241.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00217	0.00217	0.001
354	Res-R5	584270.2	4139235.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00218	0.00218	0.001
355	Res-R5	584277.2	4139229.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00218	0.00218	0.001
356	Res-R5	584284.1	4139224.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00218	0.00218	0.001
357	Res-R5	584234.0	4139276.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00231	0.00231	0.001
358	Res-R5	584241.0	4139271.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00233	0.00233	0.001
359	Res-R5	584248.0	4139265.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00234	0.00234	0.001
360	Res-R5	584255.0	4139259.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00235	0.00235	0.001
361	Res-R5	584261.9	4139253.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00236	0.00236	0.001
362	Res-R5	584268.9	4139248.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00236	0.00236	0.001
363	Res-R5	584275.9	4139242.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00236	0.00236	0.001
364	Res-R5	584282.8	4139236.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00236	0.00236	0.001
365	Res-R5	584289.8	4139231.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00235	0.00235	0.001
366	Res-R5	584239.7	4139283.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00255	0.00255	0.001
367	Res-R5	584246.7	4139277.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00256	0.00256	0.001
368	Res-R5	584253.7	4139272.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00257	0.00257	0.001
369	Res-R5	584260.7	4139266.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00257	0.00257	0.001
370	Res-R5	584267.6	4139260.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00257	0.00257	0.001
371	Res-R5	584274.6	4139255.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00257	0.00257	0.001
372	Res-R5	584281.6	4139249.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00256	0.00256	0.001
373	Res-R5	584288.5	4139243.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00255	0.00255	0.001
374	Res-R5	584295.5	4139238.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00254	0.00254	0.001
375	Res-R5	584245.4	4139290.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00281	0.00281	0.001
376	Res-R5	584252.4	4139284.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00281	0.00281	0.001
377	Res-R5	584259.4	4139279.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00282	0.00282	0.001
378	Res-R5	584266.3	4139273.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00281	0.00281	0.001
379	Res-R5	584273.3	4139267.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00281	0.00281	0.001
380	Res-R5	584280.3	4139262.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0028	0.00280	0.001
381	Res-R5	584287.3	4139256.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00278	0.00278	0.001
382	Res-R5	584294.2	4139250.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00277	0.00277	0.001
383	Res-R5	584301.2	4139245.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00275	0.00275	0.001
384	Res-R5	584251.1	4139297.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0031	0.00310	0.001
			Max	**0.0000**	**0.0000**	**0.0000**	**0.4157**	**0.1719**	**0.0494**	**0.0373**	**0.0065**	**0.0051**	**0.4157**	**0.125**

Project Sources with Project Traffic - Emissions and Health Risk Calculations

Local Roads - Project Traffic Emissions

Google Middlefield - Road Segments Used for Modeling
Project ADTs

Road	ADT from Road Segment Used for Modeling	Project Traffic ADT[1]
Ellis Street	north of Middlefield	2,430
Middlefield Road*	west of Ellis	2,600
Logue Ave**	south of Maude	1,750
Maude Ave	west of SR 237	3,280
Clyde Ave	north of Maude	3,530

1) ADT from traffic consultant.
* ADT from west road segment used to represent modeled road segment.
** ADT from west road segment used for represent modeled road segment.

File Name:
EMFAC2021/CT-EMFAC2017:
Run Date: 9/30/2021 11:04
Area: Santa Clara (SF)
Analysis Year: 2026
Season: Annual

Vehicle Category	VMT Fraction Across Category	Diesel VMT Fraction Within Category	Gas VMT Fraction Within Category
Truck 1	0.025	0.508	0.492
Truck 2	0.015	0.935	0.049
Non-Truck	0.96	0.015	0.949

Road Type:
Silt Loading Factor: CARB Varies
Precipitation Correction: CARB P = 64 days N = 365 days

Fleet Average Running Exhaust Emission Factors (grams/veh-mile)

Pollutant Name	<= 5 mph	10 mph	15 mph	20 mph	25 mph	30 mph	35 mph	40 mph	45 mph	50 mph	55 mph	60 mph	65 mph
PM2.5	0.00909	0.00603	0.00416	0.00302	0.00231	0.00186	0.00157	0.00141	0.00134	0.00134	0.00142	0.00156	0.00179
TOG	0.12664	0.08207	0.05515	0.03909	0.02944	0.02333	0.01938	0.01686	0.01539	0.01476	0.01489	0.01582	0.01770
Diesel PM	0.00097	0.00081	0.00065	0.00053	0.00045	0.00041	0.00040	0.00041	0.00043	0.00048	0.00055	0.00063	0.00072
DEOG	0.01174	0.00845	0.00445	0.00217	0.00147	0.00115	0.00094	0.00080	0.00071	0.00066	0.00064	0.00066	0.00069

Fleet Average Running Loss Emission Factors (grams/veh-hour)

Pollutant Name	Emission Factor
TOG	1.10553

Fleet Average Tire Wear Factors (grams/veh-mile)

Pollutant Name	
PM2.5	0.00203

Fleet Average Brake Wear Factors (grams/veh-mile)

Pollutant Name	<= 5 mph	10 mph	15 mph	20 mph	25 mph	30 mph	35 mph	40 mph	45 mph	50 mph	55 mph	60 mph	65 mph
PM2.5	0.00375	0.00429	0.00482	0.00535	0.00562	0.00571	0.00574	0.00525	0.00420	0.00317	0.00252	0.00222	0.00192

Fleet Average Road Dust Factors (grams/veh-mile)

Pollutant Name	Emission Factor	
PM2.5	0.01912	(silt loading = 0.0435 grams/sq meter)

END

Pollutant Name	Freeway Emission Factor	Major/Collector Emissio	Local Urban
PM2.5	0.007256	0.014459	0.117525

Google Middlefield Park - Roadway Modeling
Ellis Street Traffic - Project Traffic
DPM Modeling - Roadway Links, Traffic Volumes, and DPM Emissions
Year = 2026

											Line Area			
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Emission (g/s/m2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimension
DPM_ELL	Ellis Street	N-S	4	766.3	0.48	20.6	67.7	3.4	40	2,430	15,809	3.437E-10	6.8	3.16

Emission Factors - DPM

Speed Category	1	2	3	4
Travel Speed (mph)	40			
Emissions per Vehicle (g/VMT)	0.00041			

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and DPM Emissions - DPM_ELL

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.73%	18	9.50E-07	9	6.63%	161	8.64E-06	17	5.87%	143	7.65E-06
2	0.44%	11	5.71E-07	10	6.71%	163	8.75E-06	18	6.09%	148	7.94E-06
3	0.35%	9	4.58E-07	11	6.03%	146	7.86E-06	19	5.83%	142	7.61E-06
4	0.48%	12	6.20E-07	12	5.35%	130	6.98E-06	20	5.57%	135	7.26E-06
5	1.28%	31	1.67E-06	13	5.28%	128	6.88E-06	21	4.30%	104	5.60E-06
6	3.20%	78	4.17E-06	14	5.52%	134	7.20E-06	22	3.50%	85	4.57E-06
7	4.97%	121	6.48E-06	15	6.09%	148	7.94E-06	23	2.42%	59	3.15E-06
8	6.11%	149	7.97E-06	16	5.76%	140	7.52E-06	24	1.50%	37	1.96E-06
								Total		2,430	

Google Middlefield Park - Roadway Modeling
Ellis Street Traffic - Project Traffic
PM2.5 Modeling - Roadway Links, Traffic Volumes, and PM2.5 Emissions
Year = 2026

											Line Area			
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Emission (g/s/m2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimension
PM25_ELL	Ellis Street	N-S	4	766.3	0.48	20.6	68	1.3	40	2,430	15,809	1.193E-09	2.6	1.21

Emission Factors - PM2.5

Speed Category	1	2	3	4
Travel Speed (mph)	40			
Emissions per Vehicle (g/VMT)	0.001409			

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and PM2.5 Emissions - PM25_ELL

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.73%	18	3.30E-06	9	6.63%	161	3.00E-05	17	5.87%	143	2.66E-05
2	0.44%	11	1.98E-06	10	6.71%	163	3.04E-05	18	6.09%	148	2.76E-05
3	0.35%	9	1.59E-06	11	6.03%	146	2.73E-05	19	5.83%	142	2.64E-05
4	0.48%	12	2.15E-06	12	5.35%	130	2.42E-05	20	5.57%	135	2.52E-05
5	1.28%	31	5.80E-06	13	5.28%	128	2.39E-05	21	4.30%	104	1.95E-05
6	3.20%	78	1.45E-05	14	5.52%	134	2.50E-05	22	3.50%	85	1.59E-05
7	4.97%	121	2.25E-05	15	6.09%	148	2.76E-05	23	2.42%	59	1.10E-05
8	6.11%	149	2.77E-05	16	5.76%	140	2.61E-05	24	1.50%	37	6.81E-06
								Total		2,430	

Google Middlefield Park - Roadway Modeling
Ellis Street Traffic - Project Traffic
TOG Exhaust Modeling - Roadway Links, Traffic Volumes, and TOG Exhaust Emissions
Year = 2026

											Line Area			
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Emission (g/s/m2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimensio
TEXH_ELL	Ellis Street	N-S	4	766.3	0.48	20.6	68	1.3	40	2,430	15,809	1.361E-08	2.6	1.21

Emission Factors - TOG Exhaust

Speed Category	1	2	3	4
Travel Speed (mph)	40			
All Vehicles TOG Emissions per Vehicle (g/VMT)	0.01686			
Diesel Vehicles TOG Emissions per Vehicle (g/VMT)	0.00080			
Gasoline Vehicles Emissions per Vehicle (g/VMT)	0.01606			

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and TOG Exhaust Emissions - TEXH_ELL

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.73%	18	3.76E-05	9	6.63%	161	3.42E-04	17	5.87%	143	3.03E-04
2	0.44%	11	2.26E-05	10	6.71%	163	3.46E-04	18	6.09%	148	3.14E-04
3	0.35%	9	1.81E-05	11	6.03%	146	3.11E-04	19	5.83%	142	3.01E-04
4	0.48%	12	2.45E-05	12	5.35%	130	2.76E-04	20	5.57%	135	2.87E-04
5	1.28%	31	6.62E-05	13	5.28%	128	2.72E-04	21	4.30%	104	2.22E-04
6	3.20%	78	1.65E-04	14	5.52%	134	2.85E-04	22	3.50%	85	1.81E-04
7	4.97%	121	2.56E-04	15	6.09%	148	3.14E-04	23	2.42%	59	1.25E-04
8	6.11%	149	3.16E-04	16	5.76%	140	2.98E-04	24	1.50%	37	7.77E-05
								Total		2,430	

Google Middlefield Park - Roadway Modeling
Ellis Street Traffic - Project Traffic
TOG Evaporative Emissions Modeling - Roadway Links, Traffic Volumes, and TOG Evaporative Emissions
Year = 2026

											Line Area			
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Emission (g/s/m2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimensio
TEVAP_ELL	Ellis Street	N-S	4	766.3	0.48	20.6	68	1.3	40	2,430	15,809	2.341E-08	2.6	1.21

Emission Factors - PM2.5 - Evaporative TOG

Speed Category	1	2	3	4
Travel Speed (mph)	40			
Emissions per Vehicle per Hour (g/hour)	1.10553			
Emissions per Vehicle per Mile (g/VMT)	0.02764			

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and TOG Evaporative Emissions - TEVAP_ELL

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.73%	18	6.47E-05	9	6.63%	161	5.89E-04	17	5.87%	143	5.21E-04
2	0.44%	11	3.89E-05	10	6.71%	163	5.96E-04	18	6.09%	148	5.41E-04
3	0.35%	9	3.12E-05	11	6.03%	146	5.35E-04	19	5.83%	142	5.18E-04
4	0.48%	12	4.22E-05	12	5.35%	130	4.76E-04	20	5.57%	135	4.94E-04
5	1.28%	31	1.14E-04	13	5.28%	128	4.69E-04	21	4.30%	104	3.82E-04
6	3.20%	78	2.84E-04	14	5.52%	134	4.90E-04	22	3.50%	85	3.11E-04
7	4.97%	121	4.41E-04	15	6.09%	148	5.41E-04	23	2.42%	59	2.15E-04
8	6.11%	149	5.43E-04	16	5.76%	140	5.12E-04	24	1.50%	37	1.34E-04
								Total		2,430	

Google Middlefield Park - Roadway Modeling
Ellis Street Traffic - Project Traffic
Fugitive Road PM2.5 Modeling - Roadway Links, Traffic Volumes, and Fugitive Road PM2.5 Emissions
Year = 2026

											Line Area			
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Emission (g/s/m2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimension
FUG_ELL	Ellis Street	N-S	4	766.3	0.48	20.6	68	1.3	40	2,430	15,809	2.236E-08	2.6	1.21

Emission Factors - Fugitive PM2.5

Speed Category	1	2	3	4
Travel Speed (mph)	40	0		
Tire Wear - Emissions per Vehicle (g/VMT)	0.00203	0.00203		
Brake Wear - Emissions per Vehicle (g/VMT)	0.00525	0.00525		
Road Dust - Emissions per Vehicle (g/VMT)	0.01912	0.01912		
l Fugitive PM2.5 - Emissions per Vehicle (g/VMT)	0.02639	0.02639		

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and Fugitive PM2.5 Emissions - FUG_ELL

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.73%	18	6.18E-05	9	6.63%	161	5.62E-04	17	5.87%	143	4.98E-04
2	0.44%	11	3.72E-05	10	6.71%	163	5.69E-04	18	6.09%	148	5.17E-04
3	0.35%	9	2.98E-05	11	6.03%	146	5.11E-04	19	5.83%	142	4.95E-04
4	0.48%	12	4.03E-05	12	5.35%	130	4.54E-04	20	5.57%	135	4.72E-04
5	1.28%	31	1.09E-04	13	5.28%	128	4.48E-04	21	4.30%	104	3.65E-04
6	3.20%	78	2.71E-04	14	5.52%	134	4.68E-04	22	3.50%	85	2.97E-04
7	4.97%	121	4.21E-04	15	6.09%	148	5.16E-04	23	2.42%	59	2.05E-04
8	6.11%	149	5.18E-04	16	5.76%	140	4.89E-04	24	1.50%	37	1.28E-04
								Total		2,430	

Google Middlefield Park - Roadway Modeling
Maude Avenue Traffic - Project Traffic
DPM Modeling - Roadway Links, Traffic Volumes, and DPM Emissions
Year = 2026

											Line Area			
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Emission (g/s/m2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimension
DPM_MAD	Maude Avenue	E-W	2	667.8	0.41	13.3	43.7	3.4	25	3,280	8,892	8.033E-10	6.8	3.16

Emission Factors - DPM

Speed Category	1	2	3	4
Travel Speed (mph)	25			
Emissions per Vehicle (g/VMT)	0.00045			

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and DPM Emissions - DPM_MAD

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.73%	24	1.25E-06	9	6.63%	217	1.14E-05	17	5.87%	192	1.01E-05
2	0.44%	14	7.51E-07	10	6.71%	220	1.15E-05	18	6.09%	200	1.04E-05
3	0.35%	12	6.03E-07	11	6.03%	198	1.03E-05	19	5.83%	191	1.00E-05
4	0.48%	16	8.15E-07	12	5.35%	176	9.18E-06	20	5.57%	183	9.54E-06
5	1.28%	42	2.20E-06	13	5.28%	173	9.05E-06	21	4.30%	141	7.37E-06
6	3.20%	105	5.48E-06	14	5.52%	181	9.46E-06	22	3.50%	115	6.00E-06
7	4.97%	163	8.51E-06	15	6.09%	200	1.04E-05	23	2.42%	79	4.15E-06
8	6.11%	200	1.05E-05	16	5.76%	189	9.88E-06	24	1.50%	49	2.58E-06
								Total		3,280	

Google Middlefield Park - Roadway Modeling
Maude Avenue Traffic - Project Traffic
PM2.5 Modeling - Roadway Links, Traffic Volumes, and PM2.5 Emissions
Year = 2026

											Line Area			
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Emission (g/s/m2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimension
PM25_MAD	Maude Avenue	E-W	2	667.8	0.41	13.3	44	1.3	25	3,280	8,892	4.086E-09	2.6	1.21

Emission Factors - PM2.5

Speed Category	1	2	3	4
Travel Speed (mph)	25			
Emissions per Vehicle (g/VMT)	0.002307			

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and PM2.5 Emissions - PM25_MAD

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.73%	24	6.35E-06	9	6.63%	217	5.78E-05	17	5.87%	192	5.12E-05
2	0.44%	14	3.82E-06	10	6.71%	220	5.85E-05	18	6.09%	200	5.31E-05
3	0.35%	12	3.07E-06	11	6.03%	198	5.25E-05	19	5.83%	191	5.09E-05
4	0.48%	16	4.15E-06	12	5.35%	176	4.67E-05	20	5.57%	183	4.85E-05
5	1.28%	42	1.12E-05	13	5.28%	173	4.60E-05	21	4.30%	141	3.75E-05
6	3.20%	105	2.79E-05	14	5.52%	181	4.81E-05	22	3.50%	115	3.05E-05
7	4.97%	163	4.33E-05	15	6.09%	200	5.31E-05	23	2.42%	79	2.11E-05
8	6.11%	200	5.33E-05	16	5.76%	189	5.03E-05	24	1.50%	49	1.31E-05
								Total		3,280	

Google Middlefield Park - Roadway Modeling
Maude Avenue Traffic - Project Traffic
TOG Exhaust Modeling - Roadway Links, Traffic Volumes, and TOG Exhaust Emissions
Year = 2026

											Line Area			
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Emission (g/s/m2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimensio
TEXH_MAD	Maude Avenue	E-W	2	667.8	0.41	13.3	44	1.3	25	3,280	8,892	4.955E-08	2.6	1.21

Emission Factors - TOG Exhaust

Speed Category	1	2	3	4
Travel Speed (mph)	25			
All Vehicles TOG Emissions per Vehicle (g/VMT)	0.02944			
Diesel Vehicles TOG Emissions per Vehicle (g/VMT)	0.00147			
Gasoline Vehicles Emissions per Vehicle (g/VMT)	0.02797			

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and TOG Exhaust Emissions - TEXH_MAD

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.73%	24	7.71E-05	9	6.63%	217	7.01E-04	17	5.87%	192	6.21E-04
2	0.44%	14	4.63E-05	10	6.71%	220	7.10E-04	18	6.09%	200	6.44E-04
3	0.35%	12	3.72E-05	11	6.03%	198	6.37E-04	19	5.83%	191	6.17E-04
4	0.48%	16	5.03E-05	12	5.35%	176	5.66E-04	20	5.57%	183	5.89E-04
5	1.28%	42	1.36E-04	13	5.28%	173	5.58E-04	21	4.30%	141	4.54E-04
6	3.20%	105	3.38E-04	14	5.52%	181	5.84E-04	22	3.50%	115	3.70E-04
7	4.97%	163	5.25E-04	15	6.09%	200	6.44E-04	23	2.42%	79	2.56E-04
8	6.11%	200	6.46E-04	16	5.76%	189	6.10E-04	24	1.50%	49	1.59E-04
								Total		3,280	

Google Middlefield Park - Roadway Modeling
Maude Avenue Traffic - Project Traffic
TOG Evaporative Emissions Modeling - Roadway Links, Traffic Volumes, and TOG Evaporative Emissions
Year = 2026

											Line Area			
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Emission (g/s/m2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimensio
TEVAP_MAD	Maude Avenue	E-W	2	667.8	0.41	13.3	44	1.3	25	3,280	8,892	7.834E-08	2.6	1.21

Emission Factors - PM2.5 - Evaporative TOG

Speed Category	1	2	3	4
Travel Speed (mph)	25			
Emissions per Vehicle per Hour (g/hour)	1.10553			
Emissions per Vehicle per Mile (g/VMT)	0.04422			

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and TOG Evaporative Emissions - TEVAP_MAD

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.73%	24	1.22E-04	9	6.63%	217	1.11E-03	17	5.87%	192	9.81E-04
2	0.44%	14	7.32E-05	10	6.71%	220	1.12E-03	18	6.09%	200	1.02E-03
3	0.35%	12	5.88E-05	11	6.03%	198	1.01E-03	19	5.83%	191	9.75E-04
4	0.48%	16	7.95E-05	12	5.35%	176	8.95E-04	20	5.57%	183	9.31E-04
5	1.28%	42	2.14E-04	13	5.28%	173	8.82E-04	21	4.30%	141	7.19E-04
6	3.20%	105	5.35E-04	14	5.52%	181	9.23E-04	22	3.50%	115	5.86E-04
7	4.97%	163	8.30E-04	15	6.09%	200	1.02E-03	23	2.42%	79	4.04E-04
8	6.11%	200	1.02E-03	16	5.76%	189	9.64E-04	24	1.50%	49	2.51E-04
								Total		3,280	

Google Middlefield Park - Roadway Modeling
Maude Avenue Traffic - Project Traffic
Fugitive Road PM2.5 Modeling - Roadway Links, Traffic Volumes, and Fugitive Road PM2.5 Emissions
Year = 2026

											Line Area			
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Emission (g/s/m2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimension
FUG_MAD	Maude Avenue	E-W	2	667.8	0.41	13.3	44	1.3	25	3,280	8,892	4.743E-08	2.6	1.21

Emission Factors - Fugitive PM2.5

Speed Category	1	2	3	4
Travel Speed (mph)	25			
Tire Wear - Emissions per Vehicle (g/VMT)	0.00203			
Brake Wear - Emissions per Vehicle (g/VMT)	0.00562			
Road Dust - Emissions per Vehicle (g/VMT)	0.01912			
l Fugitive PM2.5 - Emissions per Vehicle (g/VMT)	0.02677			

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and Fugitive PM2.5 Emissions - FUG_MAD

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.73%	24	7.38E-05	9	6.63%	217	6.71E-04	17	5.87%	192	5.94E-04
2	0.44%	14	4.43E-05	10	6.71%	220	6.79E-04	18	6.09%	200	6.16E-04
3	0.35%	12	3.56E-05	11	6.03%	198	6.10E-04	19	5.83%	191	5.91E-04
4	0.48%	16	4.81E-05	12	5.35%	176	5.42E-04	20	5.57%	183	5.63E-04
5	1.28%	42	1.30E-04	13	5.28%	173	5.34E-04	21	4.30%	141	4.35E-04
6	3.20%	105	3.24E-04	14	5.52%	181	5.59E-04	22	3.50%	115	3.54E-04
7	4.97%	163	5.03E-04	15	6.09%	200	6.16E-04	23	2.42%	79	2.45E-04
8	6.11%	200	6.19E-04	16	5.76%	189	5.83E-04	24	1.50%	49	1.52E-04
								Total		3,280	

Google Middlefield Park - Roadway Modeling
Logue Avenue Traffic - Project Traffic
DPM Modeling - Roadway Links, Traffic Volumes, and DPM Emissions
Year = 2026

											Line Area			
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Emission (g/s/m2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimension
DPM_LOG	Logue Avenue	N-S	2	609.7	0.38	13.3	43.7	3.4	25	1,750	8,118	4.286E-10	6.8	3.16

Emission Factors - DPM

Speed Category	1	2	3	4
Travel Speed (mph)	25			
Emissions per Vehicle (g/VMT)	0.00045			

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and DPM Emissions - DPM_LOG

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.73%	13	6.08E-07	9	6.63%	116	5.53E-06	17	5.87%	103	4.90E-06
2	0.44%	8	3.66E-07	10	6.71%	117	5.60E-06	18	6.09%	107	5.08E-06
3	0.35%	6	2.94E-07	11	6.03%	105	5.03E-06	19	5.83%	102	4.87E-06
4	0.48%	8	3.97E-07	12	5.35%	94	4.47E-06	20	5.57%	97	4.65E-06
5	1.28%	22	1.07E-06	13	5.28%	92	4.41E-06	21	4.30%	75	3.59E-06
6	3.20%	56	2.67E-06	14	5.52%	97	4.61E-06	22	3.50%	61	2.92E-06
7	4.97%	87	4.15E-06	15	6.09%	107	5.08E-06	23	2.42%	42	2.02E-06
8	6.11%	107	5.10E-06	16	5.76%	101	4.81E-06	24	1.50%	26	1.26E-06
								Total		1,750	

Google Middlefield Park - Roadway Modeling
Logue Avenue Traffic - Project Traffic
PM2.5 Modeling - Roadway Links, Traffic Volumes, and PM2.5 Emissions
Year = 2026

											Line Area			
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Emission (g/s/m2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimension
PM25_LOG	Logue Avenue	N-S	2	609.7	0.38	13.3	44	1.3	25	1,750	8,118	2.180E-09	2.6	1.21

Emission Factors - PM2.5

Speed Category	1	2	3	4
Travel Speed (mph)	25			
Emissions per Vehicle (g/VMT)	0.002307			

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and PM2.5 Emissions - PM25_LOG

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.73%	13	3.09E-06	9	6.63%	116	2.81E-05	17	5.87%	103	2.49E-05
2	0.44%	8	1.86E-06	10	6.71%	117	2.85E-05	18	6.09%	107	2.59E-05
3	0.35%	6	1.49E-06	11	6.03%	105	2.56E-05	19	5.83%	102	2.48E-05
4	0.48%	8	2.02E-06	12	5.35%	94	2.27E-05	20	5.57%	97	2.36E-05
5	1.28%	22	5.45E-06	13	5.28%	92	2.24E-05	21	4.30%	75	1.83E-05
6	3.20%	56	1.36E-05	14	5.52%	97	2.34E-05	22	3.50%	61	1.49E-05
7	4.97%	87	2.11E-05	15	6.09%	107	2.59E-05	23	2.42%	42	1.03E-05
8	6.11%	107	2.60E-05	16	5.76%	101	2.45E-05	24	1.50%	26	6.39E-06
								Total		1,750	

Google Middlefield Park - Roadway Modeling
Logue Avenue Traffic - Project Traffic
TOG Exhaust Modeling - Roadway Links, Traffic Volumes, and TOG Exhaust Emissions
Year = 2026

											Line Area			
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Emission (g/s/m2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimensio
TEXH_LOG	Logue Avenue	N-S	2	609.7	0.38	13.3	44	1.3	25	1,750	8,118	2.644E-08	2.6	1.21

Emission Factors - TOG Exhaust

Speed Category	1	2	3	4
Travel Speed (mph)	25			
All Vehicles TOG Emissions per Vehicle (g/VMT)	0.02944			
Diesel Vehicles TOG Emissions per Vehicle (g/VMT)	0.00147			
Gasoline Vehicles Emissions per Vehicle (g/VMT)	0.02797			

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and TOG Exhaust Emissions - TEXH_LOG

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.73%	13	3.75E-05	9	6.63%	116	3.41E-04	17	5.87%	103	3.02E-04
2	0.44%	8	2.26E-05	10	6.71%	117	3.46E-04	18	6.09%	107	3.14E-04
3	0.35%	6	1.81E-05	11	6.03%	105	3.10E-04	19	5.83%	102	3.01E-04
4	0.48%	8	2.45E-05	12	5.35%	94	2.76E-04	20	5.57%	97	2.87E-04
5	1.28%	22	6.60E-05	13	5.28%	92	2.72E-04	21	4.30%	75	2.21E-04
6	3.20%	56	1.65E-04	14	5.52%	97	2.84E-04	22	3.50%	61	1.80E-04
7	4.97%	87	2.56E-04	15	6.09%	107	3.14E-04	23	2.42%	42	1.25E-04
8	6.11%	107	3.15E-04	16	5.76%	101	2.97E-04	24	1.50%	26	7.75E-05
								Total		1,750	

Logue Avenue Traffic - Project Traffic
TOG Evaporative Emissions Modeling - Roadway Links, Traffic Volumes, and TOG Evaporative Emissions
Year = 2026

											Line Area			
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Emission (g/s/m2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimensio
TEVAP_LOG	Logue Avenue	N-S	2	609.7	0.38	13.3	44	1.3	25	1,750	8,118	4.180E-08	2.6	1.21

Emission Factors - PM2.5 - Evaporative TOG

Speed Category	1	2	3	4
Travel Speed (mph)	25			
Emissions per Vehicle per Hour (g/hour)	1.10553			
Emissions per Vehicle per Mile (g/VMT)	0.04422			

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and TOG Evaporative Emissions - TEVAP_LOG

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.73%	13	5.93E-05	9	6.63%	116	5.40E-04	17	5.87%	103	4.78E-04
2	0.44%	8	3.57E-05	10	6.71%	117	5.46E-04	18	6.09%	107	4.96E-04
3	0.35%	6	2.86E-05	11	6.03%	105	4.91E-04	19	5.83%	102	4.75E-04
4	0.48%	8	3.87E-05	12	5.35%	94	4.36E-04	20	5.57%	97	4.53E-04
5	1.28%	22	1.04E-04	13	5.28%	92	4.30E-04	21	4.30%	75	3.50E-04
6	3.20%	56	2.60E-04	14	5.52%	97	4.50E-04	22	3.50%	61	2.85E-04
7	4.97%	87	4.05E-04	15	6.09%	107	4.96E-04	23	2.42%	42	1.97E-04
8	6.11%	107	4.98E-04	16	5.76%	101	4.69E-04	24	1.50%	26	1.23E-04
								Total		1,750	

Google Middlefield Park - Roadway Modeling
Maude Avenue Traffic - Project Traffic
DPM Modeling - Roadway Links, Traffic Volumes, and DPM Emissions
Year = 2026

											Line Area			
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Emission (g/s/m2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimension
DPM_MAD	Maude Avenue	E-W	2	667.8	0.41	13.3	43.7	3.4	25	3,280	8,892	8.033E-10	6.8	3.16

Emission Factors - DPM

Speed Category	1	2	3	4
Travel Speed (mph)	25			
Emissions per Vehicle (g/VMT)	0.00045			

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and DPM Emissions - DPM_MAD

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.73%	24	1.25E-06	9	6.63%	217	1.14E-05	17	5.87%	192	1.01E-05
2	0.44%	14	7.51E-07	10	6.71%	220	1.15E-05	18	6.09%	200	1.04E-05
3	0.35%	12	6.03E-07	11	6.03%	198	1.03E-05	19	5.83%	191	1.00E-05
4	0.48%	16	8.15E-07	12	5.35%	176	9.18E-06	20	5.57%	183	9.54E-06
5	1.28%	42	2.20E-06	13	5.28%	173	9.05E-06	21	4.30%	141	7.37E-06
6	3.20%	105	5.48E-06	14	5.52%	181	9.46E-06	22	3.50%	115	6.00E-06
7	4.97%	163	8.51E-06	15	6.09%	200	1.04E-05	23	2.42%	79	4.15E-06
8	6.11%	200	1.05E-05	16	5.76%	189	9.88E-06	24	1.50%	49	2.58E-06
								Total		3,280	

Google Middlefield Park - Roadway Modeling
Maude Avenue Traffic - Project Traffic
PM2.5 Modeling - Roadway Links, Traffic Volumes, and PM2.5 Emissions
Year = 2026

											Line Area			
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Emission (g/s/m2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimension
PM25_MAD	Maude Avenue	E-W	2	667.8	0.41	13.3	44	1.3	25	3,280	8,892	4.086E-09	2.6	1.21

Emission Factors - PM2.5

Speed Category	1	2	3	4
Travel Speed (mph)	25			
Emissions per Vehicle (g/VMT)	0.002307			

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and PM2.5 Emissions - PM25_MAD

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.73%	24	6.35E-06	9	6.63%	217	5.78E-05	17	5.87%	192	5.12E-05
2	0.44%	14	3.82E-06	10	6.71%	220	5.85E-05	18	6.09%	200	5.31E-05
3	0.35%	12	3.07E-06	11	6.03%	198	5.25E-05	19	5.83%	191	5.09E-05
4	0.48%	16	4.15E-06	12	5.35%	176	4.67E-05	20	5.57%	183	4.85E-05
5	1.28%	42	1.12E-05	13	5.28%	173	4.60E-05	21	4.30%	141	3.75E-05
6	3.20%	105	2.79E-05	14	5.52%	181	4.81E-05	22	3.50%	115	3.05E-05
7	4.97%	163	4.33E-05	15	6.09%	200	5.31E-05	23	2.42%	79	2.11E-05
8	6.11%	200	5.33E-05	16	5.76%	189	5.03E-05	24	1.50%	49	1.31E-05
								Total		3,280	

Google Middlefield Park - Roadway Modeling
Maude Avenue Traffic - Project Traffic
TOG Exhaust Modeling - Roadway Links, Traffic Volumes, and TOG Exhaust Emissions
Year = 2026

											Line Area			
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Emission (g/s/m2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimensio
TEXH_MAD	Maude Avenue	E-W	2	667.8	0.41	13.3	44	1.3	25	3,280	8,892	4.955E-08	2.6	1.21

Emission Factors - TOG Exhaust

Speed Category	1	2	3	4
Travel Speed (mph)	25			
All Vehicles TOG Emissions per Vehicle (g/VMT)	0.02944			
Diesel Vehicles TOG Emissions per Vehicle (g/VMT)	0.00147			
Gasoline Vehicles Emissions per Vehicle (g/VMT)	0.02797			

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and TOG Exhaust Emissions - TEXH_MAD

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.73%	24	7.71E-05	9	6.63%	217	7.01E-04	17	5.87%	192	6.21E-04
2	0.44%	14	4.63E-05	10	6.71%	220	7.10E-04	18	6.09%	200	6.44E-04
3	0.35%	12	3.72E-05	11	6.03%	198	6.37E-04	19	5.83%	191	6.17E-04
4	0.48%	16	5.03E-05	12	5.35%	176	5.66E-04	20	5.57%	183	5.89E-04
5	1.28%	42	1.36E-04	13	5.28%	173	5.58E-04	21	4.30%	141	4.54E-04
6	3.20%	105	3.38E-04	14	5.52%	181	5.84E-04	22	3.50%	115	3.70E-04
7	4.97%	163	5.25E-04	15	6.09%	200	6.44E-04	23	2.42%	79	2.56E-04
8	6.11%	200	6.46E-04	16	5.76%	189	6.10E-04	24	1.50%	49	1.59E-04
								Total		3,280	

Google Middlefield Park - Roadway Modeling
Maude Avenue Traffic - Project Traffic
TOG Evaporative Emissions Modeling - Roadway Links, Traffic Volumes, and TOG Evaporative Emissions
Year = 2026

											Line Area			
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Emission (g/s/m2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimensio
TEVAP_MAD	Maude Avenue	E-W	2	667.8	0.41	13.3	44	1.3	25	3,280	8,892	7.834E-08	2.6	1.21

Emission Factors - PM2.5 - Evaporative TOG

Speed Category	1	2	3	4
Travel Speed (mph)	25			
Emissions per Vehicle per Hour (g/hour)	1.10553			
Emissions per Vehicle per Mile (g/VMT)	0.04422			

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and TOG Evaporative Emissions - TEVAP_MAD

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.73%	24	1.22E-04	9	6.63%	217	1.11E-03	17	5.87%	192	9.81E-04
2	0.44%	14	7.32E-05	10	6.71%	220	1.12E-03	18	6.09%	200	1.02E-03
3	0.35%	12	5.88E-05	11	6.03%	198	1.01E-03	19	5.83%	191	9.75E-04
4	0.48%	16	7.95E-05	12	5.35%	176	8.95E-04	20	5.57%	183	9.31E-04
5	1.28%	42	2.14E-04	13	5.28%	173	8.82E-04	21	4.30%	141	7.19E-04
6	3.20%	105	5.35E-04	14	5.52%	181	9.23E-04	22	3.50%	115	5.86E-04
7	4.97%	163	8.30E-04	15	6.09%	200	1.02E-03	23	2.42%	79	4.04E-04
8	6.11%	200	1.02E-03	16	5.76%	189	9.64E-04	24	1.50%	49	2.51E-04
								Total		3,280	

Google Middlefield Park - Roadway Modeling
Maude Avenue Traffic - Project Traffic
Fugitive Road PM2.5 Modeling - Roadway Links, Traffic Volumes, and Fugitive Road PM2.5 Emissions
Year = 2026

											Line Area			
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Emission (g/s/m2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimension
FUG_MAD	Maude Avenue	E-W	2	667.8	0.41	13.3	44	1.3	25	3,280	8,892	4.743E-08	2.6	1.21

Emission Factors - Fugitive PM2.5

Speed Category	1	2	3	4
Travel Speed (mph)	25			
Tire Wear - Emissions per Vehicle (g/VMT)	0.00203			
Brake Wear - Emissions per Vehicle (g/VMT)	0.00562			
Road Dust - Emissions per Vehicle (g/VMT)	0.01912			
l Fugitive PM2.5 - Emissions per Vehicle (g/VMT)	0.02677			

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and Fugitive PM2.5 Emissions - FUG_MAD

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.73%	24	7.38E-05	9	6.63%	217	6.71E-04	17	5.87%	192	5.94E-04
2	0.44%	14	4.43E-05	10	6.71%	220	6.79E-04	18	6.09%	200	6.16E-04
3	0.35%	12	3.56E-05	11	6.03%	198	6.10E-04	19	5.83%	191	5.91E-04
4	0.48%	16	4.81E-05	12	5.35%	176	5.42E-04	20	5.57%	183	5.63E-04
5	1.28%	42	1.30E-04	13	5.28%	173	5.34E-04	21	4.30%	141	4.35E-04
6	3.20%	105	3.24E-04	14	5.52%	181	5.59E-04	22	3.50%	115	3.54E-04
7	4.97%	163	5.03E-04	15	6.09%	200	6.16E-04	23	2.42%	79	2.45E-04
8	6.11%	200	6.19E-04	16	5.76%	189	5.83E-04	24	1.50%	49	1.52E-04
								Total		3,280	

Google Middlefield Park - Roadway Modeling
Clyde Avenue Traffic - Project Traffic
DPM Modeling - Roadway Links, Traffic Volumes, and DPM Emissions
Year = 2026

											Line Area			
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Emission (g/s/m2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimension
DPM_CLY	Clyde Avenue	N-S	2	880.0	0.55	13.3	43.7	3.4	25	3,530	11,717	8.645E-10	6.8	3.16

Emission Factors - DPM

Speed Category	1	2	3	4
Travel Speed (mph)	25			
Emissions per Vehicle (g/VMT)	0.00045			

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and DPM Emissions - DPM_CLY

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.73%	26	1.77E-06	9	6.63%	234	1.61E-05	17	5.87%	207	1.43E-05
2	0.44%	15	1.07E-06	10	6.71%	237	1.63E-05	18	6.09%	215	1.48E-05
3	0.35%	12	8.55E-07	11	6.03%	213	1.46E-05	19	5.83%	206	1.42E-05
4	0.48%	17	1.16E-06	12	5.35%	189	1.30E-05	20	5.57%	196	1.35E-05
5	1.28%	45	3.12E-06	13	5.28%	186	1.28E-05	21	4.30%	152	1.04E-05
6	3.20%	113	7.78E-06	14	5.52%	195	1.34E-05	22	3.50%	124	8.51E-06
7	4.97%	175	1.21E-05	15	6.09%	215	1.48E-05	23	2.42%	85	5.88E-06
8	6.11%	216	1.49E-05	16	5.76%	203	1.40E-05	24	1.50%	53	3.66E-06
								Total		3,530	

Google Middlefield Park - Roadway Modeling
Clyde Avenue Traffic - Project Traffic
PM2.5 Modeling - Roadway Links, Traffic Volumes, and PM2.5 Emissions
Year = 2026

											Line Area			
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Emission (g/s/m2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimension
PM25_CLY	Clyde Avenue	N-S	2	880.0	0.55	13.3	44	1.3	25	3,530	11,717	4.398E-09	2.6	1.21

Emission Factors - PM2.5

Speed Category	1	2	3	4
Travel Speed (mph)	25			
Emissions per Vehicle (g/VMT)	0.002307			

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and PM2.5 Emissions - PM25_CLY

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.73%	26	9.01E-06	9	6.63%	234	8.20E-05	17	5.87%	207	7.26E-05
2	0.44%	15	5.42E-06	10	6.71%	237	8.30E-05	18	6.09%	215	7.53E-05
3	0.35%	12	4.35E-06	11	6.03%	213	7.45E-05	19	5.83%	206	7.22E-05
4	0.48%	17	5.88E-06	12	5.35%	189	6.62E-05	20	5.57%	196	6.88E-05
5	1.28%	45	1.59E-05	13	5.28%	186	6.53E-05	21	4.30%	152	5.31E-05
6	3.20%	113	3.96E-05	14	5.52%	195	6.83E-05	22	3.50%	124	4.33E-05
7	4.97%	175	6.14E-05	15	6.09%	215	7.53E-05	23	2.42%	85	2.99E-05
8	6.11%	216	7.56E-05	16	5.76%	203	7.13E-05	24	1.50%	53	1.86E-05
								Total		3,530	

Google Middlefield Park - Roadway Modeling
Clyde Avenue Traffic - Project Traffic
TOG Exhaust Modeling - Roadway Links, Traffic Volumes, and TOG Exhaust Emissions
Year = 2026

											Line Area			
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Emission (g/s/m2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimensio
TEXH_CLY	Clyde Avenue	N-S	2	880.0	0.55	13.3	44	1.3	25	3,530	11,717	5.333E-08	2.6	1.21

Emission Factors - TOG Exhaust

Speed Category	1	2	3	4
Travel Speed (mph)	25			
All Vehicles TOG Emissions per Vehicle (g/VMT)	0.02944			
Diesel Vehicles TOG Emissions per Vehicle (g/VMT)	0.00147			
Gasoline Vehicles Emissions per Vehicle (g/VMT)	0.02797			

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and TOG Exhaust Emissions - TEXH_CLY

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.73%	26	1.09E-04	9	6.63%	234	9.94E-04	17	5.87%	207	8.80E-04
2	0.44%	15	6.57E-05	10	6.71%	237	1.01E-03	18	6.09%	215	9.13E-04
3	0.35%	12	5.27E-05	11	6.03%	213	9.04E-04	19	5.83%	206	8.75E-04
4	0.48%	17	7.13E-05	12	5.35%	189	8.03E-04	20	5.57%	196	8.35E-04
5	1.28%	45	1.92E-04	13	5.28%	186	7.92E-04	21	4.30%	152	6.45E-04
6	3.20%	113	4.80E-04	14	5.52%	195	8.28E-04	22	3.50%	124	5.25E-04
7	4.97%	175	7.45E-04	15	6.09%	215	9.13E-04	23	2.42%	85	3.63E-04
8	6.11%	216	9.17E-04	16	5.76%	203	8.64E-04	24	1.50%	53	2.26E-04
								Total		3,530	

Google Middlefield Park - Roadway Modeling
Clyde Avenue Traffic - Project Traffic
TOG Evaporative Emissions Modeling - Roadway Links, Traffic Volumes, and TOG Evaporative Emissions
Year = 2026

											Line Area			
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Emission (g/s/m2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimensio
TEVAP_CLY	Clyde Avenue	N-S	2	880.0	0.55	13.3	44	1.3	25	3,530	11,717	8.431E-08	2.6	1.21

Emission Factors - PM2.5 - Evaporative TOG

Speed Category	1	2	3	4
Travel Speed (mph)	25			
Emissions per Vehicle per Hour (g/hour)	1.10553			
Emissions per Vehicle per Mile (g/VMT)	0.04422			

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and TOG Evaporative Emissions - TEVAP_CLY

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.73%	26	1.73E-04	9	6.63%	234	1.57E-03	17	5.87%	207	1.39E-03
2	0.44%	15	1.04E-04	10	6.71%	237	1.59E-03	18	6.09%	215	1.44E-03
3	0.35%	12	8.33E-05	11	6.03%	213	1.43E-03	19	5.83%	206	1.38E-03
4	0.48%	17	1.13E-04	12	5.35%	189	1.27E-03	20	5.57%	196	1.32E-03
5	1.28%	45	3.04E-04	13	5.28%	186	1.25E-03	21	4.30%	152	1.02E-03
6	3.20%	113	7.58E-04	14	5.52%	195	1.31E-03	22	3.50%	124	8.30E-04
7	4.97%	175	1.18E-03	15	6.09%	215	1.44E-03	23	2.42%	85	5.73E-04
8	6.11%	216	1.45E-03	16	5.76%	203	1.37E-03	24	1.50%	53	3.57E-04
								Total		3,530	

Google Middlefield Park - Roadway Modeling
Clyde Avenue Traffic - Project Traffic
Fugitive Road PM2.5 Modeling - Roadway Links, Traffic Volumes, and Fugitive Road PM2.5 Emissions
Year = 2026

											Line Area			
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Emission (g/s/m2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimension
FUG_CLY	Clyde Avenue	N-S	2	880.0	0.55	13.3	44	1.3	25	3,530	11,717	5.105E-08	2.6	1.21

Emission Factors - Fugitive PM2.5

Speed Category	1	2	3	4
Travel Speed (mph)	25			
Tire Wear - Emissions per Vehicle (g/VMT)	0.00203			
Brake Wear - Emissions per Vehicle (g/VMT)	0.00562			
Road Dust - Emissions per Vehicle (g/VMT)	0.01912			
l Fugitive PM2.5 - Emissions per Vehicle (g/VMT)	0.02677			

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and Fugitive PM2.5 Emissions - FUG_CLY

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.73%	26	1.05E-04	9	6.63%	234	9.51E-04	17	5.87%	207	8.42E-04
2	0.44%	15	6.29E-05	10	6.71%	237	9.63E-04	18	6.09%	215	8.74E-04
3	0.35%	12	5.05E-05	11	6.03%	213	8.65E-04	19	5.83%	206	8.38E-04
4	0.48%	17	6.82E-05	12	5.35%	189	7.69E-04	20	5.57%	196	7.99E-04
5	1.28%	45	1.84E-04	13	5.28%	186	7.58E-04	21	4.30%	152	6.17E-04
6	3.20%	113	4.59E-04	14	5.52%	195	7.92E-04	22	3.50%	124	5.03E-04
7	4.97%	175	7.13E-04	15	6.09%	215	8.74E-04	23	2.42%	85	3.47E-04
8	6.11%	216	8.77E-04	16	5.76%	203	8.27E-04	24	1.50%	53	2.16E-04
								Total		3,530	

Project Generators, Restaurant, and Cooling Tower Emissions and Modeling Information

Google Middlefield
Project Emergency Generators - Emissions and Modeling Information

Generator	Building Location	Base Elevation (m)	Building Height (ft)	Building Height (m)	Generator Rating (kW)	Generator Rating (hp)	Annual[a] Operation (hr/yr)	DPM[b] Emission Factor (g/hp-hr)	DPM Emissions Annual[b] Emissions (lb/yr)	DPM Emissions Average[c] Daily Emissions (lb/day)	DPM Emissions Average[c] Hourly Emissions (lb/hr)
G1a	R2	18.3	123	47.33	500	670	50	0.15	8.1	0.02	9.23E-04
G2	O1	17.4	130	50.02	900	1206	50	0.02	1.9	0.01	2.22E-04
G3	O2	15.5	95	36.56	900	1206	50	0.02	1.9	0.01	2.22E-04
G4	O3	15.8	95	36.56	900	1206	50	0.02	1.9	0.01	2.22E-04
G5	O4	15.5	95	36.56	900	1206	50	0.02	1.9	0.01	2.22E-04
G6	O5	14.9	65	25.01	900	1206	50	0.02	1.9	0.01	2.22E-04
G7	R3	16.8	95	36.56	500	670	50	0.15	8.1	0.02	9.23E-04
G8	R4	17.4	95	36.56	500	670	50	0.15	8.1	0.02	9.23E-04
G9	R4Aff	17.4	95	36.56	500	670	50	0.15	8.1	0.02	9.23E-04
G10	R5	17.1	95	36.56	500	670	50	0.15	8.1	0.02	9.23E-04
G11	R6	17.7	95	36.56	500	670	50	0.15	8.1	0.02	9.23E-04

[a] Annual hours for testing and maintenance purposes.
b Emissions calculated using CalEEMod emssion factors and a load factor of 0.73
c Assumes generators can be operated any day or hour of the year.

Point Source Stack Parameters	
Generator engine size (hp)	670 & 1,206
Stack Discharge Height *(ft)	12
Stack Discharge Height *(m)	3.66
Stack Diameter** (ft)	0.60
Stack Diameter** (m)	0.18
Stack Exit Velocity** (ft/sec)	149
Stack Exit Velocity** (m/sec)	45.3
Exhaust Temperature** (F)	872

* Horizontal discharge (18 inches) from building facace
** BAAQMD defalut generator parameters

Google - Middlefield
Restaurant Under-Fire Charbroiler TAC Emissions

Restaurant Under-Fire Charbroiler TAC Emissions - Per Restaurant

Source[1]	Quantity[2] (lb/day)	Emission Factors[3] (lb/ton) PAH wo/Naph-thalene	Emission Factors[3] (lb/ton) Naph-thalene	Emission[4] Controls (percent reduction)	Emissions (lb/day) PAH wo/ Naph-thalene	Emissions (lb/day) Naph-thalene	Emissions[5] (lb/year) PAH wo/ Naph-thalene	Emissions[5] (lb/year) Naph-thalene	Emissions[6] (g/s) PAH wo/ Naph-thalene	Emissions[6] (g/s) Naph-thalene
Charbroiler										
Hamburger	58.26	0.000702	0.038	83%	3.48E-06	1.88E-04	1.08E-03	5.87E-02	1.56E-08	8.44E-07
Chicken	58.26	0.00046	0.018	83%	2.28E-06	8.91E-05	7.11E-04	2.78E-02	1.02E-08	4.00E-07
Salmon	58.26	-	-	-	-	-	-	-	-	-
Steak	58.26	0.000702	0.038	83%	3.48E-06	1.88E-04	1.08E-03	5.87E-02	1.56E-08	8.44E-07
Total	**233**				**9.23E-06**	**4.65E-04**	**2.88E-03**	**1.45E-01**	**4.14E-08**	**2.09E-06**

[1] Source type is based on the beef, chicken, and fish for under-fired charbroilers.

[2] . Average quantities provided by applicant.

[3] SJVAPCD *Guidance for Air Dispersion Modeling, Draft 01/07 Rev 2.0,* Section 2.3.4 Restaurant and Fast Food Cooking Emissions

[4] South Coast Air Quality Management District Rule 1138 (Control of Emissions from Restaurant Operations) regulates PM10 and VOC emissions from fast-food restaurants with charbroilers. Catalytic oxidizers reduce VOC emissions by approximately 86 percent and PM emissions by approximately 83 percent.

[5] Restaurants assumed to operate 6 days/week, 312 days/year

[6] Emission rates used for modeling

Google Middlefield - Cooling Tower PM Emissions
Evaporative Cooling Tower PM Emissions

No. Cooling Tower Cells	3
Operating Hours per Year	2,100
Total Water Flow Rate (gpm)	6,765
Influent Water Total Dissolved Solids (TDS) Conc. (ppm)*	830
Circulating Water Cycles of Concentration*	3
Cooling Tower Circulating Water TDS (ppm)*	2,490
Mist Eliminator Efficiency (%)	0.005
Total Cooling Tower Drift (gpm)	0.34

Particulate Matter Emissions

	PM	PM10	PM2.5
Fraction of PM**	1.0	0.7	0.42
Hourly (lb/hr)	0.42	0.30	0.18
Average Daily (lb/day)	2.4	1.7	1.0
Annual lb/yr)	885	619.5	371.7
Annual (ton/yr)	0.44	0.3	0.2

* TDS and cycles of concentration values provided by applicant.
** South Coast AQMD, Final-Methodology to Calculate Particulate Matter (PM) 2.5 and PM2.5 Significance Thresholds, Appendix A.

Cooling Tower Modeling Parameters & PM2.5 Emissions

Modeled as three 14 ft x 14 ft volume sources on roof of Building O-1
Cooling tower height = 20 ft
Building height = 130 ft
Releasse height = 150 ft = 45.72 meters
Fore each colume source:
Initial lateral dimension = 0.99 meters
Initial vertical dimension = 18.43 meters
PM2.5 emissions per tower cell g/s) = 0.0018

Health Risk Impacts from Project Operation at Off-Site and On-Site Receptors – Unmitigated and Mitigated Project Construction Emissions

Google Middlefield - District Utilities Construction & Operation Sources - TACs & PM2.5
AERMOD Risk Modeling Parameters and Maximum Concentrations
Maximum Cancer Risk Calculations for Project Construction and Operation- Unmitigated
Off-Site Residential Receptors

Receptor Information

Number of Receptors	242
Receptor Height =	1st and 2nd floor levels
Receptor distances =	at sensitive residential receptor locations

Meteorological Conditions

CARB Moffett Field Met Data	2009-2013
Land Use Classification	urban
Wind speed =	variable
Wind direction =	variable

Off-Site MEIs Maximum Concentrations

Emission Years	Concentration (µg/m^3)		
	DPM	Exhaust TOG	Evaporative TOG
2023 - Construction	0.02777	0.0000	0.0000
2024 - Construction	0.04593	0.0000	0.0000
2025 - Construction	0.43184	0.0000	0.0000
2026 - Construction	0.21711	0.0000	0.0000
2027 - Construction	0.12831	0.0000	0.0000
2028 - Construction	0.08451	0.0000	0.0000
2029 - Construction	0.03364	0.0000	0.0000
2030 - Construction	0.00091	0.0000	0.0000
2031 - Construction	0.00021	0.0000	0.0000
2026-2054 - Roads	0.00028	0.0162	0.0262
2026-2054 - Generators	0.00499	0.0000	0.0000

Emission Year	Maximum Total PM2.5 Concentration (µg/m3)*
2025	2.38

* Maximum PM2.5 concetration from construction activities

Google Middlefield - District Utilities Construction & Operation Sources - TACs & PM2.5
AERMOD Risk Modeling Parameters and Maximum Concentrations
Maximum Cancer Risk Calculations for Project Construction and Operation- Mititigated
Off-Site Residential Receptors (1st & 2nd level receptor heights)

Receptor Information

Number of Receptors	242
Receptor Height =	1st and 2nd floor levels
Receptor distances =	at sensitive residential receptor locations

Meteorological Conditions

CARB Moffett Field Met Data	2009-2013
Land Use Classification	urban
Wind speed =	variable
Wind direction =	variable

Off-Site MEIs Maximum Concentrations

Emission Years	Concentration (µg/m^3)		
	DPM	Exhaust TOG	Evaporative TOG
2023 - Construction	0.00223	0.0000	0.0000
2024 - Construction	0.00513	0.0000	0.0000
2025 - Construction	0.05051	0.0000	0.0000
2026 - Construction	0.02976	0.0000	0.0000
2027 - Construction	0.02173	0.0000	0.0000
2028 - Construction	0.01743	0.0000	0.0000
2029 - Construction	0.00925	0.0000	0.0000
2030 - Construction	0.00061	0.0000	0.0000
2031 - Construction	0.00014	0.0000	0.0000
2026-2054 - Roads	0.00028	0.0162	0.0262
2026-2054 - Generators	0.00499	0.0000	0.0000

Emission Year	Maximum Total PM2.5 Concentration (µg/m3)*
2025	0.44

* Maximum PM2.5 concetration from construction activities

Google Middlefield - Project Impacts at Locations of Off-Site District Utilities MEIs
Maximum Cancer Risk Calculations for Project Construction and Operation- Unmitigated
Off-Site Residential Receptors
Residential Exposure (30-year)

Cancer Risk Calculation Method

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor $(mg/kg\text{-}day)^{-1}$
ASF = Age sensitivity factor for specified age group
ED = Exposure duration (years)
AT = Averaging time for lifetime cancer risk (years)
FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C_{air} x DBR x A x (EF/365) x 10^{-6}

Where: C_{air} = concentration in air $(\mu g/m^3)$
DBR = daily breathing rate (L/kg body weight-day)
A = Inhalation absorption factor
EF = Exposure frequency (days/year)
10^{-6} = Conversion factor

Values

Cancer Potency Factors $(mg/kg\text{-}day)^{-1}$

TAC	CPF
DPM	1.10E+00
Vehicle TOG Exhaust	6.28E-03
Vehicle TOG Evaporative	3.70E-04

	Infant/Child			Adult
Age -->	3rd Trimester	0 - <2	2 - <16	16 - 30
Parameter				
ASF	10	10	3	1
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
ED =	0.25	2	14	14
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

* 95th percentile breathing rates for infants and 80th percentile for children and adults

Road Traffic Cancer Risk by Year - Maximum Impact Receptor Location

				Maximum - Exposure Information				Cancer Risk (per million)					
					Annual TAC Conc (ug/m3)								
Exposure Year	Year	Exposure Duration (years)	Age	Age Sensitivity Factor	DPM	Exhaust TOG	Evaporative TOG	DPM	Exhaust TOG	Evaporative TOG	PAH**	Naphthalene**	Total
0	2023	0	-	-	0.0278	0.0000	0.0000	-	-	-	-	-	-
3rd Trimester	2024	0.25	-0.25 - 0*	10	0.0459	0.0000	0.0000	0.625	0.0000	0.0000	0.00000	0.00000	0.62
1	2025	1	1	10	0.4318	0.0000	0.0000	70.93	0.0000	0.0000	0.00000	0.00000	70.928
2	2026	1	2	10	0.2224	0.0162	0.0262	36.525	0.0152	0.0014	0.00146	0.00226	36.546
3	2027	1	3	3	0.1336	0.0162	0.0262	3.45	0.0024	0.0002	0.00023	0.00036	3.457
4	2028	1	4	3	0.0898	0.0162	0.0262	2.32	0.0024	0.0002	0.00023	0.00036	2.325
5	2029	1	5	3	0.0389	0.0162	0.0262	1.01	0.0024	0.0002	0.00023	0.00036	1.009
6	2030	1	6	3	0.0062	0.0162	0.0262	0.16	0.0024	0.0002	0.00023	0.00036	0.163
7	2031	1	7	3	0.0055	0.0162	0.0262	0.14	0.0024	0.0002	0.00023	0.00036	0.145
8	2032	1	8	3	0.0053	0.0162	0.0262	0.14	0.0024	0.0002	0.00023	0.00036	0.139
9	2033	1	9	3	0.0053	0.0162	0.0262	0.14	0.0024	0.0002	0.00023	0.00036	0.139
10	2034	1	10	3	0.0053	0.0162	0.0262	0.14	0.0024	0.0002	0.00023	0.00036	0.139
11	2035	1	11	3	0.0053	0.0162	0.0262	0.14	0.0024	0.0002	0.00023	0.00036	0.139
12	2036	1	12	3	0.0053	0.0162	0.0262	0.14	0.0024	0.0002	0.00023	0.00036	0.139
13	2037	1	13	3	0.0053	0.0162	0.0262	0.14	0.0024	0.0002	0.00023	0.00036	0.139
14	2038	1	14	3	0.0053	0.0162	0.0262	0.14	0.0024	0.0002	0.00023	0.00036	0.139
15	2039	1	15	3	0.0053	0.0162	0.0262	0.14	0.0024	0.0002	0.00023	0.00036	0.139
16	2040	1	16	3	0.0053	0.0162	0.0262	0.14	0.0024	0.0002	0.00023	0.00036	0.139
17	2041	1	17	1	0.0053	0.0162	0.0262	0.015	0.0003	0.0000	0.00003	0.00004	0.015
18	2042	1	18	1	0.0053	0.0162	0.0262	0.015	0.0003	0.0000	0.00003	0.00004	0.015
19	2043	1	19	1	0.0053	0.0162	0.0262	0.015	0.0003	0.0000	0.00003	0.00004	0.015
20	2044	1	20	1	0.0053	0.0162	0.0262	0.015	0.0003	0.0000	0.00003	0.00004	0.015
21	2045	1	21	1	0.0053	0.0162	0.0262	0.015	0.0003	0.0000	0.00003	0.00004	0.015
22	2046	1	22	1	0.0053	0.0162	0.0262	0.015	0.0003	0.0000	0.00003	0.00004	0.015
23	2047	1	23	1	0.0053	0.0162	0.0262	0.015	0.0003	0.0000	0.00003	0.00004	0.015
24	2048	1	24	1	0.0053	0.0162	0.0262	0.015	0.0003	0.0000	0.00003	0.00004	0.015
25	2049	1	25	1	0.0053	0.0162	0.0262	0.015	0.0003	0.0000	0.00003	0.00004	0.015
26	2050	1	26	1	0.0053	0.0162	0.0262	0.015	0.0003	0.0000	0.00003	0.00004	0.015
27	2051	1	27	1	0.0053	0.0162	0.0262	0.015	0.0003	0.0000	0.00003	0.00004	0.015
28	2052	1	28	1	0.0053	0.0162	0.0262	0.015	0.0003	0.0000	0.00003	0.00004	0.015
29	2053	1	29	1	0.0053	0.0162	0.0262	0.015	0.0003	0.0000	0.00003	0.00004	0.015
30	2054	1	30	1	0.0053	0.0162	0.0262	0.015	0.0003	0.0000	0.00003	0.00004	0.015
Total Increased Cancer Risk								116.5994	0.0525	0.0050	0.0050	0.0078	**116.67**

* Third trimester of pregnancy

** PAH and naphthalene cancer risks calculated separately

Google Middlefield - Project Impacts at Locations of Off-Site District Utilities MEIs
Maximum Cancer Risk Calculations for Project Construction and Operation- Mititigated
Off-Site Residential Receptors (1st & 2nd level receptor heights)
Residential Exposure (30-year)

Cancer Risk Calculation Method

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor $(mg/kg\text{-}day)^{-1}$
ASF = Age sensitivity factor for specified age group
ED = Exposure duration (years)
AT = Averaging time for lifetime cancer risk (years)
FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C_{air} x DBR x A x (EF/365) x 10^{-6}

Where: C_{air} = concentration in air $(\mu g/m^3)$
DBR = daily breathing rate (L/kg body weight-day)
A = Inhalation absorption factor
EF = Exposure frequency (days/year)
10^{-6} = Conversion factor

Values

Cancer Potency Factors $(mg/kg\text{-}day)^{-1}$

TAC	CPF
DPM	1.10E+00
Vehicle TOG Exhaust	6.28E-03
Vehicle TOG Evaporative	3.70E-04

	Infant/Child			Adult
Age -->	3rd Trimester	0 - <2	2 - <16	16 - 30
Parameter				
ASF	10	10	3	1
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
ED =	0.25	2	14	14
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

* 95th percentile breathing rates for infants and 80th percentile for children and adults

Road Traffic Cancer Risk by Year - Maximum Impact Receptor Location

				Maximum - Exposure Information				Cancer Risk (per million)					
					Annual TAC Conc (ug/m3)								
Exposure Year	Year	Exposure Duration (years)	Age	Age Sensitivity Factor	DPM	Exhaust TOG	Evaporative TOG	DPM	Exhaust TOG	Evaporative TOG	PAH**	Naphthalene**	Total
0	2023	0	-	-	0.0022	0.0000	0.0000	-	-	-	-	-	-
3rd Trimester	2024	0.25	-0.25 - 0*	10	0.0051	0.0000	0.0000	0.070	0.0000	0.0000	0.00000	0.00000	0.07
1	2025	1	1	10	0.0505	0.0000	0.0000	8.30	0.0000	0.0000	0.00000	0.00000	8.296
2	2026	1	2	10	0.0350	0.0162	0.0262	5.754	0.0152	0.0014	0.00146	0.00226	5.774
3	2027	1	3	3	0.0270	0.0162	0.0262	0.70	0.0024	0.0002	0.00023	0.00036	0.701
4	2028	1	4	3	0.0227	0.0162	0.0262	0.59	0.0024	0.0002	0.00023	0.00036	0.590
5	2029	1	5	3	0.0145	0.0162	0.0262	0.38	0.0024	0.0002	0.00023	0.00036	0.379
6	2030	1	6	3	0.0059	0.0162	0.0262	0.15	0.0024	0.0002	0.00023	0.00036	0.155
7	2031	1	7	3	0.0054	0.0162	0.0262	0.14	0.0024	0.0002	0.00023	0.00036	0.143
8	2032	1	8	3	0.0053	0.0162	0.0262	0.14	0.0024	0.0002	0.00023	0.00036	0.139
9	2033	1	9	3	0.0053	0.0162	0.0262	0.14	0.0024	0.0002	0.00023	0.00036	0.139
10	2034	1	10	3	0.0053	0.0162	0.0262	0.14	0.0024	0.0002	0.00023	0.00036	0.139
11	2035	1	11	3	0.0053	0.0162	0.0262	0.14	0.0024	0.0002	0.00023	0.00036	0.139
12	2036	1	12	3	0.0053	0.0162	0.0262	0.14	0.0024	0.0002	0.00023	0.00036	0.139
13	2037	1	13	3	0.0053	0.0162	0.0262	0.14	0.0024	0.0002	0.00023	0.00036	0.139
14	2038	1	14	3	0.0053	0.0162	0.0262	0.14	0.0024	0.0002	0.00023	0.00036	0.139
15	2039	1	15	3	0.0053	0.0162	0.0262	0.14	0.0024	0.0002	0.00023	0.00036	0.139
16	2040	1	16	3	0.0053	0.0162	0.0262	0.14	0.0024	0.0002	0.00023	0.00036	0.139
17	2041	1	17	1	0.0053	0.0162	0.0262	0.015	0.0003	0.0000	0.00003	0.00004	0.015
18	2042	1	18	1	0.0053	0.0162	0.0262	0.015	0.0003	0.0000	0.00003	0.00004	0.015
19	2043	1	19	1	0.0053	0.0162	0.0262	0.015	0.0003	0.0000	0.00003	0.00004	0.015
20	2044	1	20	1	0.0053	0.0162	0.0262	0.015	0.0003	0.0000	0.00003	0.00004	0.015
21	2045	1	21	1	0.0053	0.0162	0.0262	0.015	0.0003	0.0000	0.00003	0.00004	0.015
22	2046	1	22	1	0.0053	0.0162	0.0262	0.015	0.0003	0.0000	0.00003	0.00004	0.015
23	2047	1	23	1	0.0053	0.0162	0.0262	0.015	0.0003	0.0000	0.00003	0.00004	0.015
24	2048	1	24	1	0.0053	0.0162	0.0262	0.015	0.0003	0.0000	0.00003	0.00004	0.015
25	2049	1	25	1	0.0053	0.0162	0.0262	0.015	0.0003	0.0000	0.00003	0.00004	0.015
26	2050	1	26	1	0.0053	0.0162	0.0262	0.015	0.0003	0.0000	0.00003	0.00004	0.015
27	2051	1	27	1	0.0053	0.0162	0.0262	0.015	0.0003	0.0000	0.00003	0.00004	0.015
28	2052	1	28	1	0.0053	0.0162	0.0262	0.015	0.0003	0.0000	0.00003	0.00004	0.015
29	2053	1	29	1	0.0053	0.0162	0.0262	0.015	0.0003	0.0000	0.00003	0.00004	0.015
30	2054	1	30	1	0.0053	0.0162	0.0262	0.015	0.0003	0.0000	0.00003	0.00004	0.015
Total Increased Cancer Risk								17.5102	0.0525	0.0050	0.0050	0.0078	**17.58**

* Third trimester of pregnancy

** PAH and naphthalene cancer risks calculated separately

Google Middlefield - Project Opertation. - Restaurant Charbroilers
AERMOD Risk Modeling Parameters and Maximum TAC Concentrations
Off-Site Residential Receptors - 1st and 2nd Floor Levels
Receptor at Off-Site Location of Maximum Cancer Risk from Project Operation

Receptor Information

Number of Receptors	242
Receptor Height =	1st & 2nd floor levels
Receptor distances =	variable - at nearby residences

Meteorological Conditions

CARB Moffett Field Met Data	2009-2013
Land Use Classification	urban
Wind speed =	variable
Wind direction =	variable

Cancer Risk Off-Site Project MEI Max Concentrations

TAC	On-Site Project MEI Max Period Average TAC Concentration ($\mu g/m^3$)
PAHs	2.50E-06
Naphthalene	1.26E-04

Non-Cancer Health Effects

TAC	On-Site MEI Hazard Index Chronic
PAHs	-
Naphthalene	1.40E-05
Total	**0.00001**

Google Middlefield - Project Opertation. - Restaurant Charbroilers
Maximum Cancer & Non-Cancer Health Impacts
at Off-Site Location of Maximum Cancer Risk from Project Operation
30-Year Residential Exposure

Cancer Risk Calculation Method

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor $(mg/kg\text{-}day)^{-1}$

ASF = Age sensitivity factor for specified age group
ED = Exposure duration (years)
AT = Averaging time for lifetime cancer risk (years)
FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C_{air} x DBR x A x (EF/365) x 10^{-6}

Where: C_{air} = concentration in air $(\mu g/m^3)$
DBR = daily breathing rate (L/kg body weight-day)
A = Inhalation absorption factor
EF = Exposure frequency (days/year)
10^{-6} = Conversion factor

Values

	Infant/Child			Adult
Age -->	**3rd Trimester**	**0 - <2**	**2 - <16**	**16 - 70**
Parameter				
ASF	10	10	3	1
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
ED =	0.25	2	14	14
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

* 95th percentile breathing rates for infants and 80th percentile for children and adults

Cancer Potency Factors and Reference Exposure Levels (REL)

		REL $(\mu g/m^3)$	
TAC	**CPF $(mg/kg\text{-}day)^{-1}$**	**Acute (1-hour)**	**Chronic (ann ave)**
PAHs	3.90E+00	-	-
Naphthalene	1.20E-01		9

Project Operation Cancer Risk - Maximum Project Operation Impact Receptor Location

		Exposure Information				Cancer Risk (per million)		
Exposure Year Age	**Initial Exposure Year**	**Exposure Duration (years)**	**Age Sensitivity Factor**	**Annual Conc (ug/m3) PAHs**	**Naph-thalene**	**PAHs**	**Naph-thalene**	**Total**
0	2023							
3rd Trimester	2024	0.25	10	0.000000	0.00000	0.00000	0.00000	0.00000
1	2025	1	10	0.000000	0.00000	0.00000	0.00000	0.00000
2	2026	1	10	0.000002	0.00013	0.00146	0.00226	0.00371
3	2027	1	3	0.000002	0.00013	0.00023	0.00036	0.00058
4	2028	1	3	0.000002	0.00013	0.00023	0.00036	0.00058
5	2029	1	3	0.000002	0.00013	0.00023	0.00036	0.00058
6	2030	1	3	0.000002	0.00013	0.00023	0.00036	0.00058
7	2031	1	3	0.000002	0.00013	0.00023	0.00036	0.00058
8	2032	1	3	0.000002	0.00013	0.00023	0.00036	0.00058
9	2033	1	3	0.000002	0.00013	0.00023	0.00036	0.00058
10	2034	1	3	0.000002	0.00013	0.00023	0.00036	0.00058
11	2035	1	3	0.000002	0.00013	0.00023	0.00036	0.00058
12	2036	1	3	0.000002	0.00013	0.00023	0.00036	0.00058
13	2037	1	3	0.000002	0.00013	0.00023	0.00036	0.00058
14	2038	1	3	0.000002	0.00013	0.00023	0.00036	0.00058
15	2039	1	3	0.000002	0.00013	0.00023	0.00036	0.00058
16	2040	1	3	0.000002	0.00013	0.00023	0.00036	0.00058
17	2041	1	1	0.000002	0.00013	0.00003	0.00004	0.00006
18	2042	1	1	0.000002	0.00013	0.00003	0.00004	0.00006
19	2043	1	1	0.000002	0.00013	0.00003	0.00004	0.00006
20	2044	1	1	0.000002	0.00013	0.00003	0.00004	0.00006
21	2045	1	1	0.000002	0.00013	0.00003	0.00004	0.00006
22	2046	1	1	0.000002	0.00013	0.00003	0.00004	0.00006
23	2047	1	1	0.000002	0.00013	0.00003	0.00004	0.00006
24	2048	1	1	0.000002	0.00013	0.00003	0.00004	0.00006
25	2049	1	1	0.000002	0.00013	0.00003	0.00004	0.00006
26	2050	1	1	0.000002	0.00013	0.00003	0.00004	0.00006
27	2051	1	1	0.000002	0.00013	0.00003	0.00004	0.00006
28	2052	1	1	0.000002	0.00013	0.00003	0.00004	0.00006
29	2053	1	1	0.000002	0.00013	0.00003	0.00004	0.00006
30	2054	1	1	0.000002	0.00013	0.00003	0.00004	0.00006
Total Increased Cancer Risk						**0.0050**	**0.0078**	**0.013**

* Third trimester of pregnancy

Google Middlefield - Construction & Operation Sources - TACs & PM2.5
AERMOD Risk Modeling Parameters and Maximum Concentrations
Maximum Cancer Risk Calculations for Project Construction and Operation- Unmitigated
On-Site Residential Receptors

Receptor Information

Number of Receptors	384
Receptor Height =	2nd floor level
Receptor distances =	9 meter grid spacing in residential areas

Meteorological Conditions

CARB Moffett Field Met Data	2009-2013
Land Use Classification	urban
Wind speed =	variable
Wind direction =	variable

On-Site MEIs Maximum Concentrations

Emission Years	Concentration (µg/m^3)		
	DPM	Exhaust TOG	Evaporative TOG
2023 - Construction	0.00000	0.0000	0.0000
2024 - Construction	0.00000	0.0000	0.0000
2025 - Construction	0.00000	0.0000	0.0000
2026 - Construction	0.50599	0.0000	0.0000
2027 - Construction	0.34488	0.0000	0.0000
2028 - Construction	0.13850	0.0000	0.0000
2029 - Construction	0.05729	0.0000	0.0000
2030 - Construction	0.00509	0.0000	0.0000
2031 - Construction	0.00116	0.0000	0.0000
2026-2055 - Roads	0.00068	0.0407	0.0647
2026-2055 - Generators	0.01348	0.0000	0.0000

Emission Year	Maximum Total PM2.5 Concentration (µg/m3)*
2025	0.695

* Maximum PM2.5 concetration from construction & operation activities and use of MERV-13 for on-site receptors

Google Middlefield - Construction & Operation Sources - TACs & PM2.5
AERMOD Risk Modeling Parameters and Maximum Concentrations
Maximum Cancer Risk Calculations for Project Construction and Operation- Mitigated
On-Site Residential Receptors (2nd floor level receptors)

Receptor Information

Number of Receptors	384
Receptor Height =	2nd floor level
Receptor distances =	9 meter grid spacing in residential areas

Meteorological Conditions

CARB Moffett Field Met Data	2009-2013
Land Use Classification	urban
Wind speed =	variable
Wind direction =	variable

On-Site MEIs Maximum Concentrations

Emission Years	Concentration (µg/m^3)		
	DPM	Exhaust TOG	Evaporative TOG
2023 - Construction	0.00000	0.0000	0.0000
2024 - Construction	0.00000	0.0000	0.0000
2025 - Construction	0.00000	0.0000	0.0000
2026 - Construction	0.05838	0.0000	0.0000
2027 - Construction	0.04526	0.0000	0.0000
2028 - Construction	0.02637	0.0000	0.0000
2029 - Construction	0.01785	0.0000	0.0000
2030 - Construction	0.00341	0.0000	0.0000
2031 - Construction	0.00077	0.0000	0.0000
2026-2055 - Roads	0.00068	0.0407	0.0647
2026-2055 - Generators	0.01348	0.0000	0.0000

Emission Year	Maximum Total PM2.5 Concentration (µg/m3)*
2025	0.144

* Maximum PM2.5 concetration from construction & operation activities and use of MERV-13 for on-site receptors

Google Middlefield - Project Impacts at Location of On-Site MEI
Maximum Cancer Risk Calculations for Project Construction and Operation- Unmitigated
On-Site Residential Receptors
Residential Exposure (30-year)

Cancer Risk Calculation Method

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor $(mg/kg\text{-}day)^{-1}$
ASF = Age sensitivity factor for specified age group
ED = Exposure duration (years)
AT = Averaging time for lifetime cancer risk (years)
FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C_{air} x DBR x A x (EF/365) x 10^{-6}

Where: C_{air} = concentration in air $(\mu g/m^3)$
DBR = daily breathing rate (L/kg body weight-day)
A = Inhalation absorption factor
EF = Exposure frequency (days/year)
10^{-6} = Conversion factor

Values

Cancer Potency Factors $(mg/kg\text{-}day)^{-1}$

TAC	CPF
DPM	1.10E+00
Vehicle TOG Exhaust	6.28E-03
Vehicle TOG Evaporative	3.70E-04

	Infant/Child			Adult
Age -->	3rd Trimester	0 - <2	2 - <16	16 - 30
Parameter				
ASF	10	10	3	1
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
ED =	0.25	2	14	14
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

* 95th percentile breathing rates for infants and 80th percentile for children and adults

Project Construction & Operation Cancer Risk by Year - Maximum Impact Receptor Location

				Maximum - Exposure Information				Cancer Risk (per million)					
					Annual TAC Conc (ug/m3)								
Exposure Year	Year	Exposure Duration (years)	Age	Age Sensitivity Factor	DPM	Exhaust TOG	Evaporative TOG	DPM	Exhaust TOG	Evaporative TOG	PAH**	Naphthalene**	Total
0	2023	0	-	-	0.0000	0.0000	0.0000	-	-	-	-	-	-
0	2024	0	-	-	0.0000	0.0000	0.0000	-	-	-	-	-	-
3rd Trimester	2025	0.25	-0.25 - 0*	10	0.0000	0.0000	0.0000	0.00	0.0000	0.0000	0.00000	0.00000	0.000
1	2026	1	2	10	0.5202	0.0407	0.0647	85.433	0.0382	0.0036	0.00187	0.00290	85.479
2	2027	1	3	10	0.3590	0.0407	0.0647	58.971	0.0382	0.0036	0.00029	0.00046	59.014
3	2028	1	4	3	0.1527	0.0407	0.0647	3.95	0.0060	0.0006	0.00029	0.00046	3.955
4	2029	1	5	3	0.0715	0.0407	0.0647	1.85	0.0060	0.0006	0.00029	0.00046	1.855
5	2030	1	6	3	0.0193	0.0407	0.0647	0.50	0.0060	0.0006	0.00029	0.00046	0.505
6	2031	1	7	3	0.0153	0.0407	0.0647	0.40	0.0060	0.0006	0.00029	0.00046	0.403
7	2032	1	8	3	0.0142	0.0407	0.0647	0.37	0.0060	0.0006	0.00029	0.00046	0.373
8	2033	1	9	3	0.0142	0.0407	0.0647	0.37	0.0060	0.0006	0.00029	0.00046	0.373
9	2034	1	10	3	0.0142	0.0407	0.0647	0.37	0.0060	0.0006	0.00029	0.00046	0.373
10	2035	1	11	3	0.0142	0.0407	0.0647	0.37	0.0060	0.0006	0.00029	0.00046	0.373
11	2036	1	12	3	0.0142	0.0407	0.0647	0.37	0.0060	0.0006	0.00029	0.00046	0.373
12	2037	1	13	3	0.0142	0.0407	0.0647	0.37	0.0060	0.0006	0.00029	0.00046	0.373
13	2038	1	14	3	0.0142	0.0407	0.0647	0.37	0.0060	0.0006	0.00029	0.00046	0.373
14	2039	1	15	3	0.0142	0.0407	0.0647	0.37	0.0060	0.0006	0.00029	0.00046	0.373
15	2040	1	16	3	0.0142	0.0407	0.0647	0.37	0.0060	0.0006	0.00029	0.00046	0.373
16	2041	1	17	3	0.0142	0.0407	0.0647	0.37	0.0060	0.0006	0.00003	0.00005	0.373
17	2042	1	18	1	0.0142	0.0407	0.0647	0.041	0.0007	0.0001	0.00003	0.00005	0.041
18	2043	1	19	1	0.0142	0.0407	0.0647	0.041	0.0007	0.0001	0.00003	0.00005	0.041
19	2044	1	20	1	0.0142	0.0407	0.0647	0.041	0.0007	0.0001	0.00003	0.00005	0.041
20	2045	1	21	1	0.0142	0.0407	0.0647	0.041	0.0007	0.0001	0.00003	0.00005	0.041
21	2046	1	22	1	0.0142	0.0407	0.0647	0.041	0.0007	0.0001	0.00003	0.00005	0.041
22	2047	1	23	1	0.0142	0.0407	0.0647	0.041	0.0007	0.0001	0.00003	0.00005	0.041
23	2048	1	24	1	0.0142	0.0407	0.0647	0.041	0.0007	0.0001	0.00003	0.00005	0.041
24	2049	1	25	1	0.0142	0.0407	0.0647	0.041	0.0007	0.0001	0.00003	0.00005	0.041
25	2050	1	26	1	0.0142	0.0407	0.0647	0.041	0.0007	0.0001	0.00003	0.00005	0.041
26	2051	1	27	1	0.0142	0.0407	0.0647	0.041	0.0007	0.0001	0.00003	0.00005	0.041
27	2052	1	28	1	0.0142	0.0407	0.0647	0.041	0.0007	0.0001	0.00003	0.00005	0.041
28	2053	1	29	1	0.0142	0.0407	0.0647	0.041	0.0007	0.0001	0.00003	0.00005	0.041
29	2054	1	30	1	0.0142	0.0407	0.0647	0.041	0.0007	0.0001	0.00003	0.00005	0.041
30	2055	1	30	1	0.0142	0.0407	0.0647	0.041	0.0007	0.0001	0.00003	0.00005	0.041
Total Increased Cancer Risk								**155.32**	**0.1699**	**0.0159**	**0.0065**	**0.0101**	**155.53**
Total Increased Cancer Risk With use of MERV-13 Filtration								**46.60**	**0.1699**	**0.0159**	**0.0065**	**0.0101**	**46.80**

* Third trimester of pregnancy

** PAH and naphthalene cancer risks calculated separately

Google Middlefield - Project Impacts at Location of On-Site MEI
Maximum Cancer Risk Calculations for Project Construction and Operation- Mitigated
On-Site Residential Receptors (2nd floor level receptors)
Residential Exposure (30-year)

Cancer Risk Calculation Method

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor $(mg/kg\text{-}day)^{-1}$
ASF = Age sensitivity factor for specified age group
ED = Exposure duration (years)
AT = Averaging time for lifetime cancer risk (years)
FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C_{air} x DBR x A x (EF/365) x 10^{-6}

Where: C_{air} = concentration in air $(\mu g/m^3)$
DBR = daily breathing rate (L/kg body weight-day)
A = Inhalation absorption factor
EF = Exposure frequency (days/year)
10^{-6} = Conversion factor

Values

Cancer Potency Factors $(mg/kg\text{-}day)^{-1}$

TAC	CPF
DPM	1.10E+00
Vehicle TOG Exhaust	6.28E-03
Vehicle TOG Evaporative	3.70E-04

	Infant/Child			Adult
Age -->	3rd Trimester	0 - <2	2 - <16	16 - 30
Parameter				
ASF	10	10	3	1
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
ED =	0.25	2	14	14
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

* 95th percentile breathing rates for infants and 80th percentile for children and adults

Project Construction & Operation Cancer Risk by Year - Maximum Impact Receptor Location

				Maximum - Exposure Information				Cancer Risk (per million)					
					Annual TAC Conc (ug/m3)								
Exposure Year	Year	Exposure Duration (years)	Age	Age Sensitivity Factor	DPM	Exhaust TOG	Evaporative TOG	DPM	Exhaust TOG	Evaporative TOG	PAH**	Naphthalene**	Total
0	2023	0	-	-	0.0000	0.0000	0.0000	-	-	-	-	-	-
0	2024	0	-	-	0.0000	0.0000	0.0000	-	-	-	-	-	-
3rd Trimester	2025	0.25	-0.25 - 0*	10	0.0000	0.0000	0.0000	0.00	0.0000	0.0000	0.0000	0.0000	0.000
1	2026	1	2	10	0.0725	0.0407	0.0647	11.914	0.0382	0.0036	0.0019	0.0029	11.961
2	2027	1	3	10	0.0594	0.0407	0.0647	9.760	0.0382	0.0036	0.0003	0.0005	9.802
3	2028	1	4	3	0.0405	0.0407	0.0647	1.05	0.0060	0.0006	0.0003	0.0005	1.055
4	2029	1	5	3	0.0320	0.0407	0.0647	0.83	0.0060	0.0006	0.0003	0.0005	0.835
5	2030	1	6	3	0.0176	0.0407	0.0647	0.45	0.0060	0.0006	0.0003	0.0005	0.462
6	2031	1	7	3	0.0149	0.0407	0.0647	0.39	0.0060	0.0006	0.0003	0.0005	0.393
7	2032	1	8	3	0.0142	0.0407	0.0647	0.37	0.0060	0.0006	0.0003	0.0005	0.373
8	2033	1	9	3	0.0142	0.0407	0.0647	0.37	0.0060	0.0006	0.0003	0.0005	0.373
9	2034	1	10	3	0.0142	0.0407	0.0647	0.37	0.0060	0.0006	0.0003	0.0005	0.373
10	2035	1	11	3	0.0142	0.0407	0.0647	0.37	0.0060	0.0006	0.0003	0.0005	0.373
11	2036	1	12	3	0.0142	0.0407	0.0647	0.37	0.0060	0.0006	0.0003	0.0005	0.373
12	2037	1	13	3	0.0142	0.0407	0.0647	0.37	0.0060	0.0006	0.0003	0.0005	0.373
13	2038	1	14	3	0.0142	0.0407	0.0647	0.37	0.0060	0.0006	0.0003	0.0005	0.373
14	2039	1	15	3	0.0142	0.0407	0.0647	0.37	0.0060	0.0006	0.0003	0.0005	0.373
15	2040	1	16	3	0.0142	0.0407	0.0647	0.37	0.0060	0.0006	0.0003	0.0005	0.373
16	2041	1	17	3	0.0142	0.0407	0.0647	0.37	0.0060	0.0006	0.0000	0.0001	0.373
17	2042	1	18	1	0.0142	0.0407	0.0647	0.041	0.0007	0.0001	0.0000	0.0001	0.041
18	2043	1	19	1	0.0142	0.0407	0.0647	0.041	0.0007	0.0001	0.0000	0.0001	0.041
19	2044	1	20	1	0.0142	0.0407	0.0647	0.041	0.0007	0.0001	0.0000	0.0001	0.041
20	2045	1	21	1	0.0142	0.0407	0.0647	0.041	0.0007	0.0001	0.0000	0.0001	0.041
21	2046	1	22	1	0.0142	0.0407	0.0647	0.041	0.0007	0.0001	0.0000	0.0001	0.041
22	2047	1	23	1	0.0142	0.0407	0.0647	0.041	0.0007	0.0001	0.0000	0.0001	0.041
23	2048	1	24	1	0.0142	0.0407	0.0647	0.041	0.0007	0.0001	0.0000	0.0001	0.041
24	2049	1	25	1	0.0142	0.0407	0.0647	0.041	0.0007	0.0001	0.0000	0.0001	0.041
25	2050	1	26	1	0.0142	0.0407	0.0647	0.041	0.0007	0.0001	0.0000	0.0001	0.041
26	2051	1	27	1	0.0142	0.0407	0.0647	0.041	0.0007	0.0001	0.0000	0.0001	0.041
27	2052	1	28	1	0.0142	0.0407	0.0647	0.041	0.0007	0.0001	0.0000	0.0001	0.041
28	2053	1	29	1	0.0142	0.0407	0.0647	0.041	0.0007	0.0001	0.0000	0.0001	0.041
29	2054	1	30	1	0.0142	0.0407	0.0647	0.041	0.0007	0.0001	0.0000	0.0001	0.041
30	2055	1	30	1	0.0142	0.0407	0.0647	0.041	0.0007	0.0001	0.0000	0.0001	0.041
Total Increased Cancer Risk								**28.62**	**0.1699**	**0.0159**	**0.0064**	**0.0100**	**28.82**
Total Increased Cancer Risk With use of MERV-13 Filtration								**8.59**	**0.1699**	**0.0159**	**0.0064**	**0.0100**	**8.79**

* Third trimester of pregnancy

** PAH and naphthalene cancer risks calculated separately

Google Middlefield - Project Opertation. - Restaurant Charbroilers
AERMOD Risk Modeling Parameters and Maximum TAC Concentrations
On-Site Residential Receptors - 2nd Floor Level
Receptor at On-Site Location of Maximum Cancer Risk from Project Operation

Receptor Information

Number of Receptors	384
Receptor Height =	2nd floor level
Receptor distances =	grids with 9 meter spacing within residential areas

Meteorological Conditions

CARB Moffett Field Met Data	2009-2013
Land Use Classification	urban
Wind speed =	variable
Wind direction =	variable

Cancer Risk On-Site Project MEI Max Concentrations

TAC	On-Site Project MEI Max Period Average TAC Concentration ($\mu g/m^3$)
PAHs	3.21E-06
Naphthalene	1.62E-04

Non-Cancer Health Effects

TAC	Off-Site MEI Hazard Index Chronic
PAHs	-
Naphthalene	1.80E-05
Total	**0.00002**

Google Middlefield - Project Opertation. - Restaurant Charbroilers
Maximum Cancer & Non-Cancer Health Impacts
at On-Site Location of Maximum Cancer Risk from Project Operation
30-Year Residential Exposure

Cancer Risk Calculation Method

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor $(mg/kg\text{-}day)^{-1}$

ASF = Age sensitivity factor for specified age group
ED = Exposure duration (years)
AT = Averaging time for lifetime cancer risk (years)
FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C_{air} x DBR x A x (EF/365) x 10^{-6}

Where: C_{air} = concentration in air $(\mu g/m^3)$
DBR = daily breathing rate (L/kg body weight-day)
A = Inhalation absorption factor
EF = Exposure frequency (days/year)
10^{-6} = Conversion factor

Values

	Infant/Child			Adult
Age -->	**3rd Trimester**	**0 - <2**	**2 - <16**	**16 - 70**
Parameter				
ASF	10	10	3	1
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
ED =	0.25	2	14	14
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

* 95th percentile breathing rates for infants and 80th percentile for children and adults

Cancer Potency Factors and Reference Exposure Levels (REL)

		REL $(\mu g/m^3)$	
TAC	**CPF $(mg/kg\text{-}day)^{-1}$**	**Acute (1-hour)**	**Chronic (ann ave)**
PAHs	3.90E+00	-	-
Naphthalene	1.20E-01		9

Project Operation Cancer Risk - Maximum Project Operation Impact Receptor Location

		Exposure Information				Cancer Risk (per million)		
Exposure Year Age	**Initial Exposure Year**	**Exposure Duration (years)**	**Age Sensitivity Factor**	**Annual Conc (ug/m3) PAHs**	**Naph-thalene**	**PAHs**	**Naph-thalene**	**Total**
0	2023							
3rd Trimester	2024	0.25	10	0.000000	0.00000	0.00000	0.00000	0.00000
1	2025	1	10	0.000000	0.00000	0.00000	0.00000	0.00000
2	2026	1	10	0.000003	0.00016	0.00187	0.00290	0.00477
3	2027	1	3	0.000003	0.00016	0.00029	0.00046	0.00075
4	2028	1	3	0.000003	0.00016	0.00029	0.00046	0.00075
5	2029	1	3	0.000003	0.00016	0.00029	0.00046	0.00075
6	2030	1	3	0.000003	0.00016	0.00029	0.00046	0.00075
7	2031	1	3	0.000003	0.00016	0.00029	0.00046	0.00075
8	2032	1	3	0.000003	0.00016	0.00029	0.00046	0.00075
9	2033	1	3	0.000003	0.00016	0.00029	0.00046	0.00075
10	2034	1	3	0.000003	0.00016	0.00029	0.00046	0.00075
11	2035	1	3	0.000003	0.00016	0.00029	0.00046	0.00075
12	2036	1	3	0.000003	0.00016	0.00029	0.00046	0.00075
13	2037	1	3	0.000003	0.00016	0.00029	0.00046	0.00075
14	2038	1	3	0.000003	0.00016	0.00029	0.00046	0.00075
15	2039	1	3	0.000003	0.00016	0.00029	0.00046	0.00075
16	2040	1	3	0.000003	0.00016	0.00029	0.00046	0.00075
17	2041	1	1	0.000003	0.00016	0.00003	0.00005	0.00008
18	2042	1	1	0.000003	0.00016	0.00003	0.00005	0.00008
19	2043	1	1	0.000003	0.00016	0.00003	0.00005	0.00008
20	2044	1	1	0.000003	0.00016	0.00003	0.00005	0.00008
21	2045	1	1	0.000003	0.00016	0.00003	0.00005	0.00008
22	2046	1	1	0.000003	0.00016	0.00003	0.00005	0.00008
23	2047	1	1	0.000003	0.00016	0.00003	0.00005	0.00008
24	2048	1	1	0.000003	0.00016	0.00003	0.00005	0.00008
25	2049	1	1	0.000003	0.00016	0.00003	0.00005	0.00008
26	2050	1	1	0.000003	0.00016	0.00003	0.00005	0.00008
27	2051	1	1	0.000003	0.00016	0.00003	0.00005	0.00008
28	2052	1	1	0.000003	0.00016	0.00003	0.00005	0.00008
29	2053	1	1	0.000003	0.00016	0.00003	0.00005	0.00008
30	2054	1	1	0.000003	0.00016	0.00003	0.00005	0.00008
Total Increased Cancer Risk						**0.0064**	**0.0100**	**0.016**

* Third trimester of pregnancy

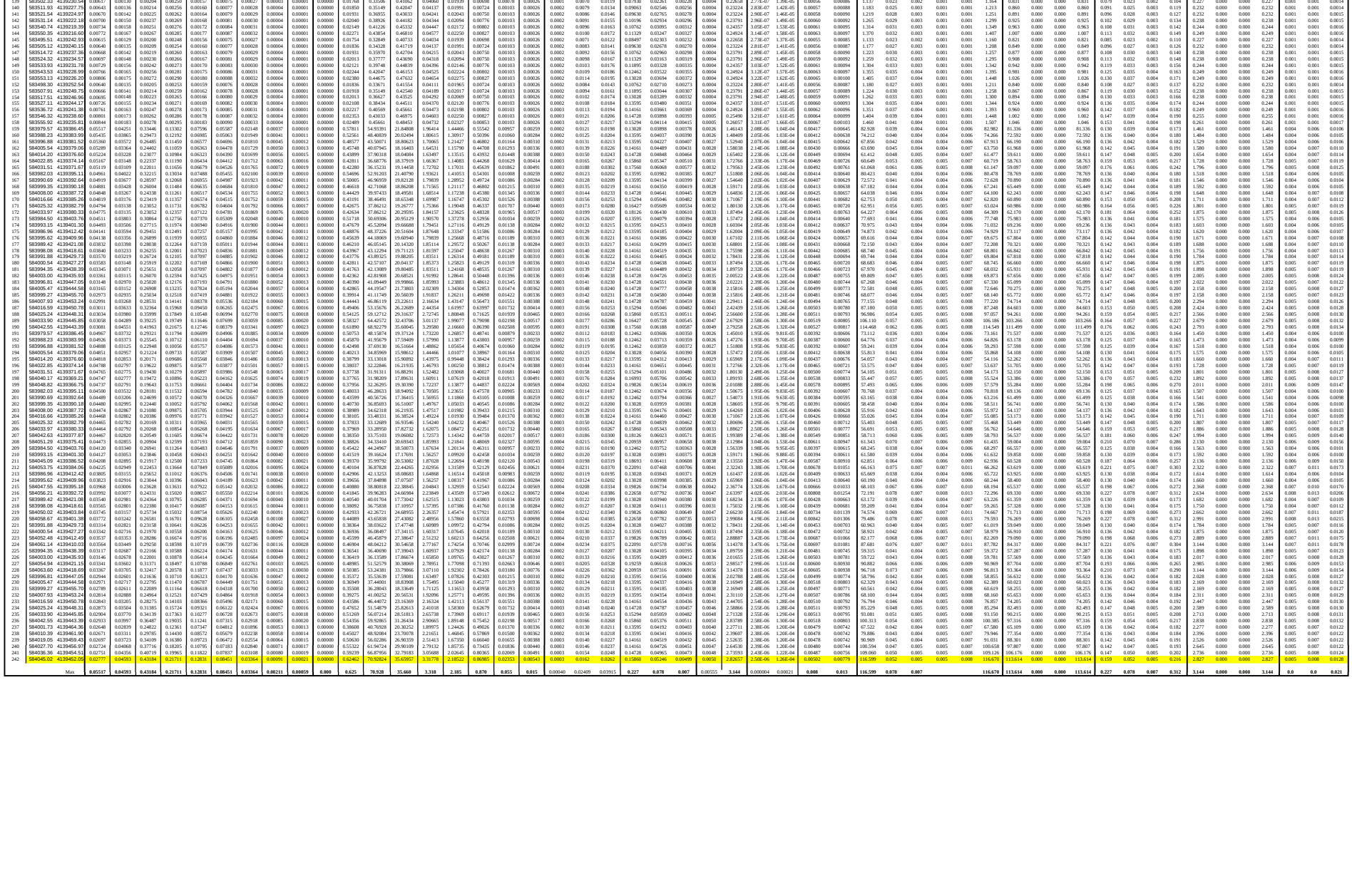
Google Middlefield - Project Impacts
Cancer Risk Calculations for Project Construction and Operation- Unmitigated
at Off-Site Residential Receptors

Exposure Types and Durations (years) for Cancer Risk Calculations - Project Impacts

Year(s) ->	2023	2024	2025	2026	2027	2028	2029	2030	2031	2026-2054		
Duration ->	1	1	1	1	1	1	1	1	1	29	29	29
Activity ->	Construct	Construct	Construct	Construct	Construct	Construct	Construct	Construct	Construct	Local	Generators	Restaurants
Exposure Type										Roads	Operation	Operation
3rd Trimester (10)	0	0.25	0	0	0	0	0	0	0	0	0	0
Infant (10)	0	0	1	1	0	0	0	0	0	1	1	1
Child (3)	0	0	0	0	1	1	1	1	1	14	14	14
Adult (1)	0	0	0	0	0	0	0	0	0	14	14	14

Receptor	Receptor Coordinates		2023	2024	2025	2026	2027	2028	2029	2030	2031	2023	2024	2025	2026	2027	2028	2029	2030	2031	Local Roads- Project Traffic					
	UTM-X	UTM-Y	Construct	Construct	Construct	Construct	Construct	Construct	Construct	Construct	Construct	Construct	Construct	Construct	Construct	Construct	Construct	Construct	Construct	Construct	Concentration			Cancer Risk (per million)		
No.	(m)	(m)	DPM	DPM	DPM	DPM	DPM	DPM	DPM	DPM	DPM	Risk	Risk	Risk	Risk	Risk	Risk	Risk	Risk	Risk	DPM	Exh TOG	Evap TOG	DPM	Exh TOG	Evap TOG
1	583674.05	4138932.37	0.02117	0.00464	0.00706	0.00484	0.00281	0.00158	0.00057	0.00006	0.00002	0.00000	0.06310	1.15958	0.79495	0.07266	0.04085	0.01474	0.00155	0.00052	0.0001	0.0034	0.0057	0.03965	0.01090	0.00109
2	583685.82	4138936.00	0.02374	0.00523	0.00768	0.00513	0.00297	0.00169	0.00061	0.00006	0.00002	0.00000	0.07112	1.26141	0.84258	0.07680	0.04370	0.01577	0.00155	0.00052	0.0001	0.0036	0.0061	0.04532	0.01161	0.00116
3	583705.56	4138942.41	0.02906	0.00643	0.00888	0.00567	0.00328	0.00188	0.00069	0.00006	0.00002	0.00000	0.08744	1.45851	0.93128	0.08481	0.04861	0.01784	0.00155	0.00052	0.0001	0.0040	0.0068	0.04532	0.01294	0.00129
4	583715.08	4138945.35	0.03218	0.00713	0.00955	0.00597	0.00344	0.00199	0.00073	0.00007	0.00002	0.00000	0.09696	1.56855	0.98055	0.08895	0.05146	0.01888	0.00181	0.00052	0.0001	0.0042	0.0071	0.05098	0.01365	0.00136
5	583722.18	4138945.87	0.03462	0.00768	0.01006	0.00620	0.00357	0.00208	0.00076	0.00007	0.00002	0.00000	0.10444	1.65232	1.01833	0.09231	0.05378	0.01965	0.00181	0.00052	0.0001	0.0044	0.0074	0.05098	0.01410	0.00141
6	583727.20	4138939.64	0.03576	0.00793	0.01031	0.00635	0.00366	0.00213	0.00078	0.00007	0.00002	0.00000	0.10784	1.69338	1.04297	0.09464	0.05508	0.02017	0.00181	0.00052	0.0001	0.0044	0.0074	0.05098	0.01407	0.00141
7	583734.13	4138930.98	0.03727	0.00826	0.01063	0.00657	0.00379	0.00220	0.00080	0.00007	0.00002	0.00000	0.11233	1.74594	1.07910	0.09800	0.05689	0.02069	0.00181	0.00052	0.0001	0.0044	0.0074	0.05098	0.01407	0.00140
8	583740.36	4138923.02	0.03856	0.00854	0.01091	0.00676	0.00391	0.00227	0.00083	0.00008	0.00002	0.00000	0.11614	1.79193	1.11031	0.10110	0.05870	0.02146	0.00207	0.00052	0.0001	0.0043	0.0073	0.05098	0.01404	0.00140
9	583745.55	4138915.57	0.03948	0.00874	0.01112	0.00692	0.00401	0.00232	0.00085	0.00008	0.00002	0.00000	0.11886	1.82642	1.13659	0.10369	0.05999	0.02198	0.00207	0.00052	0.0001	0.0043	0.0073	0.05098	0.01397	0.00139
10	583750.23	4138909.86	0.04043	0.00895	0.01133	0.00707	0.00410	0.00238	0.00087	0.00008	0.00002	0.00000	0.12171	1.86091	1.16122	0.10602	0.06154	0.02250	0.00207	0.00052	0.0001	0.0043	0.0073	0.05098	0.01397	0.00139
11	583755.59	4138902.41	0.04136	0.00915	0.01154	0.00725	0.00421	0.00243	0.00089	0.00008	0.00002	0.00000	0.12443	1.89541	1.19079	0.10886	0.06283	0.02301	0.00207	0.00052	0.0001	0.0043	0.0073	0.05098	0.01394	0.00139
12	583747.80	4138895.84	0.03764	0.00831	0.01079	0.00693	0.00403	0.00232	0.00085	0.00008	0.00002	0.00000	0.11301	1.77222	1.13823	0.10421	0.05999	0.02198	0.00207	0.00052	0.0001	0.0041	0.0069	0.05098	0.01320	0.00132
13	583757.15	4138883.72	0.03919	0.00865	0.01115	0.00723	0.00422	0.00242	0.00088	0.00008	0.00002	0.00000	0.11763	1.83135	1.18750	0.10912	0.06258	0.02275	0.00207	0.00052	0.0001	0.0041	0.0069	0.05098	0.01323	0.00132
14	583765.46	4138890.29	0.04323	0.00956	0.01197	0.00758	0.00441	0.00255	0.00093	0.00009	0.00002	0.00000	0.13001	1.96603	1.24499	0.11403	0.06594	0.02405	0.00233	0.00052	0.0001	0.0043	0.0073	0.05098	0.01401	0.00139
15	583771.18	4138882.33	0.04410	0.00975	0.01219	0.00777	0.00453	0.00261	0.00095	0.00009	0.00002	0.00000	0.13259	2.00217	1.27620	0.11713	0.06749	0.02456	0.00233	0.00052	0.0001	0.0043	0.0073	0.05098	0.01397	0.00139
16	583776.72	4138875.93	0.04511	0.00997	0.01243	0.00796	0.00465	0.00268	0.00098	0.00009	0.00003	0.00000	0.13559	2.04158	1.30740	0.12024	0.06930	0.02534	0.00233	0.00078	0.0001	0.0043	0.0073	0.05098	0.01404	0.00140
17	583783.64	4138866.92	0.04613	0.01019	0.01269	0.00820	0.00480	0.00276	0.00101	0.00009	0.00003	0.00000	0.13858	2.08429	1.34682	0.12412	0.07137	0.02612	0.00233	0.00078	0.0001	0.0044	0.0073	0.05098	0.01407	0.00140
18	583788.14	4138861.04	0.04673	0.01032	0.01285	0.00836	0.00490	0.00281	0.00103	0.00010	0.00003	0.00000	0.14034	2.11057	1.37310	0.12670	0.07266	0.02663	0.00259	0.00078	0.0001	0.0044	0.0073	0.05098	0.01407	0.00140
19	583794.20	4138852.90	0.04743	0.01047	0.01305	0.00856	0.00503	0.00288	0.00105	0.00010	0.00003	0.00000	0.14238	2.14342	1.40595	0.13006	0.07447	0.02715	0.00259	0.00078	0.0001	0.0044	0.0073	0.05098	0.01407	0.00140
20	583714.91	4138939.46	0.03162	0.00700	0.00944	0.00595	0.00344	0.00198	0.00072	0.00007	0.00002	0.00000	0.09520	1.55049	0.97727	0.08895	0.05120	0.01862	0.00181	0.00052	0.0001	0.0041	0.0070	0.05098	0.01333	0.00133
21	583719.93	4138932.71	0.03260	0.00722	0.00965	0.00610	0.00352	0.00203	0.00074	0.00007	0.00002	0.00000	0.09819	1.58498	1.00190	0.09102	0.05249	0.01913	0.00181	0.00052	0.0001	0.0041	0.0070	0.05098	0.01329	0.00133
22	583725.30	4138925.27	0.03360	0.00743	0.00987	0.00625	0.00362	0.00209	0.00076	0.00007	0.00002	0.00000	0.10104	1.62111	1.02654	0.09360	0.05404	0.01965	0.00181	0.00052	0.0001	0.0041	0.0069	0.05098	0.01326	0.00132
23	583731.88	4138917.30	0.03490	0.00772	0.01016	0.00645	0.00374	0.00216	0.00079	0.00007	0.00002	0.00000	0.10499	1.66875	1.05939	0.09671	0.05585	0.02043	0.00181	0.00052	0.0001	0.0041	0.0069	0.05098	0.01326	0.00132
24	583737.24	4138909.69	0.03580	0.00791	0.01037	0.00661	0.00383	0.00221	0.00080	0.00007	0.00002	0.00000	0.10757	1.70324	1.08567	0.09903	0.05715	0.02069	0.00181	0.00052	0.0001	0.0041	0.0069	0.05098	0.01323	0.00132
25	583742.96	4138903.11	0.03692	0.00816	0.01062	0.00679	0.00394	0.00227	0.00083	0.00008	0.00002	0.00000	0.11097	1.74430	1.11523	0.10188	0.05870	0.02146	0.00207	0.00052	0.0001	0.0041	0.0069	0.05098	0.01326	0.00132
26	583762.52	4138876.96	0.04008	0.00884	0.01136	0.00740	0.00432	0.00248	0.00090	0.00009	0.00002	0.00000	0.12022	1.86584	1.21542	0.11170	0.06413	0.02327	0.00233	0.00052	0.0001	0.0041	0.0069	0.05098	0.01326	0.00132
27	583768.41	4138869.87	0.04105	0.00905	0.01160	0.00760	0.00444	0.00254	0.00093	0.00009	0.00002	0.00000	0.12307	1.90526	1.24827	0.11481	0.06568	0.02405	0.00233	0.00052	0.0001	0.0041	0.0069	0.05098	0.01329	0.00132
28	583775.16	4138860.34	0.04189	0.00924	0.01182	0.00782	0.00458	0.00262	0.00095	0.00009	0.00003	0.00000	0.12566	1.94139	1.28441	0.11843	0.06775	0.02456	0.00233	0.00078	0.0001	0.0041	0.0069	0.05098	0.01329	0.00132
29	583781.04	4138853.42	0.04280	0.00944	0.01205	0.00801	0.00470	0.00268	0.00098	0.00009	0.00003	0.00000	0.12838	1.97917	1.31562	0.12153	0.06930	0.02534	0.00233	0.00078	0.0001	0.0041	0.0070	0.05098	0.01336	0.00133
30	583694.83	4138938.94	0.02599	0.00574	0.00820	0.00537	0.00311	0.00177	0.00064	0.00006	0.00002	0.00000	0.07806	1.34682	0.88200	0.08042	0.04577	0.01655	0.00155	0.00052	0.0001	0.0038	0.0064	0.04532	0.01219	0.00122
31	584511.66	4138899.64	0.04143	0.01026	0.01592	0.08906	0.04712	0.03019	0.01050	0.00211	0.00059	0.00000	0.13953	2.61481	14.62780	1.21841	0.78064	0.27150	0.05456	0.01526	0.0003	0.0169	0.0269	0.15294	0.05473	0.00514
32	584507.85	4138883.72	0.04304	0.01066	0.01611	0.08744	0.04668	0.02943	0.01031	0.00202	0.00057	0.00000	0.14497	2.64601	14.36172	1.20703	0.76099	0.26659	0.05223	0.01474	0.0003	0.0157	0.0250	0.14161	0.05085	0.00477
33	584503.70	4138868.48	0.04457	0.01103	0.01630	0.08586	0.04622	0.02871	0.01012	0.00195	0.00054	0.00000	0.15000	2.67722	14.10221	1.19514	0.74237	0.26168	0.05042	0.01396	0.0002	0.0147	0.0234	0.13595	0.04758	0.00447
34	584500.23	4138850.13	0.04575	0.01131	0.01643	0.08355	0.04539	0.02777	0.00985	0.00186	0.00052	0.00000	0.15381	2.69857	13.72280	1.17367	0.71806	0.25470	0.04810	0.01345	0.0002	0.0137	0.0218	0.12462	0.04428	0.00416
35	584537.28	4138897.91	0.03458	0.00852	0.01444	0.08130	0.04256	0.02808	0.00957	0.00201	0.00057	0.00000	0.11587	2.37172	13.35325	1.10050	0.72608	0.24746	0.05197	0.01474	0.0003	0.0170	0.0270	0.15294	0.05495	0.00516
36	584533.13	4138879.91	0.03609	0.00890	0.01466	0.08010	0.04233	0.02743	0.00943	0.00194	0.00055	0.00000	0.12103	2.40785	13.15615	1.09455	0.70927	0.24384	0.05016	0.01422	0.0003	0.0156	0.0249	0.14161	0.05049	0.00474
37	584527.93	4138865.02	0.03781	0.00932	0.01494	0.07952	0.04238	0.02702	0.00936	0.00188	0.00053	0.00000	0.12675	2.45384	13.06089	1.09584	0.69867	0.24203	0.04861	0.01370	0.0002	0.0147	0.0233	0.13595	0.04742	0.00445
38	583674.05	4138932.37	0.02034	0.00443	0.00681	0.00469	0.00271	0.00153	0.00056	0.00005	0.00002	0.00000	0.06024	1.11852	0.77032	0.07007	0.03956	0.01448	0.00129	0.00052	0.0001	0.0032	0.0053	0.03965	0.01022	0.00102
39	583685.82	4138936.00	0.02278	0.00498	0.00740	0.00497	0.00287	0.00163	0.00059	0.00006	0.00002	0.00000	0.06772	1.21542	0.81631	0.07421	0.04215	0.01526	0.00155	0.00052	0.0001	0.0034	0.0057	0.03965	0.01087	0.00109
40	583705.56	4138942.41	0.02782	0.00612	0.00856	0.00549	0.00316	0.00182	0.00066	0.00006	0.00002	0.00000	0.08323	1.40595	0.90171	0.08171	0.04706	0.01707	0.00155	0.00052	0.0001	0.0037	0.0063	0.04532	0.01210	0.00121
41	583715.08	4138945.35	0.03077	0.00678	0.00919	0.00578	0.00332	0.00193	0.00070	0.00006	0.00002	0.00000	0.09220	1.50943	0.94935	0.08585	0.04991	0.01810	0.00155	0.00052	0.0001	0.0039	0.0067	0.04532	0.01274	0.00127
42	583722.18	4138945.87	0.03308	0.00730	0.00968	0.00600	0.00345	0.00201	0.00073	0.00007	0.00002	0.00000	0.09928	1.58991	0.98548	0.08921	0.05197	0.01888	0.00181	0.00052	0.0001	0.0041	0.0069	0.04532	0.01316	0.00131
43	583727.20	4138939.64	0.03416	0.00753	0.00992	0.00615	0.00353	0.00206	0.00075	0.00007	0.00002	0.00000	0.10240	1.62933	1.01012	0.09128	0.05327	0.01939	0.00181	0.00052	0.0001	0.0041	0.0069	0.04532	0.01316	0.00131
44	583734.13	4138930.98	0.03560	0.00785	0.01023	0.00635	0.00366	0.00213	0.00078	0.00007	0.00002	0.00000	0.10675	1.68024	1.04297	0.09464	0.05508	0.02017	0.00181	0.00052	0.0001	0.0041	0.0069	0.04532	0.01313	0.00131
45	583740.36	4138923.02	0.03683	0.00812	0.01050	0.00654	0.00377	0.00219	0.00080	0.00007	0.00002	0.00000	0.11043	1.72459	1.07417	0.09748	0.05663	0.02069	0.00181	0.00052	0.0001	0.0041	0.0069	0.04532	0.01313	0.00131
46	583745.55	4138915.57	0.03771	0.00831	0.01070	0.00670	0.00387	0.00225	0.00082	0.00008	0.00002	0.00000	0.11301	1.75744	1.10045	0.10007	0.05818	0.02120	0.00207	0.00052	0.0001	0.0041	0.0068	0.04532	0.01310	0.00130
47	583750.23	4138909.86	0.03862	0.00850	0.01090	0.00684	0.00396	0.00230	0.00084	0.00008	0.00002	0.00000	0.11559	1.79029	1.12345	0.10240	0.05947	0.02172	0.00207	0.00052	0.0001	0.0041	0.0069	0.04532	0.01310	0.00131
48	583755.59	4138902.41	0.03951	0.00870	0.01111	0.00701	0.00407	0.00235	0.00086	0.00008	0.00002	0.00000	0.11831	1.82478	1.15137	0.10524	0.06077	0.02224	0.00207	0.00052	0.0001	0.0041	0.0068	0.04532	0.01310	0.00130
49	583747.80	4138895.84	0.03599	0.00791	0.01039	0.00671	0.00390	0.00224	0.00082	0.00008	0.00002	0.00000	0.10757	1.70652	1.10209	0.10084	0.05792	0.02120	0.00207	0.00052	0.0001	0.0038	0.0065	0.04532	0.01239	0.00124
50	583757.15	4138883.72	0.03748	0.00824	0.01074	0.00700	0.00408	0.00234	0.00085	0.00008	0.00002	0.00000	0.11206	1.76401	1.14973	0.10550	0.06051	0.02198	0.00207	0.00052	0.0001	0.0038	0.0065	0.04532	0.01242	0.00124
51	583765.46	4138890.29	0.04130	0.00909	0.01152	0.00734	0.00426	0.00246	0.00090	0.00008	0.00002	0.00000	0.12362	1.89212	1.20557	0.11015	0.06361	0.02327	0.00207	0.00052	0.0001	0.0041	0.0069	0.04532	0.01313	0.00131
52	583771.18	4138882.33	0.04215	0.00927	0.01173	0.00752	0.00438	0.00253	0.00092	0.00009	0.00002	0.00000	0.12607	1.92661	1.23513	0.11326	0.06542	0.02379	0.00233	0.00052	0.0001	0.0041	0.0069	0.04532	0.01313	0.00131
53	583776.72	4138875.93	0.04312	0.00949	0.01196	0.00771	0.00450	0.00259	0.00094	0.00009	0.00002	0.00000	0.12906	1.96439	1.26634	0.11636	0.06697	0.02431	0.00233	0.00052	0.0001	0.0041	0.0069	0.04532	0.01320	0.00131
54	583783.64	4138866.92	0.04411	0.00970	0.01221	0.00794	0.00464	0.00267	0.00097	0.00009	0.00003	0.00000	0.13191	2.00545	1.30412	0.11998	0.06904	0.02508	0.00233	0.00078	0.0001	0.0041	0.0069	0.04532	0.01323	0.00132
55	583788.14	4138861.04	0.04469	0.00983	0.01237	0.00809	0.00474	0.00272	0.00099	0.00009	0.00003	0.00000	0.13368	2.03173	1.32875	0.12256	0.07033	0.02560	0.00233	0.00078	0.0001	0.0041	0.0069	0.04532	0.01323	0.00132
56	583794.20	4138852.90	0.04539	0.00999	0.01257	0.00830	0.00486	0.00278	0.00102	0.00010	0.00003	0.00000	0.13586	2.06458	1.36325	0.12567	0.07188	0.02637	0.00259	0.00078	0.0001	0.0041	0.0069	0.04532	0.01326	0.00132
57	583714.91	4138939.46	0.03025	0.00666	0.00909	0.00576	0.00332	0.00192	0.00070	0.00006	0.00002	0.00000	0.09057	1.49300	0.94606	0.08585	0.04965	0.01810	0.00155	0.00052	0.0001	0.0039	0.0065	0.04532	0.01245	0.00124
58	583719.93	4138932.71	0.03118	0.00686	0.00929	0.00590	0.00340	0.00197	0.00072	0.00007	0.00002	0.00000	0.09329	1.52585	0.96905	0.08792	0.05094	0.01862	0.00181	0.00052	0.0001	0.0039	0.0065	0.04532	0.01245	0.00124
59	583725.30	4138925.27	0.03213	0.00707	0.00951	0.00605	0.00349	0.00202	0.00073	0.00007	0.00002	0.00000	0.09615	1.56198	0.99369	0.09024	0.05223	0.01888	0.00181	0.00052	0.0001	0.0038	0.0065	0.04532	0.01242	0.00124
60	583731.88	4138917.30	0.03338	0.00734	0.00979	0.00624	0.00361	0.00208	0.00076	0.00007	0.00002	0.00000	0.09982	1.60797	1.02490	0.09335	0.05378	0.01965	0.00181	0.00052	0.0001	0.0038	0.0065	0.04532	0.01242	0.00124
61	583737.24	4138909.69	0.03424	0.00753	0.00998	0.00640	0.00370	0.00214	0.00078	0.00007	0.00002	0.00000	0.10240	1.63918	1.05118	0.09567	0.05534	0.02017	0.00181	0.00052	0.0001	0.0038	0.0065	0.04532	0.01239	0.00124
62	583742.96	4138903.11	0.03531	0.00776	0.01023	0.00657	0.00381	0.00220	0.00080	0.00007	0.00002	0.00000	0.10553	1.68024	1.07910	0.09852	0.05689	0.02069	0.00181	0.00052	0.0001	0.0038	0.0065	0.04532	0.01242	0.00124
63	583762.52	4138876.96	0.03833	0.00842	0.01095	0.00717	0.00418	0.00240	0.00087	0.00008	0.00002	0.00000	0.11451	1.79850	1.17765	0.10808	0.06206	0.02250	0.00207	0.00052	0.0001	0.0039	0.0065	0.04532	0.01245	0.00124
64	583768.41	4138869.87	0.03926	0.00863	0.01117	0.00736	0.00430	0.00246	0.00090	0.00009	0.00002	0.00000	0.11736	1.83463	1.20885	0.11119	0.06361	0.02327	0.00233	0.00052	0.0001	0.0039	0.0065	0.04532	0.01252	0.00125
65	583775.16	4138860.34	0.04009	0.00880	0.01139	0.00757	0.00443	0.00253	0.00092	0.00009	0.00002	0.00000	0.11967	1.87077	1.24335	0.11455	0.06542	0.02379	0.00233	0.00052	0.0001	0.0039	0.0065	0.04532	0.01252	0.00124
66	583781.04	4138853.42	0.04096	0.00900	0.01161	0.00776	0.00455	0.00260	0.00095	0.00009	0.00003	0.00000	0.12239	1.90690	1.27455	0.11765	0.06723	0.02456	0.00233	0.00078	0.0001	0.0039	0.0066	0.04532	0.01258	0.00125
67	583694.83	4138938.94	0.02492	0.00547	0.00790	0.00520	0.00300	0.00172	0.00062	0.00006	0.00002	0.00000	0.07439	1.29755	0.85408	0.07757	0.04447	0.01603	0.00155	0.00052	0.0001	0.0035	0.0060	0.03965	0.01142	0.00114
68	584511.66	4138899.64	0.03946	0.00977	0.01541	0.08622	0.04559	0.02930	0.01016	0.00205	0.00058	0.00000	0.13287	2.53104	14.16134	1.17884	0.75763	0.26271	0.05301	0.01500	0.0003	0.0158	0.0252	0.14161	0.05114	0.00480
69	584507.85	4138883.72	0.04103	0.01015	0.01560	0.08468	0.04518	0.02856	0.00998	0.00197	0.00055	0.00000	0.13803	2.56225	13.90840	1.16824	0.73849	0.25806	0.05094	0.01422	0.0002	0.0148	0.0235	0.13595	0.04771	0.00448
70	584503.70	4138868.48	0.04251	0.01051	0.01578	0.08317	0.04475	0.02786	0.00980	0.00189	0.00053	0.00000	0.14293	2.59181	13.66039	1.15712	0.72039	0.25340	0.04887	0.01370	0.0002	0.0138	0.0221	0.12462	0.04477	0.00421
71	584500.23	4138850.13	0.04369	0.01078	0.01592	0.08099	0.04398	0.02696	0.00954	0.00181	0.00050	0.00000	0.14660	2.61481	13.30233	1.13721	0.69712	0.24668	0.04680	0.01293	0.0002	0.0129	0.0206	0.11895	0.04179	0.00393
72	584537.28	4138897.91	0.03301	0.00813	0.01399	0.07872	0.04118	0.02726	0.00927	0.00196	0.00055	0.00000	0.11056	2.29781	12.92949	1.06481	0.70488	0.23970	0.05068	0.01422	0.0003	0.0158	0.0252	0.14161	0.05123	0.00481
73	584533.13	4138879.91	0.03447	0.00849	0.01420	0.07761	0.04098	0.02664	0.00913	0.00189	0.00053	0.00000	0.11546	2.33230	12.74718	1.05964	0.68884	0.23608	0.04887	0.01370	0.0002	0.0146	0.0233	0.13028	0.04735	0.00444
74	584527.93	4138865.02	0.03614	0.00891	0.01448	0.07710	0.04106	0.02626	0.00908	0.00183	0.00052	0.00000	0.12117	2.37829	12.66341	1.06171	0.67902	0.23479	0.04732	0.01345	0.0002	0.0138	0.0220	0.12462	0.04470	0.00420
75	583484.36	4139204.52	0.00558	0.00116	0.00194	0.00240	0.00152	0.00071	0.00026	0.00003	0.00001	0.00000	0.01578	0.31864	0.39419	0.03930	0.01836	0.00672	0.00078	0.00026	0.0001	0.0043	0.0072	0.04532	0.01375	0.00138
76	583493.96	4139201.73	0.00580	0.00121	0.00203	0.00245	0.00155	0.00073	0.00027	0.00003	0.00001	0.00000	0.01646	0.33342	0.40240	0.04008	0.01888	0.00698	0.00078	0.00026	0.0001	0.0051	0.0087	0.05664	0.01643	0.00165
77	583503.57	4139198.94	0.00603	0.00127	0.00214	0.00251	0.00159	0.00075	0.00027	0.00003	0.00001	0.00000	0.01727	0.35149	0.41226	0.04111	0.01939	0.00698	0.00078	0.00026	0.0001	0.0059	0.0100	0.06797	0.01902	0.00191
78	583513.17	4139196.15	0.00628	0.00133	0.00225	0.00258	0.00162	0.00077	0.00028	0.00003	0.00001	0.00000	0.01809	0.36955	0.42376	0.04189	0.01991	0.00724	0.00078	0.00026	0.0001	0.0066	0.0113	0.07364	0.02138	0.00215
79	583522.77	4139193.37	0.00656	0.00140	0.00238	0.00265	0.00166	0.00079	0.00029	0.00003	0.00001	0.00000	0.01904	0.39091	0.43525	0.04292	0.02043	0.00750	0.00078	0.00026	0.0001	0.0073	0.0124	0.07930	0.02348	0.00236
80	583532.38	4139190.58	0.00687	0.00147	0.00253	0.00273	0.00171	0.00082	0.00030	0.00004	0.00001	0.00000	0.01999	0.41554	0.44839	0.04422	0.02120	0.00776	0.00103	0.00026	0.0002	0.0078	0.0133	0.08497	0.02526	0.00254
81	583541.98	4139187.79	0.00721	0.00155	0.00268	0.00281	0.00175	0.00085	0.00031	0.00004	0.00001	0.00000	0.02108	0.44018	0.46153	0.04525	0.02198	0.00802	0.00103	0.00026	0.0002	0.0083	0.0141	0.09063	0.02672	0.00269
82	583487.15	4139214.12	0.00577	0.00120	0.00197	0.00243	0.00154	0.00072	0.00026	0.00003	0.00001	0.00000	0.01632	0.32357	0.39912	0.03982	0.01862	0.00672	0.00078	0.00026	0.0001	0.0052	0.0088	0.05664	0.01675	0.00169
83	583496.75	4139211.33	0.00599	0.00125	0.00206	0.00249	0.00158	0.00074	0.00027	0.00003	0.00001	0.00000	0.01700	0.33835	0.40897	0.04085	0.01913	0.00698	0.00078	0.00026	0.0001	0.0062	0.0106	0.06797	0.02012	0.00202
84	583506.36	4139208.55	0.00624	0.00131	0.00217	0.00255	0.00161	0.00076	0.00028	0.00003	0.00001	0.00000	0.01782	0.35642	0.41883	0.04163	0.01965	0.00724	0.00078	0.00026	0.0001	0.0072	0.0123	0.07930	0.02319	0.00234
85	583515.96	4139205.76	0.00650	0.00138	0.00228	0.00262	0.00165	0.00078	0.00029	0.00004	0.00001	0.00000	0.01877	0.37448	0.43033	0.04266	0.02017	0.00750	0.00103	0.00026	0.0002	0.0080	0.0137	0.08497	0.02584	0.00260
86	583525.56	4139202.97	0.00679	0.00145	0.00241	0.00269	0.00169	0.00081	0.00030	0.00004	0.00001	0.00000	0.01972	0.39583	0.44182	0.04370	0.02094	0.00776	0.00103	0.00026	0.0002	0.0087	0.0148	0.09630	0.02808	0.00283
87	583535.17	4139200.18	0.00712	0.00153	0.00256	0.00277	0.00173	0.00083	0.00031	0.00004	0.00001	0.00000	0.02081	0.42047	0.45496	0.04473	0.02146	0.00802	0.00103	0.00026	0.0002	0.0093	0.0158	0.10196	0.02992	0.00301
88	583544.77	4139197.39	0.00746	0.00161	0.00272	0.00285	0.00178	0.00086	0.00032	0.00004	0.00001	0.00000	0.02189	0.44675	0.46810	0.04603	0.02224	0.00827	0.00103	0.00026	0.0002	0.0097	0.0166	0.10762	0.03141	0.00316
89	583489.94	4139223.73	0.00597	0.00125	0.00201	0.00247	0.00157	0.00074	0.00027	0.00003	0.00001	0.00000	0.01700	0.33014	0.40569	0.04060	0.01913	0.00698	0.00078	0.00026	0.0001	0.0065	0.0112	0.06797	0.02115	0.00213
90	583499.54	4139220.94	0.00620	0.00130	0.00210	0.00253	0.00160	0.00076	0.00028	0.00003	0.00001	0.00000	0.01768	0.34492	0.41554	0.04137	0.01965	0.00724	0.00078	0.00026	0.0002	0.0078	0.0134	0.08497	0.02533	0.00255
91	583509.14	4139218.15	0.00646	0.00136	0.00220	0.00259	0.00164	0.00078	0.00028	0.00004	0.00001	0.00000	0.01850	0.36134	0.42540	0.04241	0.02017	0.00724	0.00103	0.00026	0.0002	0.0089	0.0153	0.09630	0.02888	0.00291
92	583518.75	4139215.36	0.00674	0.00143	0.00232	0.00266	0.00167	0.00080	0.00029	0.00004	0.00001	0.00000	0.01945	0.38105	0.43690	0.04318	0.02069	0.00750	0.00103	0.00026	0.0002	0.0098	0.0168	0.10196	0.03176	0.00320
93	583528.35	4139212.57	0.00704	0.00151	0.00245	0.00273	0.00171	0.00082	0.00030	0.00004	0.00001	0.00000	0.02053	0.40240	0.44839	0.04422	0.02120	0.00776	0.00103	0.00026	0.0002	0.0105	0.0180	0.11329	0.03406	0.00343
94	583537.95	4139209.79	0.00738	0.00159	0.00259	0.00281	0.00176	0.00085	0.00031	0.00004	0.00001	0.00000	0.02162	0.42540	0.46153	0.04551	0.02198	0.00802	0.00103	0.00026	0.0002	0.0111	0.0190	0.11895	0.03594	0.00362
95	583547.56	4139207.00	0.00775	0.00168	0.00276	0.00289	0.00180	0.00088	0.00032	0.00004	0.00001	0.00000	0.02285	0.45332	0.47467	0.04654	0.02275	0.00827	0.00103	0.00026	0.0002	0.0116	0.0198	0.12462	0.03749	0.00378
96	583492.73	4139233.33	0.00618	0.00130	0.00205	0.00252	0.00159	0.00075	0.00027	0.00004	0.00001	0.00000	0.01768	0.33671	0.41390	0.04111	0.01939	0.00698	0.00103	0.00026	0.0002	0.0086	0.0146	0.09063	0.02772	0.00279
97	583502.33	4139230.54	0.00643	0.00136	0.00214	0.00257	0.00163	0.00077	0.00028	0.00004	0.00001	0.00000	0.01850	0.35149	0.42211	0.04215	0.01991	0.00724	0.00103	0.00026	0.0002	0.0101	0.0173	0.10196	0.03277	0.00330
98	583511.93	4139227.75	0.00671	0.00142	0.00224	0.00263	0.00166	0.00079	0.00029	0.00004	0.00001	0.00000	0.01931	0.36791	0.43197	0.04292	0.02043	0.00750	0.00103	0.00026	0.0002	0.0114	0.0194	0.11895	0.03674	0.00370
99	583521.54	4139224.97	0.00700	0.00149	0.00236	0.00270	0.00170	0.00081	0.00030	0.00004	0.00001	0.00000	0.02026	0.38762	0.44347	0.04396	0.02094	0.00776	0.00103	0.00026	0.0002	0.0123	0.0210	0.12462	0.03972	0.00400
100	583531.14	4139222.18	0.00732	0.00157	0.00249	0.00277	0.00174	0.00084	0.00031	0.00004	0.00001	0.00000	0.02135	0.40897	0.45496	0.04499	0.02172	0.00802	0.00103	0.00026	0.0002	0.0130	0.0222	0.13595	0.04202	0.00423
101	583540.74	4139219.39	0.00768	0.00166	0.00264	0.00285	0.00179	0.00086	0.00032	0.00004	0.00001	0.00000	0.02257	0.43361	0.46810	0.04628	0.02224	0.00827	0.00103	0.00026	0.0003	0.0136	0.0232	0.14161	0.04396	0.00443
102	583550.35	4139216.60	0.00808	0.00175	0.00281	0.00294	0.00184	0.00089	0.00033	0.00004	0.00001	0.00000	0.02380	0.46153	0.48288	0.04758	0.02301	0.00853	0.00103	0.00026	0.0003	0.0141	0.0241	0.14728	0.04564	0.00460
103	583495.51	4139242.93	0.00642	0.00135	0.00209	0.00256	0.00162	0.00077	0.00028	0.00004	0.00001	0.00000	0.01836	0.34328	0.42047	0.04189	0.01991	0.00724	0.00103	0.00026	0.0002	0.0117	0.0200	0.11329	0.03778	0.00381
104	583505.12	4139240.15	0.00668	0.00141	0.00218	0.00262	0.00165	0.00079	0.00029	0.00004	0.00001	0.00000	0.01918	0.35806	0.43033	0.04266	0.02043	0.00750	0.00103	0.00026	0.0002	0.0135	0.0231	0.13028	0.04367	0.00440
105	583514.72	4139237.36	0.00697	0.00148	0.00229	0.00268	0.00169	0.00081	0.00029	0.00004	0.00001	0.00000	0.02013	0.37612	0.44018	0.04370	0.02094	0.00750	0.00103	0.00026	0.0003	0.0148	0.0253	0.14161	0.04781	0.00482
106	583524.32	4139234.57	0.00728	0.00156	0.00241	0.00275	0.00173	0.00083	0.00030	0.00004	0.00001	0.00000	0.02121	0.39583	0.45168	0.04473	0.02146	0.00776	0.00103	0.00026	0.0003	0.0157	0.0268	0.15294	0.05075	0.00512
107	583533.93	4139231.78	0.00762	0.00164	0.00254	0.00282	0.00177	0.00085	0.00031	0.00004	0.00001	0.00000	0.02230	0.41719	0.46318	0.04577	0.02198	0.00802	0.00103	0.00026	0.0003	0.0164	0.0280	0.15860	0.05295	0.00534
108	583543.53	4139228.99	0.00801	0.00173	0.00269	0.00290	0.00182	0.00088	0.00032	0.00004	0.00001	0.00000	0.02353	0.44182	0.47632	0.04706	0.02275	0.00827	0.00103	0.00026	0.0003	0.0171	0.0292	0.16993	0.05518	0.00557
109	583553.13	4139226.20	0.00844	0.00184	0.00286	0.00299	0.00187	0.00091	0.00033	0.00004	0.00001	0.00000	0.02502	0.46975	0.49110	0.04835	0.02353	0.00853	0.00103	0.00026	0.0003	0.0176	0.0302	0.17560	0.05706	0.00576
110	583498.30	4139252.54	0.00668	0.00141	0.00214	0.00261	0.00165	0.00078	0.00029	0.00004	0.00001	0.00000	0.01918	0.35149	0.42868	0.04266	0.02017	0.00750	0.00103	0.00026	0.0003	0.0167	0.0285	0.15294	0.05389	0.00543
111	583507.91	4139249.75	0.00696	0.00147	0.00224	0.00266	0.00168	0.00080	0.00029	0.00004	0.00001	0.00000	0.01999	0.36791	0.43690	0.04344	0.02069	0.00750	0.00103	0.00026	0.0003	0.0185	0.0316	0.16993	0.05968	0.00602
112	583517.51	4139246.96	0.00726	0.00155	0.00234	0.00273	0.00172	0.00082	0.00030	0.00004	0.00001	0.00000	0.02108	0.38434	0.44839	0.04447	0.02120	0.00776	0.00103	0.00026	0.0003	0.0197	0.0336	0.18126	0.06359	0.00642
113	583527.11	4139244.17	0.00759	0.00163	0.00246	0.00279	0.00176	0.00085	0.00031	0.00004	0.00001	0.00000	0.02217	0.40405	0.45825	0.04551	0.02198	0.00802	0.00103	0.00026	0.0003	0.0205	0.0351	0.18693	0.06637	0.00670
114	583536.72	4139241.38	0.00796	0.00171	0.00259	0.00287	0.00180	0.00087	0.00032	0.00004	0.00001	0.00000	0.02325	0.42540	0.47139	0.04654	0.02250	0.00827	0.00103	0.00026	0.0004	0.0213	0.0364	0.19826	0.06880	0.00694
115	583546.32	4139238.60	0.00838	0.00182	0.00275	0.00296	0.00185	0.00090	0.00033	0.00004	0.00001	0.00000	0.02475	0.45168	0.48617	0.04784	0.02327	0.00853	0.00103	0.00026	0.0004	0.0221	0.0379	0.20392	0.07161	0.00723
116	583555.92	4139235.81	0.00885	0.00193	0.00292	0.00305	0.00191	0.00093	0.00034	0.00004	0.00001	0.00000	0.02625	0.47960	0.50095	0.04939	0.02405	0.00879	0.00103	0.00026	0.0004	0.0229	0.0392	0.20959	0.07400	0.00747
117	583484.36	4139204.52	0.00535	0.00111	0.00185	0.00232	0.00147	0.00069	0.00025	0.00003	0.00001	0.00000	0.01510	0.30386	0.38105	0.03801	0.01784	0.00646	0.00078	0.00026	0.0001	0.0035	0.0059	0.03965	0.01126	0.00113
118	583493.96	4139201.73	0.00556	0.00116	0.00194	0.00238	0.00150	0.00071	0.00026	0.00003	0.00001	0.00000	0.01578	0.31864	0.39091	0.03879	0.01836	0.00672	0.00078	0.00026	0.0001	0.0041	0.0071	0.04532	0.01339	0.00134
119	583503.57	4139198.94	0.00578	0.00121	0.00204	0.00244	0.00153	0.00073	0.00027	0.00003	0.00001	0.00000	0.01646	0.33506	0.40076	0.03956	0.01888	0.00698	0.00078	0.00026	0.0001	0.0048	0.0082	0.05664	0.01549	0.00156
120	583513.17	4139196.15	0.00602	0.00127	0.00215	0.00250	0.00156	0.00075	0.00027	0.00003	0.00001	0.00000	0.01727	0.35313	0.41062	0.04034	0.01939	0.00698	0.00078	0.00026	0.0001	0.0054	0.0092	0.06231	0.01743	0.00175
121	583522.77	4139193.37	0.00629	0.00133	0.00227	0.00256	0.00160	0.00077	0.00028	0.00003	0.00001	0.00000	0.01809	0.37284	0.42047	0.04137	0.01991	0.00724	0.00078	0.00026	0.0001	0.0059	0.0101	0.06797	0.01915	0.00193
122	583532.38	4139190.58	0.00658	0.00140	0.00241	0.00264	0.00164	0.00080	0.00029	0.00003	0.00001	0.00000	0.01904	0.39583	0.43361	0.04241	0.02069	0.00750	0.00078	0.00026	0.0001	0.0064	0.0109	0.07364	0.02067	0.00208
123	583541.98	4139187.79	0.00689	0.00148	0.00256	0.00271	0.00168	0.00082	0.00030	0.00004	0.00001	0.00000	0.02013	0.42047	0.44511	0.04344	0.02120	0.00776	0.00103	0.00026	0.0001	0.0068	0.0115	0.07364	0.02183	0.00220
124	583487.15	4139214.12	0.00553	0.00115	0.00188	0.00236	0.00149	0.00070	0.00026	0.00003	0.00001	0.00000	0.01564	0.30878	0.38762	0.03853	0.01810	0.00672	0.00078	0.00026	0.0001	0.0041	0.0070	0.04532	0.01320	0.00133
125	583496.75	4139211.33	0.00575	0.00120	0.00197	0.00242	0.00152	0.00072	0.00026	0.00003	0.00001	0.00000	0.01632	0.32357	0.39748	0.03930	0.01862	0.00672	0.00078	0.00026	0.0001	0.0049	0.0083	0.05664	0.01578	0.00159
126	583506.36	4139208.55	0.00598	0.00126	0.00207	0.00247	0.00155	0.00074	0.00027	0.00003	0.00001	0.00000	0.01714	0.33999	0.40569	0.04008	0.01913	0.00698	0.00078	0.00026	0.0001	0.0056	0.0096	0.06231	0.01821	0.00183
127	583515.96	4139205.76	0.00623	0.00132	0.00218	0.00254	0.00159	0.00076	0.00028	0.00003	0.00001	0.00000	0.01795	0.35806	0.41719	0.04111	0.01965	0.00724	0.00078	0.00026	0.0001	0.0063	0.0107	0.07364	0.02031	0.00204
128	583525.56	4139202.97	0.00651	0.00138	0.00230	0.00260	0.00162	0.00078	0.00029	0.00003	0.00001	0.00000	0.01877	0.37777	0.42704	0.04189	0.02017	0.00750	0.00078	0.00026	0.0001	0.0068	0.0117	0.07930	0.02212	0.00223
129	583535.17	4139200.18	0.00681	0.00146	0.00244	0.00268	0.00167	0.00081	0.00030	0.00004	0.00001	0.00000	0.01986	0.40076	0.44018	0.04318	0.02094	0.00776	0.00103	0.00026	0.0002	0.0073	0.0125	0.08497	0.02364	0.00238
130	583544.77	4139197.39	0.00714	0.00153	0.00259	0.00276	0.00171	0.00084	0.00031	0.00004	0.00001	0.00000	0.02081	0.42540	0.45332	0.04422	0.02172	0.00802	0.00103	0.00026	0.0002	0.0077	0.0131	0.08497	0.02484	0.00250
131	583489.94	4139223.73	0.00572	0.00119	0.00192	0.00240	0.00151	0.00072	0.00026	0.00003	0.00001	0.00000	0.01618	0.31535	0.39419	0.03904	0.01862	0.00672	0.00078	0.00026	0.0001	0.0049	0.0083	0.05664	0.01575	0.00159
132	583499.54	4139220.94	0.00595	0.00125	0.00201	0.00246	0.00154	0.00074	0.00027	0.00003	0.00001	0.00000	0.01700	0.33014	0.40405	0.03982	0.01913	0.00698	0.00078	0.00026	0.0001	0.0058	0.0099	0.06797	0.01886	0.00190
133	583509.14	4139218.15	0.00619	0.00130	0.00211	0.00251	0.00158	0.00075	0.00028	0.00003	0.00001	0.00000	0.01768	0.34656	0.41226	0.04085	0.01939	0.00724	0.00078	0.00026	0.0001	0.0067	0.0114	0.07364	0.02154	0.00217

Receptor	Project Generators		Project Restaurants				Total - Cancer Risk						Construction Risk - Total				Roads Risk -Total				Project Generators Risk - Total				Restaurants Risk - Total		
	Generator	Cancer	Concentration		Cancer Risk (per million)		Cancer Risk (per million)						Cancer Risk (per million)				Cancer Risk (per million)				Cancer Risk (per million)				Cancer Risk (per million)		
No.	DPM	Risk	PAHs	Naph	PAHs	Naph	DPM	Exh TOG	Evap TOG	PAHs	Naph	TOTAL	DPM	Exh TOG	Evap TOG	TOTAL	DPM	Exh TOG	Evap TOG	TOTAL	DPM	Exh TOG	Evap TOG	TOTAL	PAH	Naph	TOTAL
1	0.0007	0.38518	5.10E-07	2.57E-05	0.00102	0.00159	2.573	0.011	0.001	0.001	0.002	2.587	2.148	0.000	0.000	2.148	0.040	0.011	0.001	0.052	0.385	0.000	0.000	0.385	0.001	0.002	0.0026
2	0.0007	0.40218	5.61E-07	2.82E-05	0.00113	0.00174	2.761	0.012	0.001	0.001	0.002	2.777	2.313	0.000	0.000	2.313	0.045	0.012	0.001	0.058	0.402	0.000	0.000	0.402	0.001	0.002	0.0029
3	0.0008	0.43050	6.66E-07	3.34E-05	0.00134	0.00207	3.106	0.013	0.001	0.001	0.002	3.124	2.631	0.000	0.000	2.631	0.045	0.013	0.001	0.060	0.430	0.000	0.000	0.430	0.001	0.002	0.0034
4	0.0008	0.44749	7.29E-07	3.66E-05	0.00146	0.00226	3.306	0.014	0.001	0.001	0.002	3.325	2.808	0.000	0.000	2.808	0.051	0.014	0.001	0.066	0.447	0.000	0.000	0.447	0.001	0.002	0.0037
5	0.0008	0.45882	7.82E-07	3.92E-05	0.00157	0.00242	3.453	0.014	0.001	0.002	0.002	3.472	2.943	0.000	0.000	2.943	0.051	0.014	0.001	0.066	0.459	0.000	0.000	0.459	0.002	0.002	0.0040
6	0.0008	0.47015	8.25E-07	4.14E-05	0.00166	0.00256	3.538	0.014	0.001	0.002	0.003	3.557	3.016	0.000	0.000	3.016	0.051	0.014	0.001	0.066	0.470	0.000	0.000	0.470	0.002	0.003	0.0042
7	0.0009	0.48714	8.75E-07	4.38E-05	0.00176	0.00271	3.653	0.014	0.001	0.002	0.003	3.673	3.115	0.000	0.000	3.115	0.051	0.014	0.001	0.066	0.487	0.000	0.000	0.487	0.002	0.003	0.0045
8	0.0009	0.49847	9.07E-07	4.54E-05	0.00182	0.00281	3.752	0.014	0.001	0.002	0.003	3.772	3.202	0.000	0.000	3.202	0.051	0.014	0.001	0.066	0.498	0.000	0.000	0.498	0.002	0.003	0.0046
9	0.0009	0.50980	9.22E-07	4.61E-05	0.00185	0.00285	3.831	0.014	0.001	0.002	0.003	3.851	3.270	0.000	0.000	3.270	0.051	0.014	0.001	0.066	0.510	0.000	0.000	0.510	0.002	0.003	0.0047
10	0.0009	0.52113	9.36E-07	4.69E-05	0.00188	0.00290	3.909	0.014	0.001	0.00188	0.003	3.929	3.336	0.000	0.000	3.336	0.051	0.014	0.001	0.066	0.521	0.000	0.000	0.521	0.002	0.003	0.0048
11	0.0009	0.53246	9.41E-07	4.71E-05	0.00189	0.00291	3.991	0.014	0.001	0.002	0.003	4.011	3.408	0.000	0.000	3.408	0.051	0.014	0.001	0.066	0.532	0.000	0.000	0.532	0.002	0.003	0.0048
12	0.0009	0.51547	9.07E-07	4.54E-05	0.00182	0.00281	3.779	0.013	0.001	0.002	0.003	3.798	3.212	0.000	0.000	3.212	0.051	0.013	0.001	0.065	0.515	0.000	0.000	0.515	0.002	0.003	0.0046
13	0.0010	0.53812	9.13E-07	4.58E-05	0.00183	0.00283	3.923	0.013	0.001	0.002	0.003	3.942	3.334	0.000	0.000	3.334	0.051	0.013	0.001	0.066	0.538	0.000	0.000	0.538	0.002	0.003	0.0047
14	0.0010	0.55512	9.42E-07	4.72E-05	0.00189	0.00292	4.154	0.014	0.001	0.002	0.003	4.174	3.548	0.000	0.000	3.548	0.051	0.014	0.001	0.066	0.555	0.000	0.000	0.555	0.002	0.003	0.0048
15	0.0010	0.56645	9.35E-07	4.68E-05	0.00188	0.00289	4.240	0.014	0.001	0.002	0.003	4.261	3.623	0.000	0.000	3.623	0.051	0.014	0.001	0.066	0.566	0.000	0.000	0.566	0.002	0.003	0.0048
16	0.0010	0.57777	9.24E-07	4.63E-05	0.00186	0.00286	4.331	0.014	0.001	0.002	0.003	4.351	3.703	0.000	0.000	3.703	0.051	0.014	0.001	0.066	0.578	0.000	0.000	0.578	0.002	0.003	0.0047
17	0.0011	0.59477	9.11E-07	4.57E-05	0.00183	0.00282	4.440	0.014	0.001	0.002	0.003	4.460	3.794	0.000	0.000	3.794	0.051	0.014	0.001	0.066	0.595	0.000	0.000	0.595	0.002	0.003	0.0047
18	0.0011	0.60610	9.02E-07	4.52E-05	0.00181	0.00280	4.510	0.014	0.001	0.002	0.003	4.531	3.853	0.000	0.000	3.853	0.051	0.014	0.001	0.066	0.606	0.000	0.000	0.606	0.002	0.003	0.0046
19	0.0011	0.62309	8.89E-07	4.46E-05	0.00178	0.00275	4.601	0.014	0.001	0.002	0.003	4.621	3.927	0.000	0.000	3.927	0.051	0.014	0.001	0.066	0.623	0.000	0.000	0.623	0.002	0.003	0.0045
20	0.0008	0.44749	7.36E-07	3.69E-05	0.00148	0.00228	3.283	0.013	0.001	0.001	0.002	3.301	2.784	0.000	0.000	2.784	0.051	0.013	0.001	0.066	0.447	0.000	0.000	0.447	0.001	0.002	0.0038
21	0.0008	0.45882	7.78E-07	3.90E-05	0.00156	0.00241	3.360	0.013	0.001	0.002	0.002	3.378	2.850	0.000	0.000	2.850	0.051	0.013	0.001	0.066	0.459	0.000	0.000	0.459	0.002	0.002	0.0040
22	0.0008	0.47015	8.19E-07	4.10E-05	0.00164	0.00254	3.439	0.013	0.001	0.002	0.003	3.458	2.918	0.000	0.000	2.918	0.051	0.013	0.001	0.066	0.470	0.000	0.000	0.470	0.002	0.003	0.0042
23	0.0009	0.48148	8.61E-07	4.31E-05	0.00173	0.00266	3.541	0.013	0.001	0.002	0.003	3.560	3.008	0.000	0.000	3.008	0.051	0.013	0.001	0.066	0.481	0.000	0.000	0.481	0.002	0.003	0.0044
24	0.0009	0.49281	8.82E-07	4.42E-05	0.00177	0.00273	3.619	0.013	0.001	0.002	0.003	3.639	3.076	0.000	0.000	3.076	0.051	0.013	0.001	0.066	0.493	0.000	0.000	0.493	0.002	0.003	0.0045
25	0.0009	0.50414	9.01E-07	4.51E-05	0.00181	0.00279	3.710	0.013	0.001	0.002	0.003	3.729	3.155	0.000	0.000	3.155	0.051	0.013	0.001	0.066	0.504	0.000	0.000	0.504	0.002	0.003	0.0046
26	0.0010	0.54945	9.11E-07	4.57E-05	0.00183	0.00282	4.004	0.013	0.001	0.002	0.003	4.023	3.403	0.000	0.000	3.403	0.051	0.013	0.001	0.066	0.549	0.000	0.000	0.549	0.002	0.003	0.0047
27	0.0010	0.56078	9.03E-07	4.52E-05	0.00181	0.00280	4.096	0.013	0.001	0.002	0.003	4.115	3.484	0.000	0.000	3.484	0.051	0.013	0.001	0.066	0.561	0.000	0.000	0.561	0.002	0.003	0.0046
28	0.0010	0.57777	8.89E-07	4.46E-05	0.00179	0.00276	4.194	0.013	0.001	0.002	0.003	4.213	3.565	0.000	0.000	3.565	0.051	0.013	0.001	0.066	0.578	0.000	0.000	0.578	0.002	0.003	0.0045
29	0.0010	0.58910	8.81E-07	4.42E-05	0.00177	0.00273	4.283	0.013	0.001	0.002	0.003	4.302	3.642	0.000	0.000	3.642	0.051	0.013	0.001	0.066	0.589	0.000	0.000	0.589	0.002	0.003	0.0045
30	0.0007	0.41351	6.07E-07	3.05E-05	0.00122	0.00188	2.911	0.012	0.001	0.001	0.002	2.927	2.452	0.000	0.000	2.452	0.045	0.012	0.001	0.059	0.414	0.000	0.000	0.414	0.001	0.002	0.0031
31	0.0032	1.81263	1.20E-06	6.06E-05	0.00241	0.00375	21.688	0.055	0.005	0.002	0.004	21.754	19.722	0.000	0.000	19.722	0.153	0.055	0.005	0.213	1.813	0.000	0.000	1.813	0.002	0.004	0.0062
32	0.0032	1.80696	1.14E-06	5.75E-05	0.00229	0.00355	21.403	0.051	0.005	0.002	0.004	21.464	19.454	0.000	0.000	19.454	0.142	0.051	0.005	0.197	1.807	0.000	0.000	1.807	0.002	0.004	0.0058
33	0.0032	1.81263	1.09E-06	5.52E-05	0.00219	0.00341	21.142	0.048	0.004	0.002	0.003	21.199	19.193	0.000	0.000	19.193	0.136	0.048	0.004	0.188	1.813	0.000	0.000	1.813	0.002	0.003	0.0056
34	0.0032	1.81263	1.05E-06	5.30E-05	0.00211	0.00327	20.720	0.044	0.004	0.002	0.003	20.774	18.783	0.000	0.000	18.783	0.125	0.044	0.004	0.173	1.813	0.000	0.000	1.813	0.002	0.003	0.0054
35	0.0030	1.68801	1.21E-06	6.12E-05	0.00243	0.00378	19.823	0.055	0.005	0.002	0.004	19.889	17.982	0.000	0.000	17.982	0.153	0.055	0.005	0.213	1.688	0.000	0.000	1.688	0.002	0.004	0.0062
36	0.0030	1.69934	1.15E-06	5.79E-05	0.00230	0.00357	19.638	0.050	0.005	0.002	0.004	19.699	17.797	0.000	0.000	17.797	0.142	0.050	0.005	0.197	1.699	0.000	0.000	1.699	0.002	0.004	0.0059
37	0.0030	1.70500	1.09E-06	5.50E-05	0.00219	0.00340	19.581	0.047	0.004	0.002	0.003	19.639	17.740	0.000	0.000	17.740	0.136	0.047	0.004	0.188	1.705	0.000	0.000	1.705	0.002	0.003	0.0056
38	0.0007	0.39085	4.72E-07	2.38E-05	0.00095	0.00147	2.506	0.010	0.001	0.001	0.001	2.519	2.075	0.000	0.000	2.075	0.040	0.010	0.001	0.051	0.391	0.000	0.000	0.391	0.001	0.001	0.0024
39	0.0007	0.40218	5.19E-07	2.61E-05	0.00104	0.00162	2.675	0.011	0.001	0.001	0.002	2.690	2.233	0.000	0.000	2.233	0.040	0.011	0.001	0.052	0.402	0.000	0.000	0.402	0.001	0.002	0.0027
40	0.0008	0.43616	6.19E-07	3.11E-05	0.00124	0.00192	3.020	0.012	0.001	0.001	0.002	3.037	2.539	0.000	0.000	2.539	0.045	0.012	0.001	0.059	0.436	0.000	0.000	0.436	0.001	0.002	0.0032
41	0.0008	0.44749	6.80E-07	3.42E-05	0.00136	0.00211	3.200	0.013	0.001	0.001	0.002	3.217	2.707	0.000	0.000	2.707	0.045	0.013	0.001	0.059	0.447	0.000	0.000	0.447	0.001	0.002	0.0035
42	0.0008	0.46449	7.30E-07	3.67E-05	0.00147	0.00227	3.347	0.013	0.001	0.001	0.002	3.365	2.837	0.000	0.000	2.837	0.045	0.013	0.001	0.060	0.464	0.000	0.000	0.464	0.001	0.002	0.0037
43	0.0008	0.47581	7.71E-07	3.88E-05	0.00155	0.00239	3.429	0.013	0.001	0.002	0.002	3.448	2.908	0.000	0.000	2.908	0.045	0.013	0.001	0.060	0.476	0.000	0.000	0.476	0.002	0.002	0.0039
44	0.0009	0.48714	8.17E-07	4.11E-05	0.00164	0.00254	3.535	0.013	0.001	0.002	0.003	3.553	3.002	0.000	0.000	3.002	0.045	0.013	0.001	0.060	0.487	0.000	0.000	0.487	0.002	0.003	0.0042
45	0.0009	0.50414	8.47E-07	4.25E-05	0.00170	0.00263	3.636	0.013	0.001	0.002	0.003	3.655	3.086	0.000	0.000	3.086	0.045	0.013	0.001	0.060	0.504	0.000	0.000	0.504	0.002	0.003	0.0043
46	0.0009	0.51547	8.59E-07	4.31E-05	0.00172	0.00267	3.714	0.013	0.001	0.002	0.003	3.733	3.153	0.000	0.000	3.153	0.045	0.013	0.001	0.060	0.515	0.000	0.000	0.515	0.002	0.003	0.0044
47	0.0009	0.52679	8.71E-07	4.38E-05	0.00175	0.00271	3.788	0.013	0.001	0.002	0.003	3.806	3.216	0.000	0.000	3.216	0.045	0.013	0.001	0.060	0.527	0.000	0.000	0.527	0.002	0.003	0.0045
48	0.0010	0.53812	8.75E-07	4.40E-05	0.00176	0.00272	3.869	0.013	0.001	0.002	0.003	3.888	3.285	0.000	0.000	3.285	0.045	0.013	0.001	0.060	0.538	0.000	0.000	0.538	0.002	0.003	0.0045
49	0.0009	0.52113	8.42E-07	4.23E-05	0.00169	0.00261	3.665	0.012	0.001	0.002	0.003	3.683	3.099	0.000	0.000	3.099	0.045	0.012	0.001	0.059	0.521	0.000	0.000	0.521	0.002	0.003	0.0043
50	0.0010	0.53812	8.46E-07	4.25E-05	0.00170	0.00263	3.800	0.012	0.001	0.002	0.003	3.818	3.216	0.000	0.000	3.216	0.045	0.012	0.001	0.059	0.538	0.000	0.000	0.538	0.002	0.003	0.0043
51	0.0010	0.56078	8.75E-07	4.40E-05	0.00176	0.00272	4.027	0.013	0.001	0.002	0.003	4.046	3.421	0.000	0.000	3.421	0.045	0.013	0.001	0.060	0.561	0.000	0.000	0.561	0.002	0.003	0.0045
52	0.0010	0.57211	8.67E-07	4.36E-05	0.00174	0.00269	4.111	0.013	0.001	0.002	0.003	4.129	3.493	0.000	0.000	3.493	0.045	0.013	0.001	0.060	0.572	0.000	0.000	0.572	0.002	0.003	0.0044
53	0.0010	0.58344	8.57E-07	4.31E-05	0.00172	0.00266	4.199	0.013	0.001	0.002	0.003	4.218	3.570	0.000	0.000	3.570	0.045	0.013	0.001	0.060	0.583	0.000	0.000	0.583	0.002	0.003	0.0044
54	0.0011	0.60043	8.44E-07	4.24E-05	0.00169	0.00262	4.304	0.013	0.001	0.002	0.003	4.323	3.659	0.000	0.000	3.659	0.045	0.013	0.001	0.060	0.600	0.000	0.000	0.600	0.002	0.003	0.0043
55	0.0011	0.61176	8.35E-07	4.20E-05	0.00168	0.00260	4.373	0.013	0.001	0.002	0.003	4.392	3.716	0.000	0.000	3.716	0.045	0.013	0.001	0.060	0.612	0.000	0.000	0.612	0.002	0.003	0.0043
56	0.0011	0.62309	8.23E-07	4.14E-05	0.00165	0.00256	4.459	0.013	0.001	0.002	0.003	4.478	3.791	0.000	0.000	3.791	0.045	0.013	0.001	0.060	0.623	0.000	0.000	0.623	0.002	0.003	0.0042
57	0.0008	0.44749	6.85E-07	3.45E-05	0.00138	0.00213	3.178	0.012	0.001	0.001	0.002	3.195	2.685	0.000	0.000	2.685	0.045	0.012	0.001	0.059	0.447	0.000	0.000	0.447	0.001	0.002	0.0035
58	0.0008	0.45882	7.25E-07	3.64E-05	0.00146	0.00225	3.252	0.012	0.001	0.001	0.002	3.270	2.748	0.000	0.000	2.748	0.045	0.012	0.001	0.059	0.459	0.000	0.000	0.459	0.001	0.002	0.0037
59	0.0008	0.47015	7.63E-07	3.83E-05	0.00153	0.00237	3.331	0.012	0.001	0.002	0.002	3.349	2.816	0.000	0.000	2.816	0.045	0.012	0.001	0.059	0.470	0.000	0.000	0.470	0.002	0.002	0.0039
60	0.0009	0.48714	8.01E-07	4.03E-05	0.00161	0.00249	3.434	0.012	0.001	0.002	0.002	3.452	2.902	0.000	0.000	2.902	0.045	0.012	0.001	0.059	0.487	0.000	0.000	0.487	0.002	0.002	0.0041
61	0.0009	0.49847	8.21E-07	4.12E-05	0.00165	0.00255	3.510	0.012	0.001	0.002	0.003	3.528	2.966	0.000	0.000	2.966	0.045	0.012	0.001	0.059	0.498	0.000	0.000	0.498	0.002	0.003	0.0042
62	0.0009	0.50980	8.37E-07	4.20E-05	0.00168	0.00260	3.598	0.012	0.001	0.002	0.003	3.616	3.043	0.000	0.000	3.043	0.045	0.012	0.001	0.059	0.510	0.000	0.000	0.510	0.002	0.003	0.0043
63	0.0010	0.54945	8.44E-07	4.24E-05	0.00169	0.00262	3.881	0.012	0.001	0.002	0.003	3.899	3.286	0.000	0.000	3.286	0.045	0.012	0.001	0.059	0.549	0.000	0.000	0.549	0.002	0.003	0.0043
64	0.0010	0.56645	8.35E-07	4.20E-05	0.00168	0.00259	3.974	0.013	0.001	0.002	0.003	3.992	3.362	0.000	0.000	3.362	0.045	0.013	0.001	0.059	0.566	0.000	0.000	0.566	0.002	0.003	0.0043
65	0.0010	0.57777	8.22E-07	4.13E-05	0.00165	0.00255	4.063	0.013	0.001	0.002	0.003	4.081	3.440	0.000	0.000	3.440	0.045	0.013	0.001	0.059	0.578	0.000	0.000	0.578	0.002	0.003	0.0042
66	0.0011	0.59477	8.14E-07	4.09E-05	0.00163	0.00253	4.156	0.013	0.001	0.002	0.003	4.174	3.516	0.000	0.000	3.516	0.045	0.013	0.001	0.059	0.595	0.000	0.000	0.595	0.002	0.003	0.0042
67	0.0007	0.41917	5.63E-07	2.83E-05	0.00113	0.00175	2.825	0.011	0.001	0.001	0.002	2.840	2.366	0.000	0.000	2.366	0.040	0.011	0.001	0.052	0.419	0.000	0.000	0.419	0.001	0.002	0.0029
68	0.0032	1.80130	1.14E-06	5.73E-05	0.00228	0.00354	21.035	0.051	0.005	0.002	0.004	21.097	19.092	0.000	0.000	19.092	0.142	0.051	0.005	0.198	1.801	0.000	0.000	1.801	0.002	0.004	0.0058
69	0.0032	1.80130	1.08E-06	5.45E-05	0.00217	0.00337	20.776	0.048	0.004	0.002	0.003	20.834	18.839	0.000	0.000	18.839	0.136	0.048	0.004	0.188	1.801	0.000	0.000	1.801	0.002	0.003	0.0055
70	0.0032	1.80130	1.04E-06	5.24E-05	0.00208	0.00324	20.515	0.045	0.004	0.002	0.003	20.569	18.589	0.000	0.000	18.589	0.125	0.045	0.004	0.174	1.801	0.000	0.000	1.801	0.002	0.003	0.0053
71	0.0032	1.80130	9.98E-07	5.04E-05	0.00200	0.00311	20.125	0.042	0.004	0.002	0.003	20.176	18.204	0.000	0.000	18.204	0.119	0.042	0.004	0.165	1.801	0.000	0.000	1.801	0.002	0.003	0.0051
72	0.0030	1.67668	1.14E-06	5.76E-05	0.00229	0.00356	19.230	0.051	0.005	0.002	0.004	19.292	17.412	0.000	0.000	17.412	0.142	0.051	0.005	0.198	1.677	0.000	0.000	1.677	0.002	0.004	0.0059
73	0.0030	1.69367	1.08E-06	5.47E-05	0.00218	0.00338	19.066	0.047	0.004	0.002	0.003	19.123	17.242	0.000	0.000	17.242	0.130	0.047	0.004	0.182	1.694	0.000	0.000	1.694	0.002	0.003	0.0056
74	0.0030	1.69367	1.03E-06	5.21E-05	0.00207	0.00322	19.017	0.045	0.004	0.002	0.003	19.072	17.199	0.000	0.000	17.199	0.125	0.045	0.004	0.174	1.694	0.000	0.000	1.694	0.002	0.003	0.0053
75	0.0004	0.22091	2.92E-07	1.47E-05	0.00059	0.00091	1.060	0.014	0.001	0.001	0.001	1.077	0.794	0.000	0.000	0.794	0.045	0.014	0.001	0.060	0.221	0.000	0.000	0.221	0.001	0.001	0.0015
76	0.0004	0.22658	3.00E-07	1.51E-05	0.00060	0.00093	1.102	0.016	0.002	0.001	0.001	1.122	0.819	0.000	0.000	0.819	0.057	0.016	0.002	0.075	0.227	0.000	0.000	0.227	0.001	0.001	0.0015
77	0.0004	0.22658	3.07E-07	1.54E-05	0.00062	0.00095	1.144	0.019	0.002	0.001	0.001	1.167	0.850	0.000	0.000	0.850	0.068	0.019	0.002	0.089	0.227	0.000	0.000	0.227	0.001	0.001	0.0016
78	0.0004	0.23224	3.14E-07	1.58E-05	0.00063	0.00097	1.187	0.021	0.002	0.001	0.001	1.212	0.881	0.000	0.000	0.881	0.074	0.021	0.002	0.097	0.232	0.000	0.000	0.232	0.001	0.001	0.0016
79	0.0004	0.23791	3.23E-07	1.62E-05	0.00065	0.00100	1.234	0.023	0.002	0.001	0.001	1.262	0.917	0.000	0.000	0.917	0.079	0.023	0.002	0.105	0.238	0.000	0.000	0.238	0.001	0.001	0.0016
80	0.0004	0.23791	3.33E-07	1.67E-05	0.00067	0.00103	1.281	0.025	0.003	0.001	0.001	1.311	0.958	0.000	0.000	0.958	0.085	0.025	0.003	0.113	0.238	0.000	0.000	0.238	0.001	0.001	0.0017
81	0.0004	0.24357	3.40E-07	1.71E-05	0.00068	0.00105	1.334	0.027	0.003	0.001	0.001	1.365	0.999	0.000	0.000	0.999	0.091	0.027	0.003	0.120	0.244	0.000	0.000	0.244	0.001	0.001	0.0017
82	0.0004	0.22091	2.98E-07	1.50E-05	0.00060	0.00093	1.083	0.017	0.002	0.001	0.001	1.103	0.805	0.000	0.000	0.805	0.057	0.017	0.002	0.075	0.221	0.000	0.000	0.221	0.001	0.001	0.0015
83	0.0004	0.22658	3.05E-07	1.53E-05	0.00061	0.00095	1.127	0.020	0.002	0.001	0.001	1.151	0.832	0.000	0.000	0.832	0.068	0.020	0.002	0.090	0.227	0.000	0.000	0.227	0.001	0.001	0.0016
84	0.0004	0.23224	3.12E-07	1.57E-05	0.00063	0.00097	1.174	0.023	0.002	0.001	0.001	1.201	0.863	0.000	0.000	0.863	0.079	0.023	0.002	0.105	0.232	0.000	0.000	0.232	0.001	0.001	0.0016
85	0.0004	0.23224	3.20E-07	1.61E-05	0.00064	0.00099	1.212	0.026	0.003	0.001	0.001	1.242	0.895	0.000	0.000	0.895	0.085	0.026	0.003	0.113	0.232	0.000	0.000	0.232	0.001	0.001	0.0016
86	0.0004	0.23791	3.28E-07	1.64E-05	0.00066	0.00102	1.265	0.028	0.003	0.001	0.001	1.298	0.931	0.000	0.000	0.931	0.096	0.028	0.003	0.127	0.238	0.000	0.000	0.238	0.001	0.001	0.0017
87	0.0004	0.24357	3.37E-07	1.69E-05	0.00068	0.00104	1.317	0.030	0.003	0.001	0.001	1.352	0.972	0.000	0.000	0.972	0.102	0.030	0.003	0.135	0.244	0.000	0.000	0.244	0.001	0.001	0.0017
88	0.0004	0.24924	3.46E-07	1.74E-05	0.00069	0.00107	1.371	0.031	0.003	0.001	0.001	1.408	1.015	0.000	0.000	1.015	0.108	0.031	0.003	0.142	0.249	0.000	0.000	0.249	0.001	0.001	0.0018
89	0.0004	0.22658	3.04E-07	1.52E-05	0.00061	0.00094	1.115	0.021	0.002	0.001	0.001	1.140	0.821	0.000	0.000	0.821	0.068	0.021	0.002	0.091	0.227	0.000	0.000	0.227	0.001	0.001	0.0016
90	0.0004	0.23224	3.11E-07	1.56E-05	0.00062	0.00096	1.165	0.025	0.003	0.001	0.001	1.194	0.847	0.000	0.000	0.847	0.085	0.025	0.003	0.113	0.232	0.000	0.000	0.232	0.001	0.001	0.0016
91	0.0004	0.23224	3.18E-07	1.60E-05	0.00064	0.00099	1.205	0.029	0.003	0.001	0.001	1.238	0.876	0.000	0.000	0.876	0.096	0.029	0.003	0.128	0.232	0.000	0.000	0.232	0.001	0.001	0.0016
92	0.0004	0.23791	3.25E-07	1.63E-05	0.00065	0.00101	1.250	0.032	0.003	0.001	0.001	1.287	0.910	0.000	0.000	0.910	0.102	0.032	0.003	0.137	0.238	0.000	0.000	0.238	0.001	0.001	0.0017
93	0.0004	0.23791	3.33E-07	1.67E-05	0.00067	0.00103	1.297	0.034	0.003	0.001	0.001	1.336	0.946	0.000	0.000	0.946	0.113	0.034	0.003	0.151	0.238	0.000	0.000	0.238	0.001	0.001	0.0017
94	0.0004	0.24357	3.43E-07	1.72E-05	0.00069	0.00106	1.348	0.036	0.004	0.001	0.001	1.389	0.985	0.000	0.000	0.985	0.119	0.036	0.004	0.159	0.244	0.000	0.000	0.244	0.001	0.001	0.0018
95	0.0004	0.24924	3.53E-07	1.77E-05	0.00071	0.00109	1.404	0.037	0.004	0.001	0.001	1.447	1.030	0.000	0.000	1.030	0.125	0.037	0.004	0.166	0.249	0.000	0.000	0.249	0.001	0.001	0.0018
96	0.0004	0.23224	3.08E-07	1.55E-05	0.00062	0.00096	1.160	0.028	0.003	0.001	0.001	1.192	0.837	0.000	0.000	0.837	0.091	0.028	0.003	0.121	0.232	0.000	0.000	0.232	0.001	0.001	0.0016
97	0.0004	0.23224	3.17E-07	1.59E-05	0.00064	0.00098	1.197	0.033	0.003	0.001	0.001	1.235	0.863	0.000	0.000	0.863	0.102	0.033	0.003	0.138	0.232	0.000	0.000	0.232	0.001	0.001	0.0016
98	0.0004	0.23791	3.24E-07	1.63E-05	0.00065	0.00100	1.248	0.037	0.004	0.001	0.001	1.290	0.891	0.000	0.000	0.891	0.119	0.037	0.004	0.159	0.238	0.000	0.000	0.238	0.001	0.001	0.0017
99	0.0004	0.24357	3.32E-07	1.67E-05	0.00067	0.00103	1.293	0.040	0.004	0.001	0.001	1.339	0.925	0.000	0.000	0.925	0.125	0.040	0.004	0.168	0.244	0.000	0.000	0.244	0.001	0.001	0.0017
100	0.0004	0.24357	3.39E-07	1.70E-05	0.00068	0.00105	1.341	0.042	0.004	0.001	0.001	1.389	0.961	0.000	0.000	0.961	0.136	0.042	0.004	0.182	0.244	0.000	0.000	0.244	0.001	0.001	0.0017
101	0.0004	0.24924	3.50E-07	1.75E-05	0.00070	0.00108	1.393	0.044	0.004	0.001	0.001	1.443	1.002	0.000	0.000	1.002	0.142	0.044	0.004	0.190	0.249	0.000	0.000	0.249	0.001	0.001	0.0018
102	0.0005	0.25490	3.61E-07	1.81E-05	0.00072	0.00112	1.451	0.046	0.005	0.001	0.001	1.503	1.049	0.000	0.000	1.049	0.147	0.046	0.005	0.198	0.255	0.000	0.000	0.255	0.001	0.001	0.0018
103	0.0004	0.23224	3.12E-07	1.57E-05	0.00063	0.00097	1.198	0.038	0.004	0.001	0.001	1.241	0.852	0.000	0.000	0.852	0.113	0.038	0.004	0.155	0.232	0.000	0.000	0.232	0.001	0.001	0.0016
104	0.0004	0.23791	3.21E-07	1.61E-05	0.00064	0.00100	1.248	0.044	0.004	0.001	0.001	1.297	0.879	0.000	0.000	0.879	0.130	0.044	0.004	0.178	0.238	0.000	0.000	0.238	0.001	0.001	0.0016
105	0.0004	0.24357	3.30E-07	1.66E-05	0.00066	0.00102	1.295	0.048	0.005	0.001	0.001	1.349	0.910	0.000	0.000	0.910	0.142	0.048	0.005	0.194	0.244	0.000	0.000	0.244	0.001	0.001	0.0017
106	0.0004	0.24357	3.38E-07	1.70E-05	0.00068	0.00105	1.340	0.051	0.005	0.001	0.001	1.398	0.944	0.000	0.000	0.944	0.153	0.051	0.005	0.209	0.244	0.000	0.000	0.244	0.001	0.001	0.0017
107	0.0004	0.24924	3.47E-07	1.74E-05	0.00070	0.00108	1.388	0.053	0.005	0.001	0.001	1.448	0.980	0.000	0.000	0.980	0.159	0.053	0.005	0.217	0.249	0.000	0.000	0.249	0.001	0.001	0.0018
108	0.0005	0.25490	3.59E-07	1.80E-05	0.00072	0.00111	1.446	0.055	0.006	0.001	0.001	1.508	1.021	0.000	0.000	1.021	0.170	0.055	0.006	0.231	0.255	0.000	0.000	0.255	0.001	0.001	0.0018
109	0.0005	0.26057	3.70E-07	1.86E-05	0.00074	0.00115	1.504	0.057	0.006	0.001	0.001	1.568	1.068	0.000	0.000	1.068	0.176	0.057	0.006	0.238	0.261	0.000	0.000	0.261	0.001	0.001	0.0019
110	0.0004	0.23791	3.19E-07	1.60E-05	0.00064	0.00099	1.262	0.054	0.005	0.001	0.001	1.323	0.871	0.000	0.000	0.871	0.153	0.054	0.005	0.212	0.238	0.000	0.000	0.238	0.001	0.001	0.0016
111	0.0004	0.24357	3.27E-07	1.64E-05	0.00066	0.00101	1.311	0.060	0.006	0.001	0.001	1.379	0.898	0.000	0.000	0.898	0.170	0.060	0.006	0.236	0.244	0.000	0.000	0.244	0.001	0.001	0.0017
112	0.0004	0.24924	3.36E-07	1.68E-05	0.00067	0.00104	1.359	0.064	0.006	0.001	0.001	1.431	0.929	0.000	0.000	0.929	0.181	0.064	0.006	0.251	0.249	0.000	0.000	0.249	0.001	0.001	0.0017
113	0.0004	0.24924	3.44E-07	1.73E-05	0.00069	0.00107	1.397	0.066	0.007	0.001	0.001	1.472	0.961	0.000	0.000	0.961	0.187	0.066	0.007	0.260	0.249	0.000	0.000	0.249	0.001	0.001	0.0018
114	0.0005	0.25490	3.54E-07	1.78E-05	0.00071	0.00110	1.452	0.069	0.007	0.001	0.001	1.529	0.999	0.000	0.000	0.999	0.198	0.069	0.007	0.274	0.255	0.000	0.000	0.255	0.001	0.001	0.0018
115	0.0005	0.26057	3.68E-07	1.85E-05	0.00074	0.00114	1.508	0.072	0.007	0.001	0.001	1.589	1.044	0.000	0.000	1.044	0.204	0.072	0.007	0.283	0.261	0.000	0.000	0.261	0.001	0.001	0.0019
116	0.0005	0.26623	3.82E-07	1.92E-05	0.00077	0.00118	1.566	0.074	0.007	0.001	0.001	1.650	1.090	0.000	0.000	1.090	0.210	0.074	0.007	0.291	0.266	0.000	0.000	0.266	0.001	0.001	0.0020
117	0.0004	0.21525	2.56E-07	1.29E-05	0.00051	0.00080	1.018	0.011	0.001	0.001	0.001	1.032	0.763	0.000	0.000	0.763	0.040	0.011	0.001	0.052	0.215	0.000	0.000	0.215	0.001	0.001	0.0013
118	0.0004	0.21525	2.62E-07	1.32E-05	0.00053	0.00081	1.051	0.013	0.001	0.001	0.001	1.067	0.790	0.000	0.000	0.790	0.045	0.013	0.001	0.060	0.215	0.000	0.000	0.215	0.001	0.001	0.0013
119	0.0004	0.22091	2.68E-07	1.35E-05	0.00054	0.00083	1.096	0.015	0.002	0.001	0.001	1.115	0.819	0.000	0.000	0.819	0.057	0.015	0.002	0.074	0.221	0.000	0.000	0.221	0.001	0.001	0.0014
120	0.0004	0.22658	2.74E-07	1.38E-05	0.00055	0.00085	1.138	0.017	0.002	0.001	0.001	1.158	0.849	0.000	0.000	0.849	0.062	0.017	0.002	0.081	0.227	0.000	0.000	0.227	0.001	0.001	0.0014
121	0.0004	0.22658	2.81E-07	1.41E-05	0.00057	0.00087	1.176	0.019	0.002	0.001	0.001	1.198	0.881	0.000	0.000	0.881	0.068	0.019	0.002	0.089	0.227	0.000	0.000	0.227	0.001	0.001	0.0014
122	0.0004	0.23224	2.90E-07	1.46E-05	0.00058	0.00090	1.226	0.021	0.002	0.001	0.001	1.250	0.920	0.000	0.000	0.920	0.074	0.021	0.002	0.096	0.232	0.000	0.000	0.232	0.001	0.001	0.0015
123	0.0004	0.23791	2.96E-07	1.49E-05	0.00060	0.00092	1.271	0.022	0.002	0.001	0.001	1.296	0.959	0.000	0.000	0.959	0.074	0.022	0.002	0.098	0.238	0.000	0.000	0.238	0.001	0.001	0.0015
124	0.0004	0.21525	2.61E-07	1.31E-05	0.00052	0.00081	1.037	0.013	0.001	0.001	0.001	1.053	0.776	0.000	0.000	0.776	0.045	0.013	0.001	0.060	0.215	0.000	0.000	0.215	0.001	0.001	0.0013
125	0.0004	0.22091	2.67E-07	1.34E-05	0.00054	0.00083	1.081	0.016	0.002	0.001	0.001	1.099	0.803	0.000	0.000	0.803	0.057	0.016	0.002	0.074	0.221	0.000	0.000	0.221	0.001	0.001	0.0014
126	0.0004	0.22658	2.73E-07	1.37E-05	0.00055	0.00085	1.119	0.018	0.002	0.001	0.001	1.140	0.830	0.000	0.000	0.830	0.062	0.018	0.002	0.082	0.227	0.000	0.000	0.227	0.001	0.001	0.0014
127	0.0004	0.22658	2.80E-07	1.40E-05	0.00056	0.00087	1.162	0.020	0.002	0.001	0.001	1.186	0.862	0.000	0.000	0.862	0.074	0.020	0.002	0.096	0.227	0.000	0.000	0.227	0.001	0.001	0.0014
128	0.0004	0.23224	2.86E-07	1.44E-05	0.00057	0.00089	1.206	0.022	0.002	0.001	0.001	1.232	0.894	0.000	0.000	0.894	0.079	0.022	0.002	0.104	0.232	0.000	0.000	0.232	0.001	0.001	0.0015
129	0.0004	0.23791	2.94E-07	1.47E-05	0.00059	0.00091	1.257	0.024	0.002	0.001	0.001	1.284	0.934	0.000	0.000	0.934	0.085	0.024	0.002	0.111	0.238	0.000	0.000	0.238	0.001	0.001	0.0015
130	0.0004	0.24357	3.01E-07	1.51E-05	0.00061	0.00094	1.303	0.025	0.003	0.001	0.001	1.332	0.975	0.000	0.000	0.975	0.085	0.025	0.003	0.112	0.244	0.000	0.000	0.244	0.001	0.001	0.0015
131	0.0004	0.22091	2.66E-07	1.34E-05	0.00053	0.00083	1.069	0.016	0.002	0.001	0.001	1.087	0.791	0.000	0.000	0.791	0.057	0.016	0.002	0.074	0.221	0.000	0.000	0.221	0.001	0.001	0.0014
132	0.0004	0.22658	2.72E-07	1.37E-05	0.00055	0.00085	1.113	0.019	0.002	0.001	0.001	1.135	0.818	0.000	0.000	0.818	0.068	0.019	0.002	0.089	0.227	0.000	0.000	0.227	0.001	0.001	0.0014
133	0.0004	0.22658	2.78E-07	1.40E-05	0.00056	0.00086	1.145	0.022	0.002	0.001	0.001	1.170	0.845	0.000	0.000	0.845	0.074	0.022	0.002	0.097	0.227	0.000	0.000	0.227	0.001	0.001	0.0014



Google Middlefield - Project Impacts
Cancer Risk Calculations for Project Construction and Operation- with Mitigation
at Off-Site Residential Receptors

Exposure Types and Durations (years) for Cancer Risk Calculations - Project Impacts

Year(s) ->	2023	2024	2025	2026	2027	2028	2029	2030	2031	2026-2054		
Duration ->	1	1	1	1	1	1	1	1	1	29	29	29
Activity ->	Construct	Construct	Construct	Construct	Construct	Construct	Construct	Construct	Construct	Local Roads	Generators Operation	Restaurants Operation
Exposure Type												
3rd Trimester (10)	0	0.25	0	0	0	0	0	0	0	0	0	0
Infant (10)	0	0	1	1	0	0	0	0	0	1	1	1
Child (3)	0	0	0	0	1	1	1	1	1	14	14	14
Adult (1)	0	0	0	0	0	0	0	0	0	14	14	14

Receptor No.	Receptor Coordinates UTM-X (m)	UTM-Y (m)	2023 Construct DPM	2024 Construct DPM	2025 Construct DPM	2026 Construct DPM	2027 Construct DPM	2028 Construct DPM	2029 Construct DPM	2030 Construct DPM	2031 Construct DPM
1	583674.05	4138932.37	0.00187	0.00070	0.00089	0.00059	0.00042	0.00029	0.00016	0.00004	0.00001
2	583685.82	4138936.00	0.00211	0.00079	0.00097	0.00062	0.00044	0.00031	0.00017	0.00004	0.00001
3	583705.56	4138942.41	0.00259	0.00098	0.00113	0.00069	0.00049	0.00035	0.00019	0.00004	0.00001
4	583715.08	4138945.35	0.00288	0.00109	0.00122	0.00073	0.00052	0.00037	0.00020	0.00004	0.00001
5	583722.18	4138945.87	0.00310	0.00117	0.00129	0.00076	0.00054	0.00039	0.00021	0.00005	0.00001
6	583727.20	4138939.64	0.00320	0.00121	0.00132	0.00078	0.00055	0.00040	0.00022	0.00005	0.00001
7	583734.13	4138930.98	0.00334	0.00126	0.00136	0.00081	0.00057	0.00041	0.00022	0.00005	0.00001
8	583740.36	4138923.02	0.00345	0.00130	0.00140	0.00083	0.00059	0.00043	0.00023	0.00005	0.00001
9	583745.55	4138915.57	0.00354	0.00134	0.00143	0.00085	0.00060	0.00044	0.00024	0.00005	0.00001
10	583750.23	4138909.86	0.00362	0.00137	0.00145	0.00087	0.00062	0.00045	0.00024	0.00005	0.00001
11	583755.59	4138902.41	0.00371	0.00140	0.00148	0.00089	0.00063	0.00046	0.00025	0.00005	0.00002
12	583747.80	4138895.84	0.00337	0.00127	0.00138	0.00085	0.00061	0.00043	0.00024	0.00005	0.00001
13	583757.15	4138883.72	0.00351	0.00132	0.00143	0.00088	0.00063	0.00045	0.00025	0.00006	0.00002
14	583765.46	4138890.29	0.00387	0.00146	0.00154	0.00093	0.00066	0.00048	0.00026	0.00006	0.00002
15	583771.18	4138882.33	0.00395	0.00149	0.00157	0.00095	0.00068	0.00049	0.00027	0.00006	0.00002
16	583776.72	4138875.93	0.00404	0.00152	0.00160	0.00098	0.00070	0.00050	0.00027	0.00006	0.00002
17	583783.64	4138866.92	0.00413	0.00156	0.00163	0.00100	0.00072	0.00051	0.00028	0.00006	0.00002
18	583788.14	4138861.04	0.00419	0.00158	0.00165	0.00102	0.00073	0.00052	0.00029	0.00006	0.00002
19	583794.20	4138852.90	0.00425	0.00160	0.00168	0.00105	0.00075	0.00054	0.00029	0.00007	0.00002
20	583714.91	4138939.46	0.00283	0.00107	0.00120	0.00073	0.00052	0.00037	0.00020	0.00004	0.00001
21	583719.93	4138932.71	0.00291	0.00110	0.00123	0.00075	0.00053	0.00038	0.00021	0.00005	0.00001
22	583725.30	4138925.27	0.00300	0.00113	0.00126	0.00077	0.00054	0.00039	0.00021	0.00005	0.00001
23	583731.88	4138917.30	0.00312	0.00118	0.00130	0.00079	0.00056	0.00040	0.00022	0.00005	0.00001
24	583737.24	4138909.69	0.00320	0.00121	0.00132	0.00081	0.00058	0.00041	0.00022	0.00005	0.00001
25	583742.96	4138903.11	0.00330	0.00125	0.00136	0.00083	0.00059	0.00042	0.00023	0.00005	0.00001
26	583762.52	4138876.96	0.00359	0.00135	0.00146	0.00091	0.00065	0.00046	0.00025	0.00006	0.00002
27	583768.41	4138869.87	0.00367	0.00138	0.00149	0.00093	0.00066	0.00047	0.00026	0.00006	0.00002
28	583775.16	4138860.34	0.00375	0.00141	0.00152	0.00095	0.00068	0.00049	0.00027	0.00006	0.00002
29	583781.04	4138853.42	0.00383	0.00144	0.00155	0.00098	0.00070	0.00050	0.00027	0.00006	0.00002
30	583694.83	4138938.94	0.00231	0.00087	0.00104	0.00066	0.00047	0.00033	0.00018	0.00004	0.00001
31	584511.66	4138899.64	0.00309	0.00115	0.00189	0.00994	0.00660	0.00489	0.00308	0.00140	0.00039
32	584507.85	4138883.72	0.00320	0.00120	0.00191	0.00978	0.00652	0.00480	0.00302	0.00135	0.00038
33	584503.70	4138868.48	0.00331	0.00123	0.00194	0.00962	0.00645	0.00470	0.00297	0.00130	0.00036
34	584500.23	4138850.13	0.00340	0.00126	0.00195	0.00937	0.00632	0.00457	0.00289	0.00124	0.00034
35	584537.28	4138897.91	0.00259	0.00097	0.00171	0.00905	0.00597	0.00449	0.00280	0.00134	0.00038
36	584533.13	4138879.91	0.00270	0.00101	0.00174	0.00893	0.00593	0.00442	0.00276	0.00129	0.00036
37	584527.93	4138865.02	0.00282	0.00105	0.00177	0.00888	0.00592	0.00438	0.00274	0.00125	0.00035
38	583674.05	4138932.37	0.00180	0.00067	0.00085	0.00057	0.00040	0.00028	0.00016	0.00004	0.00001
39	583685.82	4138936.00	0.00202	0.00075	0.00093	0.00060	0.00043	0.00030	0.00017	0.00004	0.00001
40	583705.56	4138942.41	0.00248	0.00093	0.00108	0.00067	0.00048	0.00034	0.00018	0.00004	0.00001
41	583715.08	4138945.35	0.00274	0.00103	0.00117	0.00071	0.00050	0.00036	0.00020	0.00004	0.00001
42	583722.18	4138945.87	0.00296	0.00111	0.00124	0.00074	0.00052	0.00038	0.00020	0.00004	0.00001
43	583727.20	4138939.64	0.00305	0.00115	0.00127	0.00075	0.00053	0.00039	0.00021	0.00005	0.00001
44	583734.13	4138930.98	0.00318	0.00120	0.00131	0.00078	0.00055	0.00040	0.00022	0.00005	0.00001
45	583740.36	4138923.02	0.00329	0.00124	0.00134	0.00080	0.00057	0.00041	0.00022	0.00005	0.00001
46	583745.55	4138915.57	0.00337	0.00127	0.00137	0.00082	0.00058	0.00042	0.00023	0.00005	0.00001
47	583750.23	4138909.86	0.00345	0.00130	0.00140	0.00084	0.00060	0.00043	0.00023	0.00005	0.00001
48	583755.59	4138902.41	0.00353	0.00133	0.00142	0.00086	0.00061	0.00044	0.00024	0.00005	0.00001
49	583747.80	4138895.84	0.00321	0.00121	0.00133	0.00082	0.00059	0.00042	0.00023	0.00005	0.00001
50	583757.15	4138883.72	0.00335	0.00126	0.00137	0.00086	0.00061	0.00044	0.00024	0.00005	0.00001
51	583765.46	4138890.29	0.00370	0.00139	0.00148	0.00090	0.00064	0.00046	0.00025	0.00006	0.00002
52	583771.18	4138882.33	0.00377	0.00142	0.00151	0.00092	0.00066	0.00047	0.00026	0.00006	0.00002
53	583776.72	4138875.93	0.00386	0.00145	0.00154	0.00094	0.00067	0.00048	0.00026	0.00006	0.00002
54	583783.64	4138866.92	0.00395	0.00148	0.00157	0.00097	0.00070	0.00050	0.00027	0.00006	0.00002
55	583788.14	4138861.04	0.00400	0.00150	0.00159	0.00099	0.00071	0.00051	0.00028	0.00006	0.00002
56	583794.20	4138852.90	0.00406	0.00153	0.00162	0.00101	0.00073	0.00052	0.00028	0.00006	0.00002
57	583714.91	4138939.46	0.00270	0.00101	0.00116	0.00071	0.00050	0.00036	0.00019	0.00004	0.00001
58	583719.93	4138932.71	0.00278	0.00105	0.00118	0.00072	0.00051	0.00037	0.00020	0.00004	0.00001
59	583725.30	4138925.27	0.00287	0.00108	0.00121	0.00074	0.00053	0.00038	0.00021	0.00005	0.00001
60	583731.88	4138917.30	0.00298	0.00112	0.00125	0.00076	0.00054	0.00039	0.00021	0.00005	0.00001
61	583737.24	4138909.69	0.00306	0.00115	0.00127	0.00078	0.00056	0.00040	0.00022	0.00005	0.00001
62	583742.96	4138903.11	0.00315	0.00118	0.00131	0.00080	0.00057	0.00041	0.00022	0.00005	0.00001
63	583762.52	4138876.96	0.00342	0.00129	0.00140	0.00088	0.00063	0.00045	0.00024	0.00006	0.00002
64	583768.41	4138869.87	0.00351	0.00132	0.00143	0.00090	0.00064	0.00046	0.00025	0.00006	0.00002
65	583775.16	4138860.34	0.00358	0.00134	0.00146	0.00092	0.00066	0.00047	0.00026	0.00006	0.00002
66	583781.04	4138853.42	0.00366	0.00137	0.00149	0.00095	0.00068	0.00048	0.00027	0.00006	0.00002
67	583694.83	4138938.94	0.00221	0.00083	0.00100	0.00063	0.00045	0.00032	0.00017	0.00004	0.00001
68	584511.66	4138899.64	0.00294	0.00110	0.00183	0.00962	0.00638	0.00474	0.00298	0.00137	0.00038
69	584507.85	4138883.72	0.00306	0.00114	0.00185	0.00947	0.00631	0.00465	0.00293	0.00131	0.00037
70	584503.70	4138868.48	0.00316	0.00118	0.00188	0.00931	0.00624	0.00456	0.00287	0.00126	0.00035
71	584500.23	4138850.13	0.00325	0.00121	0.00189	0.00908	0.00613	0.00443	0.00280	0.00121	0.00033
72	584537.28	4138897.91	0.00248	0.00093	0.00166	0.00876	0.00578	0.00436	0.00271	0.00131	0.00037
73	584533.13	4138879.91	0.00258	0.00097	0.00169	0.00865	0.00574	0.00428	0.00267	0.00126	0.00035
74	584527.93	4138865.02	0.00270	0.00101	0.00172	0.00861	0.00574	0.00425	0.00266	0.00122	0.00034
75	583484.36	4139204.52	0.00048	0.00017	0.00024	0.00028	0.00021	0.00013	0.00007	0.00002	0.00001
76	583493.96	4139201.73	0.00050	0.00018	0.00025	0.00028	0.00021	0.00013	0.00008	0.00002	0.00001
77	583503.57	4139198.94	0.00052	0.00019	0.00026	0.00029	0.00022	0.00013	0.00008	0.00002	0.00001
78	583513.17	4139196.15	0.00054	0.00019	0.00028	0.00030	0.00022	0.00014	0.00008	0.00002	0.00001
79	583522.77	4139193.37	0.00056	0.00021	0.00029	0.00031	0.00023	0.00014	0.00008	0.00002	0.00001
80	583532.38	4139190.58	0.00059	0.00022	0.00031	0.00032	0.00024	0.00015	0.00009	0.00002	0.00001
81	583541.98	4139187.79	0.00062	0.00023	0.00033	0.00033	0.00024	0.00015	0.00009	0.00002	0.00001
82	583487.15	4139214.12	0.00049	0.00018	0.00024	0.00028	0.00021	0.00013	0.00008	0.00002	0.00001
83	583496.75	4139211.33	0.00051	0.00018	0.00025	0.00029	0.00022	0.00013	0.00008	0.00002	0.00001
84	583506.36	4139208.55	0.00054	0.00019	0.00027	0.00030	0.00022	0.00014	0.00008	0.00002	0.00001
85	583515.96	4139205.76	0.00056	0.00020	0.00028	0.00030	0.00023	0.00014	0.00008	0.00002	0.00001
86	583525.56	4139202.97	0.00059	0.00021	0.00030	0.00031	0.00023	0.00015	0.00008	0.00002	0.00001
87	583535.17	4139200.18	0.00061	0.00022	0.00031	0.00032	0.00024	0.00015	0.00009	0.00002	0.00001
88	583544.77	4139197.39	0.00065	0.00024	0.00033	0.00033	0.00025	0.00016	0.00009	0.00002	0.00001
89	583489.94	4139223.73	0.00051	0.00018	0.00025	0.00029	0.00021	0.00013	0.00008	0.00002	0.00001
90	583499.54	4139220.94	0.00053	0.00019	0.00026	0.00029	0.00022	0.00014	0.00008	0.00002	0.00001
91	583509.14	4139218.15	0.00056	0.00020	0.00027	0.00030	0.00022	0.00014	0.00008	0.00002	0.00001
92	583518.75	4139215.36	0.00058	0.00021	0.00029	0.00031	0.00023	0.00014	0.00008	0.00002	0.00001
93	583528.35	4139212.57	0.00061	0.00022	0.00030	0.00032	0.00024	0.00015	0.00009	0.00002	0.00001
94	583537.95	4139209.79	0.00064	0.00023	0.00032	0.00033	0.00024	0.00015	0.00009	0.00002	0.00001
95	583547.56	4139207.00	0.00067	0.00025	0.00034	0.00034	0.00025	0.00016	0.00009	0.00003	0.00001
96	583492.73	4139233.33	0.00053	0.00019	0.00025	0.00029	0.00022	0.00013	0.00008	0.00002	0.00001
97	583502.33	4139230.54	0.00055	0.00020	0.00026	0.00030	0.00022	0.00014	0.00008	0.00002	0.00001
98	583511.93	4139227.75	0.00058	0.00021	0.00028	0.00031	0.00023	0.00014	0.00008	0.00002	0.00001
99	583521.54	4139224.97	0.00060	0.00022	0.00029	0.00031	0.00023	0.00015	0.00008	0.00002	0.00001
100	583531.14	4139222.18	0.00063	0.00023	0.00031	0.00032	0.00024	0.00015	0.00009	0.00002	0.00001
101	583540.74	4139219.39	0.00067	0.00024	0.00033	0.00033	0.00025	0.00016	0.00009	0.00003	0.00001
102	583550.35	4139216.60	0.00070	0.00026	0.00035	0.00034	0.00026	0.00016	0.00009	0.00003	0.00001
103	583495.51	4139242.93	0.00055	0.00020	0.00026	0.00030	0.00022	0.00014	0.00008	0.00002	0.00001
104	583505.12	4139240.15	0.00058	0.00021	0.00027	0.00030	0.00023	0.00014	0.00008	0.00002	0.00001
105	583514.72	4139237.36	0.00060	0.00022	0.00028	0.00031	0.00023	0.00014	0.00008	0.00002	0.00001
106	583524.32	4139234.57	0.00063	0.00023	0.00030	0.00032	0.00024	0.00015	0.00009	0.00002	0.00001
107	583533.93	4139231.78	0.00066	0.00024	0.00031	0.00033	0.00024	0.00015	0.00009	0.00003	0.00001
108	583543.53	4139228.99	0.00070	0.00026	0.00033	0.00034	0.00025	0.00016	0.00009	0.00003	0.00001
109	583553.13	4139226.20	0.00074	0.00027	0.00036	0.00035	0.00026	0.00017	0.00010	0.00003	0.00001
110	583498.30	4139252.54	0.00058	0.00021	0.00027	0.00030	0.00023	0.00014	0.00008	0.00002	0.00001
111	583507.91	4139249.75	0.00060	0.00022	0.00028	0.00031	0.00023	0.00014	0.00008	0.00002	0.00001
112	583517.51	4139246.96	0.00063	0.00023	0.00029	0.00032	0.00024	0.00015	0.00009	0.00003	0.00001
113	583527.11	4139244.17	0.00066	0.00024	0.00031	0.00033	0.00024	0.00015	0.00009	0.00003	0.00001
114	583536.72	4139241.38	0.00069	0.00025	0.00032	0.00033	0.00025	0.00016	0.00009	0.00003	0.00001
115	583546.32	4139238.60	0.00073	0.00027	0.00034	0.00035	0.00026	0.00016	0.00009	0.00003	0.00001
116	583555.92	4139235.81	0.00077	0.00029	0.00036	0.00036	0.00027	0.00017	0.00010	0.00003	0.00001
117	583484.36	4139204.52	0.00046	0.00016	0.00023	0.00027	0.00020	0.00012	0.00007	0.00002	0.00001
118	583493.96	4139201.73	0.00048	0.00017	0.00024	0.00028	0.00021	0.00013	0.00007	0.00002	0.00001
119	583503.57	4139198.94	0.00050	0.00018	0.00025	0.00028	0.00021	0.00013	0.00008	0.00002	0.00001
120	583513.17	4139196.15	0.00052	0.00019	0.00026	0.00029	0.00022	0.00013	0.00008	0.00002	0.00001
121	583522.77	4139193.37	0.00054	0.00020	0.00028	0.00030	0.00022	0.00014	0.00008	0.00002	0.00001
122	583532.38	4139190.58	0.00057	0.00021	0.00030	0.00031	0.00023	0.00014	0.00008	0.00002	0.00001
123	583541.98	4139187.79	0.00059	0.00022	0.00031	0.00032	0.00023	0.00015	0.00009	0.00002	0.00001
124	583487.15	4139214.12	0.00047	0.00017	0.00023	0.00027	0.00020	0.00013	0.00007	0.00002	0.00001
125	583496.75	4139211.33	0.00049	0.00018	0.00024	0.00028	0.00021	0.00013	0.00008	0.00002	0.00001
126	583506.36	4139208.55	0.00051	0.00018	0.00025	0.00029	0.00021	0.00013	0.00008	0.00002	0.00001
127	583515.96	4139205.76	0.00054	0.00019	0.00027	0.00029	0.00022	0.00014	0.00008	0.00002	0.00001
128	583525.56	4139202.97	0.00056	0.00020	0.00028	0.00030	0.00022	0.00014	0.00008	0.00002	0.00001
129	583535.17	4139200.18	0.00059	0.00021	0.00030	0.00031	0.00023	0.00015	0.00008	0.00002	0.00001
130	583544.77	4139197.39	0.00062	0.00023	0.00032	0.00032	0.00024	0.00015	0.00009	0.00002	0.00001
131	583489.94	4139223.73	0.00049	0.00018	0.00024	0.00028	0.00021	0.00013	0.00007	0.00002	0.00001
132	583499.54	4139220.94	0.00051	0.00018	0.00025	0.00028	0.00021	0.00013	0.00008	0.00002	0.00001
133	583509.14	4139218.15	0.00053	0.00019	0.00026	0.00029	0.00022	0.00014	0.00008	0.00002	0.00001
134	583518.75	4139215.36	0.00056	0.00020	0.00027	0.00030	0.00022	0.00014	0.00008	0.00002	0.00001
135	583528.35	4139212.57	0.00058	0.00021	0.00029	0.00031	0.00023	0.00014	0.00008	0.00002	0.00001
136	583537.95	4139209.79	0.00061	0.00022	0.00030	0.00032	0.00024	0.00015	0.00009	0.00002	0.00001
137	583547.56	4139207.00	0.00064	0.00023	0.00032	0.00033	0.00024	0.00015	0.00009	0.00002	0.00001
138	583492.73	4139233.33	0.00051	0.00018	0.00024	0.00028	0.00021	0.00013	0.00007	0.00002	0.00001
139	583502.33	4139230.54	0.00053	0.00019	0.00024	0.00029	0.00022	0.00013	0.00008	0.00002	0.00001

Receptor No.	2023 Construct Risk	2024 Construct Risk	2025 Construct Risk	2026 Construct Risk	2027 Construct Risk	2028 Construct Risk	2029 Construct Risk	2030 Construct Risk	2031 Construct Risk
1	0.00000	0.00952	0.14618	0.09691	0.01086	0.00750	0.00414	0.00103	0.00026
2	0.00000	0.01074	0.15932	0.10183	0.01138	0.00802	0.00440	0.00103	0.00026
3	0.00000	0.01333	0.18560	0.11333	0.01267	0.00905	0.00491	0.00103	0.00026
4	0.00000	0.01482	0.20038	0.11990	0.01345	0.00957	0.00517	0.00103	0.00026
5	0.00000	0.01591	0.21188	0.12483	0.01396	0.01008	0.00543	0.00129	0.00026
6	0.00000	0.01646	0.21681	0.12811	0.01422	0.01034	0.00569	0.00129	0.00026
7	0.00000	0.01714	0.22338	0.13304	0.01474	0.01060	0.00569	0.00129	0.00026
8	0.00000	0.01768	0.22995	0.13632	0.01526	0.01112	0.00595	0.00129	0.00026
9	0.00000	0.01822	0.23487	0.13961	0.01551	0.01138	0.00621	0.00129	0.00026
10	0.00000	0.01863	0.23816	0.14289	0.01603	0.01164	0.00621	0.00129	0.00026
11	0.00000	0.01904	0.24308	0.14618	0.01629	0.01189	0.00646	0.00129	0.00052
12	0.00000	0.01727	0.22666	0.13961	0.01577	0.01112	0.00621	0.00129	0.00026
13	0.00000	0.01795	0.23487	0.14454	0.01629	0.01164	0.00646	0.00155	0.00052
14	0.00000	0.01986	0.25294	0.15275	0.01707	0.01241	0.00672	0.00155	0.00052
15	0.00000	0.02026	0.25787	0.15603	0.01758	0.01267	0.00698	0.00155	0.00052
16	0.00000	0.02067	0.26279	0.16096	0.01810	0.01293	0.00698	0.00155	0.00052
17	0.00000	0.02121	0.26772	0.16425	0.01862	0.01319	0.00724	0.00155	0.00052
18	0.00000	0.02149	0.27101	0.16753	0.01888	0.01345	0.00750	0.00155	0.00052
19	0.00000	0.02176	0.27593	0.17246	0.01939	0.01396	0.00750	0.00181	0.00052
20	0.00000	0.01455	0.19710	0.11990	0.01345	0.00957	0.00517	0.00103	0.00026
21	0.00000	0.01496	0.20202	0.12318	0.01370	0.00983	0.00543	0.00129	0.00026
22	0.00000	0.01537	0.20695	0.12647	0.01396	0.01008	0.00543	0.00129	0.00026
23	0.00000	0.01605	0.21352	0.12975	0.01448	0.01034	0.00569	0.00129	0.00026
24	0.00000	0.01646	0.21681	0.13304	0.01500	0.01060	0.00569	0.00129	0.00026
25	0.00000	0.01700	0.22338	0.13632	0.01526	0.01086	0.00595	0.00129	0.00026
26	0.00000	0.01836	0.23980	0.14946	0.01681	0.01189	0.00646	0.00155	0.00052
27	0.00000	0.01877	0.24473	0.15275	0.01707	0.01215	0.00672	0.00155	0.00052
28	0.00000	0.01918	0.24965	0.15603	0.01758	0.01267	0.00698	0.00155	0.00052
29	0.00000	0.01958	0.25458	0.16096	0.01810	0.01293	0.00698	0.00155	0.00052
30	0.00000	0.01183	0.17082	0.10840	0.01215	0.00853	0.00465	0.00103	0.00026
31	0.00000	0.01564	0.31043	1.63261	0.17066	0.12644	0.07964	0.03620	0.01008
32	0.00000	0.01632	0.31371	1.60633	0.16859	0.12412	0.07809	0.03491	0.00983
33	0.00000	0.01673	0.31864	1.58005	0.16678	0.12153	0.07680	0.03361	0.00931
34	0.00000	0.01714	0.32028	1.53899	0.16342	0.11817	0.07473	0.03206	0.00879
35	0.00000	0.01319	0.28086	1.48643	0.15437	0.11610	0.07240	0.03465	0.00983
36	0.00000	0.01374	0.28579	1.46672	0.15334	0.11429	0.07137	0.03336	0.00931
37	0.00000	0.01428	0.29072	1.45851	0.15308	0.11326	0.07085	0.03232	0.00905
38	0.00000	0.00911	0.13961	0.09362	0.01034	0.00724	0.00414	0.00103	0.00026
39	0.00000	0.01020	0.15275	0.09855	0.01112	0.00776	0.00440	0.00103	0.00026
40	0.00000	0.01265	0.17739	0.11005	0.01241	0.00879	0.00465	0.00103	0.00026
41	0.00000	0.01401	0.19217	0.11662	0.01293	0.00931	0.00517	0.00103	0.00026
42	0.00000	0.01510	0.20367	0.12154	0.01345	0.00983	0.00517	0.00103	0.00026
43	0.00000	0.01564	0.20859	0.12318	0.01370	0.01008	0.00543	0.00129	0.00026
44	0.00000	0.01632	0.21516	0.12811	0.01422	0.01034	0.00569	0.00129	0.00026
45	0.00000	0.01686	0.22009	0.13140	0.01474	0.01060	0.00569	0.00129	0.00026
46	0.00000	0.01727	0.22502	0.13468	0.01500	0.01086	0.00595	0.00129	0.00026
47	0.00000	0.01768	0.22995	0.13797	0.01551	0.01112	0.00595	0.00129	0.00026
48	0.00000	0.01809	0.23323	0.14125	0.01577	0.01138	0.00621	0.00129	0.00026
49	0.00000	0.01646	0.21845	0.13468	0.01526	0.01086	0.00595	0.00129	0.00026
50	0.00000	0.01714	0.22502	0.14125	0.01577	0.01138	0.00621	0.00129	0.00026
51	0.00000	0.01890	0.24308	0.14782	0.01655	0.01189	0.00646	0.00155	0.00052
52	0.00000	0.01931	0.24801	0.15111	0.01707	0.01215	0.00672	0.00155	0.00052
53	0.00000	0.01972	0.25294	0.15439	0.01732	0.01241	0.00672	0.00155	0.00052
54	0.00000	0.02013	0.25787	0.15932	0.01810	0.01293	0.00698	0.00155	0.00052
55	0.00000	0.02040	0.26115	0.16260	0.01836	0.01319	0.00724	0.00155	0.00052
56	0.00000	0.02081	0.26608	0.16589	0.01888	0.01345	0.00724	0.00155	0.00052
57	0.00000	0.01374	0.19053	0.11662	0.01293	0.00931	0.00491	0.00103	0.00026
58	0.00000	0.01428	0.19381	0.11826	0.01319	0.00957	0.00517	0.00103	0.00026
59	0.00000	0.01469	0.19874	0.12154	0.01370	0.00983	0.00543	0.00129	0.00026
60	0.00000	0.01523	0.20531	0.12483	0.01396	0.01008	0.00543	0.00129	0.00026
61	0.00000	0.01564	0.20859	0.12811	0.01448	0.01034	0.00569	0.00129	0.00026
62	0.00000	0.01605	0.21516	0.13140	0.01474	0.01060	0.00569	0.00129	0.00026
63	0.00000	0.01754	0.22995	0.14454	0.01629	0.01164	0.00621	0.00155	0.00052
64	0.00000	0.01795	0.23487	0.14782	0.01655	0.01189	0.00646	0.00155	0.00052
65	0.00000	0.01822	0.23980	0.15111	0.01707	0.01215	0.00672	0.00155	0.00052
66	0.00000	0.01863	0.24473	0.15603	0.01758	0.01241	0.00698	0.00155	0.00052
67	0.00000	0.01129	0.16425	0.10348	0.01164	0.00827	0.00440	0.00103	0.00026
68	0.00000	0.01496	0.30057	1.58005	0.16497	0.12256	0.07706	0.03542	0.00983
69	0.00000	0.01550	0.30386	1.55542	0.16316	0.12024	0.07576	0.03387	0.00957
70	0.00000	0.01605	0.30878	1.52914	0.16135	0.11791	0.07421	0.03258	0.00905
71	0.00000	0.01646	0.31043	1.49136	0.15851	0.11455	0.07240	0.03129	0.00853
72	0.00000	0.01265	0.27265	1.43880	0.14946	0.11274	0.07007	0.03387	0.00957
73	0.00000	0.01319	0.27758	1.42073	0.14842	0.11067	0.06904	0.03258	0.00905
74	0.00000	0.01374	0.28250	1.41416	0.14842	0.10989	0.06878	0.03155	0.00879
75	0.00000	0.00231	0.03942	0.04599	0.00543	0.00336	0.00181	0.00052	0.00026
76	0.00000	0.00245	0.04106	0.04599	0.00543	0.00336	0.00207	0.00052	0.00026
77	0.00000	0.00258	0.04270	0.04763	0.00569	0.00336	0.00207	0.00052	0.00026
78	0.00000	0.00258	0.04599	0.04927	0.00569	0.00362	0.00207	0.00052	0.00026
79	0.00000	0.00286	0.04763	0.05092	0.00595	0.00362	0.00207	0.00052	0.00026
80	0.00000	0.00299	0.05092	0.05256	0.00621	0.00388	0.00233	0.00052	0.00026
81	0.00000	0.00313	0.05420	0.05420	0.00621	0.00388	0.00233	0.00052	0.00026
82	0.00000	0.00245	0.03942	0.04599	0.00543	0.00336	0.00207	0.00052	0.00026
83	0.00000	0.00245	0.04106	0.04763	0.00569	0.00336	0.00207	0.00052	0.00026
84	0.00000	0.00258	0.04435	0.04927	0.00569	0.00362	0.00207	0.00052	0.00026
85	0.00000	0.00272	0.04599	0.04927	0.00595	0.00362	0.00207	0.00052	0.00026
86	0.00000	0.00286	0.04927	0.05092	0.00595	0.00388	0.00207	0.00052	0.00026
87	0.00000	0.00299	0.05092	0.05256	0.00621	0.00388	0.00233	0.00052	0.00026
88	0.00000	0.00326	0.05420	0.05420	0.00646	0.00414	0.00233	0.00052	0.00026
89	0.00000	0.00245	0.04106	0.04763	0.00543	0.00336	0.00207	0.00052	0.00026
90	0.00000	0.00258	0.04270	0.04763	0.00569	0.00362	0.00207	0.00052	0.00026
91	0.00000	0.00272	0.04435	0.04927	0.00569	0.00362	0.00207	0.00052	0.00026
92	0.00000	0.00286	0.04763	0.05092	0.00595	0.00362	0.00207	0.00052	0.00026
93	0.00000	0.00299	0.04927	0.05256	0.00621	0.00388	0.00233	0.00052	0.00026
94	0.00000	0.00313	0.05256	0.05420	0.00621	0.00388	0.00233	0.00052	0.00026
95	0.00000	0.00340	0.05584	0.05584	0.00646	0.00414	0.00233	0.00078	0.00026
96	0.00000	0.00258	0.04106	0.04763	0.00569	0.00336	0.00207	0.00052	0.00026
97	0.00000	0.00272	0.04270	0.04927	0.00569	0.00362	0.00207	0.00052	0.00026
98	0.00000	0.00286	0.04599	0.05092	0.00595	0.00362	0.00207	0.00052	0.00026
99	0.00000	0.00299	0.04763	0.05092	0.00595	0.00388	0.00207	0.00052	0.00026
100	0.00000	0.00313	0.05092	0.05256	0.00621	0.00388	0.00233	0.00052	0.00026
101	0.00000	0.00326	0.05420	0.05420	0.00646	0.00414	0.00233	0.00078	0.00026
102	0.00000	0.00354	0.05749	0.05584	0.00672	0.00414	0.00233	0.00078	0.00026
103	0.00000	0.00272	0.04270	0.04927	0.00569	0.00362	0.00207	0.00052	0.00026
104	0.00000	0.00286	0.04435	0.04927	0.00595	0.00362	0.00207	0.00052	0.00026
105	0.00000	0.00299	0.04599	0.05092	0.00595	0.00362	0.00207	0.00052	0.00026
106	0.00000	0.00313	0.04927	0.05256	0.00621	0.00388	0.00233	0.00052	0.00026
107	0.00000	0.00326	0.05092	0.05420	0.00621	0.00388	0.00233	0.00078	0.00026
108	0.00000	0.00354	0.05420	0.05584	0.00646	0.00414	0.00233	0.00078	0.00026
109	0.00000	0.00367	0.05913	0.05749	0.00672	0.00440	0.00259	0.00078	0.00026
110	0.00000	0.00286	0.04435	0.04927	0.00595	0.00362	0.00207	0.00052	0.00026
111	0.00000	0.00299	0.04599	0.05092	0.00595	0.00362	0.00207	0.00052	0.00026
112	0.00000	0.00313	0.04763	0.05256	0.00621	0.00388	0.00233	0.00078	0.00026
113	0.00000	0.00326	0.05092	0.05420	0.00621	0.00388	0.00233	0.00078	0.00026
114	0.00000	0.00340	0.05256	0.05420	0.00646	0.00414	0.00233	0.00078	0.00026
115	0.00000	0.00367	0.05584	0.05749	0.00672	0.00414	0.00233	0.00078	0.00026
116	0.00000	0.00394	0.05913	0.05913	0.00698	0.00440	0.00259	0.00078	0.00026
117	0.00000	0.00218	0.03778	0.04435	0.00517	0.00310	0.00181	0.00052	0.00026
118	0.00000	0.00231	0.03942	0.04599	0.00543	0.00336	0.00181	0.00052	0.00026
119	0.00000	0.00245	0.04106	0.04599	0.00543	0.00336	0.00207	0.00052	0.00026
120	0.00000	0.00258	0.04270	0.04763	0.00569	0.00336	0.00207	0.00052	0.00026
121	0.00000	0.00272	0.04599	0.04927	0.00569	0.00362	0.00207	0.00052	0.00026
122	0.00000	0.00286	0.04927	0.05092	0.00595	0.00362	0.00207	0.00052	0.00026
123	0.00000	0.00299	0.05092	0.05256	0.00595	0.00388	0.00233	0.00052	0.00026
124	0.00000	0.00231	0.03778	0.04435	0.00517	0.00336	0.00181	0.00052	0.00026
125	0.00000	0.00245	0.03942	0.04599	0.00543	0.00336	0.00207	0.00052	0.00026
126	0.00000	0.00245	0.04106	0.04763	0.00543	0.00336	0.00207	0.00052	0.00026
127	0.00000	0.00258	0.04435	0.04763	0.00569	0.00362	0.00207	0.00052	0.00026
128	0.00000	0.00272	0.04599	0.04927	0.00569	0.00362	0.00207	0.00052	0.00026
129	0.00000	0.00286	0.04927	0.05092	0.00595	0.00388	0.00207	0.00052	0.00026
130	0.00000	0.00313	0.05256	0.05256	0.00621	0.00388	0.00233	0.00052	0.00026
131	0.00000	0.00245	0.03942	0.04599	0.00543	0.00336	0.00181	0.00052	0.00026
132	0.00000	0.00245	0.04106	0.04599	0.00543	0.00336	0.00207	0.00052	0.00026
133	0.00000	0.00258	0.04270	0.04763	0.00569	0.00362	0.00207	0.00052	0.00026
134	0.00000	0.00272	0.04435	0.04927	0.00569	0.00362	0.00207	0.00052	0.00026
135	0.00000	0.00286	0.04763	0.05092	0.00595	0.00362	0.00207	0.00052	0.00026
136	0.00000	0.00299	0.04927	0.05256	0.00621	0.00388	0.00233	0.00052	0.00026
137	0.00000	0.00313	0.05256	0.05420	0.00621	0.00388	0.00233	0.00052	0.00026
138	0.00000	0.00245	0.03942	0.04599	0.00543	0.00336	0.00181	0.00052	0.00026
139	0.00000	0.00245	0.04106	0.04763	0.00569	0.00336	0.00207	0.00052	0.00026

Receptor No.	Local Roads- Project Traffic: Concentration DPM	Concentration Exh TOG	Concentration Evap TOG	Cancer Risk (per million) DPM	Cancer Risk (per million) Exh TOG	Cancer Risk (per million) Evap TOG	Project Generators: Generator DPM	Project Generators: Cancer Risk	Project Restaurants: Concentration PAHs	Concentration Naph	Cancer Risk (per million) PAHs	Cancer Risk (per million) Naph
1	0.0001	0.0034	0.0057	0.03965	0.01090	0.00109	0.0007	0.38518	5.10E-07	2.57E-05	0.00102	0.00159
2	0.0001	0.0036	0.0061	0.04532	0.01161	0.00116	0.0007	0.40218	5.61E-07	2.82E-05	0.00113	0.00174
3	0.0001	0.0040	0.0068	0.04532	0.01294	0.00129	0.0008	0.43050	6.66E-07	3.34E-05	0.00134	0.00207
4	0.0001	0.0042	0.0071	0.05098	0.01365	0.00136	0.0008	0.44749	7.29E-07	3.66E-05	0.00146	0.00226
5	0.0001	0.0044	0.0074	0.05098	0.01410	0.00141	0.0008	0.45882	7.82E-07	3.92E-05	0.00157	0.00242
6	0.0001	0.0044	0.0074	0.05098	0.01407	0.00141	0.0008	0.47015	8.25E-07	4.14E-05	0.00166	0.00256
7	0.0001	0.0044	0.0074	0.05098	0.01407	0.00140	0.0009	0.48714	8.75E-07	4.38E-05	0.00176	0.00271
8	0.0001	0.0043	0.0073	0.05098	0.01404	0.00140	0.0009	0.49847	9.07E-07	4.54E-05	0.00182	0.00281
9	0.0001	0.0043	0.0073	0.05098	0.01397	0.00139	0.0009	0.50980	9.22E-07	4.61E-05	0.00185	0.00285
10	0.0001	0.0043	0.0073	0.05098	0.01397	0.00139	0.0009	0.52113	9.36E-07	4.69E-05	0.00188	0.00290
11	0.0001	0.0043	0.0073	0.05098	0.01394	0.00139	0.0009	0.53246	9.41E-07	4.71E-05	0.00189	0.00291
12	0.0001	0.0041	0.0069	0.05098	0.01320	0.00132	0.0009	0.51547	9.07E-07	4.54E-05	0.00182	0.00281
13	0.0001	0.0041	0.0069	0.05098	0.01323	0.00132	0.0010	0.53812	9.13E-07	4.58E-05	0.00183	0.00283
14	0.0001	0.0043	0.0073	0.05098	0.01401	0.00139	0.0010	0.55512	9.42E-07	4.72E-05	0.00189	0.00292
15	0.0001	0.0043	0.0073	0.05098	0.01397	0.00139	0.0010	0.56645	9.35E-07	4.68E-05	0.00188	0.00289
16	0.0001	0.0043	0.0073	0.05098	0.01404	0.00140	0.0010	0.57777	9.24E-07	4.63E-05	0.00186	0.00286
17	0.0001	0.0044	0.0073	0.05098	0.01407	0.00140	0.0011	0.59477	9.11E-07	4.57E-05	0.00183	0.00282
18	0.0001	0.0044	0.0073	0.05098	0.01407	0.00140	0.0011	0.60610	9.02E-07	4.52E-05	0.00181	0.00280
19	0.0001	0.0044	0.0073	0.05098	0.01407	0.00140	0.0011	0.62309	8.89E-07	4.46E-05	0.00178	0.00275
20	0.0001	0.0041	0.0070	0.05098	0.01333	0.00133	0.0008	0.44749	7.36E-07	3.69E-05	0.00148	0.00228
21	0.0001	0.0041	0.0070	0.05098	0.01329	0.00133	0.0008	0.45882	7.78E-07	3.90E-05	0.00156	0.00241
22	0.0001	0.0041	0.0069	0.05098	0.01326	0.00132	0.0008	0.47015	8.19E-07	4.10E-05	0.00164	0.00254
23	0.0001	0.0041	0.0069	0.05098	0.01326	0.00132	0.0009	0.48148	8.61E-07	4.31E-05	0.00173	0.00266
24	0.0001	0.0041	0.0069	0.05098	0.01323	0.00132	0.0009	0.49281	8.82E-07	4.42E-05	0.00177	0.00273
25	0.0001	0.0041	0.0069	0.05098	0.01326	0.00132	0.0009	0.50414	9.01E-07	4.51E-05	0.00181	0.00279
26	0.0001	0.0041	0.0069	0.05098	0.01326	0.00132	0.0010	0.54945	9.11E-07	4.57E-05	0.00183	0.00282
27	0.0001	0.0041	0.0069	0.05098	0.01329	0.00132	0.0010	0.56078	9.03E-07	4.52E-05	0.00181	0.00280
28	0.0001	0.0041	0.0069	0.05098	0.01329	0.00132	0.0010	0.57777	8.89E-07	4.46E-05	0.00179	0.00276
29	0.0001	0.0041	0.0070	0.05098	0.01336	0.00133	0.0010	0.58910	8.81E-07	4.42E-05	0.00177	0.00273
30	0.0001	0.0038	0.0064	0.04532	0.01219	0.00122	0.0007	0.41351	6.07E-07	3.05E-05	0.00122	0.00188
31	0.0003	0.0169	0.0269	0.15294	0.05473	0.00514	0.0032	1.81263	1.20E-06	6.06E-05	0.00241	0.00375
32	0.0003	0.0157	0.0250	0.14161	0.05085	0.00477	0.0032	1.80696	1.14E-06	5.75E-05	0.00229	0.00355
33	0.0002	0.0147	0.0234	0.13595	0.04758	0.00447	0.0032	1.81263	1.09E-06	5.52E-05	0.00219	0.00341
34	0.0002	0.0137	0.0218	0.12462	0.04428	0.00416	0.0032	1.81263	1.05E-06	5.30E-05	0.00211	0.00327
35	0.0003	0.0170	0.0270	0.15294	0.05495	0.00516	0.0030	1.68801	1.21E-06	6.12E-05	0.00243	0.00378
36	0.0003	0.0156	0.0249	0.14161	0.05049	0.00474	0.0030	1.69934	1.15E-06	5.79E-05	0.00230	0.00357
37	0.0002	0.0147	0.0233	0.13595	0.04742	0.00445	0.0030	1.70500	1.09E-06	5.50E-05	0.00219	0.00340
38	0.0001	0.0032	0.0053	0.03965	0.01022	0.00102	0.0007	0.39085	4.72E-07	2.38E-05	0.00095	0.00147
39	0.0001	0.0034	0.0057	0.03965	0.01087	0.00109	0.0007	0.40218	5.19E-07	2.61E-05	0.00104	0.00162
40	0.0001	0.0037	0.0063	0.04532	0.01210	0.00121	0.0008	0.43616	6.19E-07	3.11E-05	0.00124	0.00192
41	0.0001	0.0039	0.0067	0.04532	0.01274	0.00127	0.0008	0.44749	6.80E-07	3.42E-05	0.00136	0.00211
42	0.0001	0.0041	0.0069	0.04532	0.01316	0.00131	0.0008	0.46449	7.30E-07	3.67E-05	0.00147	0.00227
43	0.0001	0.0041	0.0069	0.04532	0.01316	0.00131	0.0008	0.47581	7.71E-07	3.88E-05	0.00155	0.00239
44	0.0001	0.0041	0.0069	0.04532	0.01313	0.00131	0.0009	0.48714	8.17E-07	4.11E-05	0.00164	0.00254
45	0.0001	0.0041	0.0069	0.04532	0.01313	0.00131	0.0009	0.50414	8.47E-07	4.25E-05	0.00170	0.00263
46	0.0001	0.0041	0.0068	0.04532	0.01310	0.00130	0.0009	0.51547	8.59E-07	4.31E-05	0.00172	0.00267
47	0.0001	0.0041	0.0069	0.04532	0.01310	0.00131	0.0009	0.52679	8.71E-07	4.38E-05	0.00175	0.00271
48	0.0001	0.0041	0.0068	0.04532	0.01310	0.00130	0.0010	0.53812	8.75E-07	4.40E-05	0.00176	0.00272
49	0.0001	0.0038	0.0065	0.04532	0.01239	0.00124	0.0009	0.52113	8.42E-07	4.23E-05	0.00169	0.00261
50	0.0001	0.0038	0.0065	0.04532	0.01242	0.00124	0.0010	0.53812	8.46E-07	4.25E-05	0.00170	0.00263
51	0.0001	0.0041	0.0069	0.04532	0.01313	0.00131	0.0010	0.56078	8.75E-07	4.40E-05	0.00176	0.00272
52	0.0001	0.0041	0.0069	0.04532	0.01313	0.00131	0.0010	0.57211	8.67E-07	4.36E-05	0.00174	0.00269
53	0.0001	0.0041	0.0069	0.04532	0.01320	0.00131	0.0010	0.58344	8.57E-07	4.31E-05	0.00172	0.00266
54	0.0001	0.0041	0.0069	0.04532	0.01323	0.00132	0.0011	0.60043	8.44E-07	4.24E-05	0.00169	0.00262
55	0.0001	0.0041	0.0069	0.04532	0.01323	0.00132	0.0011	0.61176	8.35E-07	4.20E-05	0.00168	0.00260
56	0.0001	0.0041	0.0069	0.04532	0.01326	0.00132	0.0011	0.62309	8.23E-07	4.14E-05	0.00165	0.00256
57	0.0001	0.0039	0.0065	0.04532	0.01245	0.00124	0.0008	0.44749	6.85E-07	3.45E-05	0.00138	0.00213
58	0.0001	0.0039	0.0065	0.04532	0.01245	0.00124	0.0008	0.45882	7.25E-07	3.64E-05	0.00146	0.00225
59	0.0001	0.0038	0.0065	0.04532	0.01242	0.00124	0.0008	0.47015	7.63E-07	3.83E-05	0.00153	0.00237
60	0.0001	0.0038	0.0065	0.04532	0.01242	0.00124	0.0009	0.48714	8.01E-07	4.03E-05	0.00161	0.00249
61	0.0001	0.0038	0.0065	0.04532	0.01239	0.00124	0.0009	0.49847	8.21E-07	4.12E-05	0.00165	0.00255
62	0.0001	0.0038	0.0065	0.04532	0.01242	0.00124	0.0009	0.50980	8.37E-07	4.20E-05	0.00168	0.00260
63	0.0001	0.0039	0.0065	0.04532	0.01245	0.00124	0.0010	0.54945	8.44E-07	4.24E-05	0.00169	0.00262
64	0.0001	0.0039	0.0065	0.04532	0.01252	0.00125	0.0010	0.56645	8.35E-07	4.20E-05	0.00168	0.00259
65	0.0001	0.0039	0.0065	0.04532	0.01252	0.00124	0.0010	0.57777	8.22E-07	4.13E-05	0.00165	0.00255
66	0.0001	0.0039	0.0066	0.04532	0.01258	0.00125	0.0011	0.59477	8.14E-07	4.09E-05	0.00163	0.00253
67	0.0001	0.0035	0.0060	0.03965	0.01142	0.00114	0.0007	0.41917	5.63E-07	2.83E-05	0.00113	0.00175
68	0.0003	0.0158	0.0252	0.14161	0.05114	0.00480	0.0032	1.80130	1.14E-06	5.73E-05	0.00228	0.00354
69	0.0002	0.0148	0.0235	0.13595	0.04771	0.00448	0.0032	1.80130	1.08E-06	5.45E-05	0.00217	0.00337
70	0.0002	0.0138	0.0221	0.12462	0.04477	0.00421	0.0032	1.80130	1.04E-06	5.24E-05	0.00208	0.00324
71	0.0002	0.0129	0.0206	0.11895	0.04179	0.00393	0.0032	1.80130	9.98E-07	5.04E-05	0.00200	0.00311
72	0.0003	0.0158	0.0252	0.14161	0.05123	0.00481	0.0030	1.67668	1.14E-06	5.76E-05	0.00229	0.00356
73	0.0002	0.0146	0.0233	0.13028	0.04735	0.00444	0.0030	1.69367	1.08E-06	5.47E-05	0.00218	0.00338
74	0.0002	0.0138	0.0220	0.12462	0.04470	0.00420	0.0030	1.69367	1.03E-06	5.21E-05	0.00207	0.00322
75	0.0001	0.0043	0.0072	0.04532	0.01375	0.00138	0.0004	0.22091	2.92E-07	1.47E-05	0.00059	0.00091
76	0.0001	0.0051	0.0087	0.05664	0.01643	0.00165	0.0004	0.22658	3.00E-07	1.51E-05	0.00060	0.00093
77	0.0001	0.0059	0.0100	0.06797	0.01902	0.00191	0.0004	0.22658	3.07E-07	1.54E-05	0.00062	0.00095
78	0.0001	0.0066	0.0113	0.07364	0.02138	0.00215	0.0004	0.23224	3.14E-07	1.58E-05	0.00063	0.00097
79	0.0001	0.0073	0.0124	0.07930	0.02348	0.00236	0.0004	0.23791	3.23E-07	1.62E-05	0.00065	0.00100
80	0.0002	0.0078	0.0133	0.08497	0.02526	0.00254	0.0004	0.23791	3.33E-07	1.67E-05	0.00067	0.00103
81	0.0002	0.0083	0.0141	0.09063	0.02672	0.00269	0.0004	0.24357	3.40E-07	1.71E-05	0.00068	0.00105
82	0.0001	0.0052	0.0088	0.05664	0.01675	0.00169	0.0004	0.22091	2.98E-07	1.50E-05	0.00060	0.00093
83	0.0001	0.0062	0.0106	0.06797	0.02012	0.00202	0.0004	0.22658	3.05E-07	1.53E-05	0.00061	0.00095
84	0.0001	0.0072	0.0123	0.07930	0.02319	0.00234	0.0004	0.23224	3.12E-07	1.57E-05	0.00063	0.00097
85	0.0002	0.0080	0.0137	0.08497	0.02584	0.00260	0.0004	0.23224	3.20E-07	1.61E-05	0.00064	0.00099
86	0.0002	0.0087	0.0148	0.09630	0.02808	0.00283	0.0004	0.23791	3.28E-07	1.64E-05	0.00066	0.00102
87	0.0002	0.0093	0.0158	0.10196	0.02992	0.00301	0.0004	0.24357	3.37E-07	1.69E-05	0.00068	0.00104
88	0.0002	0.0097	0.0166	0.10762	0.03141	0.00316	0.0004	0.24924	3.46E-07	1.74E-05	0.00069	0.00107
89	0.0001	0.0065	0.0112	0.06797	0.02115	0.00213	0.0004	0.22658	3.04E-07	1.52E-05	0.00061	0.00094
90	0.0002	0.0078	0.0134	0.08497	0.02533	0.00255	0.0004	0.23224	3.11E-07	1.56E-05	0.00062	0.00096
91	0.0002	0.0089	0.0153	0.09630	0.02888	0.00291	0.0004	0.23224	3.18E-07	1.60E-05	0.00064	0.00099
92	0.0002	0.0098	0.0168	0.10196	0.03176	0.00320	0.0004	0.23791	3.25E-07	1.63E-05	0.00065	0.00101
93	0.0002	0.0105	0.0180	0.11329	0.03406	0.00343	0.0004	0.23791	3.33E-07	1.67E-05	0.00067	0.00103
94	0.0002	0.0111	0.0190	0.11895	0.03594	0.00362	0.0004	0.24357	3.43E-07	1.72E-05	0.00069	0.00106
95	0.0002	0.0116	0.0198	0.12462	0.03749	0.00378	0.0004	0.24924	3.53E-07	1.77E-05	0.00071	0.00109
96	0.0002	0.0086	0.0146	0.09063	0.02772	0.00279	0.0004	0.23224	3.08E-07	1.55E-05	0.00062	0.00096
97	0.0002	0.0101	0.0173	0.10196	0.03277	0.00330	0.0004	0.23224	3.17E-07	1.59E-05	0.00064	0.00098
98	0.0002	0.0114	0.0194	0.11895	0.03674	0.00370	0.0004	0.23791	3.24E-07	1.63E-05	0.00065	0.00100
99	0.0002	0.0123	0.0210	0.12462	0.03972	0.00400	0.0004	0.24357	3.32E-07	1.67E-05	0.00067	0.00103
100	0.0002	0.0130	0.0222	0.13595	0.04202	0.00423	0.0004	0.24357	3.39E-07	1.70E-05	0.00068	0.00105
101	0.0003	0.0136	0.0232	0.14161	0.04396	0.00443	0.0004	0.24924	3.50E-07	1.75E-05	0.00070	0.00108
102	0.0003	0.0141	0.0241	0.14728	0.04564	0.00460	0.0005	0.25490	3.61E-07	1.81E-05	0.00072	0.00112
103	0.0002	0.0117	0.0200	0.11329	0.03778	0.00381	0.0004	0.23224	3.12E-07	1.57E-05	0.00063	0.00097
104	0.0002	0.0135	0.0231	0.13028	0.04367	0.00440	0.0004	0.23791	3.21E-07	1.61E-05	0.00064	0.00100
105	0.0003	0.0148	0.0253	0.14161	0.04781	0.00482	0.0004	0.24357	3.30E-07	1.66E-05	0.00066	0.00102
106	0.0003	0.0157	0.0268	0.15294	0.05075	0.00512	0.0004	0.24357	3.38E-07	1.70E-05	0.00068	0.00105
107	0.0003	0.0164	0.0280	0.15860	0.05295	0.00534	0.0004	0.24924	3.47E-07	1.74E-05	0.00070	0.00108
108	0.0003	0.0171	0.0292	0.16993	0.05518	0.00557	0.0005	0.25490	3.59E-07	1.80E-05	0.00072	0.00111
109	0.0003	0.0176	0.0302	0.17560	0.05706	0.00576	0.0005	0.26057	3.70E-07	1.86E-05	0.00074	0.00115
110	0.0003	0.0167	0.0285	0.15294	0.05389	0.00543	0.0004	0.23791	3.19E-07	1.60E-05	0.00064	0.00099
111	0.0003	0.0185	0.0316	0.16993	0.05968	0.00602	0.0004	0.24357	3.27E-07	1.64E-05	0.00066	0.00101
112	0.0003	0.0197	0.0336	0.18126	0.06359	0.00642	0.0004	0.24924	3.36E-07	1.68E-05	0.00067	0.00104
113	0.0003	0.0205	0.0351	0.18693	0.06637	0.00670	0.0004	0.24924	3.44E-07	1.73E-05	0.00069	0.00107
114	0.0004	0.0213	0.0364	0.19826	0.06880	0.00694	0.0005	0.25490	3.54E-07	1.78E-05	0.00071	0.00110
115	0.0004	0.0221	0.0379	0.20392	0.07161	0.00723	0.0005	0.26057	3.68E-07	1.85E-05	0.00074	0.00114
116	0.0004	0.0229	0.0392	0.20959	0.07400	0.00747	0.0005	0.26623	3.82E-07	1.92E-05	0.00077	0.00118
117	0.0001	0.0035	0.0059	0.03965	0.01126	0.00113	0.0004	0.21525	2.56E-07	1.29E-05	0.00051	0.00080
118	0.0001	0.0041	0.0071	0.04532	0.01339	0.00134	0.0004	0.21525	2.62E-07	1.32E-05	0.00053	0.00081
119	0.0001	0.0048	0.0082	0.05664	0.01549	0.00156	0.0004	0.22091	2.68E-07	1.35E-05	0.00054	0.00083
120	0.0001	0.0054	0.0092	0.06231	0.01743	0.00175	0.0004	0.22658	2.74E-07	1.38E-05	0.00055	0.00085
121	0.0001	0.0059	0.0101	0.06797	0.01915	0.00193	0.0004	0.22658	2.81E-07	1.41E-05	0.00057	0.00087
122	0.0001	0.0064	0.0109	0.07364	0.02067	0.00208	0.0004	0.23224	2.90E-07	1.46E-05	0.00058	0.00090
123	0.0001	0.0068	0.0115	0.07364	0.02183	0.00220	0.0004	0.23791	2.96E-07	1.49E-05	0.00060	0.00092
124	0.0001	0.0041	0.0070	0.04532	0.01320	0.00133	0.0004	0.21525	2.61E-07	1.31E-05	0.00052	0.00081
125	0.0001	0.0049	0.0083	0.05664	0.01578	0.00159	0.0004	0.22091	2.67E-07	1.34E-05	0.00054	0.00083
126	0.0001	0.0056	0.0096	0.06231	0.01821	0.00183	0.0004	0.22658	2.73E-07	1.37E-05	0.00055	0.00085
127	0.0001	0.0063	0.0107	0.07364	0.02031	0.00204	0.0004	0.22658	2.80E-07	1.40E-05	0.00056	0.00087
128	0.0001	0.0068	0.0117	0.07930	0.02212	0.00223	0.0004	0.23224	2.86E-07	1.44E-05	0.00057	0.00089
129	0.0002	0.0073	0.0125	0.08497	0.02364	0.00238	0.0004	0.23791	2.94E-07	1.47E-05	0.00059	0.00091
130	0.0002	0.0077	0.0131	0.08497	0.02484	0.00250	0.0004	0.24357	3.01E-07	1.51E-05	0.00061	0.00094
131	0.0001	0.0049	0.0083	0.05664	0.01575	0.00159	0.0004	0.22091	2.66E-07	1.34E-05	0.00053	0.00083
132	0.0001	0.0058	0.0099	0.06797	0.01886	0.00190	0.0004	0.22658	2.72E-07	1.37E-05	0.00055	0.00085
133	0.0001	0.0067	0.0114	0.07364	0.02154	0.00217	0.0004	0.22658	2.78E-07	1.40E-05	0.00056	0.00086
134	0.0002	0.0073	0.0125	0.08497	0.02374	0.00239	0.0004	0.23224	2.84E-07	1.42E-05	0.00057	0.00088
135	0.0002	0.0079	0.0135	0.09063	0.02552	0.00257	0.0004	0.23224	2.91E-07	1.46E-05	0.00058	0.00090
136	0.0002	0.0084	0.0144	0.09630	0.02716	0.00274	0.0004	0.24357	2.98E-07	1.49E-05	0.00060	0.00093
137	0.0002	0.0089	0.0152	0.10196	0.02880	0.00290	0.0004	0.24924	3.05E-07	1.53E-05	0.00061	0.00095
138	0.0001	0.0059	0.0101	0.06797	0.01908	0.00192	0.0004	0.22091	2.71E-07	1.36E-05	0.00054	0.00084
139	0.0002	0.0070	0.0119	0.07930	0.02261	0.00228	0.0004	0.22658	2.77E-07	1.39E-05	0.00056	0.00086

Receptor No.	Total - Cancer Risk (per million) DPM	Exh TOG	Evap TOG	PAHs	Naph	TOTAL	Construction Risk - Total (per million) DPM	Exh TOG	Evap TOG	TOTAL	Roads Risk -Total (per million) DPM	Exh TOG	Evap TOG	TOTAL	Project Generators Risk - Total (per million) DPM	Exh TOG	Evap TOG	TOTAL	Restaurants Risk - Total (per million) DPM	Exh TOG	TOTAL
1	0.701	0.011	0.001	0.001	0.002	0.716	0.276	0.000	0.000	0.276	0.040	0.011	0.001	0.052	0.385	0.000	0.000	0.385	0.001	0.002	0.0026
2	0.744	0.012	0.001	0.001	0.002	0.760	0.297	0.000	0.000	0.297	0.045	0.012	0.001	0.058	0.402	0.000	0.000	0.402	0.001	0.002	0.0029
3	0.816	0.013	0.001	0.001	0.002	0.834	0.340	0.000	0.000	0.340	0.045	0.013	0.001	0.060	0.430	0.000	0.000	0.430	0.001	0.002	0.0034
4	0.863	0.014	0.001	0.001	0.002	0.882	0.365	0.000	0.000	0.365	0.051	0.014	0.001	0.066	0.447	0.000	0.000	0.447	0.001	0.002	0.0037
5	0.893	0.014	0.001	0.002	0.002	0.913	0.384	0.000	0.000	0.384	0.051	0.014	0.001	0.066	0.459	0.000	0.000	0.459	0.002	0.002	0.0040
6	0.914	0.014	0.001	0.002	0.003	0.934	0.393	0.000	0.000	0.393	0.051	0.014	0.001	0.066	0.470	0.000	0.000	0.470	0.002	0.003	0.0042
7	0.944	0.014	0.001	0.002	0.003	0.964	0.406	0.000	0.000	0.406	0.051	0.014	0.001	0.066	0.487	0.000	0.000	0.487	0.002	0.003	0.0045
8	0.967	0.014	0.001	0.002	0.003	0.987	0.418	0.000	0.000	0.418	0.051	0.014	0.001	0.066	0.498	0.000	0.000	0.498	0.002	0.003	0.0046
9	0.988	0.014	0.001	0.002	0.003	1.008	0.427	0.000	0.000	0.427	0.051	0.014	0.001	0.066	0.510	0.000	0.000	0.510	0.002	0.003	0.0047
10	1.007	0.014	0.001	0.00188	0.003	1.027	0.435	0.000	0.000	0.435	0.051	0.014	0.001	0.066	0.521	0.000	0.000	0.521	0.002	0.003	0.0048
11	1.028	0.014	0.001	0.002	0.003	1.048	0.445	0.000	0.000	0.445	0.051	0.014	0.001	0.066	0.532	0.000	0.000	0.532	0.002	0.003	0.0048
12	0.985	0.013	0.001	0.002	0.003	1.004	0.418	0.000	0.000	0.418	0.051	0.013	0.001	0.065	0.515	0.000	0.000	0.515	0.002	0.003	0.0046
13	1.023	0.013	0.001	0.002	0.003	1.042	0.434	0.000	0.000	0.434	0.051	0.013	0.001	0.066	0.538	0.000	0.000	0.538	0.002	0.003	0.0047
14	1.070	0.014	0.001	0.002	0.003	1.090	0.464	0.000	0.000	0.464	0.051	0.014	0.001	0.066	0.555	0.000	0.000	0.555	0.002	0.003	0.0048
15	1.091	0.014	0.001	0.002	0.003	1.111	0.473	0.000	0.000	0.473	0.051	0.014	0.001	0.066	0.566	0.000	0.000	0.566	0.002	0.003	0.0048
16	1.113	0.014	0.001	0.002	0.003	1.133	0.485	0.000	0.000	0.485	0.051	0.014	0.001	0.066	0.578	0.000	0.000	0.578	0.002	0.003	0.0047
17	1.140	0.014	0.001	0.002	0.003	1.160	0.494	0.000	0.000	0.494	0.051	0.014	0.001	0.066	0.595	0.000	0.000	0.595	0.002	0.003	0.0047
18	1.159	0.014	0.001	0.002	0.003	1.179	0.502	0.000	0.000	0.502	0.051	0.014	0.001	0.066	0.606	0.000	0.000	0.606	0.002	0.003	0.0046
19	1.187	0.014	0.001	0.002	0.003	1.207	0.513	0.000	0.000	0.513	0.051	0.014	0.001	0.066	0.623	0.000	0.000	0.623	0.002	0.003	0.0045
20	0.859	0.013	0.001	0.001	0.002	0.878	0.361	0.000	0.000	0.361	0.051	0.013	0.001	0.066	0.447	0.000	0.000	0.447	0.001	0.002	0.0038
21	0.880	0.013	0.001	0.002	0.002	0.899	0.371	0.000	0.000	0.371	0.051	0.013	0.001	0.066	0.459	0.000	0.000	0.459	0.002	0.002	0.0040
22	0.901	0.013	0.001	0.002	0.003	0.920	0.380	0.000	0.000	0.380	0.051	0.013	0.001	0.066	0.470	0.000	0.000	0.470	0.002	0.003	0.0042
23	0.924	0.013	0.001	0.002	0.003	0.943	0.391	0.000	0.000	0.391	0.051	0.013	0.001	0.066	0.481	0.000	0.000	0.481	0.002	0.003	0.0044
24	0.943	0.013	0.001	0.002	0.003	0.962	0.399	0.000	0.000	0.399	0.051	0.013	0.001	0.066	0.493	0.000	0.000	0.493	0.002	0.003	0.0045
25	0.965	0.013	0.001	0.002	0.003	0.985	0.410	0.000	0.000	0.410	0.051	0.013	0.001	0.066	0.504	0.000	0.000	0.504	0.002	0.003	0.0046
26	1.045	0.013	0.001	0.002	0.003	1.065	0.445	0.000	0.000	0.445	0.051	0.013	0.001	0.066	0.549	0.000	0.000	0.549	0.002	0.003	0.0047
27	1.066	0.013	0.001	0.002	0.003	1.085	0.454	0.000	0.000	0.454	0.051	0.013	0.001	0.066	0.561	0.000	0.000	0.561	0.002	0.003	0.0046
28	1.093	0.013	0.001	0.002	0.003	1.112	0.464	0.000	0.000	0.464	0.051	0.013	0.001	0.066	0.578	0.000	0.000	0.578	0.002	0.003	0.0045
29	1.115	0.013	0.001	0.002	0.003	1.134	0.475	0.000	0.000	0.475	0.051	0.013	0.001	0.066	0.589	0.000	0.000	0.589	0.002	0.003	0.0045
30	0.777	0.012	0.001	0.001	0.002	0.793	0.318	0.000	0.000	0.318	0.045	0.012	0.001	0.059	0.414	0.000	0.000	0.414	0.001	0.002	0.0031
31	4.347	0.055	0.005	0.002	0.004	4.413	2.382	0.000	0.000	2.382	0.153	0.055	0.005	0.213	1.813	0.000	0.000	1.813	0.002	0.004	0.0062
32	4.300	0.051	0.005	0.002	0.004	4.362	2.352	0.000	0.000	2.352	0.142	0.051	0.005	0.197	1.807	0.000	0.000	1.807	0.002	0.004	0.0058
33	4.272	0.048	0.004	0.002	0.003	4.330	2.323	0.000	0.000	2.323	0.136	0.048	0.004	0.188	1.813	0.000	0.000	1.813	0.002	0.003	0.0056
34	4.211	0.044	0.004	0.002	0.003	4.265	2.274	0.000	0.000	2.274	0.125	0.044	0.004	0.173	1.813	0.000	0.000	1.813	0.002	0.003	0.0054
35	4.009	0.055	0.005	0.002	0.004	4.075	2.168	0.000	0.000	2.168	0.153	0.055	0.005	0.213	1.688	0.000	0.000	1.688	0.002	0.004	0.0062
36	3.989	0.050	0.005	0.002	0.004	4.050	2.148	0.000	0.000	2.148	0.142	0.050	0.005	0.197	1.699	0.000	0.000	1.699	0.002	0.004	0.0059
37	3.983	0.047	0.004	0.002	0.003	4.040	2.142	0.000	0.000	2.142	0.136	0.047	0.004	0.188	1.705	0.000	0.000	1.705	0.002	0.003	0.0056
38	0.696	0.010	0.001	0.001	0.001	0.710	0.265	0.000	0.000	0.265	0.040	0.010	0.001	0.051	0.391	0.000	0.000	0.391	0.001	0.001	0.0024
39	0.728	0.011	0.001	0.001	0.002	0.743	0.286	0.000	0.000	0.286	0.040	0.011	0.001	0.052	0.402	0.000	0.000	0.402	0.001	0.002	0.0027
40	0.809	0.012	0.001	0.001	0.002	0.825	0.327	0.000	0.000	0.327	0.045	0.012	0.001	0.059	0.436	0.000	0.000	0.436	0.001	0.002	0.0032
41	0.844	0.013	0.001	0.001	0.002	0.862	0.351	0.000	0.000	0.351	0.045	0.013	0.001	0.059	0.447	0.000	0.000	0.447	0.001	0.002	0.0035
42	0.880	0.013	0.001	0.001	0.002	0.898	0.370	0.000	0.000	0.370	0.045	0.013	0.001	0.060	0.464	0.000	0.000	0.464	0.001	0.002	0.0037
43	0.899	0.013	0.001	0.002	0.002	0.918	0.378	0.000	0.000	0.378	0.045	0.013	0.001	0.060	0.476	0.000	0.000	0.476	0.002	0.002	0.0039
44	0.924	0.013	0.001	0.002	0.003	0.942	0.391	0.000	0.000	0.391	0.045	0.013	0.001	0.060	0.487	0.000	0.000	0.487	0.002	0.003	0.0042
45	0.950	0.013	0.001	0.002	0.003	0.969	0.401	0.000	0.000	0.401	0.045	0.013	0.001	0.060	0.504	0.000	0.000	0.504	0.002	0.003	0.0043
46	0.971	0.013	0.001	0.002	0.003	0.990	0.410	0.000	0.000	0.410	0.045	0.013	0.001	0.060	0.515	0.000	0.000	0.515	0.002	0.003	0.0044
47	0.992	0.013	0.001	0.002	0.003	1.011	0.420	0.000	0.000	0.420	0.045	0.013	0.001	0.060	0.527	0.000	0.000	0.527	0.002	0.003	0.0045
48	1.011	0.013	0.001	0.002	0.003	1.030	0.427	0.000	0.000	0.427	0.045	0.013	0.001	0.060	0.538	0.000	0.000	0.538	0.002	0.003	0.0045
49	0.970	0.012	0.001	0.002	0.003	0.988	0.403	0.000	0.000	0.403	0.045	0.012	0.001	0.059	0.521	0.000	0.000	0.521	0.002	0.003	0.0043
50	1.002	0.012	0.001	0.002	0.003	1.020	0.418	0.000	0.000	0.418	0.045	0.012	0.001	0.059	0.538	0.000	0.000	0.538	0.002	0.003	0.0043
51	1.053	0.013	0.001	0.002	0.003	1.072	0.447	0.000	0.000	0.447	0.045	0.013	0.001	0.060	0.561	0.000	0.000	0.561	0.002	0.003	0.0045
52	1.074	0.013	0.001	0.002	0.003	1.093	0.456	0.000	0.000	0.456	0.045	0.013	0.001	0.060	0.572	0.000	0.000	0.572	0.002	0.003	0.0044
53	1.094	0.013	0.001	0.002	0.003	1.113	0.466	0.000	0.000	0.466	0.045	0.013	0.001	0.060	0.583	0.000	0.000	0.583	0.002	0.003	0.0044
54	1.123	0.013	0.001	0.002	0.003	1.142	0.477	0.000	0.000	0.477	0.045	0.013	0.001	0.060	0.600	0.000	0.000	0.600	0.002	0.003	0.0043
55	1.142	0.013	0.001	0.002	0.003	1.161	0.485	0.000	0.000	0.485	0.045	0.013	0.001	0.060	0.612	0.000	0.000	0.612	0.002	0.003	0.0043
56	1.163	0.013	0.001	0.002	0.003	1.182	0.494	0.000	0.000	0.494	0.045	0.013	0.001	0.060	0.623	0.000	0.000	0.623	0.002	0.003	0.0042
57	0.842	0.012	0.001	0.001	0.002	0.859	0.349	0.000	0.000	0.349	0.045	0.012	0.001	0.059	0.447	0.000	0.000	0.447	0.001	0.002	0.0035
58	0.860	0.012	0.001	0.001	0.002	0.877	0.356	0.000	0.000	0.356	0.045	0.012	0.001	0.059	0.459	0.000	0.000	0.459	0.001	0.002	0.0037
59	0.881	0.012	0.001	0.002	0.002	0.899	0.365	0.000	0.000	0.365	0.045	0.012	0.001	0.059	0.470	0.000	0.000	0.470	0.002	0.002	0.0039
60	0.909	0.012	0.001	0.002	0.002	0.927	0.376	0.000	0.000	0.376	0.045	0.012	0.001	0.059	0.487	0.000	0.000	0.487	0.002	0.002	0.0041
61	0.928	0.012	0.001	0.002	0.003	0.946	0.384	0.000	0.000	0.384	0.045	0.012	0.001	0.059	0.498	0.000	0.000	0.498	0.002	0.003	0.0042
62	0.950	0.012	0.001	0.002	0.003	0.968	0.395	0.000	0.000	0.395	0.045	0.012	0.001	0.059	0.510	0.000	0.000	0.510	0.002	0.003	0.0043
63	1.023	0.012	0.001	0.002	0.003	1.041	0.428	0.000	0.000	0.428	0.045	0.012	0.001	0.059	0.549	0.000	0.000	0.549	0.002	0.003	0.0043
64	1.049	0.013	0.001	0.002	0.003	1.067	0.438	0.000	0.000	0.438	0.045	0.013	0.001	0.059	0.566	0.000	0.000	0.566	0.002	0.003	0.0043
65	1.070	0.013	0.001	0.002	0.003	1.088	0.447	0.000	0.000	0.447	0.045	0.013	0.001	0.059	0.578	0.000	0.000	0.578	0.002	0.003	0.0042
66	1.099	0.013	0.001	0.002	0.003	1.117	0.458	0.000	0.000	0.458	0.045	0.013	0.001	0.059	0.595	0.000	0.000	0.595	0.002	0.003	0.0042
67	0.763	0.011	0.001	0.001	0.002	0.779	0.305	0.000	0.000	0.305	0.040	0.011	0.001	0.052	0.419	0.000	0.000	0.419	0.001	0.002	0.0029
68	4.248	0.051	0.005	0.002	0.004	4.310	2.305	0.000	0.000	2.305	0.142	0.051	0.005	0.198	1.801	0.000	0.000	1.801	0.002	0.004	0.0058
69	4.215	0.048	0.004	0.002	0.003	4.272	2.277	0.000	0.000	2.277	0.136	0.048	0.004	0.188	1.801	0.000	0.000	1.801	0.002	0.003	0.0055
70	4.175	0.045	0.004	0.002	0.003	4.229	2.249	0.000	0.000	2.249	0.125	0.045	0.004	0.174	1.801	0.000	0.000	1.801	0.002	0.003	0.0053
71	4.124	0.042	0.004	0.002	0.003	4.175	2.204	0.000	0.000	2.204	0.119	0.042	0.004	0.165	1.801	0.000	0.000	1.801	0.002	0.003	0.0051
72	3.918	0.051	0.005	0.002	0.004	3.980	2.100	0.000	0.000	2.100	0.142	0.051	0.005	0.198	1.677	0.000	0.000	1.677	0.002	0.004	0.0059
73	3.905	0.047	0.004	0.002	0.003	3.963	2.081	0.000	0.000	2.081	0.130	0.047	0.004	0.182	1.694	0.000	0.000	1.694	0.002	0.003	0.0056
74	3.896	0.045	0.004	0.002	0.003	3.950	2.078	0.000	0.000	2.078	0.125	0.045	0.004	0.174	1.694	0.000	0.000	1.694	0.002	0.003	0.0053
75	0.365	0.014	0.001	0.001	0.001	0.382	0.099	0.000	0.000	0.099	0.045	0.014	0.001	0.060	0.221	0.000	0.000	0.221	0.001	0.001	0.0015
76	0.384	0.016	0.002	0.001	0.001	0.404	0.101	0.000	0.000	0.101	0.057	0.016	0.002	0.075	0.227	0.000	0.000	0.227	0.001	0.001	0.0015
77	0.399	0.019	0.002	0.001	0.001	0.422	0.105	0.000	0.000	0.105	0.068	0.019	0.002	0.089	0.227	0.000	0.000	0.227	0.001	0.001	0.0016
78	0.416	0.021	0.002	0.001	0.001	0.441	0.110	0.000	0.000	0.110	0.074	0.021	0.002	0.097	0.232	0.000	0.000	0.232	0.001	0.001	0.0016
79	0.431	0.023	0.002	0.001	0.001	0.459	0.114	0.000	0.000	0.114	0.079	0.023	0.002	0.105	0.238	0.000	0.000	0.238	0.001	0.001	0.0016
80	0.443	0.025	0.003	0.001	0.001	0.472	0.120	0.000	0.000	0.120	0.085	0.025	0.003	0.113	0.238	0.000	0.000	0.238	0.001	0.001	0.0017
81	0.459	0.027	0.003	0.001	0.001	0.490	0.125	0.000	0.000	0.125	0.091	0.027	0.003	0.120	0.244	0.000	0.000	0.244	0.001	0.001	0.0017
82	0.377	0.017	0.002	0.001	0.001	0.397	0.099	0.000	0.000	0.099	0.057	0.017	0.002	0.075	0.221	0.000	0.000	0.221	0.001	0.001	0.0015
83	0.398	0.020	0.002	0.001	0.001	0.421	0.103	0.000	0.000	0.103	0.068	0.020	0.002	0.090	0.227	0.000	0.000	0.227	0.001	0.001	0.0016
84	0.420	0.023	0.002	0.001	0.001	0.447	0.108	0.000	0.000	0.108	0.079	0.023	0.002	0.105	0.232	0.000	0.000	0.232	0.001	0.001	0.0016
85	0.428	0.026	0.003	0.001	0.001	0.458	0.110	0.000	0.000	0.110	0.085	0.026	0.003	0.113	0.232	0.000	0.000	0.232	0.001	0.001	0.0016
86	0.450	0.028	0.003	0.001	0.001	0.482	0.116	0.000	0.000	0.116	0.096	0.028	0.003	0.127	0.238	0.000	0.000	0.238	0.001	0.001	0.0017
87	0.465	0.030	0.003	0.001	0.001	0.500	0.120	0.000	0.000	0.120	0.102	0.030	0.003	0.135	0.244	0.000	0.000	0.244	0.001	0.001	0.0017
88	0.482	0.031	0.003	0.001	0.001	0.519	0.125	0.000	0.000	0.125	0.108	0.031	0.003	0.142	0.249	0.000	0.000	0.249	0.001	0.001	0.0018
89	0.397	0.021	0.002	0.001	0.001	0.422	0.103	0.000	0.000	0.103	0.068	0.021	0.002	0.091	0.227	0.000	0.000	0.227	0.001	0.001	0.0016
90	0.422	0.025	0.003	0.001	0.001	0.452	0.105	0.000	0.000	0.105	0.085	0.025	0.003	0.113	0.232	0.000	0.000	0.232	0.001	0.001	0.0016
91	0.437	0.029	0.003	0.001	0.001	0.470	0.108	0.000	0.000	0.108	0.096	0.029	0.003	0.128	0.232	0.000	0.000	0.232	0.001	0.001	0.0016
92	0.454	0.032	0.003	0.001	0.001	0.490	0.114	0.000	0.000	0.114	0.102	0.032	0.003	0.137	0.238	0.000	0.000	0.238	0.001	0.001	0.0017
93	0.469	0.034	0.003	0.001	0.001	0.508	0.118	0.000	0.000	0.118	0.113	0.034	0.003	0.151	0.238	0.000	0.000	0.238	0.001	0.001	0.0017
94	0.486	0.036	0.004	0.001	0.001	0.527	0.123	0.000	0.000	0.123	0.119	0.036	0.004	0.159	0.244	0.000	0.000	0.244	0.001	0.001	0.0018
95	0.503	0.037	0.004	0.001	0.001	0.546	0.129	0.000	0.000	0.129	0.125	0.037	0.004	0.166	0.249	0.000	0.000	0.249	0.001	0.001	0.0018
96	0.426	0.028	0.003	0.001	0.001	0.458	0.103	0.000	0.000	0.103	0.091	0.028	0.003	0.121	0.232	0.000	0.000	0.232	0.001	0.001	0.0016
97	0.441	0.033	0.003	0.001	0.001	0.479	0.107	0.000	0.000	0.107	0.102	0.033	0.003	0.138	0.232	0.000	0.000	0.232	0.001	0.001	0.0016
98	0.469	0.037	0.004	0.001	0.001	0.511	0.112	0.000	0.000	0.112	0.119	0.037	0.004	0.159	0.238	0.000	0.000	0.238	0.001	0.001	0.0017
99	0.482	0.040	0.004	0.001	0.001	0.528	0.114	0.000	0.000	0.114	0.125	0.040	0.004	0.168	0.244	0.000	0.000	0.244	0.001	0.001	0.0017
100	0.499	0.042	0.004	0.001	0.001	0.547	0.120	0.000	0.000	0.120	0.136	0.042	0.004	0.182	0.244	0.000	0.000	0.244	0.001	0.001	0.0017
101	0.516	0.044	0.004	0.001	0.001	0.567	0.126	0.000	0.000	0.126	0.142	0.044	0.004	0.190	0.249	0.000	0.000	0.249	0.001	0.001	0.0018
102	0.533	0.046	0.005	0.001	0.001	0.585	0.131	0.000	0.000	0.131	0.147	0.046	0.005	0.198	0.255	0.000	0.000	0.255	0.001	0.001	0.0018
103	0.452	0.038	0.004	0.001	0.001	0.496	0.107	0.000	0.000	0.107	0.113	0.038	0.004	0.155	0.232	0.000	0.000	0.232	0.001	0.001	0.0016
104	0.477	0.044	0.004	0.001	0.001	0.527	0.109	0.000	0.000	0.109	0.130	0.044	0.004	0.178	0.238	0.000	0.000	0.238	0.001	0.001	0.0016
105	0.497	0.048	0.005	0.001	0.001	0.552	0.112	0.000	0.000	0.112	0.142	0.048	0.005	0.194	0.244	0.000	0.000	0.244	0.001	0.001	0.0017
106	0.515	0.051	0.005	0.001	0.001	0.572	0.118	0.000	0.000	0.118	0.153	0.051	0.005	0.209	0.244	0.000	0.000	0.244	0.001	0.001	0.0017
107	0.530	0.053	0.005	0.001	0.001	0.590	0.122	0.000	0.000	0.122	0.159	0.053	0.005	0.217	0.249	0.000	0.000	0.249	0.001	0.001	0.0018
108	0.552	0.055	0.006	0.001	0.001	0.615	0.128	0.000	0.000	0.128	0.170	0.055	0.006	0.231	0.255	0.000	0.000	0.255	0.001	0.001	0.0018
109	0.571	0.057	0.006	0.001	0.001	0.636	0.135	0.000	0.000	0.135	0.176	0.057	0.006	0.238	0.261	0.000	0.000	0.261	0.001	0.001	0.0019
110	0.500	0.054	0.005	0.001	0.001	0.561	0.109	0.000	0.000	0.109	0.153	0.054	0.005	0.212	0.238	0.000	0.000	0.238	0.001	0.001	0.0016
111	0.526	0.060	0.006	0.001	0.001	0.593	0.112	0.000	0.000	0.112	0.170	0.060	0.006	0.236	0.244	0.000	0.000	0.244	0.001	0.001	0.0017
112	0.547	0.064	0.006	0.001	0.001	0.619	0.117	0.000	0.000	0.117	0.181	0.064	0.006	0.251	0.249	0.000	0.000	0.249	0.001	0.001	0.0017
113	0.558	0.066	0.007	0.001	0.001	0.633	0.122	0.000	0.000	0.122	0.187	0.066	0.007	0.260	0.249	0.000	0.000	0.249	0.001	0.001	0.0018
114	0.577	0.069	0.007	0.001	0.001	0.655	0.124	0.000	0.000	0.124	0.198	0.069	0.007	0.274	0.255	0.000	0.000	0.255	0.001	0.001	0.0018
115	0.596	0.072	0.007	0.001	0.001	0.676	0.131	0.000	0.000	0.131	0.204	0.072	0.007	0.283	0.261	0.000	0.000	0.261	0.001	0.001	0.0019
116	0.613	0.074	0.007	0.001	0.001	0.696	0.137	0.000	0.000	0.137	0.210	0.074	0.007	0.291	0.266	0.000	0.000	0.266	0.001	0.001	0.0020
117	0.350	0.011	0.001	0.001	0.001	0.364	0.095	0.000	0.000	0.095	0.040	0.011	0.001	0.052	0.215	0.000	0.000	0.215	0.001	0.001	0.0013
118	0.360	0.013	0.001	0.001	0.001	0.376	0.099	0.000	0.000	0.099	0.045	0.013	0.001	0.060	0.215	0.000	0.000	0.215	0.001	0.001	0.0013
119	0.379	0.015	0.002	0.001	0.001	0.397	0.101	0.000	0.000	0.101	0.057	0.015	0.002	0.074	0.221	0.000	0.000	0.221	0.001	0.001	0.0014
120	0.394	0.017	0.002	0.001	0.001	0.414	0.105	0.000	0.000	0.105	0.062	0.017	0.002	0.081	0.227	0.000	0.000	0.227	0.001	0.001	0.0014
121	0.405	0.019	0.002	0.001	0.001	0.427	0.110	0.000	0.000	0.110	0.068	0.019	0.002	0.089	0.227	0.000	0.000	0.227	0.001	0.001	0.0014
122	0.421	0.021	0.002	0.001	0.001	0.446	0.115	0.000	0.000	0.115	0.074	0.021	0.002	0.096	0.232	0.000	0.000	0.232	0.001	0.001	0.0015
123	0.431	0.022	0.002	0.001	0.001	0.456	0.119	0.000	0.000	0.119	0.074	0.022	0.002	0.098	0.238	0.000	0.000	0.238	0.001	0.001	0.0015
124	0.356	0.013	0.001	0.001	0.001	0.372	0.096	0.000	0.000	0.096	0.045	0.013	0.001	0.060	0.215	0.000	0.000	0.215	0.001	0.001	0.0013
125	0.377	0.016	0.002	0.001	0.001	0.396	0.099	0.000	0.000	0.099	0.057	0.016	0.002	0.074	0.221	0.000	0.000	0.221	0.001	0.001	0.0014
126	0.392	0.018	0.002	0.001	0.001	0.413	0.103	0.000	0.000	0.103	0.062	0.018	0.002	0.082	0.227	0.000	0.000	0.227	0.001	0.001	0.0014
127	0.407	0.020	0.002	0.001	0.001	0.431	0.107	0.000	0.000	0.107	0.074	0.020	0.002	0.096	0.227	0.000	0.000	0.227	0.001	0.001	0.0014
128	0.422	0.022	0.002	0.001	0.001	0.447	0.110	0.000	0.000	0.110	0.079	0.022	0.002	0.104	0.232	0.000	0.000	0.232	0.001	0.001	0.0015
129	0.439	0.024	0.002	0.001	0.001	0.466	0.116	0.000	0.000	0.116	0.085	0.024	0.002	0.111	0.238	0.000	0.000	0.238	0.001	0.001	0.0015
130	0.450	0.025	0.003	0.001	0.001	0.479	0.121	0.000	0.000	0.121	0.085	0.025	0.003	0.112	0.244	0.000	0.000	0.244	0.001	0.001	0.0015
131	0.377	0.016	0.002	0.001	0.001	0.395	0.099	0.000	0.000	0.099	0.057	0.016	0.002	0.074	0.221	0.000	0.000	0.221	0.001	0.001	0.0014
132	0.396	0.019	0.002	0.001	0.001	0.418	0.101	0.000	0.000	0.101	0.068	0.019	0.002	0.089	0.227	0.000	0.000	0.227	0.001	0.001	0.0014
133	0.405	0.022	0.002	0.001	0.001	0.430	0.105	0.000	0.000	0.105	0.074	0.022	0.002	0.097	0.227	0.000	0.000	0.227	0.001	0.001	0.0014
134	0.426	0.024	0.002	0.001	0.001	0.453	0.108	0.000	0.000	0.108	0.085	0.024	0.002	0.111	0.232	0.000	0.000	0.232	0.001	0.001	0.0015
135	0.437	0.026	0.003	0.001	0.001	0.466	0.114	0.000	0.000	0.114	0.091	0.026	0.003	0.119	0.232	0.000	0.000	0.232	0.001	0.001	0.0015
136	0.448	0.028	0.003	0.001	0.001	0.480	0.119	0.000	0.000	0.119	0.096	0.028	0.003	0.127	0.244	0.000	0.000	0.244	0.001	0.001	0.0015
137	0.458	0.029	0.003	0.001	0.001	0.492	0.124	0.000	0.000	0.124	0.102	0.029	0.003	0.134	0.244	0.000	0.000	0.244	0.001	0.001	0.0015
138	0.394	0.019	0.002	0.001	0.001	0.416	0.099	0.000	0.000	0.099	0.068	0.019	0.002	0.089	0.221	0.000	0.000	0.221	0.001	0.001	0.0014
139	0.409	0.023	0.002	0.001	0.001	0.435	0.103	0.000	0.000	0.103	0.079	0.023	0.002	0.104	0.227	0.000	0.000	0.227	0.001	0.001	0.0014

Receptor No.	Receptor Coordinates UTM-X (m)	UTM-Y (m)	2023 Construct DPM	2024 Construct DPM	2025 Construct DPM	2026 Construct DPM	2027 Construct DPM	2028 Construct DPM	2029 Construct DPM	2030 Construct DPM	2031 Construct DPM	2023 Construct Risk	2024 Construct Risk	2025 Construct Risk	2026 Construct Risk	2027 Construct Risk	2028 Construct Risk	2029 Construct Risk	2030 Construct Risk	2031 Construct Risk
140	583511.93	4139227.75	0.00055	0.00020	0.00026	0.00030	0.00022	0.00014	0.00008	0.00002	0.00001	0.00000	0.00272	0.04270	0.04927	0.00569	0.00362	0.00207	0.00052	0.00026
141	583521.54	4139224.97	0.00058	0.00021	0.00028	0.00030	0.00023	0.00014	0.00008	0.00002	0.00001	0.00000	0.00286	0.04599	0.04927	0.00595	0.00362	0.00207	0.00052	0.00026
142	583531.14	4139222.18	0.00061	0.00022	0.00029	0.00031	0.00023	0.00015	0.00008	0.00002	0.00001	0.00000	0.00299	0.04763	0.05092	0.00595	0.00388	0.00207	0.00052	0.00026
143	583540.74	4139219.39	0.00064	0.00023	0.00031	0.00032	0.00024	0.00015	0.00009	0.00002	0.00001	0.00000	0.00313	0.05092	0.05256	0.00621	0.00388	0.00233	0.00052	0.00026
144	583550.35	4139216.60	0.00067	0.00025	0.00033	0.00033	0.00025	0.00016	0.00009	0.00002	0.00001	0.00000	0.00340	0.05420	0.05420	0.00646	0.00414	0.00233	0.00052	0.00026
145	583495.51	4139242.93	0.00053	0.00019	0.00025	0.00029	0.00021	0.00013	0.00008	0.00002	0.00001	0.00000	0.00258	0.04106	0.04763	0.00543	0.00336	0.00207	0.00052	0.00026
146	583505.12	4139240.15	0.00055	0.00020	0.00026	0.00029	0.00022	0.00014	0.00008	0.00002	0.00001	0.00000	0.00272	0.04270	0.04763	0.00569	0.00362	0.00207	0.00052	0.00026
147	583514.72	4139237.36	0.00058	0.00021	0.00027	0.00030	0.00022	0.00014	0.00008	0.00002	0.00001	0.00000	0.00286	0.04435	0.04927	0.00569	0.00362	0.00207	0.00052	0.00026
148	583524.32	4139234.57	0.00060	0.00022	0.00028	0.00031	0.00023	0.00014	0.00008	0.00002	0.00001	0.00000	0.00299	0.04599	0.05092	0.00595	0.00362	0.00207	0.00052	0.00026
149	583533.93	4139231.78	0.00063	0.00023	0.00030	0.00032	0.00024	0.00015	0.00009	0.00002	0.00001	0.00000	0.00313	0.04927	0.05256	0.00621	0.00388	0.00233	0.00052	0.00026
150	583543.53	4139228.99	0.00067	0.00024	0.00032	0.00033	0.00024	0.00015	0.00009	0.00003	0.00001	0.00000	0.00326	0.05256	0.05420	0.00621	0.00388	0.00233	0.00078	0.00026
151	583553.13	4139226.20	0.00070	0.00026	0.00034	0.00034	0.00025	0.00016	0.00009	0.00003	0.00001	0.00000	0.00354	0.05584	0.05584	0.00646	0.00414	0.00233	0.00078	0.00026
152	583498.30	4139252.54	0.00055	0.00020	0.00025	0.00029	0.00022	0.00014	0.00008	0.00002	0.00001	0.00000	0.00272	0.04106	0.04763	0.00569	0.00362	0.00207	0.00052	0.00026
153	583507.91	4139249.75	0.00058	0.00021	0.00027	0.00030	0.00022	0.00014	0.00008	0.00002	0.00001	0.00000	0.00286	0.04435	0.04927	0.00569	0.00362	0.00207	0.00052	0.00026
154	583517.51	4139246.96	0.00060	0.00022	0.00028	0.00031	0.00023	0.00014	0.00008	0.00002	0.00001	0.00000	0.00299	0.04599	0.05092	0.00595	0.00362	0.00207	0.00052	0.00026
155	583527.11	4139244.17	0.00063	0.00023	0.00029	0.00032	0.00023	0.00015	0.00009	0.00002	0.00001	0.00000	0.00313	0.04763	0.05256	0.00595	0.00388	0.00233	0.00052	0.00026
156	583536.72	4139241.38	0.00066	0.00024	0.00031	0.00032	0.00024	0.00015	0.00009	0.00003	0.00001	0.00000	0.00326	0.05092	0.05256	0.00621	0.00388	0.00233	0.00078	0.00026
157	583546.32	4139238.60	0.00070	0.00026	0.00033	0.00033	0.00025	0.00016	0.00009	0.00003	0.00001	0.00000	0.00354	0.05420	0.05420	0.00646	0.00414	0.00233	0.00078	0.00026
158	583555.92	4139235.81	0.00074	0.00027	0.00035	0.00035	0.00026	0.00016	0.00009	0.00003	0.00001	0.00000	0.00367	0.05749	0.05749	0.00672	0.00414	0.00233	0.00078	0.00026
159	583979.57	4139386.45	0.00480	0.00507	0.03918	0.01887	0.01363	0.01159	0.00579	0.00025	0.00006	0.00000	0.06895	6.43518	3.09933	0.35244	0.29969	0.14972	0.00646	0.00155
160	583988.23	4139383.99	0.00471	0.00464	0.03454	0.01716	0.01240	0.01046	0.00527	0.00027	0.00007	0.00000	0.06310	5.67308	2.81847	0.32063	0.27047	0.13627	0.00698	0.00181
161	583996.88	4139381.52	0.00463	0.00430	0.03106	0.01598	0.01154	0.00966	0.00491	0.00030	0.00008	0.00000	0.05848	5.10150	2.62466	0.29840	0.24978	0.12696	0.00776	0.00207
162	584005.54	4139379.06	0.00455	0.00406	0.02862	0.01530	0.01104	0.00916	0.00471	0.00033	0.00009	0.00000	0.05521	4.70074	2.51297	0.28547	0.23686	0.12179	0.00853	0.00233
163	584014.20	4139376.60	0.00447	0.00389	0.02708	0.01507	0.01086	0.00894	0.00464	0.00037	0.00010	0.00000	0.05290	4.44780	2.47520	0.28081	0.23117	0.11998	0.00957	0.00259
164	584022.85	4139374.14	0.00440	0.00379	0.02621	0.01522	0.01095	0.00895	0.00470	0.00042	0.00011	0.00000	0.05154	4.30490	2.49983	0.28314	0.23142	0.12153	0.01086	0.00284
165	584031.51	4139371.67	0.00433	0.00373	0.02583	0.01572	0.01127	0.00914	0.00486	0.00048	0.00012	0.00000	0.05073	4.24249	2.58196	0.29141	0.23634	0.12567	0.01241	0.00310
166	583982.03	4139395.11	0.00429	0.00476	0.03773	0.01845	0.01336	0.01131	0.00567	0.00026	0.00007	0.00000	0.06473	6.19702	3.03035	0.34546	0.29245	0.14661	0.00672	0.00181
167	583990.69	4139392.64	0.00423	0.00437	0.03351	0.01694	0.01227	0.01029	0.00521	0.00028	0.00007	0.00000	0.05943	5.50390	2.78234	0.31727	0.26607	0.13472	0.00724	0.00181
168	583999.35	4139390.18	0.00418	0.00409	0.03048	0.01598	0.01157	0.00962	0.00492	0.00031	0.00008	0.00000	0.05562	5.00624	2.62466	0.29917	0.24875	0.12722	0.00802	0.00207
169	584008.00	4139387.72	0.00413	0.00390	0.02854	0.01554	0.01124	0.00927	0.00479	0.00035	0.00009	0.00000	0.05304	4.68760	2.55239	0.29064	0.23970	0.12386	0.00905	0.00233
170	584016.66	4139385.26	0.00409	0.00379	0.02746	0.01554	0.01124	0.00920	0.00480	0.00039	0.00010	0.00000	0.05154	4.51021	2.55239	0.29064	0.23789	0.12412	0.01008	0.00259
171	584025.32	4139382.79	0.00405	0.00373	0.02704	0.01593	0.01149	0.00934	0.00492	0.00044	0.00011	0.00000	0.05073	4.44123	2.61645	0.29710	0.24151	0.12722	0.01138	0.00284
172	584033.97	4139380.33	0.00401	0.00372	0.02703	0.01665	0.01197	0.00966	0.00515	0.00051	0.00013	0.00000	0.05059	4.43958	2.73471	0.30951	0.24978	0.13317	0.01319	0.00336
173	583984.50	4139403.76	0.00387	0.00447	0.03614	0.01800	0.01306	0.01099	0.00554	0.00027	0.00007	0.00000	0.06079	5.93587	2.95644	0.33770	0.28417	0.14325	0.00698	0.00181
174	583993.15	4139401.30	0.00384	0.00414	0.03247	0.01675	0.01215	0.01013	0.00516	0.00030	0.00008	0.00000	0.05630	5.33309	2.75113	0.31417	0.26194	0.13342	0.00776	0.00207
175	583986.96	4139412.42	0.00352	0.00420	0.03449	0.01755	0.01276	0.01066	0.00541	0.00028	0.00007	0.00000	0.05712	5.66486	2.88253	0.32994	0.27564	0.13989	0.00724	0.00181
176	583995.62	4139409.96	0.00351	0.00394	0.03151	0.01663	0.01209	0.01001	0.00512	0.00031	0.00008	0.00000	0.05358	5.17541	2.73142	0.31262	0.25883	0.13239	0.00802	0.00207
177	583989.42	4139421.08	0.00323	0.00395	0.03283	0.01713	0.01248	0.01034	0.00528	0.00030	0.00007	0.00000	0.05372	5.39222	2.81354	0.32270	0.26737	0.13653	0.00776	0.00181
178	583998.08	4139418.61	0.00323	0.00377	0.03074	0.01663	0.01211	0.00995	0.00513	0.00032	0.00008	0.00000	0.05127	5.04894	2.73142	0.31313	0.25728	0.13265	0.00827	0.00207
179	583991.88	4139429.73	0.00299	0.00373	0.03128	0.01681	0.01226	0.01007	0.00518	0.00031	0.00008	0.00000	0.05073	5.13763	2.76098	0.31701	0.26039	0.13394	0.00802	0.00207
180	584000.54	4139427.27	0.00299	0.00365	0.03034	0.01683	0.01227	0.01000	0.00519	0.00034	0.00008	0.00000	0.04964	4.98324	2.76427	0.31727	0.25858	0.13420	0.00879	0.00207
181	583994.35	4139438.39	0.00278	0.00355	0.03002	0.01664	0.01214	0.00988	0.00513	0.00033	0.00008	0.00000	0.04828	4.93068	2.73306	0.31391	0.25547	0.13265	0.00853	0.00207
182	584003.00	4139435.93	0.00279	0.00359	0.03051	0.01731	0.01263	0.01022	0.00534	0.00036	0.00009	0.00000	0.04882	5.01116	2.84311	0.32658	0.26426	0.13808	0.00931	0.00233
183	583996.81	4139447.05	0.00260	0.00342	0.02928	0.01671	0.01221	0.00984	0.00515	0.00035	0.00008	0.00000	0.04651	4.80914	2.74456	0.31572	0.25444	0.13317	0.00905	0.00207
184	584005.47	4139444.58	0.00261	0.00361	0.03149	0.01814	0.01326	0.01068	0.00561	0.00038	0.00009	0.00000	0.04909	5.17212	2.97943	0.34287	0.27616	0.14506	0.00983	0.00233
185	583999.27	4139455.70	0.00244	0.00336	0.02929	0.01711	0.01251	0.01002	0.00528	0.00037	0.00009	0.00000	0.04569	4.81078	2.81026	0.32348	0.25909	0.13653	0.00957	0.00233
186	584007.93	4139453.24	0.00245	0.00372	0.03338	0.01938	0.01417	0.01138	0.00599	0.00040	0.00010	0.00000	0.05059	5.48255	3.18310	0.36640	0.29426	0.15489	0.01034	0.00259
187	584016.59	4139450.78	0.00246	0.00411	0.03787	0.02192	0.01602	0.01290	0.00679	0.00045	0.00011	0.00000	0.05589	6.22002	3.60028	0.41424	0.33356	0.17557	0.01164	0.00284
188	584025.24	4139448.31	0.00247	0.00449	0.04212	0.02450	0.01789	0.01441	0.00760	0.00050	0.00012	0.00000	0.06106	6.91807	4.02404	0.46259	0.37261	0.19652	0.01293	0.00310
189	584033.90	4139445.85	0.00248	0.00482	0.04589	0.02705	0.01973	0.01586	0.00841	0.00057	0.00013	0.00000	0.06555	7.53728	4.44287	0.51017	0.41010	0.21746	0.01474	0.00336
190	584042.55	4139443.39	0.00250	0.00510	0.04909	0.02958	0.02152	0.01724	0.00920	0.00065	0.00015	0.00000	0.06936	8.06286	4.85841	0.55645	0.44578	0.23789	0.01681	0.00388
191	583979.57	4139386.45	0.00429	0.00445	0.03433	0.01666	0.01199	0.01017	0.00508	0.00023	0.00006	0.00000	0.06052	5.63858	2.73635	0.31003	0.26297	0.13136	0.00595	0.00155
192	583988.23	4139383.99	0.00424	0.00405	0.02992	0.01501	0.01080	0.00909	0.00458	0.00025	0.00006	0.00000	0.05508	4.91426	2.46534	0.27926	0.23504	0.11843	0.00646	0.00155
193	583996.88	4139381.52	0.00419	0.00376	0.02690	0.01397	0.01006	0.00839	0.00427	0.00027	0.00007	0.00000	0.05113	4.41823	2.29452	0.26013	0.21694	0.11041	0.00698	0.00181
194	584005.54	4139379.06	0.00414	0.00357	0.02488	0.01341	0.00966	0.00799	0.00411	0.00030	0.00008	0.00000	0.04855	4.08645	2.20255	0.24978	0.20660	0.10627	0.00776	0.00207
195	584014.20	4139376.60	0.00409	0.00344	0.02366	0.01324	0.00953	0.00782	0.00406	0.00034	0.00009	0.00000	0.04678	3.88607	2.17462	0.24642	0.20221	0.10498	0.00879	0.00233
196	584022.85	4139374.14	0.00405	0.00337	0.02302	0.01340	0.00963	0.00785	0.00412	0.00038	0.00010	0.00000	0.04583	3.78096	2.20090	0.24901	0.20298	0.10653	0.00983	0.00259
197	584031.51	4139371.67	0.00401	0.00333	0.02279	0.01384	0.00993	0.00804	0.00426	0.00043	0.00011	0.00000	0.04529	3.74318	2.27317	0.25677	0.20789	0.11015	0.01112	0.00284
198	584040.17	4139369.21	0.00397	0.00332	0.02284	0.01455	0.01040	0.00836	0.00449	0.00049	0.00013	0.00000	0.04515	3.75139	2.38979	0.26892	0.21617	0.11610	0.01267	0.00336
199	584048.82	4139366.75	0.00394	0.00332	0.02304	0.01555	0.01104	0.00882	0.00481	0.00057	0.00015	0.00000	0.04515	3.78424	2.55403	0.28547	0.22806	0.12437	0.01474	0.00388
200	583982.03	4139395.11	0.00386	0.00418	0.03299	0.01626	0.01173	0.00990	0.00497	0.00024	0.00006	0.00000	0.05685	5.41849	2.67065	0.30331	0.25599	0.12851	0.00621	0.00155
201	583990.69	4139392.64	0.00384	0.00382	0.02893	0.01477	0.01066	0.00891	0.00452	0.00026	0.00007	0.00000	0.05195	4.75165	2.42592	0.27564	0.23039	0.11688	0.00672	0.00181
202	583999.35	4139390.18	0.00381	0.00358	0.02629	0.01392	0.01006	0.00833	0.00426	0.00028	0.00007	0.00000	0.04869	4.31804	2.28631	0.26013	0.21539	0.11015	0.00724	0.00181
203	584008.00	4139387.72	0.00379	0.00343	0.02471	0.01357	0.00980	0.00805	0.00416	0.00031	0.00008	0.00000	0.04665	4.05853	2.22883	0.25340	0.20815	0.10757	0.00802	0.00207
204	584016.66	4139385.26	0.00377	0.00335	0.02390	0.01361	0.00983	0.00802	0.00418	0.00035	0.00009	0.00000	0.04556	3.92549	2.23540	0.25418	0.20738	0.10808	0.00905	0.00233
205	584025.32	4139382.79	0.00375	0.00332	0.02365	0.01397	0.01008	0.00817	0.00430	0.00040	0.00010	0.00000	0.04515	3.88443	2.29452	0.26064	0.21126	0.11119	0.01034	0.00259
206	584033.97	4139380.33	0.00373	0.00332	0.02376	0.01460	0.01051	0.00846	0.00450	0.00045	0.00012	0.00000	0.04515	3.90250	2.39800	0.27176	0.21875	0.11636	0.01164	0.00310
207	584042.63	4139377.87	0.00371	0.00334	0.02409	0.01549	0.01111	0.00889	0.00479	0.00052	0.00013	0.00000	0.04542	3.95670	2.54418	0.28728	0.22987	0.12386	0.01345	0.00336
208	584051.29	4139375.41	0.00370	0.00336	0.02451	0.01667	0.01188	0.00944	0.00516	0.00060	0.00015	0.00000	0.04569	4.02568	2.73799	0.30719	0.24410	0.13342	0.01551	0.00388
209	583984.50	4139403.76	0.00351	0.00393	0.03153	0.01582	0.01145	0.00961	0.00485	0.00025	0.00006	0.00000	0.05345	5.17869	2.59838	0.29607	0.24849	0.12541	0.00646	0.00155
210	583993.15	4139401.30	0.00350	0.00361	0.02792	0.01456	0.01054	0.00875	0.00446	0.00027	0.00007	0.00000	0.04909	4.58576	2.39143	0.27254	0.22625	0.11532	0.00698	0.00181
211	584045.09	4139386.52	0.00347	0.00339	0.02568	0.01668	0.01200	0.00956	0.00516	0.00055	0.00014	0.00000	0.04610	4.21785	2.73963	0.31029	0.24720	0.13342	0.01422	0.00362
212	584053.75	4139384.06	0.00347	0.00344	0.02631	0.01808	0.01293	0.01022	0.00560	0.00064	0.00016	0.00000	0.04678	4.32133	2.96958	0.33434	0.26426	0.14480	0.01655	0.00414
213	583986.96	4139412.42	0.00321	0.00369	0.03002	0.01540	0.01117	0.00930	0.00472	0.00026	0.00007	0.00000	0.05018	4.93068	2.52940	0.28883	0.24048	0.12205	0.00672	0.00181
214	583995.62	4139409.96	0.00322	0.00343	0.02698	0.01440	0.01045	0.00861	0.00442	0.00028	0.00007	0.00000	0.04665	4.43137	2.36515	0.27021	0.22263	0.11429	0.00724	0.00181
215	584047.55	4139395.18	0.00326	0.00349	0.02767	0.01819	0.01311	0.01039	0.00563	0.00058	0.00014	0.00000	0.04746	4.54470	2.98765	0.33899	0.26866	0.14558	0.01500	0.00362
216	584056.21	4139392.72	0.00326	0.00356	0.02850	0.01986	0.01422	0.01118	0.00616	0.00068	0.00017	0.00000	0.04841	4.68103	3.26194	0.36769	0.28909	0.15928	0.01758	0.00440
217	583989.42	4139421.08	0.00297	0.00347	0.02851	0.01502	0.01091	0.00901	0.00461	0.00027	0.00007	0.00000	0.04719	4.68267	2.46698	0.28211	0.23298	0.11920	0.00698	0.00181
218	583998.08	4139418.61	0.00298	0.00327	0.02620	0.01436	0.01044	0.00853	0.00441	0.00029	0.00007	0.00000	0.04447	4.30326	2.35858	0.26995	0.22056	0.11403	0.00750	0.00181
219	584050.02	4139403.84	0.00306	0.00363	0.03013	0.02005	0.01446	0.01140	0.00622	0.00061	0.00015	0.00000	0.04937	4.94875	3.29314	0.37390	0.29478	0.16083	0.01577	0.00388
220	584058.67	4139401.38	0.00307	0.00372	0.03112	0.02206	0.01579	0.01235	0.00686	0.00072	0.00018	0.00000	0.05059	5.11135	3.62328	0.40829	0.31934	0.17738	0.01862	0.00465
221	583991.88	4139429.73	0.00276	0.00327	0.02709	0.01471	0.01071	0.00875	0.00451	0.00028	0.00007	0.00000	0.04447	4.44944	2.41607	0.27693	0.22625	0.11662	0.00724	0.00181
222	584000.54	4139427.27	0.00277	0.00316	0.02571	0.01448	0.01055	0.00854	0.00445	0.00031	0.00008	0.00000	0.04297	4.22278	2.37829	0.27280	0.22082	0.11507	0.00802	0.00207
223	584052.48	4139412.49	0.00287	0.00383	0.03311	0.02224	0.01604	0.01260	0.00690	0.00065	0.00016	0.00000	0.05209	5.43820	3.65284	0.41475	0.32580	0.17842	0.01681	0.00414
224	584061.14	4139410.03	0.00288	0.00393	0.03424	0.02456	0.01757	0.01368	0.00764	0.00077	0.00019	0.00000	0.05345	5.62380	4.03390	0.45432	0.35373	0.19755	0.01991	0.00491
225	583994.35	4139438.39	0.00258	0.00311	0.02593	0.01454	0.01060	0.00857	0.00446	0.00030	0.00007	0.00000	0.04229	4.25891	2.38815	0.27409	0.22160	0.11532	0.00776	0.00181
226	584003.00	4139435.93	0.00259	0.00309	0.02574	0.01486	0.01084	0.00870	0.00456	0.00033	0.00008	0.00000	0.04202	4.22771	2.44070	0.28030	0.22496	0.11791	0.00853	0.00207
227	584054.94	4139421.15	0.00270	0.00408	0.03671	0.02470	0.01782	0.01397	0.00767	0.00069	0.00016	0.00000	0.05549	6.02949	4.05689	0.46078	0.36123	0.19833	0.01784	0.00414
228	584063.60	4139418.69	0.00271	0.00419	0.03793	0.02721	0.01947	0.01515	0.00847	0.00082	0.00020	0.00000	0.05698	6.22987	4.46915	0.50345	0.39174	0.21901	0.02120	0.00517
229	583996.81	4139447.05	0.00242	0.00299	0.02531	0.01462	0.01067	0.00855	0.00449	0.00031	0.00008	0.00000	0.04066	4.15708	2.40128	0.27590	0.22108	0.11610	0.00802	0.00207
230	584005.47	4139444.58	0.00243	0.00312	0.02666	0.01564	0.01142	0.00913	0.00481	0.00034	0.00008	0.00000	0.04243	4.37881	2.56882	0.29529	0.23608	0.12437	0.00879	0.00207
231	583999.27	4139455.70	0.00228	0.00299	0.02583	0.01520	0.01111	0.00886	0.00467	0.00033	0.00008	0.00000	0.04066	4.24249	2.49655	0.28728	0.22910	0.12075	0.00853	0.00207
232	584007.93	4139453.24	0.00229	0.00329	0.02920	0.01710	0.01251	0.00999	0.00527	0.00036	0.00009	0.00000	0.04474	4.79600	2.80862	0.32348	0.25832	0.13627	0.00931	0.00233
233	584016.59	4139450.78	0.00231	0.00363	0.03307	0.01930	0.01412	0.01131	0.00596	0.00040	0.00010	0.00000	0.04937	5.43163	3.16996	0.36511	0.29245	0.15411	0.01034	0.00259
234	584025.24	4139448.31	0.00233	0.00396	0.03671	0.02152	0.01574	0.01260	0.00666	0.00045	0.00011	0.00000	0.05385	6.02949	3.53459	0.40700	0.32580	0.17221	0.01164	0.00284
235	584033.90	4139445.85	0.00235	0.00424	0.03993	0.02372	0.01733	0.01385	0.00735	0.00050	0.00012	0.00000	0.05766	6.55837	3.89593	0.44811	0.35813	0.19005	0.01293	0.00310
236	584042.55	4139443.39	0.00236	0.00449	0.04268	0.02591	0.01889	0.01505	0.00804	0.00057	0.00014	0.00000	0.06106	7.01004	4.25563	0.48845	0.38916	0.20789	0.01474	0.00362
237	584001.73	4139464.36	0.00215	0.00322	0.02903	0.01690	0.01238	0.00989	0.00520	0.00035	0.00009	0.00000	0.04379	4.76808	2.77577	0.32012	0.25573	0.13446	0.00905	0.00233
238	584010.39	4139461.90	0.00216	0.00374	0.03483	0.01985	0.01455	0.01171	0.00613	0.00039	0.00009	0.00000	0.05086	5.72071	3.26029	0.37623	0.30279	0.15851	0.01008	0.00233
239	584019.05	4139459.43	0.00218	0.00418	0.03989	0.02259	0.01656	0.01336	0.00699	0.00043	0.00010	0.00000	0.05685	6.55180	3.71033	0.42820	0.34546	0.18074	0.01112	0.00259
240	584027.70	4139456.97	0.00220	0.00456	0.04411	0.02510	0.01839	0.01483	0.00778	0.00048	0.00011	0.00000	0.06201	7.24492	4.12259	0.47552	0.38347	0.20117	0.01241	0.00284
241	584036.36	4139454.51	0.00221	0.00487	0.04762	0.02747	0.02010	0.01618	0.00853	0.00053	0.00013	0.00000	0.06623	7.82142	4.51185	0.51974	0.41837	0.22056	0.01370	0.00336
242	584045.02	4139452.05	0.00223	0.00513	0.05051	0.02976	0.02173	0.01743	0.00925	0.00061	0.00014	0.00000	0.06976	8.29609	4.88798	0.56188	0.45070	0.23918	0.01577	0.00362
		Max	**0.00480**	**0.00513**	**0.05051**	**0.02976**	**0.02173**	**0.01743**	**0.00925**	**0.00140**	**0.00039**	**0.000**	**0.070**	**8.296**	**4.888**	**0.562**	**0.451**	**0.239**	**0.036**	**0.010**

Receptor No.	Local Roads- Project Traffic Concentration DPM	Concentration Exh TOG	Concentration Evap TOG	Cancer Risk (per million) DPM	Cancer Risk (per million) Exh TOG	Cancer Risk (per million) Evap TOG	Project Generators Generator DPM	Project Generators Cancer Risk	Project Restaurants Concentration PAHs	Concentration Naph	Cancer Risk (per million) PAHs	Cancer Risk (per million) Naph
140	0.0002	0.0079	0.0134	0.09063	0.02546	0.00256	0.0004	0.23224	2.83E-07	1.42E-05	0.00057	0.00088
141	0.0002	0.0086	0.0146	0.09630	0.02765	0.00278	0.0004	0.23224	2.90E-07	1.46E-05	0.00058	0.00090
142	0.0002	0.0091	0.0155	0.10196	0.02934	0.00296	0.0004	0.23791	2.96E-07	1.49E-05	0.00060	0.00092
143	0.0002	0.0096	0.0163	0.10762	0.03095	0.00312	0.0004	0.24357	3.05E-07	1.53E-05	0.00061	0.00095
144	0.0002	0.0100	0.0172	0.11329	0.03247	0.00327	0.0004	0.24924	3.14E-07	1.58E-05	0.00063	0.00097
145	0.0002	0.0071	0.0122	0.08497	0.02303	0.00232	0.0004	0.22658	2.73E-07	1.37E-05	0.00055	0.00085
146	0.0002	0.0083	0.0141	0.09630	0.02678	0.00270	0.0004	0.23224	2.81E-07	1.41E-05	0.00056	0.00087
147	0.0002	0.0092	0.0156	0.10762	0.02960	0.00298	0.0004	0.23791	2.89E-07	1.45E-05	0.00058	0.00090
148	0.0002	0.0098	0.0167	0.11329	0.03163	0.00319	0.0004	0.23791	2.96E-07	1.49E-05	0.00059	0.00092
149	0.0002	0.0103	0.0176	0.11895	0.03328	0.00335	0.0004	0.24357	3.03E-07	1.52E-05	0.00061	0.00094
150	0.0002	0.0109	0.0186	0.12462	0.03522	0.00355	0.0004	0.24924	3.12E-07	1.57E-05	0.00063	0.00097
151	0.0002	0.0114	0.0195	0.13028	0.03694	0.00372	0.0004	0.24924	3.22E-07	1.62E-05	0.00065	0.00100
152	0.0002	0.0084	0.0143	0.10762	0.02710	0.00273	0.0004	0.23224	2.80E-07	1.41E-05	0.00056	0.00087
153	0.0002	0.0094	0.0161	0.11895	0.03044	0.00307	0.0004	0.23791	2.86E-07	1.44E-05	0.00057	0.00089
154	0.0002	0.0102	0.0174	0.13028	0.03289	0.00332	0.0004	0.23791	2.94E-07	1.48E-05	0.00059	0.00091
155	0.0002	0.0108	0.0184	0.13595	0.03480	0.00351	0.0004	0.24357	3.01E-07	1.51E-05	0.00060	0.00093
156	0.0003	0.0113	0.0194	0.14161	0.03661	0.00369	0.0004	0.24924	3.09E-07	1.55E-05	0.00062	0.00096
157	0.0003	0.0121	0.0206	0.14728	0.03898	0.00393	0.0005	0.25490	3.21E-07	1.61E-05	0.00064	0.00099
158	0.0003	0.0127	0.0217	0.15294	0.04114	0.00415	0.0005	0.26057	3.31E-07	1.66E-05	0.00067	0.00103
159	0.0002	0.0121	0.0198	0.13028	0.03898	0.00378	0.0026	1.46143	2.08E-06	1.04E-04	0.00417	0.00645
160	0.0002	0.0125	0.0204	0.13595	0.04037	0.00390	0.0026	1.48409	2.05E-06	1.03E-04	0.00412	0.00638
161	0.0002	0.0131	0.0213	0.13595	0.04227	0.00407	0.0027	1.52940	2.07E-06	1.04E-04	0.00415	0.00642
162	0.0003	0.0139	0.0226	0.14161	0.04489	0.00431	0.0028	1.58038	2.14E-06	1.08E-04	0.00430	0.00666
163	0.0003	0.0150	0.0243	0.14728	0.04848	0.00464	0.0029	1.65402	2.23E-06	1.12E-04	0.00449	0.00694
164	0.0003	0.0165	0.0267	0.15860	0.05347	0.00510	0.0031	1.72766	2.33E-06	1.17E-04	0.00469	0.00726
165	0.0003	0.0188	0.0302	0.17560	0.06068	0.00577	0.0032	1.79563	2.45E-06	1.23E-04	0.00492	0.00761
166	0.0002	0.0123	0.0202	0.13595	0.03982	0.00385	0.0027	1.51808	2.06E-06	1.04E-04	0.00414	0.00640
167	0.0002	0.0128	0.0209	0.13595	0.04134	0.00399	0.0027	1.54640	2.02E-06	1.02E-04	0.00407	0.00629
168	0.0003	0.0135	0.0219	0.14161	0.04350	0.00419	0.0028	1.59171	2.05E-06	1.03E-04	0.00413	0.00638
169	0.0003	0.0144	0.0233	0.14728	0.04641	0.00445	0.0029	1.64836	2.12E-06	1.06E-04	0.00425	0.00657
170	0.0003	0.0156	0.0253	0.15294	0.05046	0.00482	0.0030	1.71067	2.19E-06	1.10E-04	0.00441	0.00682
171	0.0003	0.0173	0.0280	0.16427	0.05609	0.00534	0.0032	1.80130	2.32E-06	1.17E-04	0.00465	0.00720
172	0.0003	0.0199	0.0320	0.18126	0.06430	0.00610	0.0033	1.87494	2.45E-06	1.23E-04	0.00493	0.00763
173	0.0002	0.0126	0.0207	0.13595	0.04079	0.00394	0.0028	1.57472	2.06E-06	1.04E-04	0.00414	0.00640
174	0.0002	0.0132	0.0215	0.13595	0.04253	0.00410	0.0028	1.60304	2.05E-06	1.03E-04	0.00412	0.00637
175	0.0002	0.0129	0.0212	0.13595	0.04185	0.00404	0.0029	1.62004	2.09E-06	1.05E-04	0.00419	0.00649
176	0.0003	0.0136	0.0221	0.14161	0.04386	0.00422	0.0030	1.67102	2.11E-06	1.06E-04	0.00424	0.00657
177	0.0003	0.0133	0.0217	0.14161	0.04299	0.00415	0.0030	1.68801	2.15E-06	1.08E-04	0.00431	0.00668
178	0.0003	0.0140	0.0228	0.14161	0.04519	0.00435	0.0031	1.75598	2.20E-06	1.11E-04	0.00442	0.00685
179	0.0003	0.0136	0.0222	0.14161	0.04405	0.00424	0.0032	1.78431	2.23E-06	1.12E-04	0.00448	0.00694
180	0.0003	0.0143	0.0234	0.14728	0.04638	0.00445	0.0033	1.87494	2.32E-06	1.17E-04	0.00465	0.00720
181	0.0003	0.0139	0.0227	0.14161	0.04489	0.00432	0.0034	1.89759	2.32E-06	1.17E-04	0.00466	0.00723
182	0.0003	0.0146	0.0238	0.14728	0.04726	0.00453	0.0035	2.00522	2.43E-06	1.22E-04	0.00487	0.00755
183	0.0003	0.0141	0.0230	0.14728	0.04551	0.00438	0.0036	2.02221	2.39E-06	1.20E-04	0.00480	0.00744
184	0.0003	0.0148	0.0240	0.14728	0.04777	0.00458	0.0038	2.15816	2.48E-06	1.25E-04	0.00499	0.00773
185	0.0003	0.0142	0.0231	0.14728	0.04580	0.00440	0.0038	2.15816	2.40E-06	1.21E-04	0.00481	0.00746
186	0.0003	0.0148	0.0241	0.14728	0.04787	0.00459	0.0041	2.29411	2.46E-06	1.24E-04	0.00494	0.00765
187	0.0003	0.0156	0.0253	0.15294	0.05046	0.00482	0.0043	2.42439	2.51E-06	1.26E-04	0.00503	0.00780
188	0.0003	0.0166	0.0268	0.15860	0.05353	0.00511	0.0045	2.56600	2.55E-06	1.28E-04	0.00511	0.00793
189	0.0003	0.0177	0.0286	0.16427	0.05728	0.00545	0.0047	2.67929	2.58E-06	1.30E-04	0.00519	0.00805
190	0.0003	0.0191	0.0308	0.17560	0.06188	0.00587	0.0049	2.79258	2.62E-06	1.32E-04	0.00527	0.00817
191	0.0002	0.0112	0.0183	0.12462	0.03606	0.00350	0.0026	1.45010	1.95E-06	9.81E-05	0.00392	0.00606
192	0.0002	0.0115	0.0188	0.12462	0.03713	0.00359	0.0026	1.47276	1.93E-06	9.70E-05	0.00387	0.00600
193	0.0002	0.0119	0.0195	0.12462	0.03859	0.00372	0.0027	1.51808	1.95E-06	9.83E-05	0.00392	0.00607
194	0.0002	0.0125	0.0204	0.13028	0.04056	0.00390	0.0028	1.57472	2.05E-06	1.03E-04	0.00412	0.00638
195	0.0002	0.0133	0.0217	0.13595	0.04312	0.00413	0.0029	1.65969	2.17E-06	1.09E-04	0.00437	0.00676
196	0.0003	0.0144	0.0233	0.14161	0.04651	0.00445	0.0031	1.72766	2.32E-06	1.17E-04	0.00465	0.00721
197	0.0003	0.0158	0.0255	0.15294	0.05101	0.00486	0.0032	1.80130	2.49E-06	1.25E-04	0.00500	0.00774
198	0.0003	0.0176	0.0284	0.16993	0.05706	0.00542	0.0033	1.89193	2.68E-06	1.35E-04	0.00538	0.00833
199	0.0004	0.0202	0.0324	0.19826	0.06534	0.00619	0.0036	2.01088	2.88E-06	1.45E-04	0.00578	0.00895
200	0.0002	0.0114	0.0187	0.12462	0.03674	0.00356	0.0027	1.50675	1.95E-06	9.83E-05	0.00392	0.00607
201	0.0002	0.0117	0.0192	0.12462	0.03794	0.00366	0.0027	1.54073	1.91E-06	9.63E-05	0.00384	0.00595
202	0.0002	0.0122	0.0200	0.13028	0.03959	0.00381	0.0028	1.58605	1.95E-06	9.79E-05	0.00391	0.00605
203	0.0002	0.0129	0.0210	0.13595	0.04176	0.00401	0.0029	1.64269	2.02E-06	1.02E-04	0.00406	0.00628
204	0.0003	0.0138	0.0224	0.14161	0.04460	0.00427	0.0030	1.71067	2.12E-06	1.07E-04	0.00426	0.00660
205	0.0003	0.0150	0.0242	0.14728	0.04839	0.00462	0.0032	1.80696	2.29E-06	1.15E-04	0.00460	0.00712
206	0.0003	0.0165	0.0267	0.15860	0.05343	0.00508	0.0033	1.88627	2.50E-06	1.26E-04	0.00501	0.00777
207	0.0003	0.0186	0.0300	0.18126	0.06023	0.00571	0.0035	1.99389	2.74E-06	1.38E-04	0.00549	0.00851
208	0.0004	0.0215	0.0345	0.20959	0.06957	0.00658	0.0038	2.12984	3.04E-06	1.53E-04	0.00611	0.00947
209	0.0002	0.0116	0.0190	0.12462	0.03752	0.00363	0.0028	1.56339	1.98E-06	9.95E-05	0.00397	0.00615
210	0.0002	0.0120	0.0197	0.13028	0.03891	0.00375	0.0028	1.59171	1.96E-06	9.88E-05	0.00394	0.00611
211	0.0003	0.0198	0.0319	0.18693	0.06411	0.00608	0.0038	2.13550	2.92E-06	1.47E-04	0.00587	0.00910
212	0.0004	0.0231	0.0370	0.22091	0.07468	0.00706	0.0041	2.32243	3.38E-06	1.70E-04	0.00678	0.01051
213	0.0002	0.0119	0.0195	0.13028	0.03843	0.00371	0.0029	1.61437	2.03E-06	1.02E-04	0.00409	0.00633
214	0.0002	0.0124	0.0202	0.13028	0.03998	0.00385	0.0029	1.65969	2.06E-06	1.04E-04	0.00413	0.00640
215	0.0004	0.0208	0.0334	0.19826	0.06734	0.00638	0.0042	2.36774	3.32E-06	1.67E-04	0.00666	0.01033
216	0.0004	0.0241	0.0386	0.22658	0.07792	0.00736	0.0047	2.63397	4.02E-06	2.03E-04	0.00808	0.01254
217	0.0002	0.0122	0.0199	0.13028	0.03940	0.00380	0.0030	1.68234	2.13E-06	1.07E-04	0.00428	0.00663
218	0.0002	0.0127	0.0207	0.13028	0.04111	0.00396	0.0031	1.75032	2.19E-06	1.10E-04	0.00439	0.00681
219	0.0004	0.0212	0.0340	0.19826	0.06860	0.00649	0.0047	2.66230	3.65E-06	1.84E-04	0.00734	0.01139
220	0.0004	0.0241	0.0385	0.22658	0.07782	0.00735	0.0053	2.99084	4.19E-06	2.11E-04	0.00842	0.01306
221	0.0002	0.0125	0.0204	0.13028	0.04027	0.00388	0.0032	1.78431	2.26E-06	1.14E-04	0.00453	0.00703
222	0.0002	0.0130	0.0212	0.13595	0.04211	0.00405	0.0033	1.87494	2.35E-06	1.18E-04	0.00472	0.00732
223	0.0004	0.0210	0.0337	0.19826	0.06789	0.00642	0.0051	2.88887	3.42E-06	1.73E-04	0.00687	0.01066
224	0.0004	0.0234	0.0375	0.22091	0.07578	0.00716	0.0056	3.14378	3.47E-06	1.75E-04	0.00697	0.01081
225	0.0002	0.0127	0.0207	0.13028	0.04105	0.00395	0.0034	1.89759	2.39E-06	1.21E-04	0.00481	0.00745
226	0.0002	0.0133	0.0216	0.13595	0.04289	0.00412	0.0036	2.01655	2.51E-06	1.26E-04	0.00503	0.00781
227	0.0003	0.0205	0.0328	0.19259	0.06618	0.00626	0.0053	2.98517	2.99E-06	1.51E-04	0.00600	0.00930
228	0.0004	0.0226	0.0362	0.20959	0.07316	0.00691	0.0056	3.14378	3.01E-06	1.52E-04	0.00605	0.00938
229	0.0002	0.0129	0.0210	0.13595	0.04156	0.00400	0.0036	2.02788	2.48E-06	1.25E-04	0.00499	0.00774
230	0.0002	0.0134	0.0218	0.13595	0.04337	0.00416	0.0038	2.16949	2.58E-06	1.30E-04	0.00518	0.00803
231	0.0002	0.0129	0.0211	0.13595	0.04185	0.00403	0.0038	2.16949	2.48E-06	1.25E-04	0.00497	0.00771
232	0.0002	0.0135	0.0219	0.13595	0.04354	0.00418	0.0041	2.31110	2.52E-06	1.27E-04	0.00507	0.00786
233	0.0003	0.0141	0.0228	0.14161	0.04554	0.00436	0.0043	2.44705	2.54E-06	1.28E-04	0.00510	0.00792
234	0.0003	0.0148	0.0240	0.14728	0.04787	0.00457	0.0046	2.58866	2.55E-06	1.28E-04	0.00511	0.00793
235	0.0003	0.0156	0.0253	0.15294	0.05059	0.00482	0.0048	2.71328	2.55E-06	1.29E-04	0.00513	0.00795
236	0.0003	0.0166	0.0268	0.15860	0.05376	0.00511	0.0050	2.83789	2.58E-06	1.30E-04	0.00518	0.00803
237	0.0002	0.0130	0.0211	0.13595	0.04192	0.00403	0.0040	2.27711	2.38E-06	1.20E-04	0.00479	0.00742
238	0.0002	0.0134	0.0218	0.13595	0.04341	0.00416	0.0042	2.39607	2.38E-06	1.20E-04	0.00478	0.00742
239	0.0003	0.0140	0.0227	0.14161	0.04519	0.00432	0.0045	2.52635	2.38E-06	1.20E-04	0.00478	0.00742
240	0.0003	0.0146	0.0237	0.14161	0.04726	0.00451	0.0047	2.64530	2.39E-06	1.20E-04	0.00480	0.00744
241	0.0003	0.0154	0.0248	0.14728	0.04965	0.00473	0.0048	2.73593	2.43E-06	1.22E-04	0.00487	0.00756
242	0.0003	0.0162	0.0262	0.15860	0.05246	0.00499	0.0050	2.82657	2.50E-06	1.26E-04	0.00502	0.00779
Max	**0.00040**	**0.02409**	**0.03915**	**0.227**	**0.078**	**0.007**	**0.00555**	**3.144**	**0.000004**	**0.00021**	**0.008**	**0.013**

Receptor No.	Total - Cancer Risk (per million) DPM	Exh TOG	Evap TOG	PAHs	Naph	TOTAL	Construction Risk - Total Cancer Risk (per million) DPM	Exh TOG	Evap TOG	TOTAL	Roads Risk -Total Cancer Risk (per million) DPM	Exh TOG	Evap TOG	TOTAL	Project Generators Risk - Total Cancer Risk (per million) DPM	Exh TOG	Evap TOG	TOTAL	Restaurants Risk - Total Cancer Risk (per million) DPM	Exh TOG	TOTAL
140	0.430	0.025	0.003	0.001	0.001	0.459	0.107	0.000	0.000	0.107	0.091	0.025	0.003	0.119	0.232	0.000	0.000	0.232	0.001	0.001	0.0014
141	0.439	0.028	0.003	0.001	0.001	0.471	0.111	0.000	0.000	0.111	0.096	0.028	0.003	0.127	0.232	0.000	0.000	0.232	0.001	0.001	0.0015
142	0.454	0.029	0.003	0.001	0.001	0.488	0.114	0.000	0.000	0.114	0.102	0.029	0.003	0.134	0.238	0.000	0.000	0.238	0.001	0.001	0.0015
143	0.471	0.031	0.003	0.001	0.001	0.507	0.120	0.000	0.000	0.120	0.108	0.031	0.003	0.142	0.244	0.000	0.000	0.244	0.001	0.001	0.0016
144	0.488	0.032	0.003	0.001	0.001	0.525	0.126	0.000	0.000	0.126	0.113	0.032	0.003	0.149	0.249	0.000	0.000	0.249	0.001	0.001	0.0016
145	0.414	0.023	0.002	0.001	0.001	0.441	0.103	0.000	0.000	0.103	0.085	0.023	0.002	0.110	0.227	0.000	0.000	0.227	0.001	0.001	0.0014
146	0.434	0.027	0.003	0.001	0.001	0.465	0.105	0.000	0.000	0.105	0.096	0.027	0.003	0.126	0.232	0.000	0.000	0.232	0.001	0.001	0.0014
147	0.454	0.030	0.003	0.001	0.001	0.488	0.109	0.000	0.000	0.109	0.108	0.030	0.003	0.140	0.238	0.000	0.000	0.238	0.001	0.001	0.0015
148	0.464	0.032	0.003	0.001	0.001	0.500	0.112	0.000	0.000	0.112	0.113	0.032	0.003	0.148	0.238	0.000	0.000	0.238	0.001	0.001	0.0015
149	0.481	0.033	0.003	0.001	0.001	0.519	0.118	0.000	0.000	0.118	0.119	0.033	0.003	0.156	0.244	0.000	0.000	0.244	0.001	0.001	0.0015
150	0.497	0.035	0.004	0.001	0.001	0.538	0.123	0.000	0.000	0.123	0.125	0.035	0.004	0.163	0.249	0.000	0.000	0.249	0.001	0.001	0.0016
151	0.509	0.037	0.004	0.001	0.001	0.551	0.129	0.000	0.000	0.129	0.130	0.037	0.004	0.171	0.249	0.000	0.000	0.249	0.001	0.001	0.0016
152	0.443	0.027	0.003	0.001	0.001	0.475	0.104	0.000	0.000	0.104	0.108	0.027	0.003	0.137	0.232	0.000	0.000	0.232	0.001	0.001	0.0014
153	0.465	0.030	0.003	0.001	0.001	0.500	0.109	0.000	0.000	0.109	0.119	0.030	0.003	0.152	0.238	0.000	0.000	0.238	0.001	0.001	0.0015
154	0.480	0.033	0.003	0.001	0.001	0.518	0.112	0.000	0.000	0.112	0.130	0.033	0.003	0.166	0.238	0.000	0.000	0.238	0.001	0.001	0.0015
155	0.496	0.035	0.004	0.001	0.001	0.536	0.116	0.000	0.000	0.116	0.136	0.035	0.004	0.174	0.244	0.000	0.000	0.244	0.001	0.001	0.0015
156	0.511	0.037	0.004	0.001	0.001	0.553	0.120	0.000	0.000	0.120	0.142	0.037	0.004	0.182	0.249	0.000	0.000	0.249	0.001	0.001	0.0016
157	0.528	0.039	0.004	0.001	0.001	0.573	0.126	0.000	0.000	0.126	0.147	0.039	0.004	0.190	0.255	0.000	0.000	0.255	0.001	0.001	0.0016
158	0.546	0.041	0.004	0.001	0.001	0.593	0.133	0.000	0.000	0.133	0.153	0.041	0.004	0.198	0.261	0.000	0.000	0.261	0.001	0.001	0.0017
159	12.005	0.039	0.004	0.004	0.006	12.058	10.413	0.000	0.000	10.413	0.130	0.039	0.004	0.173	1.461	0.000	0.000	1.461	0.004	0.006	0.0106
160	10.911	0.040	0.004	0.004	0.006	10.966	9.291	0.000	0.000	9.291	0.136	0.040	0.004	0.180	1.484	0.000	0.000	1.484	0.004	0.006	0.0105
161	10.135	0.042	0.004	0.004	0.006	10.192	8.470	0.000	0.000	8.470	0.136	0.042	0.004	0.182	1.529	0.000	0.000	1.529	0.004	0.006	0.0106
162	9.646	0.045	0.004	0.004	0.007	9.706	7.924	0.000	0.000	7.924	0.142	0.045	0.004	0.191	1.580	0.000	0.000	1.580	0.004	0.007	0.0110
163	9.421	0.048	0.005	0.004	0.007	9.486	7.620	0.000	0.000	7.620	0.147	0.048	0.005	0.200	1.654	0.000	0.000	1.654	0.004	0.007	0.0114
164	9.392	0.053	0.005	0.005	0.007	9.463	7.506	0.000	0.000	7.506	0.159	0.053	0.005	0.217	1.728	0.000	0.000	1.728	0.005	0.007	0.0119
165	9.515	0.061	0.006	0.005	0.008	9.594	7.544	0.000	0.000	7.544	0.176	0.061	0.006	0.242	1.796	0.000	0.000	1.796	0.005	0.008	0.0125
166	11.739	0.040	0.004	0.004	0.006	11.793	10.085	0.000	0.000	10.085	0.136	0.040	0.004	0.180	1.518	0.000	0.000	1.518	0.004	0.006	0.0105
167	10.755	0.041	0.004	0.004	0.006	10.811	9.073	0.000	0.000	9.073	0.136	0.041	0.004	0.181	1.546	0.000	0.000	1.546	0.004	0.006	0.0104
168	10.105	0.044	0.004	0.004	0.006	10.163	8.372	0.000	0.000	8.372	0.142	0.044	0.004	0.189	1.592	0.000	0.000	1.592	0.004	0.006	0.0105
169	9.754	0.046	0.004	0.004	0.007	9.816	7.959	0.000	0.000	7.959	0.147	0.046	0.004	0.198	1.648	0.000	0.000	1.648	0.004	0.007	0.0108
170	9.643	0.050	0.005	0.004	0.007	9.710	7.779	0.000	0.000	7.779	0.153	0.050	0.005	0.208	1.711	0.000	0.000	1.711	0.004	0.007	0.0112
171	9.754	0.056	0.005	0.005	0.007	9.827	7.788	0.000	0.000	7.788	0.164	0.056	0.005	0.226	1.801	0.000	0.000	1.801	0.005	0.007	0.0119
172	9.990	0.064	0.006	0.005	0.008	10.073	7.934	0.000	0.000	7.934	0.181	0.064	0.006	0.252	1.875	0.000	0.000	1.875	0.005	0.008	0.0126
173	11.438	0.041	0.004	0.004	0.006	11.493	9.727	0.000	0.000	9.727	0.136	0.041	0.004	0.181	1.575	0.000	0.000	1.575	0.004	0.006	0.0105
174	10.599	0.043	0.004	0.004	0.006	10.656	8.860	0.000	0.000	8.860	0.136	0.043	0.004	0.183	1.603	0.000	0.000	1.603	0.004	0.006	0.0105
175	11.115	0.042	0.004	0.004	0.006	11.172	9.359	0.000	0.000	9.359	0.136	0.042	0.004	0.182	1.620	0.000	0.000	1.620	0.004	0.006	0.0107
176	10.487	0.044	0.004	0.004	0.007	10.546	8.674	0.000	0.000	8.674	0.142	0.044	0.004	0.190	1.671	0.000	0.000	1.671	0.004	0.007	0.0108
177	10.825	0.043	0.004	0.004	0.007	10.883	8.996	0.000	0.000	8.996	0.142	0.043	0.004	0.189	1.688	0.000	0.000	1.688	0.004	0.007	0.0110
178	10.443	0.045	0.004	0.004	0.007	10.503	8.545	0.000	0.000	8.545	0.142	0.045	0.004	0.191	1.756	0.000	0.000	1.756	0.004	0.007	0.0113
179	10.597	0.044	0.004	0.004	0.007	10.656	8.671	0.000	0.000	8.671	0.142	0.044	0.004	0.190	1.784	0.000	0.000	1.784	0.004	0.007	0.0114
180	10.540	0.046	0.004	0.005	0.007	10.603	8.518	0.000	0.000	8.518	0.147	0.046	0.004	0.198	1.875	0.000	0.000	1.875	0.005	0.007	0.0119
181	10.464	0.045	0.004	0.005	0.007	10.525	8.425	0.000	0.000	8.425	0.142	0.045	0.004	0.191	1.898	0.000	0.000	1.898	0.005	0.007	0.0119
182	10.796	0.047	0.005	0.005	0.008	10.860	8.644	0.000	0.000	8.644	0.147	0.047	0.005	0.199	2.005	0.000	0.000	2.005	0.005	0.008	0.0124
183	10.484	0.046	0.004	0.005	0.007	10.546	8.315	0.000	0.000	8.315	0.147	0.046	0.004	0.197	2.022	0.000	0.000	2.022	0.005	0.007	0.0122
184	11.282	0.048	0.005	0.005	0.008	11.347	8.977	0.000	0.000	8.977	0.147	0.048	0.005	0.200	2.158	0.000	0.000	2.158	0.005	0.008	0.0127
185	10.703	0.046	0.004	0.005	0.007	10.766	8.398	0.000	0.000	8.398	0.147	0.046	0.004	0.197	2.158	0.000	0.000	2.158	0.005	0.007	0.0123
186	11.986	0.048	0.005	0.005	0.008	12.051	9.545	0.000	0.000	9.545	0.147	0.048	0.005	0.200	2.294	0.000	0.000	2.294	0.005	0.008	0.0126
187	13.391	0.050	0.005	0.005	0.008	13.459	10.814	0.000	0.000	10.814	0.153	0.050	0.005	0.208	2.424	0.000	0.000	2.424	0.005	0.008	0.0128
188	14.776	0.054	0.005	0.005	0.008	14.847	12.051	0.000	0.000	12.051	0.159	0.054	0.005	0.217	2.566	0.000	0.000	2.566	0.005	0.008	0.0130
189	16.045	0.057	0.005	0.005	0.008	16.121	13.202	0.000	0.000	13.202	0.164	0.057	0.005	0.227	2.679	0.000	0.000	2.679	0.005	0.008	0.0132
190	17.220	0.062	0.006	0.005	0.008	17.301	14.251	0.000	0.000	14.251	0.176	0.062	0.006	0.243	2.793	0.000	0.000	2.793	0.005	0.008	0.0134
191	10.722	0.036	0.003	0.004	0.006	10.772	9.147	0.000	0.000	9.147	0.125	0.036	0.003	0.164	1.450	0.000	0.000	1.450	0.004	0.006	0.0100
192	9.673	0.037	0.004	0.004	0.006	9.723	8.075	0.000	0.000	8.075	0.125	0.037	0.004	0.165	1.473	0.000	0.000	1.473	0.004	0.006	0.0099
193	9.003	0.039	0.004	0.004	0.006	9.055	7.360	0.000	0.000	7.360	0.125	0.039	0.004	0.167	1.518	0.000	0.000	1.518	0.004	0.006	0.0100
194	8.615	0.041	0.004	0.004	0.006	8.670	6.910	0.000	0.000	6.910	0.130	0.041	0.004	0.175	1.575	0.000	0.000	1.575	0.004	0.006	0.0105
195	8.468	0.043	0.004	0.004	0.007	8.526	6.672	0.000	0.000	6.672	0.136	0.043	0.004	0.183	1.660	0.000	0.000	1.660	0.004	0.007	0.0111
196	8.468	0.047	0.004	0.005	0.007	8.531	6.599	0.000	0.000	6.599	0.142	0.047	0.004	0.193	1.728	0.000	0.000	1.728	0.005	0.007	0.0119
197	8.605	0.051	0.005	0.005	0.008	8.673	6.650	0.000	0.000	6.650	0.153	0.051	0.005	0.209	1.801	0.000	0.000	1.801	0.005	0.008	0.0127
198	8.865	0.057	0.005	0.005	0.008	8.942	6.804	0.000	0.000	6.804	0.170	0.057	0.005	0.232	1.892	0.000	0.000	1.892	0.005	0.008	0.0137
199	9.249	0.065	0.006	0.006	0.009	9.335	7.040	0.000	0.000	7.040	0.198	0.065	0.006	0.270	2.011	0.000	0.000	2.011	0.006	0.009	0.0147
200	10.473	0.037	0.004	0.004	0.006	10.523	8.842	0.000	0.000	8.842	0.125	0.037	0.004	0.165	1.507	0.000	0.000	1.507	0.004	0.006	0.0100
201	9.526	0.038	0.004	0.004	0.006	9.578	7.861	0.000	0.000	7.861	0.125	0.038	0.004	0.166	1.541	0.000	0.000	1.541	0.004	0.006	0.0098
202	8.964	0.040	0.004	0.004	0.006	9.017	7.248	0.000	0.000	7.248	0.130	0.040	0.004	0.174	1.586	0.000	0.000	1.586	0.004	0.006	0.0100
203	8.692	0.042	0.004	0.004	0.006	8.748	6.913	0.000	0.000	6.913	0.136	0.042	0.004	0.182	1.643	0.000	0.000	1.643	0.004	0.006	0.0103
204	8.640	0.045	0.004	0.004	0.007	8.699	6.787	0.000	0.000	6.787	0.142	0.045	0.004	0.190	1.711	0.000	0.000	1.711	0.004	0.007	0.0109
205	8.774	0.048	0.005	0.005	0.007	8.839	6.820	0.000	0.000	6.820	0.147	0.048	0.005	0.200	1.807	0.000	0.000	1.807	0.005	0.007	0.0117
206	9.012	0.053	0.005	0.005	0.008	9.083	6.967	0.000	0.000	6.967	0.159	0.053	0.005	0.217	1.886	0.000	0.000	1.886	0.005	0.008	0.0128
207	9.379	0.060	0.006	0.005	0.009	9.459	7.204	0.000	0.000	7.204	0.181	0.060	0.006	0.247	1.994	0.000	0.000	1.994	0.005	0.009	0.0140
208	9.853	0.070	0.007	0.006	0.009	9.945	7.513	0.000	0.000	7.513	0.210	0.070	0.007	0.286	2.130	0.000	0.000	2.130	0.006	0.009	0.0156
209	10.197	0.038	0.004	0.004	0.006	10.248	8.509	0.000	0.000	8.509	0.125	0.038	0.004	0.166	1.563	0.000	0.000	1.563	0.004	0.006	0.0101
210	9.371	0.039	0.004	0.004	0.006	9.424	7.649	0.000	0.000	7.649	0.130	0.039	0.004	0.173	1.592	0.000	0.000	1.592	0.004	0.006	0.0100
211	10.035	0.064	0.006	0.006	0.009	10.120	7.712	0.000	0.000	7.712	0.187	0.064	0.006	0.257	2.136	0.000	0.000	2.136	0.006	0.009	0.0150
212	10.645	0.075	0.007	0.007	0.011	10.744	8.102	0.000	0.000	8.102	0.221	0.075	0.007	0.303	2.322	0.000	0.000	2.322	0.007	0.011	0.0173
213	9.915	0.038	0.004	0.004	0.006	9.967	8.170	0.000	0.000	8.170	0.130	0.038	0.004	0.172	1.614	0.000	0.000	1.614	0.004	0.006	0.0104
214	9.249	0.040	0.004	0.004	0.006	9.304	7.459	0.000	0.000	7.459	0.130	0.040	0.004	0.174	1.660	0.000	0.000	1.660	0.004	0.006	0.0105
215	10.918	0.067	0.006	0.007	0.010	11.008	8.352	0.000	0.000	8.352	0.198	0.067	0.006	0.272	2.368	0.000	0.000	2.368	0.007	0.010	0.0170
216	11.690	0.078	0.007	0.008	0.013	11.796	8.829	0.000	0.000	8.829	0.227	0.078	0.007	0.312	2.634	0.000	0.000	2.634	0.008	0.013	0.0206
217	9.653	0.039	0.004	0.004	0.007	9.707	7.840	0.000	0.000	7.840	0.130	0.039	0.004	0.173	1.682	0.000	0.000	1.682	0.004	0.007	0.0109
218	9.201	0.041	0.004	0.004	0.007	9.257	7.320	0.000	0.000	7.320	0.130	0.041	0.004	0.175	1.750	0.000	0.000	1.750	0.004	0.007	0.0112
219	12.001	0.069	0.006	0.007	0.011	12.095	9.140	0.000	0.000	9.140	0.198	0.069	0.006	0.273	2.662	0.000	0.000	2.662	0.007	0.011	0.0187
220	12.931	0.078	0.007	0.008	0.013	13.038	9.714	0.000	0.000	9.714	0.227	0.078	0.007	0.312	2.991	0.000	0.000	2.991	0.008	0.013	0.0215
221	9.453	0.040	0.004	0.005	0.007	9.509	7.539	0.000	0.000	7.539	0.130	0.040	0.004	0.174	1.784	0.000	0.000	1.784	0.005	0.007	0.0116
222	9.274	0.042	0.004	0.005	0.007	9.332	7.263	0.000	0.000	7.263	0.136	0.042	0.004	0.182	1.875	0.000	0.000	1.875	0.005	0.007	0.0120
223	13.170	0.068	0.006	0.007	0.011	13.262	10.083	0.000	0.000	10.083	0.198	0.068	0.006	0.273	2.889	0.000	0.000	2.889	0.007	0.011	0.0175
224	14.106	0.076	0.007	0.007	0.011	14.207	10.742	0.000	0.000	10.742	0.221	0.076	0.007	0.304	3.144	0.000	0.000	3.144	0.007	0.011	0.0178
225	9.338	0.041	0.004	0.005	0.007	9.395	7.310	0.000	0.000	7.310	0.130	0.041	0.004	0.175	1.898	0.000	0.000	1.898	0.005	0.007	0.0123
226	9.497	0.043	0.004	0.005	0.008	9.557	7.344	0.000	0.000	7.344	0.136	0.043	0.004	0.183	2.017	0.000	0.000	2.017	0.005	0.008	0.0128
227	14.362	0.066	0.006	0.006	0.009	14.450	11.184	0.000	0.000	11.184	0.193	0.066	0.006	0.265	2.985	0.000	0.000	2.985	0.006	0.009	0.0153
228	15.250	0.073	0.007	0.006	0.009	15.345	11.897	0.000	0.000	11.897	0.210	0.073	0.007	0.290	3.144	0.000	0.000	3.144	0.006	0.009	0.0154
229	9.386	0.042	0.004	0.005	0.008	9.444	7.222	0.000	0.000	7.222	0.136	0.042	0.004	0.182	2.028	0.000	0.000	2.028	0.005	0.008	0.0127
230	9.962	0.043	0.004	0.005	0.008	10.023	7.657	0.000	0.000	7.657	0.136	0.043	0.004	0.183	2.169	0.000	0.000	2.169	0.005	0.008	0.0132
231	9.733	0.042	0.004	0.005	0.008	9.791	7.427	0.000	0.000	7.427	0.136	0.042	0.004	0.182	2.169	0.000	0.000	2.169	0.005	0.008	0.0127
232	10.826	0.044	0.004	0.005	0.008	10.887	8.379	0.000	0.000	8.379	0.136	0.044	0.004	0.184	2.311	0.000	0.000	2.311	0.005	0.008	0.0129
233	12.064	0.046	0.004	0.005	0.008	12.127	9.476	0.000	0.000	9.476	0.142	0.046	0.004	0.192	2.447	0.000	0.000	2.447	0.005	0.008	0.0130
234	13.273	0.048	0.005	0.005	0.008	13.339	10.537	0.000	0.000	10.537	0.147	0.048	0.005	0.200	2.589	0.000	0.000	2.589	0.005	0.008	0.0130
235	14.390	0.051	0.005	0.005	0.008	14.459	11.524	0.000	0.000	11.524	0.153	0.051	0.005	0.208	2.713	0.000	0.000	2.713	0.005	0.008	0.0131
236	15.427	0.054	0.005	0.005	0.008	15.499	12.431	0.000	0.000	12.431	0.159	0.054	0.005	0.217	2.838	0.000	0.000	2.838	0.005	0.008	0.0132
237	10.722	0.042	0.004	0.005	0.007	10.781	8.309	0.000	0.000	8.309	0.136	0.042	0.004	0.182	2.277	0.000	0.000	2.277	0.005	0.007	0.0122
238	12.414	0.043	0.004	0.005	0.007	12.474	9.882	0.000	0.000	9.882	0.136	0.043	0.004	0.184	2.396	0.000	0.000	2.396	0.005	0.007	0.0122
239	13.955	0.045	0.004	0.005	0.007	14.017	11.287	0.000	0.000	11.287	0.142	0.045	0.004	0.191	2.526	0.000	0.000	2.526	0.005	0.007	0.0122
240	15.292	0.047	0.005	0.005	0.007	15.356	12.505	0.000	0.000	12.505	0.142	0.047	0.005	0.193	2.645	0.000	0.000	2.645	0.005	0.007	0.0122
241	16.458	0.050	0.005	0.005	0.008	16.525	13.575	0.000	0.000	13.575	0.147	0.050	0.005	0.202	2.736	0.000	0.000	2.736	0.005	0.008	0.0124
242	17.510	0.052	0.005	0.005	0.008	**17.580**	14.525	0.000	0.000	**14.525**	0.159	0.052	0.005	**0.216**	2.827	0.000	0.000	**2.827**	0.005	0.008	**0.0128**
Max	**17.510**	**0.078**	**0.007**	**0.008**	**0.013**	**17.580**	**14.525**	**0.000**	**0.000**	**14.525**	**0.227**	**0.078**	**0.007**	**0.312**	**3.144**	**0.000**	**0.000**	**3.144**	**0.0**	**0.0**	**0.021**

Google Middlefield - Project Impacts
Cancer Risk Calculations for Project Construction and Operation- Unmitigated
at On-Site Residential Receptors

Exposure Types and Durations (years) for Cancer Risk Calculations - Project Impacts

Year(s) ->	2023	2024	2025	2026	2027	2028	2029	2030	2031	2026-2055			
Duration ->	1	1	1	1	1	1	1	1	1	29	29	29	29
Activity ->	Construct	Construct	Construct	Construct	Construct	Construct	Construct	Construct	Construct	Local Roads	SR-237 Traffic	Generators Operation	Restaurants Operation
Exposure Type													
3rd Trimester (10)	0	0	0.25	0	0	0	0	0	0	0	0	0	0
Infant (10)	0	0	0	1	1	0	0	0	0	2	2	2	2
Child (3)	0	0	0	0	0	1	1	1	1	14	14	14	14
Adult (1)	0	0	0	0	0	0	0	0	0	14	14	14	14

Receptor No.	Receptor Coordinates UTM-X (m)	UTM-Y (m)	2023 Construct DPM	2024 Construct DPM	2025 Construct DPM	2026 Construct DPM	2027 Construct DPM	2028 Construct DPM	2029 Construct DPM	2030 Construct DPM	2031 Construct DPM	2023 Construct Risk	2024 Construct Risk	2025 Construct Risk	2026 Construct Risk	2027 Construct Risk	2028 Construct Risk	2029 Construct Risk	2030 Construct Risk	2031 Construct Risk	2026-2055 Local Roads- Project Traffic Concentration DPM	Exh TOG	Evap TOG	Cancer Risk (per million) DPM	Exh TOG	Evap TOG	2026-2055 State Route 237 Concentration DPM	Exh TOG	Evap TOG	Cancer Risk (per million) DPM	Exh TOG	Evap TOG	2026-2055 Project Generators Generator DPM	Cancer Risk	2026-2055 Project Restaurants Concentration PAHs	Naph	Cancer Risk (per million) PAHs	Naph	Total - Cancer Risk Cancer Risk (per million) DPM	Exh TOG	Evap TOG	PAHs	Naph	TOTAL	Total With MERV-13	Construction Risk - Total Cancer Risk (per million) DPM	Exh TOG	Evap TOG	TOTAL	Total With MERV-13	Roads Risk -Total Cancer Risk (per million) DPM	Exh TOG	Evap TOG	TOTAL	Total With MERV-13	Project Generators Risk - Total Cancer Risk (per million) DPM	Exh TOG	Evap TOG	TOTAL	Total With MERV-13	Restaurants Risk - Total Cancer Risk (per million) PAHs	Naph	TOTAL	Total With MERV-13
1	583791.67	4139222.58	0.00000	0.00000	0.00000	0.01363	0.00760	0.00513	0.00181	0.00008	0.00002	0.00000	0.00000	0.00000	2.23868	1.24827	0.13265	0.04680	0.00207	0.00052	0.00048	0.0218	0.037	0.35073	0.09100	0.00917	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0032	2.31630	2.51E-06	1.26E-04	0.00505	0.00780	6.336	0.091	0.009	0.005	0.008	6.449	2.014	3.669	0.000	0.000	3.669	1.101	0.35073	0.09100	0.00917	0.451	0.205	2.316	0.000	0.000	2.316	0.695	0.005	0.008	0.0128	0.013
2	583800.29	4139219.98	0.00000	0.00000	0.00000	0.01492	0.00830	0.00567	0.00201	0.00008	0.00002	0.00000	0.00000	0.00000	2.45056	1.36325	0.14661	0.05197	0.00207	0.00052	0.00044	0.0209	0.036	0.32150	0.08720	0.00878	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0037	2.68895	2.86E-06	1.43E-04	0.00574	0.00886	7.025	0.087	0.009	0.006	0.009	7.136	2.218	4.015	0.000	0.000	4.015	1.204	0.32150	0.08720	0.00878	0.417	0.192	2.689	0.000	0.000	2.689	0.807	0.006	0.009	0.0146	0.015
3	583808.90	4139217.39	0.00000	0.00000	0.00000	0.01634	0.00906	0.00626	0.00223	0.00009	0.00002	0.00000	0.00000	0.00000	2.68379	1.48807	0.16187	0.05766	0.00233	0.00052	0.00042	0.0199	0.034	0.30689	0.08286	0.00834	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0043	3.10544	3.19E-06	1.60E-04	0.00640	0.00988	7.807	0.083	0.008	0.006	0.010	7.914	2.449	4.394	0.000	0.000	4.394	1.318	0.30689	0.08286	0.00834	0.398	0.183	3.105	0.000	0.000	3.105	0.932	0.006	0.010	0.0163	0.016
4	583817.52	4139214.79	0.00000	0.00000	0.00000	0.01790	0.00990	0.00691	0.00247	0.00009	0.00003	0.00000	0.00000	0.00000	2.94001	1.62604	0.17868	0.06387	0.00233	0.00078	0.00039	0.0188	0.032	0.28497	0.07852	0.00790	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0049	3.55847	3.51E-06	1.76E-04	0.00705	0.01088	8.655	0.079	0.008	0.007	0.011	8.759	2.701	4.812	0.000	0.000	4.812	1.444	0.28497	0.07852	0.00790	0.371	0.172	3.558	0.000	0.000	3.558	1.068	0.007	0.011	0.0179	0.018
5	583826.14	4139212.19	0.00000	0.00000	0.00000	0.01960	0.01082	0.00761	0.00273	0.00010	0.00003	0.00000	0.00000	0.00000	3.21923	1.77715	0.19678	0.07059	0.00259	0.00078	0.00037	0.0179	0.030	0.27036	0.07448	0.00749	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0056	4.05534	3.90E-06	1.96E-04	0.00784	0.01210	9.593	0.074	0.007	0.008	0.012	9.695	2.980	5.267	0.000	0.000	5.267	1.580	0.27036	0.07448	0.00749	0.352	0.163	4.055	0.000	0.000	4.055	1.217	0.008	0.012	0.0199	0.020
6	583834.75	4139209.60	0.00000	0.00000	0.00000	0.02144	0.01180	0.00837	0.00301	0.00010	0.00003	0.00000	0.00000	0.00000	3.52145	1.93811	0.21643	0.07783	0.00259	0.00078	0.00035	0.0170	0.029	0.25574	0.07080	0.00711	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0063	4.58144	4.55E-06	2.28E-04	0.00913	0.01407	10.594	0.071	0.007	0.009	0.014	10.695	3.279	5.757	0.000	0.000	5.757	1.727	0.25574	0.07080	0.00711	0.334	0.155	4.581	0.000	0.000	4.581	1.374	0.009	0.014	0.0232	0.023
7	583785.65	4139233.80	0.00000	0.00000	0.00000	0.01306	0.00732	0.00490	0.00173	0.00008	0.00002	0.00000	0.00000	0.00000	2.14506	1.20228	0.12670	0.04473	0.00207	0.00052	0.00050	0.0212	0.036	0.36535	0.08854	0.00892	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0029	2.11170	2.37E-06	1.19E-04	0.00476	0.00736	5.998	0.089	0.009	0.005	0.007	6.108	1.909	3.521	0.000	0.000	3.521	1.056	0.36535	0.08854	0.00892	0.463	0.207	2.112	0.000	0.000	2.112	0.634	0.005	0.007	0.0121	0.012
8	583794.26	4139231.20	0.00000	0.00000	0.00000	0.01433	0.00800	0.00543	0.00193	0.00008	0.00002	0.00000	0.00000	0.00000	2.35365	1.31397	0.14041	0.04991	0.00207	0.00052	0.00046	0.0208	0.036	0.33612	0.08674	0.00874	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0034	2.46243	2.74E-06	1.38E-04	0.00551	0.00851	6.659	0.087	0.009	0.006	0.009	6.769	2.107	3.861	0.000	0.000	3.861	1.158	0.33612	0.08674	0.00874	0.432	0.196	2.462	0.000	0.000	2.462	0.739	0.006	0.009	0.0140	0.014
9	583802.88	4139228.60	0.00000	0.00000	0.00000	0.01575	0.00877	0.00602	0.00215	0.00009	0.00002	0.00000	0.00000	0.00000	2.58688	1.44044	0.15566	0.05559	0.00233	0.00052	0.00043	0.0199	0.034	0.31420	0.08295	0.00835	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0039	2.84970	3.11E-06	1.56E-04	0.00625	0.00965	7.405	0.083	0.008	0.006	0.010	7.513	2.329	4.241	0.000	0.000	4.241	1.272	0.31420	0.08295	0.00835	0.405	0.186	2.850	0.000	0.000	2.850	0.855	0.006	0.010	0.0159	0.016
10	583811.50	4139226.01	0.00000	0.00000	0.00000	0.01732	0.00962	0.00668	0.00239	0.00009	0.00002	0.00000	0.00000	0.00000	2.84475	1.58005	0.17273	0.06180	0.00233	0.00052	0.00040	0.0189	0.032	0.29228	0.07865	0.00791	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0045	3.28812	3.45E-06	1.73E-04	0.00692	0.01068	8.243	0.079	0.008	0.00692	0.011	8.347	2.577	4.662	0.000	0.000	4.662	1.399	0.29228	0.07865	0.00791	0.379	0.174	3.288	0.000	0.000	3.288	0.986	0.007	0.011	0.0176	0.018
11	583820.12	4139223.41	0.00000	0.00000	0.00000	0.01905	0.01055	0.00740	0.00266	0.00009	0.00003	0.00000	0.00000	0.00000	3.12890	1.73280	0.19135	0.06878	0.00233	0.00078	0.00037	0.0178	0.030	0.27036	0.07443	0.00748	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0052	3.79229	3.77E-06	1.89E-04	0.00758	0.01170	9.188	0.074	0.007	0.008	0.012	9.289	2.857	5.125	0.000	0.000	5.125	1.537	0.27036	0.07443	0.00748	0.352	0.163	3.792	0.000	0.000	3.792	1.138	0.008	0.012	0.0193	0.019
12	583828.73	4139220.81	0.00000	0.00000	0.00000	0.02093	0.01156	0.00818	0.00295	0.00010	0.00003	0.00000	0.00000	0.00000	3.43768	1.89869	0.21151	0.07628	0.00259	0.00078	0.00035	0.0169	0.029	0.25574	0.07051	0.00708	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0060	4.36224	4.17E-06	2.09E-04	0.00837	0.01292	10.246	0.071	0.007	0.008	0.013	10.344	3.173	5.628	0.000	0.000	5.628	1.688	0.25574	0.07051	0.00708	0.333	0.154	4.362	0.000	0.000	4.362	1.309	0.008	0.013	0.0213	0.021
13	583837.35	4139218.22	0.00000	0.00000	0.00000	0.02296	0.01266	0.00903	0.00326	0.00010	0.00003	0.00000	0.00000	0.00000	3.77110	2.07936	0.23349	0.08430	0.00259	0.00078	0.00033	0.0161	0.027	0.24113	0.06701	0.00672	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0068	4.99063	4.79E-06	2.40E-04	0.00961	0.01481	11.403	0.067	0.007	0.010	0.015	11.502	3.519	6.172	0.000	0.000	6.172	1.851	0.24113	0.06701	0.00672	0.315	0.146	4.991	0.000	0.000	4.991	1.497	0.010	0.015	0.0244	0.024
14	583845.97	4139215.62	0.00000	0.00000	0.00000	0.02513	0.01382	0.00993	0.00360	0.00011	0.00003	0.00000	0.00000	0.00000	4.12752	2.26989	0.25677	0.09309	0.00284	0.00078	0.00032	0.0153	0.026	0.23382	0.06388	0.00640	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0075	5.48019	7.53E-06	3.76E-04	0.01513	0.02325	12.465	0.064	0.006	0.015	0.023	12.574	3.848	6.751	0.000	0.000	6.751	2.025	0.23382	0.06388	0.00640	0.304	0.140	5.480	0.000	0.000	5.480	1.644	0.015	0.023	0.0384	0.038

186	584121.61	4139402.60	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00140
187	584128.70	4139397.06	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00158
188	584135.79	4139391.51	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00174
189	584142.88	4139385.96	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00189
190	584149.96	4139380.42	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00201
191	584157.05	4139374.87	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00212
192	584112.98	4139420.78	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00132
193	584120.07	4139415.24	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00157
194	584127.16	4139409.69	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00179
195	584134.25	4139404.14	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00198
196	584141.33	4139398.60	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00215
197	584148.42	4139393.05	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00229
198	584155.51	4139387.51	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00241
199	584162.60	4139381.96	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00251
200	584118.53	4139427.87	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00187
201	584125.62	4139422.32	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00213
202	584132.70	4139416.78	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00234
203	584139.79	4139411.23	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00252
204	584146.88	4139405.69	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00267
205	584153.97	4139400.14	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00279
206	584161.06	4139394.59	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00289
207	584168.14	4139389.05	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00297
208	584124.07	4139434.96	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00286
209	584131.16	4139429.41	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00304
210	584138.25	4139423.87	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00318
211	584145.34	4139418.32	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00329
212	584152.43	4139412.77	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00338
213	584159.51	4139407.23	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00345
214	584166.60	4139401.68	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00351
215	584173.69	4139396.14	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00355
216	584092.34	4139379.79	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00055
217	584099.43	4139374.25	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00063
218	584106.52	4139368.70	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00072
219	584113.60	4139363.16	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00081
220	584120.69	4139357.61	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00090
221	584127.78	4139352.07	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00100
222	584134.87	4139346.52	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00109
223	584097.89	4139386.88	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00065
224	584104.97	4139381.34	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00075
225	584112.06	4139375.79	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00086
226	584119.15	4139370.25	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00097
227	584126.24	4139364.70	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00108
228	584133.33	4139359.15	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00118
229	584140.42	4139353.61	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00128
230	584098.22	4139397.64	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00069
231	584103.43	4139393.97	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00078
232	584110.52	4139388.43	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00091
233	584117.61	4139382.88	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00104
234	584124.70	4139377.33	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00117
235	584131.78	4139371.79	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00129
236	584138.87	4139366.24	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00141
237	584145.96	4139360.70	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00151
238	584179.51	4139343.08	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00202
239	584186.57	4139337.51	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00207
240	584193.64	4139331.93	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00212
241	584200.70	4139326.36	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00216
242	584207.77	4139320.78	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00220
243	584214.84	4139315.21	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00223
244	584221.90	4139309.63	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00225
245	584178.02	4139355.72	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00226
246	584185.08	4139350.15	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00231
247	584192.15	4139344.57	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00236
248	584199.21	4139339.00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00240
249	584206.28	4139333.42	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00244
250	584213.35	4139327.85	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00246
251	584220.41	4139322.27	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00249
252	584227.48	4139316.70	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00250
253	584183.59	4139362.79	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00260
254	584190.66	4139357.21	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00264
255	584197.72	4139351.64	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00268
256	584204.79	4139346.06	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00272
257	584211.85	4139340.49	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00274
258	584218.92	4139334.91	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00276
259	584225.99	4139329.34	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00278
260	584233.05	4139323.77	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00279
261	584189.16	4139369.85	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00299
262	584196.23	4139364.28	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00302
263	584203.30	4139358.70	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00305
264	584210.36	4139353.13	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00307
265	584217.43	4139347.56	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00309
266	584224.49	4139341.98	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00309
267	584231.56	4139336.41	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00310
268	584238.63	4139330.83	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00310
269	584194.74	4139376.92	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00344
270	584201.80	4139371.34	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00346
271	584208.87	4139365.77	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00347
272	584215.94	4139360.20	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00348
273	584223.00	4139354.62	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00347
274	584230.07	4139349.05	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00347
275	584237.13	4139343.47	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00346
276	584244.20	4139337.90	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00345
277	584155.72	4139327.46	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00127
278	584162.78	4139321.88	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00134
279	584169.85	4139316.31	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00140
280	584176.92	4139310.73	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00146
281	584183.98	4139305.16	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00151
282	584191.05	4139299.59	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00155
283	584198.11	4139294.01	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00159
284	584205.18	4139288.44	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00163
285	584161.29	4139334.52	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00147
286	584168.36	4139328.95	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00154
287	584175.42	4139323.37	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00160
288	584182.49	4139317.80	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00165
289	584189.56	4139312.23	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00170
290	584196.62	4139306.65	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00174
291	584203.69	4139301.08	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00178
292	584210.75	4139295.50	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00182
293	584166.87	4139341.59	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00170
294	584173.93	4139336.01	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00176
295	584181.00	4139330.44	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00182
296	584188.06	4139324.87	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00187
297	584195.13	4139319.29	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00192
298	584202.20	4139313.72	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00196
299	584209.26	4139308.14	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00199
300	584216.33	4139302.57	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00202
301	584172.44	4139348.65	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00196
302	584258.09	4139291.88	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00254
303	584265.06	4139286.19	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00253
304	584272.03	4139280.50	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00252
305	584279.01	4139274.80	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00251
306	584285.98	4139269.11	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00250
307	584292.95	4139263.42	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00248
308	584299.92	4139257.73	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00246
309	584306.89	4139252.04	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00244
310	584256.81	4139304.54	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00280
311	584263.78	4139298.85	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00279
312	584270.76	4139293.16	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00277
313	584277.73	4139287.47	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00276
314	584284.70	4139281.78	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00274
315	584291.67	4139276.08	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00272
316	584298.64	4139270.39	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00270
317	584305.61	4139264.70	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00267
318	584312.58	4139259.01	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00264
319	584262.50	4139311.52	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00308
320	584269.48	4139305.82	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00307
321	584276.45	4139300.13	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00304
322	584283.42	4139294.44	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00302
323	584290.39	4139288.75	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00299
324	584297.36	4139283.06	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00296
325	584304.33	4139277.36	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00293
326	584311.30	4139271.67	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00290
327	584268.20	4139318.49	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00340
328	584275.17	4139312.79	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00337
329	584282.14	4139307.10	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00334
330	584289.11	4139301.41	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00331
331	584296.08	4139295.72	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00327
332	584303.05	4139290.03	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00323
333	584310.02	4139284.34	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00319
334	584317.00	4139278.64	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00315
335	584280.86	4139319.77	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00372
336	584287.83	4139314.07	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00368
337	584294.80	4139308.38	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00363
338	584301.77	4139302.69	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00358
339	584308.75	4139297.00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00353
340	584315.72	4139291.31	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00348
341	584322.69	4139285.62	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00342
342	584300.49	4139315.35	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00399
343	584307.47	4139309.66	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00393
344	584314.44	4139303.97	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00387
345	584321.41	4139298.28	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00380
346	584318.63	4139308.69	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00413
347	584327.10	4139305.25	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00416
348	584228.35	4139269.69	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00173
349	584235.32	4139263.99	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00174
350	584242.30	4139258.30	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00176
351	584249.27	4139252.61	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00177
352	584256.24	4139246.92	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00178
353	584263.21	4139241.23	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00179
354	584270.18	4139235.53	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00179
355	584277.15	4139229.84	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00179
356	584284.12	4139224.15	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00179
357	584234.04	4139276.66	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00190
358	584241.02	4139270.97	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00192
359	584247.99	4139265.27	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00193
360	584254.96	4139259.58	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00193
361	584261.93	4139253.89	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00194
362	584268.90	4139248.20	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00194
363	584275.87	4139242.51	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00194
364	584282.85	4139236.81	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00194
365	584289.82	4139231.12	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00193
366	584239.74	4139283.63	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00209
367	584246.71	4139277.94	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00210
368	584253.68	4139272.25	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00211
369	584260.65	4139266.55	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00211
370	584267.62	4139260.86	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00211
371	584274.59	4139255.17	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00211
372	584281.57	4139249.48	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00211
373	584288.54	4139243.79	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00210
374	584295.51	4139238.09	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00209
375	584245.43	4139290.60	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00231
376	584252.40	4139284.91	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00231
377	584259.37	4139279.22	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00231
378	584266.34	4139273.53	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00231
379	584273.31	4139267.83	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00230
380	584280.29	4139262.14	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00230
381	584287.26	4139256.45	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00229
382	584294.23	4139250.76	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00227
383	584301.20	4139245.07	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00226
384	584251.12	4139297.57	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00254
		Max	**0.00000**	**0.00000**	**0.00000**	**0.50599**	**0.34488**	**0.13850**	**0.05729**	**0.00509**	**0.00416**

Google Middlefield - Project Impacts
Cancer Risk Calculations for Project Construction and Operation- with Mitigation
at On-Site Residential Receptors

Exposure Types and Durations (years) for Cancer Risk Calculations - Project Impacts

Exposure Type		2023	2024	2025	2026	2027	2028	2029	2030	2031	2026-2055			
	Year(s) ->	2023	2024	2025	2026	2027	2028	2029	2030	2031	2026-2055			
	Duration ->	1	1	1	1	1	1	1	1	1	29	29	29	29
	Activity ->	Construct	Construct	Construct	Construct	Construct	Construct	Construct	Construct	Construct	Local Roads	SR-237 Traffic	Generators Operation	Restaurants Operation
3rd Trimester (10)		0	0	0.25	0	0	0	0	0	0	0	0	0	0
Infant (10)		0	0	0	1	1	0	0	0	0	2	2	2	2
Child (3)		0	0	0	0	0	1	1	1	1	14	14	14	14
Adult (1)		0	0	0	0	0	0	0	0	0	14	14	14	14

Receptor No.	Receptor Coordinates UTM-X (m)	UTM-Y (m)	Desc	2023 Construct DPM	2024 Construct DPM	2025 Construct DPM	2026 Construct DPM	2027 Construct DPM	2028 Construct DPM	2029 Construct DPM	2030 Construct DPM	2031 Construct DPM	2023 Construct Risk	2024 Construct Risk	2025 Construct Risk	2026 Construct Risk	2027 Construct Risk	2028 Construct Risk	2029 Construct Risk	2030 Construct Risk	2031 Construct Risk
1	583791.67	4139222.58	Res-R1	0.00000	0.00000	0.00000	0.00181	0.00128	0.00103	0.00053	0.00005	0.00001	0.00000	0.00000	0.00000	0.29729	0.21024	0.02663	0.01370	0.00129	0.00026
2	583800.29	4139219.98	Res-R1	0.00000	0.00000	0.00000	0.00200	0.00141	0.00114	0.00058	0.00006	0.00002	0.00000	0.00000	0.00000	0.32849	0.23159	0.02948	0.01500	0.00155	0.00052
3	583808.90	4139217.39	Res-R1	0.00000	0.00000	0.00000	0.00220	0.00155	0.00126	0.00064	0.00006	0.00002	0.00000	0.00000	0.00000	0.36134	0.25458	0.03258	0.01655	0.00155	0.00052
4	583817.52	4139214.79	Res-R1	0.00000	0.00000	0.00000	0.00242	0.00170	0.00140	0.00071	0.00006	0.00002	0.00000	0.00000	0.00000	0.39748	0.27922	0.03620	0.01836	0.00155	0.00052
5	583826.14	4139212.19	Res-R1	0.00000	0.00000	0.00000	0.00266	0.00187	0.00154	0.00078	0.00007	0.00002	0.00000	0.00000	0.00000	0.43690	0.30714	0.03982	0.02017	0.00181	0.00052
6	583834.75	4139209.60	Res-R1	0.00000	0.00000	0.00000	0.00292	0.00205	0.00170	0.00086	0.00007	0.00002	0.00000	0.00000	0.00000	0.47960	0.33671	0.04396	0.02224	0.00181	0.00052
7	583785.65	4139233.80	Res-R1	0.00000	0.00000	0.00000	0.00174	0.00123	0.00098	0.00051	0.00005	0.00001	0.00000	0.00000	0.00000	0.28579	0.20202	0.02534	0.01319	0.00129	0.00026
8	583794.26	4139231.20	Res-R1	0.00000	0.00000	0.00000	0.00192	0.00135	0.00109	0.00056	0.00006	0.00002	0.00000	0.00000	0.00000	0.31535	0.22173	0.02818	0.01448	0.00155	0.00052
9	583802.88	4139228.60	Res-R1	0.00000	0.00000	0.00000	0.00212	0.00149	0.00121	0.00062	0.00006	0.00002	0.00000	0.00000	0.00000	0.34820	0.24473	0.03129	0.01603	0.00155	0.00052
10	583811.50	4139226.01	Res-R1	0.00000	0.00000	0.00000	0.00234	0.00165	0.00135	0.00069	0.00006	0.00002	0.00000	0.00000	0.00000	0.38434	0.27101	0.03491	0.01784	0.00155	0.00052
11	583820.12	4139223.41	Res-R1	0.00000	0.00000	0.00000	0.00258	0.00182	0.00150	0.00076	0.00006	0.00002	0.00000	0.00000	0.00000	0.42376	0.29893	0.03879	0.01965	0.00155	0.00052
12	583828.73	4139220.81	Res-R1	0.00000	0.00000	0.00000	0.00285	0.00201	0.00166	0.00084	0.00007	0.00002	0.00000	0.00000	0.00000	0.46810	0.33014	0.04292	0.02172	0.00181	0.00052
13	583837.35	4139218.22	Res-R1	0.00000	0.00000	0.00000	0.00314	0.00221	0.00184	0.00093	0.00007	0.00002	0.00000	0.00000	0.00000	0.51573	0.36298	0.04758	0.02405	0.00181	0.00052
14	583845.97	4139215.62	Res-R1	0.00000	0.00000	0.00000	0.00344	0.00242	0.00203	0.00102	0.00007	0.00002	0.00000	0.00000	0.00000	0.56501	0.39748	0.05249	0.02637	0.00181	0.00052
15	583788.24	4139242.41	Res-R1	0.00000	0.00000	0.00000	0.00183	0.00129	0.00104	0.00053	0.00005	0.00001	0.00000	0.00000	0.00000	0.30057	0.21188	0.02689	0.01370	0.00129	0.00026
16	583796.86	4139239.82	Res-R1	0.00000	0.00000	0.00000	0.00203	0.00143	0.00116	0.00059	0.00006	0.00002	0.00000	0.00000	0.00000	0.33342	0.23487	0.02999	0.01526	0.00155	0.00052
17	583805.48	4139237.22	Res-R1	0.00000	0.00000	0.00000	0.00225	0.00159	0.00130	0.00066	0.00006	0.00002	0.00000	0.00000	0.00000	0.36955	0.26115	0.03361	0.01707	0.00155	0.00052
18	583814.10	4139234.62	Res-R1	0.00000	0.00000	0.00000	0.00250	0.00176	0.00145	0.00073	0.00006	0.00002	0.00000	0.00000	0.00000	0.41062	0.28907	0.03749	0.01888	0.00155	0.00052
19	583822.71	4139232.03	Res-R1	0.00000	0.00000	0.00000	0.00277	0.00196	0.00162	0.00082	0.00006	0.00002	0.00000	0.00000	0.00000	0.45496	0.32192	0.04189	0.02120	0.00155	0.00052
20	583831.33	4139229.43	Res-R1	0.00000	0.00000	0.00000	0.00307	0.00216	0.00180	0.00091	0.00007	0.00002	0.00000	0.00000	0.00000	0.50424	0.35477	0.04654	0.02353	0.00181	0.00052
21	583839.95	4139226.83	Res-R1	0.00000	0.00000	0.00000	0.00339	0.00239	0.00200	0.00100	0.00007	0.00002	0.00000	0.00000	0.00000	0.55680	0.39255	0.05172	0.02586	0.00181	0.00052
22	583848.56	4139224.24	Res-R1	0.00000	0.00000	0.00000	0.00373	0.00263	0.00220	0.00110	0.00007	0.00002	0.00000	0.00000	0.00000	0.61264	0.43197	0.05689	0.02844	0.00181	0.00052
23	583790.84	4139251.03	Res-R1	0.00000	0.00000	0.00000	0.00193	0.00137	0.00110	0.00056	0.00005	0.00001	0.00000	0.00000	0.00000	0.31700	0.22502	0.02844	0.01448	0.00129	0.00026
24	583799.46	4139248.43	Res-R1	0.00000	0.00000	0.00000	0.00215	0.00152	0.00124	0.00063	0.00006	0.00002	0.00000	0.00000	0.00000	0.35313	0.24965	0.03206	0.01629	0.00155	0.00052
25	583808.08	4139245.84	Res-R1	0.00000	0.00000	0.00000	0.00240	0.00170	0.00139	0.00071	0.00006	0.00002	0.00000	0.00000	0.00000	0.39419	0.27922	0.03594	0.01836	0.00155	0.00052
26	583816.69	4139243.24	Res-R1	0.00000	0.00000	0.00000	0.00268	0.00189	0.00156	0.00079	0.00006	0.00002	0.00000	0.00000	0.00000	0.44018	0.31043	0.04034	0.02043	0.00155	0.00052
27	583825.31	4139240.64	Res-R1	0.00000	0.00000	0.00000	0.00299	0.00211	0.00175	0.00088	0.00007	0.00002	0.00000	0.00000	0.00000	0.49110	0.34656	0.04525	0.02275	0.00181	0.00052
28	583833.93	4139238.05	Res-R1	0.00000	0.00000	0.00000	0.00332	0.00235	0.00196	0.00098	0.00007	0.00002	0.00000	0.00000	0.00000	0.54530	0.38598	0.05068	0.02534	0.00181	0.00052
29	583842.54	4139235.45	Res-R1	0.00000	0.00000	0.00000	0.00368	0.00260	0.00218	0.00109	0.00007	0.00002	0.00000	0.00000	0.00000	0.60443	0.42704	0.05637	0.02818	0.00181	0.00052
30	583851.16	4139232.85	Res-R1	0.00000	0.00000	0.00000	0.00406	0.00286	0.00241	0.00120	0.00008	0.00002	0.00000	0.00000	0.00000	0.66684	0.46975	0.06232	0.03103	0.00207	0.00052
31	583793.44	4139259.65	Res-R1	0.00000	0.00000	0.00000	0.00204	0.00145	0.00117	0.00060	0.00006	0.00002	0.00000	0.00000	0.00000	0.33506	0.23816	0.03025	0.01551	0.00155	0.00052
32	583802.06	4139257.05	Res-R1	0.00000	0.00000	0.00000	0.00229	0.00162	0.00133	0.00067	0.00006	0.00002	0.00000	0.00000	0.00000	0.37612	0.26608	0.03439	0.01732	0.00155	0.00052
33	583810.67	4139254.45	Res-R1	0.00000	0.00000	0.00000	0.00257	0.00182	0.00150	0.00076	0.00006	0.00002	0.00000	0.00000	0.00000	0.42211	0.29893	0.03879	0.01965	0.00155	0.00052
34	583819.29	4139251.86	Res-R1	0.00000	0.00000	0.00000	0.00288	0.00204	0.00169	0.00085	0.00006	0.00002	0.00000	0.00000	0.00000	0.47303	0.33506	0.04370	0.02198	0.00155	0.00052
35	583827.91	4139249.26	Res-R1	0.00000	0.00000	0.00000	0.00323	0.00229	0.00191	0.00096	0.00007	0.00002	0.00000	0.00000	0.00000	0.53052	0.37612	0.04939	0.02482	0.00181	0.00052
36	583836.52	4139246.66	Res-R1	0.00000	0.00000	0.00000	0.00361	0.00255	0.00214	0.00107	0.00007	0.00002	0.00000	0.00000	0.00000	0.59293	0.41883	0.05534	0.02767	0.00181	0.00052
37	583845.14	4139244.07	Res-R1	0.00000	0.00000	0.00000	0.00401	0.00284	0.00239	0.00119	0.00007	0.00002	0.00000	0.00000	0.00000	0.65863	0.46646	0.06180	0.03077	0.00181	0.00052
38	583853.76	4139241.47	Res-R1	0.00000	0.00000	0.00000	0.00443	0.00313	0.00265	0.00132	0.00008	0.00002	0.00000	0.00000	0.00000	0.72761	0.51409	0.06852	0.03413	0.00207	0.00052
39	583796.03	4139268.27	Res-R1	0.00000	0.00000	0.00000	0.00217	0.00154	0.00125	0.00064	0.00006	0.00002	0.00000	0.00000	0.00000	0.35642	0.25294	0.03232	0.01655	0.00155	0.00052
40	583804.65	4139265.67	Res-R1	0.00000	0.00000	0.00000	0.00245	0.00174	0.00142	0.00072	0.00006	0.00002	0.00000	0.00000	0.00000	0.40240	0.28579	0.03672	0.01862	0.00155	0.00052
41	583813.27	4139263.07	Res-R1	0.00000	0.00000	0.00000	0.00276	0.00196	0.00162	0.00082	0.00006	0.00002	0.00000	0.00000	0.00000	0.45332	0.32192	0.04189	0.02120	0.00155	0.00052
42	583821.89	4139260.48	Res-R1	0.00000	0.00000	0.00000	0.00312	0.00221	0.00184	0.00093	0.00006	0.00002	0.00000	0.00000	0.00000	0.51245	0.36298	0.04758	0.02405	0.00155	0.00052
43	583830.50	4139257.88	Res-R1	0.00000	0.00000	0.00000	0.00351	0.00249	0.00208	0.00104	0.00007	0.00002	0.00000	0.00000	0.00000	0.57651	0.40897	0.05378	0.02689	0.00181	0.00052

Receptor No.	2026-2055 Local Roads- Project Traffic Concentration DPM	Exh TOG	Evap TOG	Cancer Risk (per million) DPM	Exh TOG	Evap TOG	2026-2055 State Route 237 Concentration DPM	Exh TOG	Evap TOG	Cancer Risk (per million) DPM	Exh TOG	Evap TOG	2026-2055 Project Generators Generator DPM	Cancer Risk	2026-2055 Project Restaurants Concentration PAHs	Naph	Cancer Risk (per million) PAHs	Naph
1	0.00048	0.0218	0.037	0.35073	0.09100	0.00917	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0032	2.31630	2.51E-06	1.26E-04	0.00505	0.00780
2	0.00044	0.0209	0.036	0.32150	0.08720	0.00878	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0037	2.68895	2.86E-06	1.43E-04	0.00574	0.00886
3	0.00042	0.0199	0.034	0.30689	0.08286	0.00834	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0043	3.10544	3.19E-06	1.60E-04	0.00640	0.00988
4	0.00039	0.0188	0.032	0.28497	0.07852	0.00790	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0049	3.55847	3.51E-06	1.76E-04	0.00705	0.01088
5	0.00037	0.0179	0.030	0.27036	0.07448	0.00749	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0056	4.05534	3.90E-06	1.96E-04	0.00784	0.01210
6	0.00035	0.0170	0.029	0.25574	0.07080	0.00711	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0063	4.58144	4.55E-06	2.28E-04	0.00913	0.01407
7	0.00050	0.0212	0.036	0.36535	0.08854	0.00892	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0029	2.11170	2.37E-06	1.19E-04	0.00476	0.00736
8	0.00046	0.0208	0.036	0.33612	0.08674	0.00874	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0034	2.46243	2.74E-06	1.38E-04	0.00551	0.00851
9	0.00043	0.0199	0.034	0.31420	0.08295	0.00835	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0039	2.84970	3.11E-06	1.56E-04	0.00625	0.00965
10	0.00040	0.0189	0.032	0.29228	0.07865	0.00791	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0045	3.28812	3.45E-06	1.73E-04	0.00692	0.01068
11	0.00037	0.0178	0.030	0.27036	0.07443	0.00748	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0052	3.79229	3.77E-06	1.89E-04	0.00758	0.01170
12	0.00035	0.0169	0.029	0.25574	0.07051	0.00708	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0060	4.36224	4.17E-06	2.09E-04	0.00837	0.01292
13	0.00033	0.0161	0.027	0.24113	0.06701	0.00672	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0068	4.99063	4.79E-06	2.40E-04	0.00961	0.01481
14	0.00032	0.0153	0.026	0.23382	0.06388	0.00640	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0075	5.48019	7.53E-06	3.76E-04	0.01513	0.02325
15	0.00049	0.0203	0.035	0.35804	0.08478	0.00854	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0030	2.19208	2.53E-06	1.27E-04	0.00507	0.00784
16	0.00044	0.0200	0.034	0.32150	0.08324	0.00838	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0035	2.54281	2.91E-06	1.46E-04	0.00584	0.00902
17	0.00041	0.0191	0.033	0.29958	0.07957	0.00801	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0040	2.93738	3.28E-06	1.65E-04	0.00659	0.01017
18	0.00038	0.0181	0.031	0.27766	0.07531	0.00757	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0047	3.40503	3.63E-06	1.82E-04	0.00729	0.01125
19	0.00036	0.0171	0.029	0.26305	0.07114	0.00715	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0055	3.98227	4.01E-06	2.01E-04	0.00805	0.01241
20	0.00034	0.0162	0.027	0.24844	0.06738	0.00676	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0064	4.69105	4.41E-06	2.21E-04	0.00886	0.01366
21	0.00032	0.0153	0.026	0.23382	0.06400	0.00642	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0075	5.48750	5.04E-06	2.53E-04	0.01013	0.01561
22	0.00030	0.0146	0.025	0.21921	0.06104	0.00611	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0082	5.95514	8.63E-06	4.31E-04	0.01733	0.02662
23	0.00048	0.0196	0.033	0.35073	0.08178	0.00824	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0030	2.21400	2.62E-06	1.31E-04	0.00526	0.00812
24	0.00043	0.0193	0.033	0.31420	0.08044	0.00810	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0035	2.55012	3.00E-06	1.50E-04	0.00602	0.00930
25	0.00040	0.0184	0.031	0.29228	0.07681	0.00773	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0040	2.93738	3.36E-06	1.69E-04	0.00675	0.01042
26	0.00037	0.0174	0.030	0.27036	0.07260	0.00730	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0047	3.44156	3.71E-06	1.86E-04	0.00745	0.01149
27	0.00035	0.0164	0.028	0.25574	0.06855	0.00689	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0057	4.14303	4.07E-06	2.04E-04	0.00818	0.01262
28	0.00033	0.0155	0.026	0.24113	0.06484	0.00651	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0070	5.11485	4.54E-06	2.28E-04	0.00912	0.01407
29	0.00031	0.0148	0.025	0.22651	0.06158	0.00617	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0085	6.18897	5.48E-06	2.74E-04	0.01100	0.01694
30	0.00029	0.0141	0.024	0.21190	0.05875	0.00588	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0089	6.48124	1.06E-05	5.31E-04	0.02132	0.03279
31	0.00047	0.0190	0.033	0.34343	0.07944	0.00800	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0030	2.17016	2.63E-06	1.32E-04	0.00529	0.00817
32	0.00043	0.0188	0.032	0.31420	0.07823	0.00787	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0034	2.47705	3.00E-06	1.51E-04	0.00603	0.00932
33	0.00039	0.0179	0.031	0.28497	0.07460	0.00751	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0039	2.84970	3.35E-06	1.68E-04	0.00672	0.01037
34	0.00036	0.0169	0.029	0.26305	0.07043	0.00708	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0046	3.38311	3.69E-06	1.85E-04	0.00740	0.01142
35	0.00034	0.0159	0.027	0.24844	0.06638	0.00667	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0059	4.31109	4.03E-06	2.02E-04	0.00810	0.01250
36	0.00032	0.0151	0.026	0.23382	0.06279	0.00630	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0080	5.84554	4.47E-06	2.24E-04	0.00898	0.01384
37	0.00030	0.0143	0.024	0.21921	0.05962	0.00597	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0102	7.42384	5.34E-06	2.68E-04	0.01073	0.01653
38	0.00029	0.0136	0.023	0.21190	0.05687	0.00569	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0096	7.00004	8.68E-06	4.34E-04	0.01744	0.02681
39	0.00047	0.0186	0.032	0.34343	0.07756	0.00781	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0028	2.07517	2.59E-06	1.30E-04	0.00519	0.00803
40	0.00042	0.0183	0.031	0.30689	0.07640	0.00769	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0032	2.35283	2.93E-06	1.47E-04	0.00589	0.00910
41	0.00038	0.0174	0.030	0.27766	0.07277	0.00732	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0037	2.69626	3.25E-06	1.63E-04	0.00652	0.01007
42	0.00036	0.0164	0.028	0.26305	0.06859	0.00689	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0045	3.25158	3.57E-06	1.79E-04	0.00717	0.01106
43	0.00033	0.0155	0.026	0.24113	0.06463	0.00649	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0063	4.62528	3.87E-06	1.94E-04	0.00777	0.01199

Receptor No.	Total - Cancer Risk, Cancer Risk (per million) DPM	Exh TOG	Evap TOG	PAHs	Naph	TOTAL	Total With MERV-13	Construction Risk - Total, Cancer Risk (per million) DPM	Exh TOG	Evap TOG	TOTAL	Total With MERV-13	Roads Risk -Total, Cancer Risk (per million) DPM	Exh TOG	Evap TOG	TOTAL	Total With MERV-13	Project Generators Risk - Total, Cancer Risk (per million) DPM	Exh TOG	Evap TOG	TOTAL	Total With MERV-13	Restaurants Risk - Total, Cancer Risk (per million) PAHs	Naph	TOTAL	Total With MERV-13
1	3.216	0.091	0.009	0.005	0.008	3.329	1.078	0.549	0.000	0.000	0.549	0.165	0.35073	0.09100	0.00917	0.451	0.205	2.316	0.000	0.000	2.316	0.695	0.005	0.008	0.0128	0.013
2	3.617	0.087	0.009	0.006	0.009	3.728	1.196	0.607	0.000	0.000	0.607	0.182	0.32150	0.08720	0.00878	0.417	0.192	2.689	0.000	0.000	2.689	0.807	0.006	0.009	0.0146	0.015
3	4.079	0.083	0.008	0.006	0.010	4.187	1.331	0.667	0.000	0.000	0.667	0.200	0.30689	0.08286	0.00834	0.398	0.183	3.105	0.000	0.000	3.105	0.932	0.006	0.010	0.0163	0.016
4	4.577	0.079	0.008	0.007	0.011	4.681	1.477	0.733	0.000	0.000	0.733	0.220	0.28497	0.07852	0.00790	0.371	0.172	3.558	0.000	0.000	3.558	1.068	0.007	0.011	0.0179	0.018
5	5.132	0.074	0.007	0.008	0.012	5.234	1.642	0.806	0.000	0.000	0.806	0.242	0.27036	0.07448	0.00749	0.352	0.163	4.055	0.000	0.000	4.055	1.217	0.008	0.012	0.0199	0.020
6	5.722	0.071	0.007	0.009	0.014	5.823	1.818	0.885	0.000	0.000	0.885	0.265	0.25574	0.07080	0.00711	0.334	0.155	4.581	0.000	0.000	4.581	1.374	0.009	0.014	0.0232	0.023
7	3.005	0.089	0.009	0.005	0.007	3.115	1.011	0.528	0.000	0.000	0.528	0.158	0.36535	0.08854	0.00892	0.463	0.207	2.112	0.000	0.000	2.112	0.634	0.005	0.007	0.0121	0.012
8	3.380	0.087	0.009	0.006	0.009	3.490	1.124	0.582	0.000	0.000	0.582	0.175	0.33612	0.08674	0.00874	0.432	0.196	2.462	0.000	0.000	2.462	0.739	0.006	0.009	0.0140	0.014
9	3.806	0.083	0.008	0.006	0.010	3.913	1.249	0.642	0.000	0.000	0.642	0.193	0.31420	0.08295	0.00835	0.405	0.186	2.850	0.000	0.000	2.850	0.855	0.006	0.010	0.0159	0.016
10	4.291	0.079	0.008	0.00692	0.011	4.395	1.391	0.710	0.000	0.000	0.710	0.213	0.29228	0.07865	0.00791	0.379	0.174	3.288	0.000	0.000	3.288	0.986	0.007	0.011	0.0176	0.018
11	4.846	0.074	0.007	0.008	0.012	4.947	1.555	0.783	0.000	0.000	0.783	0.235	0.27036	0.07443	0.00748	0.352	0.163	3.792	0.000	0.000	3.792	1.138	0.008	0.012	0.0193	0.019
12	5.483	0.071	0.007	0.008	0.013	5.582	1.744	0.865	0.000	0.000	0.865	0.260	0.25574	0.07051	0.00708	0.333	0.154	4.362	0.000	0.000	4.362	1.309	0.008	0.013	0.0213	0.021
13	6.184	0.067	0.007	0.010	0.015	6.283	1.953	0.953	0.000	0.000	0.953	0.286	0.24113	0.06701	0.00672	0.315	0.146	4.991	0.000	0.000	4.991	1.497	0.010	0.015	0.0244	0.024
14	6.758	0.064	0.006	0.015	0.023	6.866	2.136	1.044	0.000	0.000	1.044	0.313	0.23382	0.06388	0.00640	0.304	0.140	5.480	0.000	0.000	5.480	1.644	0.015	0.023	0.0384	0.038
15	3.105	0.085	0.009	0.005	0.008	3.211	1.038	0.555	0.000	0.000	0.555	0.166	0.35804	0.08478	0.00854	0.451	0.201	2.192	0.000	0.000	2.192	0.658	0.005	0.008	0.0129	0.013
16	3.480	0.083	0.008	0.006	0.009	3.586	1.150	0.616	0.000	0.000	0.616	0.185	0.32150	0.08324	0.00838	0.413	0.188	2.543	0.000	0.000	2.543	0.763	0.006	0.009	0.0149	0.015
17	3.920	0.080	0.008	0.007	0.010	4.025	1.280	0.683	0.000	0.000	0.683	0.205	0.29958	0.07957	0.00801	0.387	0.177	2.937	0.000	0.000	2.937	0.881	0.007	0.010	0.0168	0.017
18	4.441	0.075	0.008	0.007	0.011	4.542	1.434	0.758	0.000	0.000	0.758	0.227	0.27766	0.07531	0.00757	0.361	0.166	3.405	0.000	0.000	3.405	1.022	0.007	0.011	0.0185	0.019
19	5.087	0.071	0.007	0.008	0.012	5.186	1.625	0.842	0.000	0.000	0.842	0.253	0.26305	0.07114	0.00715	0.341	0.157	3.982	0.000	0.000	3.982	1.195	0.008	0.012	0.0205	0.020
20	5.871	0.067	0.007	0.009	0.014	5.968	1.858	0.931	0.000	0.000	0.931	0.279	0.24844	0.06738	0.00676	0.323	0.149	4.691	0.000	0.000	4.691	1.407	0.009	0.014	0.0225	0.023
21	6.751	0.064	0.006	0.010	0.016	6.847	2.121	1.029	0.000	0.000	1.029	0.309	0.23382	0.06400	0.00642	0.304	0.141	5.488	0.000	0.000	5.488	1.646	0.010	0.016	0.0257	0.026
22	7.307	0.061	0.006	0.017	0.027	7.418	2.303	1.132	0.000	0.000	1.132	0.340	0.21921	0.06104	0.00611	0.286	0.133	5.955	0.000	0.000	5.955	1.787	0.017	0.027	0.0439	0.044
23	3.151	0.082	0.008	0.005	0.008	3.255	1.049	0.586	0.000	0.000	0.586	0.176	0.35073	0.08178	0.00824	0.441	0.195	2.214	0.000	0.000	2.214	0.664	0.005	0.008	0.0134	0.013
24	3.518	0.080	0.008	0.006	0.009	3.621	1.159	0.653	0.000	0.000	0.653	0.196	0.31420	0.08044	0.00810	0.403	0.183	2.550	0.000	0.000	2.550	0.765	0.006	0.009	0.0153	0.015
25	3.959	0.077	0.008	0.007	0.010	4.061	1.290	0.730	0.000	0.000	0.730	0.219	0.29228	0.07681	0.00773	0.377	0.172	2.937	0.000	0.000	2.937	0.881	0.007	0.010	0.0172	0.017
26	4.525	0.073	0.007	0.007	0.011	4.624	1.456	0.813	0.000	0.000	0.813	0.244	0.27036	0.07260	0.00730	0.350	0.161	3.442	0.000	0.000	3.442	1.032	0.007	0.011	0.0189	0.019
27	5.307	0.069	0.007	0.008	0.013	5.403	1.688	0.908	0.000	0.000	0.908	0.272	0.25574	0.06855	0.00689	0.331	0.152	4.143	0.000	0.000	4.143	1.243	0.008	0.013	0.0208	0.021
28	6.366	0.065	0.007	0.009	0.014	6.460	2.004	1.010	0.000	0.000	1.010	0.303	0.24113	0.06484	0.00651	0.312	0.144	5.115	0.000	0.000	5.115	1.534	0.009	0.014	0.0232	0.023
29	7.534	0.062	0.006	0.011	0.017	7.630	2.356	1.118	0.000	0.000	1.118	0.336	0.22651	0.06158	0.00617	0.294	0.136	6.189	0.000	0.000	6.189	1.857	0.011	0.017	0.0279	0.028
30	7.926	0.059	0.006	0.021	0.033	8.044	2.496	1.233	0.000	0.000	1.233	0.370	0.21190	0.05875	0.00588	0.277	0.128	6.481	0.000	0.000	6.481	1.944	0.021	0.033	0.0541	0.054
31	3.135	0.079	0.008	0.005	0.008	3.236	1.041	0.621	0.000	0.000	0.621	0.186	0.34343	0.07944	0.00800	0.431	0.190	2.170	0.000	0.000	2.170	0.651	0.005	0.008	0.0135	0.013
32	3.487	0.078	0.008	0.006	0.009	3.589	1.148	0.696	0.000	0.000	0.696	0.209	0.31420	0.07823	0.00787	0.400	0.180	2.477	0.000	0.000	2.477	0.743	0.006	0.009	0.0154	0.015
33	3.916	0.075	0.008	0.007	0.010	4.015	1.274	0.782	0.000	0.000	0.782	0.234	0.28497	0.07460	0.00751	0.367	0.168	2.850	0.000	0.000	2.850	0.855	0.007	0.010	0.0171	0.017
34	4.522	0.070	0.007	0.007	0.011	4.618	1.453	0.876	0.000	0.000	0.876	0.263	0.26305	0.07043	0.00708	0.341	0.156	3.383	0.000	0.000	3.383	1.015	0.007	0.011	0.0188	0.019
35	5.543	0.066	0.007	0.008	0.012	5.636	1.756	0.983	0.000	0.000	0.983	0.295	0.24844	0.06638	0.00667	0.321	0.148	4.311	0.000	0.000	4.311	1.293	0.008	0.012	0.0206	0.021
36	7.176	0.063	0.006	0.009	0.014	7.268	2.245	1.097	0.000	0.000	1.097	0.329	0.23382	0.06279	0.00630	0.303	0.139	5.846	0.000	0.000	5.846	1.754	0.009	0.014	0.0228	0.023
37	8.863	0.060	0.006	0.011	0.017	8.956	2.752	1.220	0.000	0.000	1.220	0.366	0.21921	0.05962	0.00597	0.285	0.131	7.424	0.000	0.000	7.424	2.227	0.011	0.017	0.0273	0.027
38	8.559	0.057	0.006	0.017	0.027	8.666	2.674	1.347	0.000	0.000	1.347	0.404	0.21190	0.05687	0.00569	0.274	0.126	7.000	0.000	0.000	7.000	2.100	0.017	0.027	0.0442	0.044
39	3.079	0.078	0.008	0.005	0.008	3.177	1.022	0.660	0.000	0.000	0.660	0.198	0.34343	0.07756	0.00781	0.429	0.188	2.075	0.000	0.000	2.075	0.623	0.005	0.008	0.0132	0.013
40	3.405	0.076	0.008	0.006	0.009	3.504	1.121	0.746	0.000	0.000	0.746	0.224	0.30689	0.07640	0.00769	0.391	0.176	2.353	0.000	0.000	2.353	0.706	0.006	0.009	0.0150	0.015
41	3.814	0.073	0.007	0.007	0.010	3.911	1.241	0.840	0.000	0.000	0.840	0.252	0.27766	0.07277	0.00732	0.358	0.163	2.696	0.000	0.000	2.696	0.809	0.007	0.010	0.0166	0.017
42	4.464	0.069	0.007	0.007	0.011	4.557	1.433	0.949	0.000	0.000	0.949	0.285	0.26305	0.06859	0.00689	0.339	0.154	3.252	0.000	0.000	3.252	0.975	0.007	0.011	0.0182	0.018
43	5.935	0.065	0.006	0.008	0.012	6.026	1.871	1.068	0.000	0.000	1.068	0.321	0.24113	0.06463	0.00649	0.312	0.143	4.625	0.000	0.000	4.625	1.388	0.008	0.012	0.0198	0.020

186	584121.61	4139402.60	Res-R3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00093
187	584128.70	4139397.06	Res-R3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00105
188	584135.79	4139391.51	Res-R3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00116
189	584142.88	4139385.96	Res-R3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00125
190	584149.96	4139380.42	Res-R3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00133
191	584157.05	4139374.87	Res-R3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00141
192	584112.98	4139420.78	Res-R3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00088
193	584120.07	4139415.24	Res-R3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00104
194	584127.16	4139409.69	Res-R3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00119
195	584134.25	4139404.14	Res-R3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00132
196	584141.33	4139398.60	Res-R3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00142
197	584148.42	4139393.05	Res-R3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00152
198	584155.51	4139387.51	Res-R3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00160
199	584162.60	4139381.96	Res-R3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00166
200	584118.53	4139427.87	Res-R3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00124
201	584125.62	4139422.32	Res-R3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00141
202	584132.70	4139416.78	Res-R3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00156
203	584139.79	4139411.23	Res-R3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00167
204	584146.88	4139405.69	Res-R3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00177
205	584153.97	4139400.14	Res-R3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00185
206	584161.06	4139394.59	Res-R3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00192
207	584168.14	4139389.05	Res-R3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00197
208	584124.07	4139434.96	Res-R3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00190
209	584131.16	4139429.41	Res-R3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00202
210	584138.25	4139423.87	Res-R3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00211
211	584145.34	4139418.32	Res-R3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00218
212	584152.43	4139412.77	Res-R3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00224
213	584159.51	4139407.23	Res-R3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00229
214	584166.60	4139401.68	Res-R3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00233
215	584173.69	4139396.14	Res-R3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00236
216	584092.34	4139379.79	Res-R3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00036
217	584099.43	4139374.25	Res-R3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00042
218	584106.52	4139368.70	Res-R3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00048
219	584113.60	4139363.16	Res-R3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00054
220	584120.69	4139357.61	Res-R3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00060
221	584127.78	4139352.07	Res-R3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00066
222	584134.87	4139346.52	Res-R3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00072
223	584097.89	4139386.88	Res-R3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00043
224	584104.97	4139381.34	Res-R3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00050
225	584112.06	4139375.79	Res-R3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00057
226	584119.15	4139370.25	Res-R3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00064
227	584126.24	4139364.70	Res-R3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00071
228	584133.33	4139359.15	Res-R3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00078
229	584140.42	4139353.61	Res-R3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00085
230	584098.22	4139397.64	Res-R3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00046
231	584103.43	4139393.97	Res-R3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00052
232	584110.52	4139388.43	Res-R3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00060
233	584117.61	4139382.88	Res-R3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00069
234	584124.70	4139377.33	Res-R3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00077
235	584131.78	4139371.79	Res-R3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00086
236	584138.87	4139366.24	Res-R3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00093
237	584145.96	4139360.70	Res-R3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00100
238	584179.51	4139343.08	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00134
239	584186.57	4139337.51	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00138
240	584193.64	4139331.93	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00141
241	584200.70	4139326.36	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00143
242	584207.77	4139320.78	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00146
243	584214.84	4139315.21	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00148
244	584221.90	4139309.63	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00149
245	584178.02	4139355.72	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00150
246	584185.08	4139350.15	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00153
247	584192.15	4139344.57	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00157
248	584199.21	4139339.00	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00159
249	584206.28	4139333.42	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00162
250	584213.35	4139327.85	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00163
251	584220.41	4139322.27	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00165
252	584227.48	4139316.70	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00166
253	584183.59	4139362.79	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00172
254	584190.66	4139357.21	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00176
255	584197.72	4139351.64	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00178
256	584204.79	4139346.06	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00180
257	584211.85	4139340.49	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00182
258	584218.92	4139334.91	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00183
259	584225.99	4139329.34	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00184
260	584233.05	4139323.77	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00185
261	584189.16	4139369.85	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00198
262	584196.23	4139364.28	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00201
263	584203.30	4139358.70	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00202
264	584210.36	4139353.13	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00204
265	584217.43	4139347.56	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00205
266	584224.49	4139341.98	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00205
267	584231.56	4139336.41	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00206
268	584238.63	4139330.83	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00206
269	584194.74	4139376.92	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00229
270	584201.80	4139371.34	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00230
271	584208.87	4139365.77	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00230
272	584215.94	4139360.20	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00231
273	584223.00	4139354.62	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00231
274	584230.07	4139349.05	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00230
275	584237.13	4139343.47	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00230
276	584244.20	4139337.90	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00229
277	584155.72	4139327.46	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00084
278	584162.78	4139321.88	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00089
279	584169.85	4139316.31	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00093
280	584176.92	4139310.73	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00097
281	584183.98	4139305.16	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00100
282	584191.05	4139299.59	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00103
283	584198.11	4139294.01	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00106
284	584205.18	4139288.44	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00108
285	584161.29	4139334.52	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00097
286	584168.36	4139328.95	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00102
287	584175.42	4139323.37	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00106
288	584182.49	4139317.80	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00110
289	584189.56	4139312.23	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00113
290	584196.62	4139306.65	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00116
291	584203.69	4139301.08	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00118
292	584210.75	4139295.50	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00120
293	584166.87	4139341.59	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00113
294	584173.93	4139336.01	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00117
295	584181.00	4139330.44	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00121
296	584188.06	4139324.87	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00124
297	584195.13	4139319.29	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00127
298	584202.20	4139313.72	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00130
299	584209.26	4139308.14	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00132
300	584216.33	4139302.57	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00134
301	584172.44	4139348.65	Res-R4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00130
302	584258.09	4139291.88	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00168
303	584265.06	4139286.19	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00168
304	584272.03	4139280.50	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00167
305	584279.01	4139274.80	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00167
306	584285.98	4139269.11	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00166
307	584292.95	4139263.42	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00165
308	584299.92	4139257.73	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00163
309	584306.89	4139252.04	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00162
310	584256.81	4139304.54	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00186
311	584263.78	4139298.85	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00185
312	584270.76	4139293.16	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00184
313	584277.73	4139287.47	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00183
314	584284.70	4139281.78	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00182
315	584291.67	4139276.08	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00180
316	584298.64	4139270.39	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00179
317	584305.61	4139264.70	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00177
318	584312.58	4139259.01	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00175
319	584262.50	4139311.52	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00205
320	584269.48	4139305.82	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00203
321	584276.45	4139300.13	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00202
322	584283.42	4139294.44	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00200
323	584290.39	4139288.75	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00199
324	584297.36	4139283.06	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00197
325	584304.33	4139277.36	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00195
326	584311.30	4139271.67	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00192
327	584268.20	4139318.49	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00226
328	584275.17	4139312.79	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00224
329	584282.14	4139307.10	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00222
330	584289.11	4139301.41	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00220
331	584296.08	4139295.72	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00217
332	584303.05	4139290.03	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00215
333	584310.02	4139284.34	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00212
334	584317.00	4139278.64	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00209
335	584280.86	4139319.77	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00247
336	584287.83	4139314.07	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00244
337	584294.80	4139308.38	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00241
338	584301.77	4139302.69	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00238
339	584308.75	4139297.00	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00234
340	584315.72	4139291.31	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00231
341	584322.69	4139285.62	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00227
342	584300.49	4139315.35	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00265
343	584307.47	4139309.66	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00261
344	584314.44	4139303.97	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00257
345	584321.41	4139298.28	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00252
346	584318.63	4139308.69	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00274
347	584327.10	4139305.25	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00276
348	584228.35	4139269.69	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00115
349	584235.32	4139263.99	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00116
350	584242.30	4139258.30	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00117
351	584249.27	4139252.61	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00118
352	584256.24	4139246.92	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00118
353	584263.21	4139241.23	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00119
354	584270.18	4139235.53	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00119
355	584277.15	4139229.84	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00119
356	584284.12	4139224.15	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00119
357	584234.04	4139276.66	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00126
358	584241.02	4139270.97	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00127
359	584247.99	4139265.27	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00128
360	584254.96	4139259.58	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00128
361	584261.93	4139253.89	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00129
362	584268.90	4139248.20	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00129
363	584275.87	4139242.51	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00129
364	584282.85	4139236.81	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00129
365	584289.82	4139231.12	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00128
366	584239.74	4139283.63	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00139
367	584246.71	4139277.94	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00140
368	584253.68	4139272.25	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00140
369	584260.65	4139266.55	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00140
370	584267.62	4139260.86	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00140
371	584274.59	4139255.17	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00140
372	584281.57	4139249.48	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00140
373	584288.54	4139243.79	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00139
374	584295.51	4139238.09	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00139
375	584245.43	4139290.60	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00153
376	584252.40	4139284.91	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00153
377	584259.37	4139279.22	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00153
378	584266.34	4139273.53	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00153
379	584273.31	4139267.83	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00153
380	584280.29	4139262.14	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00152
381	584287.26	4139256.45	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00152
382	584294.23	4139250.76	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00151
383	584301.20	4139245.07	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00150
384	584251.12	4139297.57	Res-R5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00169
	Max			**0.00000**	**0.00000**	**0.00000**	**0.05838**	**0.04526**	**0.02637**	**0.01785**	**0.00341**	**0.00276**

Google Middlefield - District Utilities Construction and Project Operation Impacts
Total PM2.5 Concentrations - Project Impacts - Unmitigated
Off-Site Residential Receptors - 1st & 2nd Residential Level receptor heights

Receptor	UTM Coordinates (m)		Construction Total PM2.5 (Fugitive + Exhaust) Concentrations ($\mu g/m^3$)									Project Operation Local Roads	Project Generators	Cooling Tower	Char-broilers	Total Construction & Operation								
No.	UTM-X	UTM-Y	2023	2024	2025	2026	2027	2028	2029	2030	2031	2026	2026	2026	2026	2023	2024	2025	2026	2027	2028	2029	2030	2031
1	583674.05	4138932.37	0.06165	0.00521	0.02557	0.01163	0.00421	0.00175	0.00069	0.00008	0.00002	0.00504	0.00068	0.00378	0.00003	0.06165	0.00521	0.02557	0.02116	0.01374	0.01128	0.01022	0.00961	0.00955
2	583685.82	4138936.00	0.06960	0.00586	0.02769	0.01229	0.00446	0.00187	0.00074	0.00009	0.00002	0.00537	0.00071	0.004	0.00003	0.06960	0.00586	0.02769	0.02240	0.01457	0.01198	0.01085	0.01020	0.01013
3	583705.56	4138942.41	0.08613	0.00720	0.03176	0.01352	0.00492	0.00209	0.00083	0.00009	0.00003	0.00601	0.00076	0.00442	0.00003	0.08613	0.00720	0.03176	0.02474	0.01614	0.01331	0.01205	0.01131	0.01125
4	583715.08	4138945.35	0.09616	0.00799	0.03400	0.01418	0.00517	0.00221	0.00088	0.0001	0.00003	0.00633	0.00079	0.00464	0.00004	0.09616	0.00799	0.03400	0.02598	0.01697	0.01401	0.01268	0.01190	0.01183
5	583722.18	4138945.87	0.10388	0.00860	0.03570	0.01471	0.00537	0.00231	0.00091	0.0001	0.00003	0.00655	0.00081	0.0048	0.00004	0.10388	0.00860	0.03570	0.02691	0.01757	0.01451	0.01311	0.01230	0.01223
6	583727.20	4138939.64	0.10746	0.00888	0.03652	0.01514	0.00553	0.00237	0.00094	0.00011	0.00003	0.00653	0.00083	0.00487	0.00004	0.10746	0.00888	0.03652	0.02741	0.01780	0.01464	0.01321	0.01238	0.01230
7	583734.13	4138930.98	0.11227	0.00925	0.03762	0.01574	0.00576	0.00245	0.00097	0.00011	0.00003	0.00651	0.00086	0.00495	0.00004	0.11227	0.00925	0.03762	0.02810	0.01812	0.01481	0.01333	0.01247	0.01239
8	583740.36	4138923.02	0.11596	0.00956	0.03858	0.01629	0.00597	0.00252	0.001	0.00011	0.00003	0.00649	0.00088	0.00502	0.00005	0.11596	0.00956	0.03858	0.02873	0.01841	0.01496	0.01344	0.01255	0.01247
9	583745.55	4138915.57	0.11890	0.00979	0.03930	0.01677	0.00615	0.00258	0.00102	0.00012	0.00003	0.00645	0.0009	0.00508	0.00005	0.11890	0.00979	0.03930	0.02925	0.01863	0.01506	0.01350	0.01260	0.01251
10	583750.23	4138909.86	0.12193	0.01002	0.04003	0.0172	0.00631	0.00264	0.00105	0.00012	0.00003	0.00645	0.00092	0.00513	0.00005	0.12193	0.01002	0.04003	0.02975	0.01886	0.01519	0.01360	0.01267	0.01258
11	583755.59	4138902.41	0.12494	0.01025	0.04079	0.01772	0.0065	0.00271	0.00107	0.00012	0.00003	0.00642	0.00094	0.00518	0.00005	0.12494	0.01025	0.04079	0.03031	0.01909	0.01530	0.01366	0.01271	0.01262
12	583747.80	4138895.84	0.11298	0.00931	0.03829	0.01703	0.00624	0.00258	0.00102	0.00012	0.00003	0.00607	0.00091	0.00495	0.00005	0.11298	0.00931	0.03829	0.02901	0.01822	0.01456	0.01300	0.01210	0.01201
13	583757.15	4138883.72	0.11799	0.00969	0.03959	0.01792	0.00657	0.00269	0.00107	0.00012	0.00003	0.00606	0.00095	0.00504	0.00005	0.11799	0.00969	0.03959	0.03002	0.01867	0.01479	0.01317	0.01222	0.01213
14	583765.46	4138890.29	0.13104	0.01071	0.04230	0.01871	0.00687	0.00283	0.00113	0.00013	0.00004	0.00642	0.00098	0.00528	0.00005	0.13104	0.01071	0.04230	0.03144	0.01960	0.01556	0.01386	0.01286	0.01277
15	583771.18	4138882.33	0.13395	0.01092	0.04309	0.0193	0.00708	0.0029	0.00115	0.00013	0.00004	0.00641	0.001	0.00533	0.00005	0.13395	0.01092	0.04309	0.03209	0.01987	0.01569	0.01394	0.01292	0.01283
16	583776.72	4138875.93	0.13732	0.01117	0.04395	0.01988	0.00729	0.00298	0.00118	0.00014	0.00004	0.00642	0.00102	0.00539	0.00005	0.13732	0.01117	0.04395	0.03276	0.02017	0.01586	0.01406	0.01302	0.01292
17	583783.64	4138866.92	0.14080	0.01142	0.04492	0.02062	0.00756	0.00307	0.00122	0.00014	0.00004	0.00641	0.00105	0.00544	0.00005	0.14080	0.01142	0.04492	0.03357	0.02051	0.01602	0.01417	0.01309	0.01299
18	583788.14	4138861.04	0.14289	0.01158	0.04553	0.0211	0.00773	0.00312	0.00124	0.00015	0.00004	0.00641	0.00107	0.00548	0.00005	0.14289	0.01158	0.04553	0.03411	0.02074	0.01613	0.01425	0.01316	0.01305
19	583794.20	4138852.90	0.14542	0.01175	0.04631	0.02176	0.00796	0.0032	0.00128	0.00015	0.00004	0.0064	0.0011	0.00552	0.00005	0.14542	0.01175	0.04631	0.03483	0.02103	0.01627	0.01435	0.01322	0.01311
20	583714.91	4138939.46	0.09412	0.00784	0.03363	0.0142	0.00518	0.0022	0.00087	0.0001	0.00003	0.00619	0.00079	0.00459	0.00004	0.09412	0.00784	0.03363	0.02581	0.01679	0.01381	0.01248	0.01171	0.01164
21	583719.93	4138932.71	0.09715	0.00808	0.03436	0.0146	0.00533	0.00226	0.00089	0.0001	0.00003	0.00616	0.00081	0.00465	0.00004	0.09715	0.00808	0.03436	0.02626	0.01699	0.01392	0.01255	0.01176	0.01169
22	583725.30	4138925.27	0.10025	0.00832	0.03512	0.01505	0.0055	0.00232	0.00092	0.00011	0.00003	0.00613	0.00083	0.00471	0.00004	0.10025	0.00832	0.03512	0.02676	0.01721	0.01403	0.01263	0.01182	0.01174
23	583731.88	4138917.30	0.10433	0.00864	0.03611	0.01561	0.00571	0.0024	0.00095	0.00011	0.00003	0.00612	0.00085	0.00479	0.00004	0.10433	0.00864	0.03611	0.02741	0.01751	0.01420	0.01275	0.01191	0.01183
24	583737.24	4138909.69	0.10716	0.00886	0.03682	0.01608	0.00588	0.00246	0.00097	0.00011	0.00003	0.00609	0.00087	0.00484	0.00005	0.10716	0.00886	0.03682	0.02793	0.01773	0.01431	0.01282	0.01196	0.01188
25	583742.96	4138903.11	0.11071	0.00914	0.03769	0.01659	0.00608	0.00252	0.001	0.00012	0.00003	0.0061	0.00089	0.00491	0.00005	0.11071	0.00914	0.03769	0.02854	0.01803	0.01447	0.01295	0.01207	0.01198
26	583762.52	4138876.96	0.12087	0.00991	0.04034	0.01845	0.00676	0.00276	0.0011	0.00013	0.00004	0.00606	0.00097	0.00509	0.00005	0.12087	0.00991	0.04034	0.03062	0.01893	0.01493	0.01327	0.01230	0.01221
27	583768.41	4138869.87	0.12407	0.01015	0.04118	0.01903	0.00697	0.00283	0.00112	0.00013	0.00004	0.00607	0.00099	0.00514	0.00005	0.12407	0.01015	0.04118	0.03128	0.01922	0.01508	0.01337	0.01238	0.01229
28	583775.16	4138860.34	0.12692	0.01036	0.04200	0.01972	0.00721	0.00291	0.00116	0.00014	0.00004	0.00606	0.00102	0.00519	0.00005	0.12692	0.01036	0.04200	0.03204	0.01953	0.01523	0.01348	0.01246	0.01236
29	583781.04	4138853.42	0.12998	0.01058	0.04283	0.02032	0.00743	0.00298	0.00119	0.00014	0.00004	0.00607	0.00104	0.00524	0.00005	0.12998	0.01058	0.04283	0.03272	0.01983	0.01538	0.01359	0.01254	0.01244
30	583694.83	4138938.94	0.07659	0.00643	0.02946	0.01283	0.00466	0.00197	0.00078	0.00009	0.00003	0.00565	0.00073	0.00418	0.00003	0.07659	0.00643	0.02946	0.02342	0.01525	0.01256	0.01137	0.01068	0.01062
31	584511.66	4138899.64	0.13239	0.01122	0.06586	0.36558	0.089	0.03347	0.0134	0.0033	0.00092	0.01831	0.0032	0.0029	0.00006	0.13239	0.01122	0.06586	0.39005	0.11347	0.05794	0.03787	0.02777	0.02539
32	584507.85	4138883.72	0.13802	0.01164	0.06659	0.35902	0.08884	0.03267	0.01317	0.00317	0.00088	0.01707	0.00319	0.0029	0.00006	0.13802	0.01164	0.06659	0.38224	0.11206	0.05589	0.03639	0.02639	0.02410
33	584503.70	4138868.48	0.14330	0.01204	0.06738	0.35266	0.08863	0.03191	0.01295	0.00305	0.00085	0.01603	0.0032	0.00291	0.00006	0.14330	0.01204	0.06738	0.37486	0.11083	0.05411	0.03515	0.02525	0.02305
34	584500.23	4138850.13	0.14723	0.01233	0.06793	0.34311	0.08768	0.0309	0.01261	0.00291	0.0008	0.01496	0.0032	0.00292	0.00005	0.14723	0.01233	0.06793	0.36424	0.10881	0.05203	0.03374	0.02404	0.02193
35	584537.28	4138897.91	0.10867	0.00935	0.05993	0.33161	0.07904	0.03103	0.01219	0.00314	0.00088	0.01834	0.00298	0.00282	0.00006	0.10867	0.00935	0.05993	0.35581	0.10324	0.05523	0.03639	0.02734	0.02508
36	584533.13	4138879.91	0.11397	0.00975	0.06075	0.32686	0.07926	0.03036	0.01202	0.00303	0.00085	0.01691	0.003	0.00282	0.00006	0.11397	0.00975	0.06075	0.34965	0.10205	0.05315	0.03481	0.02582	0.02364
37	584527.93	4138865.02	0.11982	0.01021	0.06186	0.3246	0.07994	0.02994	0.01194	0.00294	0.00082	0.01593	0.00301	0.00283	0.00006	0.11982	0.01021	0.06186	0.34643	0.10177	0.05177	0.03377	0.02477	0.02265
38	583674.05	4138932.37	0.05903	0.00497	0.02477	0.01129	0.00407	0.0017	0.00067	0.00008	0.00002	0.00471	0.00069	0.00376	0.00002	0.05903	0.00497	0.02477	0.02047	0.01325	0.01088	0.00985	0.00926	0.00920
39	583685.82	4138936.00	0.06657	0.00559	0.02680	0.01193	0.00431	0.00181	0.00072	0.00008	0.00002	0.00503	0.00071	0.00398	0.00003	0.06657	0.00559	0.02680	0.02168	0.01406	0.01156	0.01047	0.00983	0.00977
40	583705.56	4138942.41	0.08220	0.00686	0.03072	0.01311	0.00475	0.00203	0.0008	0.00009	0.00003	0.0056	0.00077	0.00439	0.00003	0.08220	0.00686	0.03072	0.02390	0.01554	0.01282	0.01159	0.01088	0.01082
41	583715.08	4138945.35	0.09140	0.00759	0.03286	0.01374	0.00499	0.00214	0.00085	0.0001	0.00003	0.0059	0.00079	0.00461	0.00003	0.09140	0.00759	0.03286	0.02507	0.01632	0.01347	0.01218	0.01143	0.01136
42	583722.18	4138945.87	0.09865	0.00817	0.03449	0.01426	0.00519	0.00223	0.00088	0.0001	0.00003	0.0061	0.00082	0.00477	0.00004	0.09865	0.00817	0.03449	0.02599	0.01692	0.01396	0.01261	0.01183	0.01176
43	583727.20	4138939.64	0.10203	0.00844	0.03528	0.01467	0.00535	0.00229	0.00091	0.0001	0.00003	0.0061	0.00084	0.00484	0.00004	0.10203	0.00844	0.03528	0.02649	0.01717	0.01411	0.01273	0.01192	0.01185
44	583734.13	4138930.98	0.10656	0.00879	0.03635	0.01525	0.00557	0.00237	0.00094	0.00011	0.00003	0.00608	0.00086	0.00492	0.00004	0.10656	0.00879	0.03635	0.02715	0.01747	0.01427	0.01284	0.01201	0.01193
45	583740.36	4138923.02	0.11043	0.00909	0.03728	0.01579	0.00577	0.00244	0.00097	0.00011	0.00003	0.00607	0.00089	0.00499	0.00004	0.11043	0.00909	0.03728	0.02778	0.01776	0.01443	0.01296	0.01210	0.01202
46	583745.55	4138915.57	0.11325	0.00931	0.03798	0.01625	0.00595	0.0025	0.00099	0.00011	0.00003	0.00604	0.00091	0.00505	0.00004	0.11325	0.00931	0.03798	0.02829	0.01799	0.01454	0.01303	0.01215	0.01207
47	583750.23	4138909.86	0.11613	0.00953	0.03868	0.01667	0.0061	0.00255	0.00101	0.00012	0.00003	0.00604	0.00093	0.0051	0.00004	0.11613	0.00953	0.03868	0.02878	0.01821	0.01466	0.01312	0.01223	0.01214
48	583755.59	4138902.41	0.11901	0.00975	0.03941	0.01718	0.00629	0.00262	0.00104	0.00012	0.00003	0.00602	0.00095	0.00515	0.00004	0.11901	0.00975	0.03941	0.02934	0.01845	0.01478	0.01320	0.01228	0.01219
49	583747.80	4138895.84	0.10776	0.00886	0.03703	0.01652	0.00604	0.0025	0.00099	0.00012	0.00003	0.0057	0.00092	0.00492	0.00004	0.10776	0.00886	0.03703	0.02810	0.01762	0.01408	0.01257	0.01170	0.01161
50	583757.15	4138883.72	0.11254	0.00923	0.03828	0.01738	0.00636	0.0026	0.00103	0.00012	0.00003	0.00569	0.00095	0.00501	0.00004	0.11254	0.00923	0.03828	0.02907	0.01805	0.01429	0.01272	0.01181	0.01172
51	583765.46	4138890.29	0.12484	0.01019	0.04088	0.01814	0.00664	0.00274	0.00109	0.00013	0.00003	0.00603	0.00099	0.00525	0.00004	0.12484	0.01019	0.04088	0.03045	0.01895	0.01505	0.01340	0.01244	0.01234
52	583771.18	4138882.33	0.12764	0.01040	0.04164	0.01871	0.00685	0.00281	0.00112	0.00013	0.00004	0.00602	0.00101	0.0053	0.00004	0.12764	0.01040	0.04164	0.03108	0.01922	0.01518	0.01349	0.01250	0.01241
53	583776.72	4138875.93	0.13089	0.01064	0.04247	0.01928	0.00706	0.00288	0.00115	0.00013	0.00004	0.00603	0.00103	0.00535	0.00004	0.13089	0.01064	0.04247	0.03173	0.01951	0.01533	0.01360	0.01258	0.01249
54	583783.64	4138866.92	0.13426	0.01089	0.04341	0.02	0.00731	0.00297	0.00118	0.00014	0.00004	0.00603	0.00106	0.00541	0.00004	0.13426	0.01089	0.04341	0.03254	0.01985	0.01551	0.01372	0.01268	0.01258
55	583788.14	4138861.04	0.13630	0.01103	0.04400	0.02047	0.00748	0.00302	0.0012	0.00014	0.00004	0.00603	0.00108	0.00544	0.00004	0.13630	0.01103	0.04400	0.03306	0.02007	0.01561	0.01379	0.01273	0.01263
56	583794.20	4138852.90	0.13879	0.01121	0.04475	0.02111	0.00771	0.0031	0.00124	0.00015	0.00004	0.00602	0.0011	0.00548	0.00004	0.13879	0.01121	0.04475	0.03375	0.02035	0.01574	0.01388	0.01279	0.01268
57	583714.91	4138939.46	0.08976	0.00746	0.03251	0.01376	0.005	0.00213	0.00084	0.0001	0.00003	0.00577	0.00079	0.00457	0.00004	0.08976	0.00746	0.03251	0.02493	0.01617	0.01330	0.01201	0.01127	0.01120
58	583719.93	4138932.71	0.09265	0.00769	0.03323	0.01416	0.00515	0.00219	0.00087	0.0001	0.00003	0.00575	0.00081	0.00462	0.00004	0.09265	0.00769	0.03323	0.02538	0.01637	0.01341	0.01209	0.01132	0.01125
59	583725.30	4138925.27	0.09562	0.00792	0.03396	0.01459	0.00532	0.00224	0.00089	0.0001	0.00003	0.00573	0.00083	0.00468	0.00004	0.09562	0.00792	0.03396	0.02587	0.01660	0.01352	0.01217	0.01138	0.01131
60	583731.88	4138917.30	0.09950	0.00823	0.03492	0.01513	0.00552	0.00232	0.00092	0.00011	0.00003	0.00573	0.00086	0.00476	0.00004	0.09950	0.00823	0.03492	0.02652	0.01691	0.01371	0.01231	0.01150	0.01142
61	583737.24	4138909.69	0.10221	0.00843	0.03561	0.01559	0.00569	0.00238	0.00094	0.00011	0.00003	0.00571	0.00088	0.00481	0.00004	0.10221	0.00843	0.03561	0.02703	0.01713	0.01382	0.01238	0.01155	0.01147
62	583742.96	4138903.11	0.10559	0.00870	0.03645	0.01608	0.00588	0.00244	0.00097	0.00011	0.00003	0.00572	0.0009	0.00488	0.00004	0.10559	0.00870	0.03645	0.02762	0.01742	0.01398	0.01251	0.01165	0.01157
63	583762.52	4138876.96	0.11530	0.00944	0.03901	0.01789	0.00654	0.00267	0.00106	0.00013	0.00003	0.0057	0.00097	0.00506	0.00004	0.11530	0.00944	0.03901	0.02966	0.01831	0.01444	0.01283	0.01190	0.01180
64	583768.41	4138869.87	0.11837	0.00967	0.03982	0.01846	0.00675	0.00274	0.00109	0.00013	0.00004	0.00571	0.001	0.00511	0.00004	0.11837	0.00967	0.03982	0.03032	0.01861	0.01460	0.01295	0.01199	0.01190
65	583775.16	4138860.34	0.12112	0.00988	0.04062	0.01913	0.00698	0.00282	0.00112	0.00013	0.00004	0.0057	0.00102	0.00516	0.00004	0.12112	0.00988	0.04062	0.03105	0.01890	0.01474	0.01304	0.01205	0.01196
66	583781.04	4138853.42	0.12408	0.01010	0.04142	0.01972	0.0072	0.00289	0.00115	0.00014	0.00004	0.00571	0.00105	0.00521	0.00004	0.12408	0.01010	0.04142	0.03173	0.01921	0.01490	0.01316	0.01215	0.01205
67	583694.83	4138938.94	0.07319	0.00613	0.02851	0.01245	0.0045	0.00191	0.00075	0.00009	0.00002	0.00528	0.00074	0.00416	0.00003	0.07319	0.00613	0.02851	0.02266	0.01471	0.01212	0.01096	0.01030	0.01023
68	584511.66	4138899.64	0.12627	0.01069	0.06399	0.35479	0.08609	0.03248	0.01298	0.00321	0.0009	0.01715	0.00318	0.00282	0.00006	0.12627	0.01069	0.06399	0.37800	0.10930	0.05569	0.03619	0.02642	0.02411
69	584507.85	4138883.72	0.13163	0.01109	0.06472	0.34848	0.08593	0.03171	0.01276	0.00309	0.00086	0.01605	0.00318	0.00282	0.00006	0.13163	0.01109	0.06472	0.37059	0.10804	0.05382	0.03487	0.02520	0.02297
70	584503.70	4138868.48	0.13664	0.01148	0.06547	0.34233	0.08574	0.03097	0.01254	0.00297	0.00082	0.01511	0.00318	0.00283	0.00005	0.13664	0.01148	0.06547	0.36350	0.10691	0.05214	0.03371	0.02414	0.02199
71	584500.23	4138850.13	0.14050	0.01177	0.06605	0.33333	0.08489	0.03001	0.01223	0.00284	0.00079	0.01416	0.00318	0.00285	0.00005	0.14050	0.01177	0.06605	0.35357	0.10513	0.05025	0.03247	0.02308	0.02103
72	584537.28	4138897.91	0.10401	0.00894	0.05825	0.322	0.0765	0.03012	0.01181	0.00307	0.00086	0.01713	0.00296	0.00273	0.00006	0.10401	0.00894	0.05825	0.34488	0.09938	0.05300	0.03469	0.02595	0.02374
73	584533.13	4138879.91	0.10907	0.00932	0.05907	0.31747	0.07672	0.02948	0.01165	0.00295	0.00083	0.01589	0.00299	0.00273	0.00006	0.10907	0.00932	0.05907	0.33914	0.09839	0.05115	0.03332	0.02462	0.02250
74	584527.93	4138865.02	0.11474	0.00976	0.06018	0.31552	0.07742	0.0291	0.01159	0.00287	0.0008	0.01505	0.00299	0.00275	0.00005	0.11474	0.00976	0.06018	0.33636	0.09826	0.04994	0.03243	0.02371	0.02164
75	583484.36	4139204.52	0.01591	0.00130	0.00676	0.00718	0.00256	0.00079	0.00032	0.00005	0.00001	0.00643	0.00039	0.00153	0.00001	0.01591	0.00130	0.00676	0.01554	0.01092	0.00915	0.00868	0.00841	0.00837
76	583493.96	4139201.73	0.01656	0.00135	0.00709	0.0073	0.00261	0.00081	0.00033	0.00005	0.00001	0.00771	0.0004	0.00159	0.00002	0.01656	0.00135	0.00709	0.01702	0.01233	0.01053	0.01005	0.00977	0.00973
77	583503.57	4139198.94	0.01727	0.00142	0.00746	0.00743	0.00266	0.00083	0.00034	0.00005	0.00001	0.00895	0.0004	0.00165	0.00002	0.01727	0.00142	0.00746	0.01845	0.01368	0.01185	0.01136	0.01107	0.01103
78	583513.17	4139196.15	0.01804	0.00149	0.00788	0.00757	0.00272	0.00086	0.00035	0.00005	0.00001	0.01007	0.00041	0.00171	0.00002	0.01804	0.00149	0.00788	0.01978	0.01493	0.01307	0.01256	0.01226	0.01222
79	583522.77	4139193.37	0.01889	0.00156	0.00836	0.00772	0.00278	0.00088	0.00036	0.00005	0.00001	0.01106	0.00042	0.00178	0.00002	0.01889	0.00156	0.00836	0.02100	0.01606	0.01416	0.01364	0.01333	0.01329
80	583532.38	4139190.58	0.01982	0.00165	0.00889	0.00787	0.00284	0.00091	0.00037	0.00005	0.00001	0.01192	0.00042	0.00186	0.00002	0.01982	0.00165	0.00889	0.02209	0.01706	0.01513	0.01459	0.01427	0.01423
81	583541.98	4139187.79	0.02083	0.00174	0.00948	0.00803	0.0029	0.00094	0.00038	0.00005	0.00001	0.01261	0.00043	0.00195	0.00002	0.02083	0.00174	0.00948	0.02304	0.01791	0.01595	0.01539	0.01506	0.01502
82	583487.15	4139214.12	0.01652	0.00134	0.00688	0.00732	0.00261	0.0008	0.00033	0.00005	0.00001	0.00787	0.00039	0.00154	0.00002	0.01652	0.00134	0.00688	0.01714	0.01243	0.01062	0.01015	0.00987	0.00983
83	583496.75	4139211.33	0.01722	0.00141	0.00720	0.00745	0.00266	0.00083	0.00034	0.00005	0.00001	0.00946	0.0004	0.0016	0.00002	0.01722	0.00141	0.00720	0.01893	0.01414	0.01231	0.01182	0.01153	0.01149
84	583506.36	4139208.55	0.01797	0.00147	0.00757	0.00759	0.00271	0.00085	0.00034	0.00005	0.00001	0.01094	0.00041	0.00166	0.00002	0.01797	0.00147	0.00757	0.02062	0.01574	0.01388	0.01337	0.01308	0.01304
85	583515.96	4139205.76	0.01878	0.00154	0.00799	0.00773	0.00277	0.00087	0.00035	0.00005	0.00001	0.0122	0.00041	0.00172	0.00002	0.01878	0.00154	0.00799	0.02208	0.01712	0.01522	0.01470	0.01440	0.01436
86	583525.56	4139202.97	0.01968	0.00162	0.00845	0.00788	0.00283	0.0009	0.00036	0.00005	0.00001	0.01326	0.00042	0.0018	0.00002	0.01968	0.00162	0.00845	0.02338	0.01833	0.01640	0.01586	0.01555	0.01551
87	583535.17	4139200.18	0.02065	0.00171	0.00898	0.00803	0.00289	0.00093	0.00038	0.00006	0.00001	0.01414	0.00043	0.00187	0.00002	0.02065	0.00171	0.00898	0.02449	0.01935	0.01739	0.01684	0.01652	0.01647
88	583544.77	4139197.39	0.02172	0.00181	0.00957	0.0082	0.00296	0.00096	0.00039	0.00006	0.00002	0.01485	0.00044	0.00196	0.00002	0.02172	0.00181	0.00957	0.02547	0.02023	0.01823	0.01766	0.01733	0.01729
89	583489.94	4139223.73	0.01719	0.00140	0.00701	0.00747	0.00266	0.00082	0.00033	0.00005	0.00001	0.00995	0.0004	0.00155	0.00002	0.01719	0.00140	0.00701	0.01939	0.01458	0.01274	0.01225	0.01197	0.01193
90	583499.54	4139220.94	0.01793	0.00146	0.00733	0.0076	0.00271	0.00084	0.00034	0.00005	0.00001	0.01194	0.00041	0.00161	0.00002	0.01793	0.00146	0.00733	0.02158	0.01669	0.01482	0.01432	0.01403	0.01399
91	583509.14	4139218.15	0.01872	0.00153	0.00769	0.00774	0.00276	0.00086	0.00035	0.00005	0.00001	0.01364	0.00041	0.00167	0.00002	0.01872	0.00153	0.00769	0.02348	0.01850	0.01660	0.01609	0.01579	0.01575
92	583518.75	4139215.36	0.01959	0.00161	0.00810	0.00789	0.00282	0.00089	0.00036	0.00005	0.00001	0.01502	0.00042	0.00174	0.00002	0.01959	0.00161	0.00810	0.02509	0.02002	0.01809	0.01756	0.01725	0.01721
93	583528.35	4139212.57	0.02052	0.00169	0.00857	0.00804	0.00288	0.00092	0.00037	0.00006	0.00002	0.01611	0.00042	0.00181	0.00002	0.02052	0.00169	0.00857	0.02640	0.02124	0.01928	0.01873	0.01842	0.01838
94	583537.95	4139209.79	0.02156	0.00178	0.00909	0.0082	0.00295	0.00094	0.00038	0.00006	0.00002	0.017	0.00043	0.00189	0.00002	0.02156	0.00178	0.00909	0.02754	0.02229	0.02028	0.01972	0.01940	0.01936
95	583547.56	4139207.00	0.02271	0.00188	0.00969	0.00838	0.00302	0.00098	0.0004	0.00006	0.00002	0.01775	0.00044	0.00197	0.00002	0.02271	0.00188	0.00969	0.02856	0.02320	0.02116	0.02058	0.02024	0.02020
96	583492.73	4139233.33	0.01790	0.00145	0.00716	0.00762	0.00271	0.00084	0.00034	0.00005	0.00001	0.01308	0.00041	0.00157	0.00002	0.01790	0.00145	0.00716	0.02270	0.01779	0.01592	0.01542	0.01513	0.01509
97	583502.33	4139230.54	0.01869	0.00152	0.00748	0.00776	0.00276	0.00086	0.00035	0.00005	0.00001	0.0155	0.00041	0.00162	0.00002	0.01869	0.00152	0.00748	0.02531	0.02031	0.01841	0.01790	0.01760	0.01756
98	583511.93	4139227.75	0.01954	0.00159	0.00784	0.0079	0.00282	0.00088	0.00036	0.00006	0.00002	0.01739	0.00042	0.00168	0.00002	0.01954	0.00159	0.00784	0.02741	0.02233	0.02039	0.01987	0.01957	0.01953
99	583521.54	4139224.97	0.02045	0.00167	0.00824	0.00805	0.00288	0.00091	0.00037	0.00006	0.00002	0.01881	0.00043	0.00175	0.00002	0.02045	0.00167	0.00824	0.02906	0.02389	0.02192	0.02138	0.02107	0.02103
100	583531.14	4139222.18	0.02145	0.00176	0.00870	0.00821	0.00294	0.00093	0.00038	0.00006	0.00002	0.0199	0.00043	0.00182	0.00002	0.02145	0.00176	0.00870	0.03038	0.02511	0.02310	0.02255	0.02223	0.02219
101	583540.74	4139219.39	0.02256	0.00186	0.00923	0.00838	0.00301	0.00096	0.00039	0.00006	0.00002	0.02082	0.00044	0.0019	0.00002	0.02256	0.00186	0.00923	0.03156	0.02619	0.02414	0.02357	0.02324	0.02320
102	583550.35	4139216.60	0.02381	0.00197	0.00983	0.00856	0.00308	0.001	0.0004	0.00006	0.00002	0.02163	0.00045	0.00199	0.00002	0.02381	0.00197	0.00983	0.03265	0.02717	0.02509	0.02449	0.02415	0.02411
103	583495.51	4139242.93	0.01866	0.00151	0.00732	0.00778	0.00276	0.00085	0.00035	0.00005	0.00001	0.01789	0.00041	0.00158	0.00002	0.01866	0.00151	0.00732	0.02768	0.02266	0.02075	0.02025	0.01995	0.01991
104	583505.12	4139240.15	0.01951	0.00158	0.00764	0.00792	0.00281	0.00088	0.00036	0.00006	0.00002	0.02069	0.00042	0.00164	0.00002	0.01951	0.00158	0.00764	0.03069	0.02558	0.02365	0.02313	0.02283	0.02279
105	583514.72	4139237.36	0.02041	0.00166	0.00800	0.00807	0.00287	0.0009	0.00037	0.00006	0.00002	0.02267	0.00043	0.0017	0.00002	0.02041	0.00166	0.00800	0.03289	0.02769	0.02572	0.02519	0.02488	0.02484
106	583524.32	4139234.57	0.02139	0.00174	0.00840	0.00822	0.00293	0.00092	0.00038	0.00006	0.00002	0.02407	0.00043	0.00176	0.00002	0.02139	0.00174	0.00840	0.03450	0.02921	0.02720	0.02666	0.02634	0.02630
107	583533.93	4139231.78	0.02246	0.00184	0.00885	0.00838	0.003	0.00095	0.00039	0.00006	0.00002	0.02511	0.00044	0.00184	0.00002	0.02246	0.00184	0.00885	0.03579	0.03041	0.02836	0.02780	0.02747	0.02743
108	583543.53	4139228.99	0.02368	0.00194	0.00939	0.00856	0.00307	0.00098	0.0004	0.00006	0.00002	0.02619	0.00045	0.00192	0.00002	0.02368	0.00194	0.00939	0.03714	0.03165	0.02956	0.02898	0.02864	0.02860
109	583553.13	4139226.20	0.02502	0.00206	0.01000	0.00875	0.00315	0.00102	0.00041	0.00006	0.00002	0.02707	0.00046	0.00201	0.00002	0.02502	0.00206	0.01000	0.03831	0.03271	0.03058	0.02997	0.02962	0.02958
110	583498.30	4139252.54	0.01951	0.00158	0.00752	0.00794	0.00281	0.00087	0.00035	0.00006	0.00002	0.02557	0.00042	0.0016	0.00002	0.01951	0.00158	0.00752	0.03555	0.03042	0.02848	0.02796	0.02767	0.02763
111	583507.91	4139249.75	0.02040	0.00165	0.00783	0.00808	0.00287	0.00089	0.00036	0.00006	0.00002	0.02834	0.00043	0.00165	0.00002	0.02040	0.00165	0.00783	0.03852	0.03331	0.03133	0.03080	0.03050	0.03046
112	583517.51	4139246.96	0.02136	0.00173	0.00818	0.00824	0.00292	0.00092	0.00037	0.00006	0.00002	0.03021	0.00044	0.00171	0.00002	0.02136	0.00173	0.00818	0.04062	0.03530	0.03330	0.03275	0.03244	0.03240
113	583527.11	4139244.17	0.02241	0.00182	0.00858	0.00839	0.00299	0.00094	0.00038	0.00006	0.00002	0.03153	0.00044	0.00178	0.00002	0.02241	0.00182	0.00858	0.04216	0.03676	0.03471	0.03415	0.03383	0.03379
114	583536.72	4139241.38	0.02358	0.00192	0.00904	0.00856	0.00306	0.00097	0.00039	0.00006	0.00002	0.03268	0.00045	0.00185	0.00002	0.02358	0.00192	0.00904	0.04356	0.03806	0.03597	0.03539	0.03506	0.03502
115	583546.32	4139238.60	0.02490	0.00204	0.00958	0.00875	0.00313	0.001	0.00041	0.00006	0.00002	0.03402	0.00046	0.00194	0.00002	0.02490	0.00204	0.00958	0.04519	0.03957	0.03744	0.03685	0.03650	0.03646
116	583555.92	4139235.81	0.02636	0.00216	0.01019	0.00895	0.00322	0.00104	0.00042	0.00006	0.00002	0.03516	0.00047	0.00203	0.00002	0.02636	0.00216	0.01019	0.04663	0.04090	0.03872	0.03810	0.03774	0.03770
117	583484.36	4139204.52	0.01532	0.00124	0.00643	0.00705	0.0025	0.00077	0.00031	0.00005	0.00001	0.00524	0.00038	0.0015	0.00001	0.01532	0.00124	0.00643	0.01418	0.00963	0.00790	0.00744	0.00718	0.00714
118	583493.96	4139201.73	0.01594	0.00130	0.00674	0.00716	0.00254	0.00079	0.00032	0.00005	0.00001	0.00626	0.00038	0.00155	0.00001	0.01594	0.00130	0.00674	0.01536	0.01074	0.00899	0.00852	0.00825	0.00821
119	583503.57	4139198.94	0.01660	0.00136	0.00710	0.00729	0.00259	0.00081	0.00033	0.00005	0.00001	0.00726	0.00039	0.00161	0.00001	0.01660	0.00136	0.00710	0.01656	0.01186	0.01008	0.00960	0.00932	0.00928
120	583513.17	4139196.15	0.01732	0.00142	0.00750	0.00741	0.00264	0.00083	0.00034	0.00005	0.00001	0.00818	0.0004	0.00168	0.00001	0.01732	0.00142	0.00750	0.01768	0.01291	0.01110	0.01061	0.01032	0.01028
121	583522.77	4139193.37	0.01811	0.00149	0.00795	0.00755	0.0027	0.00086	0.00035	0.00005	0.00001	0.00901	0.0004	0.00175	0.00001	0.01811	0.00149	0.00795	0.01872	0.01387	0.01203	0.01152	0.01122	0.01118
122	583532.38	4139190.58	0.01899	0.00157	0.00846	0.0077	0.00276	0.00089	0.00036	0.00005	0.00001	0.00972	0.00041	0.00182	0.00001	0.01899	0.00157	0.00846	0.01966	0.01472	0.01285	0.01232	0.01201	0.01197
123	583541.98	4139187.79	0.01992	0.00166	0.00902	0.00784	0.00282	0.00091	0.00037	0.00005	0.00001	0.01029	0.00042	0.00191	0.00002	0.01992	0.00166	0.00902	0.02048	0.01546	0.01355	0.01301	0.01269	0.01265
124	583487.15	4139214.12	0.01591	0.00129	0.00654	0.0072	0.00254	0.00078	0.00032	0.00005	0.00001	0.00617	0.00038	0.00151	0.00001	0.01591	0.00129	0.00654	0.01527	0.01061	0.00885	0.00839	0.00812	0.00808
125	583496.75	4139211.33	0.01656	0.00135	0.00685	0.00732	0.00259	0.0008	0.00033	0.00005	0.00001	0.0074	0.00039	0.00156	0.00001	0.01656	0.00135	0.00685	0.01668	0.01195	0.01016	0.00969	0.00941	0.00937
126	583506.36	4139208.55	0.01727	0.00141	0.00720	0.00744	0.00264	0.00082	0.00034	0.00005	0.00001	0.00856	0.0004	0.00162	0.00001	0.01727	0.00141	0.00720	0.01803	0.01323	0.01141	0.01093	0.01064	0.01060
127	583515.96	4139205.76	0.01803	0.00148	0.00759	0.00757	0.0027	0.00085	0.00034	0.00005	0.00001	0.00956	0.0004	0.00169	0.00001	0.01803	0.00148	0.00759	0.01923	0.01436	0.01251	0.01200	0.01171	0.01167
128	583525.56	4139202.97	0.01886	0.00155	0.00803	0.00771	0.00275	0.00087	0.00035	0.00005	0.00001	0.01042	0.00041	0.00176	0.00001	0.01886	0.00155	0.00803	0.02031	0.01535	0.01347	0.01295	0.01265	0.01261
129	583535.17	4139200.18	0.01977	0.00163	0.00854	0.00786	0.00281	0.0009	0.00037	0.00005	0.00001	0.01113	0.00042	0.00184	0.00002	0.01977	0.00163	0.00854	0.02127	0.01622	0.01431	0.01378	0.01346	0.01342
130	583544.77	4139197.39	0.02077	0.00172	0.00910	0.00802	0.00288	0.00093	0.00038	0.00005	0.00001	0.01171	0.00043	0.00192	0.00002	0.02077	0.00172	0.00910	0.02210	0.01696	0.01501	0.01446	0.01413	0.01409
131	583489.94	4139223.73	0.01653	0.00134	0.00667	0.00735	0.00259	0.0008	0.00032	0.00005	0.00001	0.00739	0.00039	0.00152	0.00001	0.01653	0.00134	0.00667	0.01666	0.01190	0.01011	0.00963	0.00936	0.00932
132	583499.54	4139220.94	0.01723	0.00140	0.00697	0.00747	0.00264	0.00082	0.00033	0.00005	0.00001	0.00886	0.0004	0.00157	0.00001	0.01723	0.00140	0.00697	0.01831	0.01348	0.01166	0.01117	0.01089	0.01085
133	583509.14	4139218.15	0.01798	0.00146	0.00731	0.0076	0.00269	0.00084	0.00034	0.00005	0.00001	0.01015	0.0004	0.00163	0.00001	0.01798	0.00146	0.00731	0.01979	0.01488	0.01303	0.01253	0.01224	0.01220
134	583518.75	4139215.36	0.01879	0.00153	0.00770	0.00773	0.00275	0.00086	0.00035	0.00005	0.00001	0.01119	0.00041	0.0017	0.00001	0.01879	0.00153	0.00770	0.02104	0.01606	0.01417	0.01366	0.01336	0.01332
135	583528.35	4139212.57	0.01966	0.00161	0.00813	0.00788	0.00281	0.00089	0.00036	0.00005	0.00001	0.01204	0.00041	0.00177	0.00001	0.01966	0.00161	0.00813	0.02211	0.01704	0.01512	0.01459	0.01428	0.01424
136	583537.95	4139209.79	0.02063	0.00170	0.00863	0.00803	0.00287	0.00092	0.00037	0.00006	0.00001	0.01277	0.00042	0.00185	0.00002	0.02063	0.00170	0.00863	0.02309	0.01793	0.01598	0.01543	0.01512	0.01507
137	583547.56	4139207.00	0.02170	0.00179	0.00920	0.00819	0.00294	0.00095	0.00039	0.00006	0.00002	0.01339	0.00043	0.00193	0.00002	0.02170	0.00179	0.00920	0.02396	0.01871	0.01672	0.01616	0.01583	0.01579
138	583492.73	4139233.33	0.01720	0.00139	0.00682	0.0075	0.00264	0.00082	0.00033	0.00005	0.00001	0.00897	0.0004	0.00153	0.00001	0.01720	0.00139	0.00682	0.01841	0.01355	0.01173	0.01124	0.01096	0.01092
139	583502.33	4139230.54	0.01795	0.00145	0.00711	0.00763	0.00269	0.00084	0.00034	0.00005	0.00001	0.01066	0.0004	0.00159	0.00001	0.01795	0.00145	0.00711	0.02029	0.01535	0.01350	0.01300	0.01271	0.01267
140	583511.93	4139227.75	0.01875	0.00152	0.00745	0.00776	0.00275	0.00086	0.00035	0.00005	0.00001	0.01201	0.00041	0.00165	0.00001	0.01875	0.00152	0.00745	0.02184	0.01683	0.01494	0.01443	0.01413	0.01409
141	583521.54	4139224.97	0.01960	0.00160	0.00783	0.0079	0.0028	0.00088	0.00036	0.00005	0.00001	0.01305	0.00041	0.00171	0.00001	0.01960	0.00160	0.00783	0.02308	0.01798	0.01606	0.01554	0.01523	0.01519

Receptor	UTM Coordinates (m)		Construction Total PM2.5 (Fugitive + Exhaust) Concentrations ($\mu g/m^3$)									Project Operation Local Roads	Project Generators	Cooling Tower	Char-broilers	Total Construction & Operation								
No.	UTM-X	UTM-Y	2023	2024	2025	2026	2027	2028	2029	2030	2031	2026	2026	2026	2026	2023	2024	2025	2026	2027	2028	2029	2030	2031
142	583531.14	4139222.18	0.02054	0.00168	0.00825	0.00805	0.00286	0.00091	0.00037	0.00006	0.00002	0.01386	0.00042	0.00178	0.00002	0.02054	0.00168	0.00825	0.02413	0.01894	0.01699	0.01645	0.01614	0.01610
143	583540.74	4139219.39	0.02158	0.00177	0.00875	0.00821	0.00293	0.00093	0.00038	0.00006	0.00002	0.01462	0.00043	0.00186	0.00002	0.02158	0.00177	0.00875	0.02514	0.01986	0.01786	0.01731	0.01699	0.01695
144	583550.35	4139216.60	0.02274	0.00187	0.00933	0.00838	0.003	0.00097	0.00039	0.00006	0.00002	0.01535	0.00044	0.00195	0.00002	0.02274	0.00187	0.00933	0.02614	0.02076	0.01873	0.01815	0.01782	0.01778
145	583495.51	4139242.93	0.01793	0.00145	0.00698	0.00765	0.00269	0.00083	0.00034	0.00005	0.00001	0.01085	0.0004	0.00154	0.00001	0.01793	0.00145	0.00698	0.02045	0.01549	0.01363	0.01314	0.01285	0.01281
146	583505.12	4139240.15	0.01872	0.00151	0.00727	0.00779	0.00274	0.00085	0.00035	0.00005	0.00001	0.01264	0.00041	0.0016	0.00001	0.01872	0.00151	0.00727	0.02245	0.01740	0.01551	0.01501	0.01471	0.01467
147	583514.72	4139237.36	0.01958	0.00159	0.00760	0.00793	0.0028	0.00088	0.00036	0.00006	0.00002	0.01398	0.00042	0.00166	0.00001	0.01958	0.00159	0.00760	0.02400	0.01887	0.01695	0.01643	0.01613	0.01609
148	583524.32	4139234.57	0.02049	0.00166	0.00798	0.00807	0.00286	0.0009	0.00037	0.00006	0.00002	0.01496	0.00042	0.00173	0.00002	0.02049	0.00166	0.00798	0.02520	0.01999	0.01803	0.01750	0.01719	0.01715
149	583533.93	4139231.78	0.02149	0.00175	0.00840	0.00822	0.00292	0.00092	0.00038	0.00006	0.00002	0.01573	0.00043	0.0018	0.00002	0.02149	0.00175	0.00840	0.02620	0.02090	0.01890	0.01836	0.01804	0.01800
150	583543.53	4139228.99	0.02263	0.00185	0.00891	0.00839	0.00299	0.00095	0.00039	0.00006	0.00002	0.01666	0.00044	0.00188	0.00002	0.02263	0.00185	0.00891	0.02739	0.02199	0.01995	0.01939	0.01906	0.01902
151	583553.13	4139226.20	0.02389	0.00196	0.00948	0.00857	0.00306	0.00099	0.0004	0.00006	0.00002	0.01748	0.00044	0.00197	0.00002	0.02389	0.00196	0.00948	0.02848	0.02297	0.02090	0.02031	0.01997	0.01993
152	583498.30	4139252.54	0.01873	0.00151	0.00718	0.00782	0.00274	0.00085	0.00035	0.00006	0.00002	0.01279	0.00041	0.00156	0.00001	0.01873	0.00151	0.00718	0.02259	0.01751	0.01562	0.01512	0.01483	0.01479
153	583507.91	4139249.75	0.01957	0.00158	0.00746	0.00795	0.0028	0.00087	0.00035	0.00006	0.00002	0.01438	0.00042	0.00162	0.00001	0.01957	0.00158	0.00746	0.02438	0.01923	0.01730	0.01678	0.01649	0.01645
154	583517.51	4139246.96	0.02047	0.00166	0.00778	0.00809	0.00285	0.00089	0.00036	0.00006	0.00002	0.01556	0.00042	0.00168	0.00002	0.02047	0.00166	0.00778	0.02577	0.02053	0.01857	0.01804	0.01774	0.01770
155	583527.11	4139244.17	0.02146	0.00174	0.00815	0.00825	0.00291	0.00092	0.00037	0.00006	0.00002	0.01646	0.00043	0.00174	0.00002	0.02146	0.00174	0.00815	0.02690	0.02156	0.01957	0.01902	0.01871	0.01867
156	583536.72	4139241.38	0.02255	0.00183	0.00858	0.00841	0.00298	0.00094	0.00038	0.00006	0.00002	0.01733	0.00044	0.00182	0.00002	0.02255	0.00183	0.00858	0.02802	0.02259	0.02055	0.01999	0.01967	0.01963
157	583546.32	4139238.60	0.02380	0.00194	0.00908	0.00859	0.00305	0.00097	0.0004	0.00006	0.00002	0.01845	0.00045	0.0019	0.00002	0.02380	0.00194	0.00908	0.02941	0.02387	0.02179	0.02122	0.02088	0.02084
158	583555.92	4139235.81	0.02516	0.00205	0.00966	0.00877	0.00313	0.00101	0.00041	0.00006	0.00002	0.01948	0.00046	0.00199	0.00002	0.02516	0.00205	0.00966	0.03072	0.02508	0.02296	0.02236	0.02201	0.02197
159	583979.57	4139386.45	0.18633	0.05547	1.81555	0.21393	0.10185	0.06471	0.02645	0.00057	0.00014	0.01613	0.00258	0.00988	0.00011	0.18633	0.05547	1.81555	0.24263	0.13055	0.09341	0.05515	0.02927	0.02884
160	583988.23	4139383.99	0.18282	0.04962	1.52894	0.20867	0.09597	0.05823	0.02383	0.00062	0.00016	0.01639	0.00262	0.00955	0.00011	0.18282	0.04962	1.52894	0.23734	0.12464	0.08690	0.05250	0.02929	0.02883
161	583996.88	4139381.52	0.17959	0.04534	1.33312	0.20886	0.09279	0.05377	0.02207	0.00069	0.00017	0.01684	0.0027	0.00924	0.00011	0.17959	0.04534	1.33312	0.23775	0.12168	0.08266	0.05096	0.02958	0.02906
162	584005.54	4139379.06	0.17663	0.04236	1.20369	0.21464	0.09215	0.05112	0.02105	0.00076	0.00019	0.01753	0.00279	0.00895	0.00011	0.17663	0.04236	1.20369	0.24402	0.12153	0.08050	0.05043	0.03014	0.02957
163	584014.20	4139376.60	0.17399	0.04044	1.12351	0.22616	0.09382	0.05003	0.0207	0.00085	0.00022	0.01855	0.00292	0.00867	0.00011	0.17399	0.04044	1.12351	0.25641	0.12407	0.08028	0.05095	0.03110	0.03047
164	584022.85	4139374.14	0.17172	0.03932	1.07899	0.24387	0.09759	0.05023	0.0209	0.00097	0.00025	0.02002	0.00305	0.00842	0.00012	0.17172	0.03932	1.07899	0.27548	0.12920	0.08184	0.05251	0.03258	0.03186
165	584031.51	4139371.67	0.16986	0.03877	1.05908	0.26896	0.10337	0.05152	0.02159	0.0011	0.00028	0.02223	0.00317	0.00818	0.00013	0.16986	0.03877	1.05908	0.30267	0.13708	0.08523	0.05530	0.03481	0.03399
166	583982.03	4139395.11	0.16590	0.05266	1.75815	0.21659	0.10207	0.06322	0.02591	0.00059	0.00015	0.01636	0.00268	0.00959	0.00011	0.16590	0.05266	1.75815	0.24533	0.13081	0.09196	0.05465	0.02933	0.02889
167	583990.69	4139392.64	0.16413	0.04733	1.48833	0.21363	0.09725	0.05738	0.02356	0.00065	0.00016	0.01668	0.00273	0.00928	0.00010	0.16413	0.04733	1.48833	0.24242	0.12604	0.08617	0.05235	0.02944	0.02895
168	583999.35	4139390.18	0.16255	0.04364	1.31198	0.21648	0.0953	0.05366	0.0221	0.00071	0.00018	0.01721	0.00281	0.009	0.00011	0.16255	0.04364	1.31198	0.24561	0.12443	0.08279	0.05123	0.02984	0.02931
169	584008.00	4139387.72	0.16114	0.04127	1.20360	0.22523	0.09602	0.0518	0.02141	0.0008	0.0002	0.018	0.00291	0.00873	0.00011	0.16114	0.04127	1.20360	0.25498	0.12577	0.08155	0.05116	0.03055	0.02995
170	584016.66	4139385.26	0.15993	0.03995	1.14405	0.24006	0.09914	0.0515	0.02139	0.00089	0.00023	0.01916	0.00302	0.00848	0.00011	0.15993	0.03995	1.14405	0.27083	0.12991	0.08227	0.05216	0.03166	0.03100
171	584025.32	4139382.79	0.15890	0.03937	1.11861	0.26152	0.10444	0.05248	0.02192	0.00101	0.00025	0.02084	0.00318	0.00824	0.00012	0.15890	0.03937	1.11861	0.29390	0.13682	0.08486	0.05430	0.03339	0.03263
172	584033.97	4139380.33	0.15810	0.03930	1.11537	0.29091	0.11181	0.0545	0.02293	0.00116	0.00029	0.02336	0.00331	0.00802	0.00013	0.15810	0.03930	1.11537	0.32573	0.14663	0.08932	0.05775	0.03598	0.03511
173	583984.50	4139403.76	0.14962	0.04993	1.69295	0.22004	0.1024	0.06156	0.02531	0.00062	0.00016	0.01664	0.00278	0.00925	0.00011	0.14962	0.04993	1.69295	0.24882	0.13118	0.09034	0.05409	0.02940	0.02894
174	583993.15	4139401.30	0.14893	0.04525	1.44659	0.22002	0.09896	0.05658	0.02332	0.00068	0.00017	0.01703	0.00283	0.00898	0.00011	0.14893	0.04525	1.44659	0.24897	0.12791	0.08553	0.05227	0.02963	0.02912
175	583986.96	4139412.42	0.13640	0.04730	1.62333	0.22472	0.10302	0.05985	0.0247	0.00065	0.00016	0.01696	0.00286	0.00888	0.00011	0.13640	0.04730	1.62333	0.25353	0.13183	0.08866	0.05351	0.02946	0.02897
176	583995.62	4139409.96	0.13639	0.04341	1.40779	0.22839	0.10133	0.05597	0.02317	0.00071	0.00018	0.01743	0.00295	0.00866	0.00011	0.13639	0.04341	1.40779	0.25754	0.13048	0.08512	0.05232	0.02986	0.02933
177	583989.42	4139421.08	0.12547	0.04481	1.55259	0.23105	0.1041	0.05819	0.02413	0.00068	0.00017	0.0173	0.00298	0.00848	0.00011	0.12547	0.04481	1.55259	0.25992	0.13297	0.08706	0.05300	0.02955	0.02904
178	583998.08	4139418.61	0.12588	0.04193	1.37869	0.23934	0.10461	0.05574	0.02319	0.00075	0.00018	0.01783	0.0031	0.0083	0.00011	0.12588	0.04193	1.37869	0.26868	0.13395	0.08508	0.05253	0.03009	0.02952
179	583991.88	4139429.73	0.11625	0.04254	1.48699	0.23952	0.10587	0.05678	0.02368	0.00072	0.00017	0.01761	0.00315	0.00807	0.00011	0.11625	0.04254	1.48699	0.26846	0.13481	0.08572	0.05262	0.02966	0.02911
180	584000.54	4139427.27	0.11689	0.04095	1.36882	0.2535	0.10912	0.05615	0.02349	0.00079	0.00019	0.01818	0.00331	0.00793	0.00012	0.11689	0.04095	1.36882	0.28304	0.13866	0.08569	0.05303	0.03033	0.02973
181	583994.35	4139438.39	0.10834	0.04068	1.43698	0.25062	0.10864	0.05588	0.02344	0.00076	0.00018	0.01786	0.00335	0.00765	0.00012	0.10834	0.04068	1.43698	0.27960	0.13762	0.08486	0.05242	0.02974	0.02916
182	584003.00	4139435.93	0.10910	0.04075	1.39360	0.27141	0.11523	0.05755	0.02422	0.00084	0.0002	0.01844	0.00354	0.00755	0.00012	0.10910	0.04075	1.39360	0.30106	0.14488	0.08720	0.05387	0.03049	0.02985
183	583996.81	4139447.05	0.10144	0.03955	1.42169	0.26478	0.1128	0.05588	0.02359	0.00081	0.00019	0.01802	0.00357	0.00724	0.00012	0.10144	0.03955	1.42169	0.29373	0.14175	0.08483	0.05254	0.02976	0.02914
184	584005.47	4139444.58	0.10223	0.04167	1.47721	0.29343	0.12333	0.06033	0.02553	0.00089	0.00021	0.01857	0.00381	0.00717	0.00013	0.10223	0.04167	1.47721	0.32311	0.15301	0.09001	0.05521	0.03057	0.02989
185	583999.27	4139455.70	0.09532	0.03957	1.47412	0.2824	0.11879	0.05723	0.02432	0.00086	0.0002	0.01809	0.00381	0.00685	0.00012	0.09532	0.03957	1.47412	0.31127	0.14766	0.08610	0.05319	0.02973	0.02907
186	584007.93	4139453.24	0.09609	0.04406	1.65600	0.31941	0.13364	0.06482	0.02756	0.00095	0.00022	0.01858	0.00405	0.00681	0.00013	0.09609	0.04406	1.65600	0.34898	0.16321	0.09439	0.05713	0.03052	0.02979
187	584016.59	4139450.78	0.09697	0.04910	1.86932	0.36297	0.15054	0.07334	0.03124	0.00105	0.00024	0.01925	0.00428	0.00675	0.00013	0.09697	0.04910	1.86932	0.39338	0.18095	0.10375	0.06165	0.03146	0.03065
188	584025.24	4139448.31	0.09790	0.05386	2.06862	0.41258	0.16851	0.08187	0.03497	0.00118	0.00027	0.0201	0.00453	0.00669	0.00013	0.09790	0.05386	2.06862	0.44403	0.19996	0.11332	0.06642	0.03263	0.03172
189	584033.90	4139445.85	0.09883	0.05806	2.24146	0.46969	0.18747	0.09013	0.03867	0.00133	0.00031	0.02116	0.00473	0.00663	0.00013	0.09883	0.05806	2.24146	0.50234	0.22012	0.12278	0.07132	0.03398	0.03296
190	584042.55	4139443.39	0.09971	0.06161	2.38462	0.53669	0.20763	0.09811	0.04234	0.00153	0.00035	0.02251	0.00493	0.00655	0.00013	0.09971	0.06161	2.38462	0.57081	0.24175	0.13223	0.07646	0.03565	0.03447
191	583979.57	4139386.45	0.17028	0.04738	1.42167	0.19061	0.08944	0.05593	0.02276	0.00052	0.00013	0.01497	0.00256	0.01053	0.00010	0.17028	0.04738	1.42167	0.21877	0.11760	0.08409	0.05092	0.02868	0.02829
192	583988.23	4139383.99	0.16798	0.04261	1.23771	0.1852	0.08413	0.0502	0.02049	0.00057	0.00015	0.01516	0.0026	0.01012	0.00010	0.16798	0.04261	1.23771	0.21318	0.11211	0.07818	0.04847	0.02855	0.02813
193	583996.88	4139381.52	0.16588	0.03925	1.10533	0.18534	0.08159	0.04653	0.01906	0.00062	0.00016	0.01548	0.00268	0.00975	0.00010	0.16588	0.03925	1.10533	0.21335	0.10960	0.07454	0.04707	0.02863	0.02817
194	584005.54	4139379.06	0.16391	0.03698	1.01598	0.19041	0.0813	0.04447	0.01829	0.00069	0.00018	0.01597	0.00278	0.0094	0.00011	0.16391	0.03698	1.01598	0.21867	0.10956	0.07273	0.04655	0.02895	0.02844
195	584014.20	4139376.60	0.16216	0.03557	0.96133	0.20022	0.08297	0.04373	0.01806	0.00077	0.0002	0.01668	0.00293	0.00907	0.00011	0.16216	0.03557	0.96133	0.22901	0.11176	0.07252	0.04685	0.02956	0.02899
196	584022.85	4139374.14	0.16065	0.03480	0.93316	0.21497	0.08636	0.04407	0.01829	0.00087	0.00022	0.01765	0.00305	0.00877	0.00012	0.16065	0.03480	0.93316	0.24456	0.11595	0.07366	0.04788	0.03046	0.02981
197	584031.51	4139371.67	0.15943	0.03450	0.92383	0.23538	0.0914	0.0453	0.01891	0.00099	0.00025	0.01898	0.00318	0.00848	0.00013	0.15943	0.03450	0.92383	0.26615	0.12217	0.07607	0.04968	0.03176	0.03102
198	584040.17	4139369.21	0.15850	0.03452	0.92690	0.2629	0.09809	0.04733	0.01991	0.00113	0.00029	0.02082	0.00334	0.00822	0.00014	0.15850	0.03452	0.92690	0.29542	0.13061	0.07985	0.05243	0.03365	0.03281
199	584048.82	4139366.75	0.15788	0.03471	0.93685	0.30024	0.10663	0.05012	0.02133	0.00131	0.00033	0.0234	0.00355	0.00797	0.00015	0.15788	0.03471	0.93685	0.33531	0.14170	0.08519	0.05640	0.03638	0.03540
200	583982.03	4139395.11	0.15283	0.04490	1.36719	0.19262	0.0895	0.05452	0.02224	0.00054	0.00014	0.01515	0.00266	0.01021	0.00010	0.15283	0.04490	1.36719	0.22074	0.11762	0.08264	0.05036	0.02866	0.02826
201	583990.69	4139392.64	0.15187	0.04056	1.19780	0.18913	0.08508	0.04932	0.0202	0.00059	0.00015	0.01538	0.00272	0.00984	0.00010	0.15187	0.04056	1.19780	0.21717	0.11312	0.07736	0.04824	0.02863	0.02819
202	583999.35	4139390.18	0.15103	0.03769	1.08221	0.1915	0.08359	0.04627	0.01902	0.00065	0.00016	0.01577	0.0028	0.00949	0.00010	0.15103	0.03769	1.08221	0.21966	0.11175	0.07443	0.04718	0.02881	0.02832
203	584008.00	4139387.72	0.15030	0.03595	1.01106	0.19903	0.08446	0.0449	0.01853	0.00072	0.00018	0.01633	0.0029	0.00917	0.00010	0.15030	0.03595	1.01106	0.22753	0.11296	0.07340	0.04703	0.02922	0.02868
204	584016.66	4139385.26	0.14969	0.03505	0.97436	0.21154	0.08737	0.04485	0.01859	0.0008	0.0002	0.01713	0.00302	0.00886	0.00011	0.14969	0.03505	0.97436	0.24066	0.11649	0.07397	0.04771	0.02992	0.02932
205	584025.32	4139382.79	0.14918	0.03476	0.96282	0.22925	0.09207	0.04586	0.0191	0.00091	0.00023	0.01823	0.00319	0.00858	0.00012	0.14918	0.03476	0.96282	0.25937	0.12219	0.07598	0.04922	0.03103	0.03035
206	584033.97	4139380.33	0.14885	0.03487	0.96800	0.25287	0.09845	0.04773	0.02	0.00103	0.00026	0.01973	0.00333	0.00831	0.00013	0.14885	0.03487	0.96800	0.28437	0.12995	0.07923	0.05150	0.03253	0.03176
207	584042.63	4139377.87	0.14866	0.03523	0.98292	0.28404	0.10657	0.05035	0.02125	0.00119	0.0003	0.02181	0.00352	0.00806	0.00014	0.14866	0.03523	0.98292	0.31757	0.14010	0.08388	0.05478	0.03472	0.03383
208	584051.29	4139375.41	0.14866	0.03569	1.00192	0.32572	0.11667	0.0537	0.02291	0.00139	0.00035	0.02473	0.00376	0.00782	0.00016	0.14866	0.03569	1.00192	0.36219	0.15314	0.09017	0.05938	0.03786	0.03682
209	583984.50	4139403.76	0.13878	0.04249	1.30683	0.19531	0.08968	0.05297	0.02167	0.00056	0.00014	0.01538	0.00276	0.00984	0.00010	0.13878	0.04249	1.30683	0.22339	0.11776	0.08105	0.04975	0.02864	0.02822
210	583993.15	4139401.30	0.13864	0.03867	1.15695	0.19424	0.08641	0.04847	0.01992	0.00062	0.00016	0.01566	0.00281	0.00951	0.00010	0.13864	0.03867	1.15695	0.22232	0.11449	0.07655	0.04800	0.02870	0.02824
211	584045.09	4139386.52	0.13962	0.03637	1.05378	0.31068	0.11695	0.05409	0.02294	0.00125	0.00031	0.02304	0.00377	0.00789	0.00015	0.13962	0.03637	1.05378	0.34553	0.15180	0.08894	0.05779	0.03610	0.03516
212	584053.75	4139384.06	0.14001	0.03708	1.08169	0.35805	0.12897	0.05807	0.02489	0.00147	0.00036	0.02634	0.0041	0.00767	0.00017	0.14001	0.03708	1.08169	0.39633	0.16725	0.09635	0.06317	0.03975	0.03864
213	583986.96	4139412.42	0.12726	0.04015	1.24308	0.19906	0.09013	0.05138	0.0211	0.00059	0.00015	0.01564	0.00285	0.00943	0.00010	0.12726	0.04015	1.24308	0.22708	0.11815	0.07940	0.04912	0.02861	0.02817
214	583995.62	4139409.96	0.12762	0.03697	1.11816	0.20101	0.0883	0.04778	0.01973	0.00064	0.00016	0.01598	0.00293	0.00915	0.00011	0.12762	0.03697	1.11816	0.22918	0.11647	0.07595	0.04790	0.02881	0.02833
215	584047.55	4139395.18	0.13124	0.03798	1.14225	0.34459	0.12955	0.05873	0.02506	0.00133	0.00033	0.02406	0.00418	0.0077	0.00017	0.13124	0.03798	1.14225	0.38070	0.16566	0.09484	0.06117	0.03744	0.03644
216	584056.21	4139392.72	0.13187	0.03892	1.17835	0.39993	0.14389	0.06345	0.0274	0.00157	0.00038	0.02735	0.00465	0.00749	0.00021	0.13187	0.03892	1.17835	0.43963	0.18359	0.10315	0.06710	0.04127	0.04008
217	583989.42	4139421.08	0.11762	0.03792	1.17849	0.20426	0.09101	0.04984	0.02057	0.00062	0.00015	0.01591	0.00297	0.00899	0.00011	0.11762	0.03792	1.17849	0.23224	0.11899	0.07782	0.04855	0.02860	0.02813
218	583998.08	4139418.61	0.11831	0.03555	1.08593	0.20995	0.09098	0.0474	0.01967	0.00068	0.00017	0.01631	0.00309	0.00876	0.00011	0.11831	0.03555	1.08593	0.23822	0.11925	0.07567	0.04794	0.02895	0.02844
219	584050.02	4139403.84	0.12344	0.04013	1.25086	0.3869	0.14449	0.06438	0.02769	0.00142	0.00034	0.02443	0.0047	0.00749	0.00019	0.12344	0.04013	1.25086	0.42371	0.18130	0.10119	0.06450	0.03823	0.03715
220	584058.67	4139401.38	0.12419	0.04125	1.29399	0.45232	0.16143	0.06992	0.0305	0.00168	0.0004	0.0273	0.00528	0.0073	0.00022	0.12419	0.04125	1.29399	0.49242	0.20153	0.11002	0.07060	0.04178	0.04050
221	583991.88	4139429.73	0.10944	0.03587	1.11719	0.21133	0.0925	0.04851	0.02013	0.00065	0.00016	0.01617	0.00315	0.00852	0.00012	0.10944	0.03587	1.11719	0.23929	0.12046	0.07647	0.04809	0.02861	0.02812
222	584000.54	4139427.27	0.11029	0.03451	1.06585	0.22165	0.09473	0.04753	0.01984	0.00071	0.00017	0.0166	0.00331	0.00835	0.00012	0.11029	0.03451	1.06585	0.25003	0.12311	0.07591	0.04822	0.02909	0.02855
223	584052.48	4139412.49	0.11615	0.04287	1.38133	0.43575	0.16144	0.07103	0.03079	0.00151	0.00036	0.02418	0.0051	0.00727	0.00018	0.11615	0.04287	1.38133	0.47248	0.19817	0.10776	0.06752	0.03824	0.03709
224	584061.136	4139410.031	0.11692	0.04414	1.43021	0.51061	0.18088	0.07733	0.03401	0.0018	0.00042	0.02662	0.00555	0.0071	0.00018	0.11692	0.04414	1.43021	0.55006	0.22033	0.11678	0.07346	0.04125	0.03987
225	583994.347	4139438.388	0.10235	0.03414	1.06513	0.22076	0.0949	0.04762	0.01988	0.00069	0.00017	0.01638	0.00335	0.00806	0.00012	0.10235	0.03414	1.06513	0.24867	0.12281	0.07553	0.04779	0.02860	0.02808
226	584003.003	4139435.926	0.10327	0.03408	1.06555	0.23668	0.09989	0.0485	0.02036	0.00076	0.00018	0.01682	0.00356	0.00792	0.00013	0.10327	0.03408	1.06555	0.26511	0.12832	0.07693	0.04879	0.02919	0.02861
227	584054.943	4139421.15	0.10929	0.04628	1.53494	0.4873	0.17991	0.07862	0.03426	0.00161	0.00037	0.02359	0.00527	0.00703	0.00015	0.10929	0.04628	1.53494	0.52334	0.21595	0.11466	0.07030	0.03765	0.03641
228	584063.599	4139418.688	0.11003	0.04766	1.58791	0.568	0.20128	0.08544	0.03774	0.00193	0.00045	0.02575	0.00555	0.00689	0.00015	0.11003	0.04766	1.58791	0.60634	0.23962	0.12378	0.07608	0.04027	0.03879
229	583996.809	4139447.045	0.09612	0.03301	1.03137	0.23314	0.09864	0.04756	0.01997	0.00073	0.00018	0.01652	0.00358	0.0076	0.00013	0.09612	0.03301	1.03137	0.26097	0.12647	0.07539	0.04780	0.02856	0.02801
230	584005.466	4139444.582	0.09703	0.03458	1.09446	0.25585	0.10704	0.05082	0.02143	0.0008	0.00019	0.01694	0.00383	0.0075	0.00013	0.09703	0.03458	1.09446	0.28425	0.13544	0.07922	0.04983	0.02920	0.02859
231	583999.272	4139455.702	0.09054	0.03301	1.02794	0.24986	0.10465	0.04915	0.02072	0.00078	0.00018	0.01658	0.00383	0.00716	0.00013	0.09054	0.03301	1.02794	0.27756	0.13235	0.07685	0.04842	0.02848	0.02788
232	584007.929	4139453.239	0.09140	0.03661	1.16217	0.28058	0.1172	0.05539	0.02338	0.00085	0.0002	0.01696	0.00408	0.00709	0.00013	0.09140	0.03661	1.16217	0.30884	0.14546	0.08365	0.05164	0.02911	0.02846
233	584016.585	4139450.776	0.09235	0.04077	1.31965	0.31689	0.13175	0.06261	0.02648	0.00094	0.00022	0.01747	0.00432	0.00702	0.00013	0.09235	0.04077	1.31965	0.34583	0.16069	0.09155	0.05542	0.02988	0.02916
234	584025.242	4139448.314	0.09334	0.04473	1.47240	0.35759	0.14717	0.06982	0.02962	0.00105	0.00024	0.01809	0.00457	0.00693	0.00013	0.09334	0.04473	1.47240	0.38731	0.17689	0.09954	0.05934	0.03077	0.02996
235	584033.898	4139445.851	0.09431	0.04826	1.61010	0.40347	0.16343	0.07683	0.03274	0.00118	0.00027	0.01885	0.00479	0.00684	0.00013	0.09431	0.04826	1.61010	0.43408	0.19404	0.10744	0.06335	0.03179	0.03088
236	584042.555	4139443.388	0.09522	0.05128	1.72868	0.45578	0.18071	0.08362	0.03584	0.00134	0.00031	0.01976	0.00501	0.00675	0.00013	0.09522	0.05128	1.72868	0.48743	0.21236	0.11527	0.06749	0.03299	0.03196
237	584001.735	4139464.358	0.08550	0.03537	1.07019	0.27461	0.11525	0.05433	0.02286	0.00083	0.00019	0.01656	0.00402	0.00674	0.00012	0.08550	0.03537	1.07019	0.30205	0.14269	0.08177	0.05030	0.02827	0.02763
238	584010.391	4139461.895	0.08629	0.04132	1.27485	0.31428	0.13257	0.06406	0.02692	0.00091	0.00021	0.0169	0.00423	0.0067	0.00012	0.08629	0.04132	1.27485	0.34223	0.16052	0.09201	0.05487	0.02886	0.02816
239	584019.048	4139459.433	0.08715	0.04667	1.47345	0.3561	0.14981	0.07309	0.03075	0.001	0.00023	0.01733	0.00446	0.00665	0.00012	0.08715	0.04667	1.47345	0.38466	0.17837	0.10165	0.05931	0.02956	0.02879
240	584027.704	4139456.97	0.08803	0.05123	1.65020	0.40063	0.16692	0.08127	0.0343	0.00112	0.00026	0.01786	0.00467	0.00659	0.00012	0.08803	0.05123	1.65020	0.42987	0.19616	0.11051	0.06354	0.03036	0.02950
241	584036.361	4139454.508	0.08889	0.05508	1.80236	0.44941	0.18438	0.08883	0.03765	0.00126	0.00029	0.01851	0.00483	0.00652	0.00012	0.08889	0.05508	1.80236	0.47939	0.21436	0.11881	0.06763	0.03124	0.03027
242	584045.017	4139452.045	0.08970	0.05827	1.92976	0.50386	0.20259	0.09596	0.0409	0.00143	0.00033	0.01931	0.00499	0.00645	0.00013	0.08970	0.05827	1.92976	0.53474	0.23347	0.12684	0.07178	0.03231	0.03121
		Maximum	0.186	0.062	2.385	0.568	0.208	0.098	0.042	0.003	0.001	0.035	0.006	0.011	0.000	0.186	0.062	2.385	0.606	0.242	0.132	0.076	0.042	0.040

Google Middlefield - District Utilities Construction and Project Operation Impacts
Total PM2.5 Concentrations - Project Impacts - Mitigated
Off-Site Residential Receptors - 1st & 2nd Residential Level receptor heights

Receptor	UTM Coordinates (m)		Construction Total PM2.5 (Fugitive + Exhaust) Concentrations (μg/m³)									Project Operation Local Roads	Project Generators	Cooling Tower	Char-broilers	Total Construction & Operation								
No.	UTM-X	UTM-Y	2023	2024	2025	2026	2027	2028	2029	2030	2031	2026	2026	2026	2026	2023	2024	2025	2026	2027	2028	2029	2030	2031
1	583674.05	4138932.37	0.01015	0.00116	0.00469	0.00205	0.00083	0.00047	0.00028	0.00006	0.00002	0.00504	0.00068	0.00378	0.00003	0.01015	0.00116	0.00469	0.01158	0.01036	0.01000	0.00981	0.00959	0.00955
2	583685.82	4138936.00	0.01148	0.00131	0.00509	0.00216	0.00089	0.0005	0.0003	0.00007	0.00002	0.00537	0.00071	0.004	0.00003	0.01148	0.00131	0.00509	0.01227	0.01100	0.01061	0.01041	0.01018	0.01013
3	583705.56	4138942.41	0.01426	0.00162	0.00585	0.00239	0.00099	0.00056	0.00033	0.00007	0.00002	0.00601	0.00076	0.00442	0.00003	0.01426	0.00162	0.00585	0.01361	0.01221	0.01178	0.01155	0.01129	0.01124
4	583715.08	4138945.35	0.01596	0.00181	0.00627	0.0025	0.00104	0.0006	0.00035	0.00008	0.00002	0.00633	0.00079	0.00464	0.00004	0.01596	0.00181	0.00627	0.01430	0.01284	0.01240	0.01215	0.01188	0.01182
5	583722.18	4138945.87	0.01726	0.00195	0.00659	0.0026	0.00108	0.00062	0.00037	0.00008	0.00002	0.00655	0.00081	0.0048	0.00004	0.01726	0.00195	0.00659	0.01480	0.01328	0.01282	0.01257	0.01228	0.01222
6	583727.20	4138939.64	0.01786	0.00201	0.00675	0.00268	0.00112	0.00064	0.00038	0.00008	0.00002	0.00653	0.00083	0.00487	0.00004	0.01786	0.00201	0.00675	0.01495	0.01339	0.01291	0.01265	0.01235	0.01229
7	583734.13	4138930.98	0.01867	0.00210	0.00696	0.00278	0.00116	0.00066	0.00039	0.00009	0.00002	0.00651	0.00086	0.00495	0.00004	0.01867	0.00210	0.00696	0.01514	0.01352	0.01302	0.01275	0.01245	0.01238
8	583740.36	4138923.02	0.01928	0.00217	0.00713	0.00288	0.0012	0.00068	0.0004	0.00009	0.00002	0.00649	0.00088	0.00502	0.00005	0.01928	0.00217	0.00713	0.01532	0.01364	0.01312	0.01284	0.01253	0.01246
9	583745.55	4138915.57	0.01977	0.00222	0.00727	0.00297	0.00124	0.0007	0.00041	0.00009	0.00002	0.00645	0.0009	0.00508	0.00005	0.01977	0.00222	0.00727	0.01545	0.01372	0.01318	0.01289	0.01257	0.01250
10	583750.23	4138909.86	0.02028	0.00228	0.00741	0.00305	0.00127	0.00071	0.00042	0.00009	0.00003	0.00645	0.00092	0.00513	0.00005	0.02028	0.00228	0.00741	0.01560	0.01382	0.01326	0.01297	0.01264	0.01258
11	583755.59	4138902.41	0.02079	0.00233	0.00755	0.00314	0.00131	0.00073	0.00043	0.0001	0.00003	0.00642	0.00094	0.00518	0.00005	0.02079	0.00233	0.00755	0.01573	0.01390	0.01332	0.01302	0.01269	0.01262
12	583747.80	4138895.84	0.01877	0.00211	0.00708	0.00302	0.00125	0.00069	0.00041	0.00009	0.00003	0.00607	0.00091	0.00495	0.00005	0.01877	0.00211	0.00708	0.01500	0.01323	0.01267	0.01239	0.01207	0.01201
13	583757.15	4138883.72	0.01961	0.00220	0.00732	0.00318	0.00131	0.00072	0.00043	0.0001	0.00003	0.00606	0.00095	0.00504	0.00005	0.01961	0.00220	0.00732	0.01528	0.01341	0.01282	0.01253	0.01220	0.01213
14	583765.46	4138890.29	0.02183	0.00244	0.00784	0.00332	0.00138	0.00076	0.00046	0.0001	0.00003	0.00642	0.00098	0.00528	0.00005	0.02183	0.00244	0.00784	0.01605	0.01411	0.01349	0.01319	0.01283	0.01276
15	583771.18	4138882.33	0.02232	0.00249	0.00798	0.00342	0.00142	0.00078	0.00047	0.0001	0.00003	0.00641	0.001	0.00533	0.00005	0.02232	0.00249	0.00798	0.01621	0.01421	0.01357	0.01326	0.01289	0.01282
16	583776.72	4138875.93	0.02289	0.00255	0.00815	0.00353	0.00146	0.0008	0.00048	0.00011	0.00003	0.00642	0.00102	0.00539	0.00005	0.02289	0.00255	0.00815	0.01641	0.01434	0.01368	0.01336	0.01299	0.01291
17	583783.64	4138866.92	0.02349	0.00262	0.00833	0.00366	0.00151	0.00083	0.0005	0.00011	0.00003	0.00641	0.00105	0.00544	0.00005	0.02349	0.00262	0.00833	0.01661	0.01446	0.01378	0.01345	0.01306	0.01298
18	583788.14	4138861.04	0.02385	0.00265	0.00844	0.00375	0.00155	0.00084	0.00051	0.00011	0.00003	0.00641	0.00107	0.00548	0.00005	0.02385	0.00265	0.00844	0.01676	0.01456	0.01385	0.01352	0.01312	0.01304
19	583794.20	4138852.90	0.02428	0.00270	0.00859	0.00387	0.00159	0.00086	0.00052	0.00012	0.00003	0.0064	0.0011	0.00552	0.00005	0.02428	0.00270	0.00859	0.01694	0.01466	0.01393	0.01359	0.01319	0.01310
20	583714.91	4138939.46	0.01560	0.00177	0.00620	0.00251	0.00104	0.00059	0.00035	0.00008	0.00002	0.00619	0.00079	0.00459	0.00004	0.01560	0.00177	0.00620	0.01412	0.01265	0.01220	0.01196	0.01169	0.01163
21	583719.93	4138932.71	0.01611	0.00182	0.00634	0.00258	0.00107	0.00061	0.00036	0.00008	0.00002	0.00616	0.00081	0.00465	0.00004	0.01611	0.00182	0.00634	0.01424	0.01273	0.01227	0.01202	0.01174	0.01168
22	583725.30	4138925.27	0.01663	0.00188	0.00648	0.00266	0.0011	0.00062	0.00037	0.00008	0.00002	0.00613	0.00083	0.00471	0.00004	0.01663	0.00188	0.00648	0.01437	0.01281	0.01233	0.01208	0.01179	0.01173
23	583731.88	4138917.30	0.01731	0.00196	0.00667	0.00276	0.00115	0.00064	0.00038	0.00008	0.00002	0.00612	0.00085	0.00479	0.00004	0.01731	0.00196	0.00667	0.01456	0.01295	0.01244	0.01218	0.01188	0.01182
24	583737.24	4138909.69	0.01779	0.00201	0.00680	0.00284	0.00118	0.00066	0.00039	0.00009	0.00002	0.00609	0.00087	0.00484	0.00005	0.01779	0.00201	0.00680	0.01469	0.01303	0.01251	0.01224	0.01194	0.01187
25	583742.96	4138903.11	0.01839	0.00207	0.00697	0.00294	0.00122	0.00068	0.0004	0.00009	0.00002	0.0061	0.00089	0.00491	0.00005	0.01839	0.00207	0.00697	0.01489	0.01317	0.01263	0.01235	0.01204	0.01197
26	583762.52	4138876.96	0.02010	0.00226	0.00746	0.00327	0.00135	0.00074	0.00044	0.0001	0.00003	0.00606	0.00097	0.00509	0.00005	0.02010	0.00226	0.00746	0.01544	0.01352	0.01291	0.01261	0.01227	0.01220
27	583768.41	4138869.87	0.02064	0.00231	0.00762	0.00338	0.00139	0.00076	0.00046	0.0001	0.00003	0.00607	0.00099	0.00514	0.00005	0.02064	0.00231	0.00762	0.01563	0.01364	0.01301	0.01271	0.01235	0.01228
28	583775.16	4138860.34	0.02113	0.00236	0.00777	0.0035	0.00144	0.00078	0.00047	0.00011	0.00003	0.00606	0.00102	0.00519	0.00005	0.02113	0.00236	0.00777	0.01582	0.01376	0.01310	0.01279	0.01243	0.01235
29	583781.04	4138853.42	0.02165	0.00242	0.00793	0.00361	0.00148	0.0008	0.00048	0.00011	0.00003	0.00607	0.00104	0.00524	0.00005	0.02165	0.00242	0.00793	0.01601	0.01388	0.01320	0.01288	0.01251	0.01243
30	583694.83	4138938.94	0.01265	0.00144	0.00542	0.00226	0.00093	0.00053	0.00031	0.00007	0.00002	0.00565	0.00073	0.00418	0.00003	0.01265	0.00144	0.00542	0.01285	0.01152	0.01112	0.01090	0.01066	0.01061
31	584511.66	4138899.64	0.02130	0.00183	0.01196	0.0662	0.01746	0.00817	0.00598	0.00259	0.00072	0.01831	0.0032	0.0029	0.00006	0.02130	0.00183	0.01196	0.09067	0.04193	0.03264	0.03045	0.02706	0.02519
32	584507.85	4138883.72	0.02222	0.00189	0.01210	0.06505	0.01742	0.00804	0.00589	0.00249	0.00069	0.01707	0.00319	0.0029	0.00006	0.02222	0.00189	0.01210	0.08827	0.04064	0.03126	0.02911	0.02571	0.02391
33	584503.70	4138868.48	0.02308	0.00195	0.01224	0.06393	0.01736	0.00791	0.0058	0.0024	0.00066	0.01603	0.0032	0.00291	0.00006	0.02308	0.00195	0.01224	0.08613	0.03956	0.03011	0.02800	0.02460	0.02286
34	584500.23	4138850.13	0.02371	0.00200	0.01235	0.06223	0.01716	0.00771	0.00565	0.00229	0.00063	0.01496	0.0032	0.00292	0.00005	0.02371	0.00200	0.01235	0.08336	0.03829	0.02884	0.02678	0.02342	0.02176
35	584537.28	4138897.91	0.01744	0.00154	0.01088	0.05994	0.0155	0.00744	0.00542	0.00247	0.00069	0.01834	0.00298	0.00282	0.00006	0.01744	0.00154	0.01088	0.08414	0.03970	0.03164	0.02962	0.02667	0.02489
36	584533.13	4138879.91	0.01831	0.00160	0.01103	0.05912	0.01553	0.00734	0.00535	0.00238	0.00066	0.01691	0.003	0.00282	0.00006	0.01831	0.00160	0.01103	0.08191	0.03832	0.03013	0.02814	0.02517	0.02345
37	584527.93	4138865.02	0.01925	0.00167	0.01123	0.05875	0.01565	0.0073	0.00532	0.00232	0.00064	0.01593	0.00301	0.00283	0.00006	0.01925	0.00167	0.01123	0.08058	0.03748	0.02913	0.02715	0.02415	0.02247
38	583674.05	4138932.37	0.00970	0.00111	0.00454	0.00199	0.00081	0.00045	0.00027	0.00006	0.00002	0.00471	0.00069	0.00376	0.00002	0.00970	0.00111	0.00454	0.01117	0.00999	0.00963	0.00945	0.00924	0.00920
39	583685.82	4138936.00	0.01097	0.00125	0.00492	0.0021	0.00086	0.00048	0.00029	0.00007	0.00002	0.00503	0.00071	0.00398	0.00003	0.01097	0.00125	0.00492	0.01185	0.01061	0.01023	0.01004	0.00982	0.00977
40	583705.56	4138942.41	0.01359	0.00154	0.00566	0.00231	0.00095	0.00054	0.00032	0.00007	0.00002	0.0056	0.00077	0.00439	0.00003	0.01359	0.00154	0.00566	0.01310	0.01174	0.01133	0.01111	0.01086	0.01081
41	583715.08	4138945.35	0.01514	0.00171	0.00606	0.00243	0.00101	0.00058	0.00034	0.00007	0.00002	0.0059	0.00079	0.00461	0.00003	0.01514	0.00171	0.00606	0.01376	0.01234	0.01191	0.01167	0.01140	0.01135
42	583722.18	4138945.87	0.01636	0.00185	0.00637	0.00252	0.00105	0.0006	0.00036	0.00008	0.00002	0.0061	0.00082	0.00477	0.00004	0.01636	0.00185	0.00637	0.01425	0.01278	0.01233	0.01209	0.01181	0.01175
43	583727.20	4138939.64	0.01693	0.00191	0.00652	0.00259	0.00108	0.00062	0.00036	0.00008	0.00002	0.0061	0.00084	0.00484	0.00004	0.01693	0.00191	0.00652	0.01441	0.01290	0.01244	0.01218	0.01190	0.01184
44	583734.13	4138930.98	0.01769	0.00199	0.00672	0.0027	0.00112	0.00064	0.00038	0.00008	0.00002	0.00608	0.00086	0.00492	0.00004	0.01769	0.00199	0.00672	0.01460	0.01302	0.01254	0.01228	0.01198	0.01192
45	583740.36	4138923.02	0.01834	0.00206	0.00689	0.00279	0.00116	0.00066	0.00039	0.00009	0.00002	0.00607	0.00089	0.00499	0.00004	0.01834	0.00206	0.00689	0.01478	0.01315	0.01265	0.01238	0.01208	0.01201
46	583745.55	4138915.57	0.01881	0.00211	0.00702	0.00288	0.0012	0.00067	0.0004	0.00009	0.00002	0.00604	0.00091	0.00505	0.00004	0.01881	0.00211	0.00702	0.01492	0.01324	0.01271	0.01244	0.01213	0.01206
47	583750.23	4138909.86	0.01930	0.00217	0.00716	0.00295	0.00123	0.00069	0.00041	0.00009	0.00002	0.00604	0.00093	0.0051	0.00004	0.01930	0.00217	0.00716	0.01506	0.01334	0.01280	0.01252	0.01220	0.01213
48	583755.59	4138902.41	0.01979	0.00222	0.00729	0.00304	0.00127	0.0007	0.00042	0.00009	0.00003	0.00602	0.00095	0.00515	0.00004	0.01979	0.00222	0.00729	0.01520	0.01343	0.01286	0.01258	0.01225	0.01219
49	583747.80	4138895.84	0.01788	0.00201	0.00684	0.00293	0.00121	0.00067	0.0004	0.00009	0.00002	0.0057	0.00092	0.00492	0.00004	0.01788	0.00201	0.00684	0.01451	0.01279	0.01225	0.01198	0.01167	0.01160
50	583757.15	4138883.72	0.01869	0.00210	0.00708	0.00308	0.00127	0.0007	0.00042	0.00009	0.00003	0.00569	0.00095	0.00501	0.00004	0.01869	0.00210	0.00708	0.01477	0.01296	0.01239	0.01211	0.01178	0.01172
51	583765.46	4138890.29	0.02077	0.00232	0.00757	0.00322	0.00133	0.00074	0.00044	0.0001	0.00003	0.00603	0.00099	0.00525	0.00004	0.02077	0.00232	0.00757	0.01553	0.01364	0.01305	0.01275	0.01241	0.01234
52	583771.18	4138882.33	0.02125	0.00237	0.00771	0.00332	0.00138	0.00076	0.00045	0.0001	0.00003	0.00602	0.00101	0.0053	0.00004	0.02125	0.00237	0.00771	0.01569	0.01375	0.01313	0.01282	0.01247	0.01240
53	583776.72	4138875.93	0.02180	0.00243	0.00787	0.00342	0.00142	0.00078	0.00047	0.0001	0.00003	0.00603	0.00103	0.00535	0.00004	0.02180	0.00243	0.00787	0.01587	0.01387	0.01323	0.01292	0.01255	0.01248
54	583783.64	4138866.92	0.02238	0.00249	0.00805	0.00355	0.00147	0.0008	0.00048	0.00011	0.00003	0.00603	0.00106	0.00541	0.00004	0.02238	0.00249	0.00805	0.01609	0.01401	0.01334	0.01302	0.01265	0.01257
55	583788.14	4138861.04	0.02273	0.00253	0.00816	0.00364	0.0015	0.00081	0.00049	0.00011	0.00003	0.00603	0.00108	0.00544	0.00004	0.02273	0.00253	0.00816	0.01623	0.01409	0.01340	0.01308	0.01270	0.01262
56	583794.20	4138852.90	0.02315	0.00257	0.00830	0.00375	0.00154	0.00083	0.0005	0.00011	0.00003	0.00602	0.0011	0.00548	0.00004	0.02315	0.00257	0.00830	0.01639	0.01418	0.01347	0.01314	0.01275	0.01267
57	583714.91	4138939.46	0.01486	0.00168	0.00599	0.00243	0.00101	0.00057	0.00034	0.00008	0.00002	0.00577	0.00079	0.00457	0.00004	0.01486	0.00168	0.00599	0.01360	0.01218	0.01174	0.01151	0.01125	0.01119
58	583719.93	4138932.71	0.01535	0.00174	0.00613	0.0025	0.00104	0.00059	0.00035	0.00008	0.00002	0.00575	0.00081	0.00462	0.00004	0.01535	0.00174	0.00613	0.01372	0.01226	0.01181	0.01157	0.01130	0.01124
59	583725.30	4138925.27	0.01584	0.00179	0.00627	0.00258	0.00107	0.0006	0.00036	0.00008	0.00002	0.00573	0.00083	0.00468	0.00004	0.01584	0.00179	0.00627	0.01386	0.01235	0.01188	0.01164	0.01136	0.01130
60	583731.88	4138917.30	0.01650	0.00186	0.00645	0.00268	0.00111	0.00062	0.00037	0.00008	0.00002	0.00573	0.00086	0.00476	0.00004	0.01650	0.00186	0.00645	0.01407	0.01250	0.01201	0.01176	0.01147	0.01141
61	583737.24	4138909.69	0.01695	0.00191	0.00658	0.00276	0.00114	0.00064	0.00038	0.00009	0.00002	0.00571	0.00088	0.00481	0.00004	0.01695	0.00191	0.00658	0.01420	0.01258	0.01208	0.01182	0.01153	0.01146
62	583742.96	4138903.11	0.01752	0.00197	0.00673	0.00285	0.00118	0.00066	0.00039	0.00009	0.00002	0.00572	0.0009	0.00488	0.00004	0.01752	0.00197	0.00673	0.01439	0.01272	0.01220	0.01193	0.01163	0.01156
63	583762.52	4138876.96	0.01916	0.00215	0.00721	0.00317	0.00131	0.00072	0.00043	0.0001	0.00003	0.0057	0.00097	0.00506	0.00004	0.01916	0.00215	0.00721	0.01494	0.01308	0.01249	0.01220	0.01187	0.01180
64	583768.41	4138869.87	0.01968	0.00220	0.00737	0.00328	0.00135	0.00074	0.00044	0.0001	0.00003	0.00571	0.001	0.00511	0.00004	0.01968	0.00220	0.00737	0.01514	0.01321	0.01260	0.01230	0.01196	0.01189
65	583775.16	4138860.34	0.02015	0.00225	0.00752	0.0034	0.0014	0.00076	0.00046	0.0001	0.00003	0.0057	0.00102	0.00516	0.00004	0.02015	0.00225	0.00752	0.01532	0.01332	0.01268	0.01238	0.01202	0.01195
66	583781.04	4138853.42	0.02065	0.00231	0.00767	0.0035	0.00144	0.00078	0.00047	0.00011	0.00003	0.00571	0.00105	0.00521	0.00004	0.02065	0.00231	0.00767	0.01551	0.01345	0.01279	0.01248	0.01212	0.01204
67	583694.83	4138938.94	0.01208	0.00138	0.00524	0.00219	0.0009	0.00051	0.0003	0.00007	0.00002	0.00528	0.00074	0.00416	0.00003	0.01208	0.00138	0.00524	0.01240	0.01111	0.01072	0.01051	0.01028	0.01023
68	584511.66	4138899.64	0.02033	0.00175	0.01163	0.06425	0.0169	0.00792	0.0058	0.00253	0.0007	0.01715	0.00318	0.00282	0.00006	0.02033	0.00175	0.01163	0.08746	0.04011	0.03113	0.02901	0.02574	0.02391
69	584507.85	4138883.72	0.02120	0.00181	0.01176	0.06315	0.01685	0.00779	0.00571	0.00243	0.00067	0.01605	0.00318	0.00282	0.00006	0.02120	0.00181	0.01176	0.08526	0.03896	0.02990	0.02782	0.02454	0.02278
70	584503.70	4138868.48	0.02201	0.00187	0.01190	0.06207	0.0168	0.00767	0.00562	0.00234	0.00065	0.01511	0.00318	0.00283	0.00005	0.02201	0.00187	0.01190	0.08324	0.03797	0.02884	0.02679	0.02351	0.02182
71	584500.23	4138850.13	0.02263	0.00191	0.01201	0.06047	0.01662	0.00748	0.00548	0.00224	0.00062	0.01416	0.00318	0.00285	0.00005	0.02263	0.00191	0.01201	0.08071	0.03686	0.02772	0.02572	0.02248	0.02086
72	584537.28	4138897.91	0.01671	0.00148	0.01058	0.05822	0.01501	0.00721	0.00525	0.00241	0.00067	0.01713	0.00296	0.00273	0.00006	0.01671	0.00148	0.01058	0.08110	0.03789	0.03009	0.02813	0.02529	0.02355
73	584533.13	4138879.91	0.01753	0.00154	0.01073	0.05743	0.01504	0.00712	0.00519	0.00233	0.00065	0.01589	0.00299	0.00273	0.00006	0.01753	0.00154	0.01073	0.07910	0.03671	0.02879	0.02686	0.02400	0.02232
74	584527.93	4138865.02	0.01845	0.00161	0.01093	0.05712	0.01517	0.00709	0.00517	0.00226	0.00063	0.01505	0.00299	0.00275	0.00005	0.01845	0.00161	0.01093	0.07796	0.03601	0.02793	0.02601	0.02310	0.02147
75	583484.36	4139204.52	0.00258	0.00028	0.00123	0.00127	0.00048	0.00021	0.00014	0.00004	0.00001	0.00643	0.00039	0.00153	0.00001	0.00258	0.00028	0.00123	0.00963	0.00884	0.00857	0.00850	0.00840	0.00837
76	583493.96	4139201.73	0.00269	0.00030	0.00129	0.00129	0.00049	0.00021	0.00014	0.00004	0.00001	0.00771	0.0004	0.00159	0.00002	0.00269	0.00030	0.00129	0.01101	0.01021	0.00993	0.00986	0.00976	0.00973
77	583503.57	4139198.94	0.00281	0.00031	0.00135	0.00131	0.0005	0.00022	0.00014	0.00004	0.00001	0.00895	0.0004	0.00165	0.00002	0.00281	0.00031	0.00135	0.01233	0.01152	0.01124	0.01116	0.01106	0.01103
78	583513.17	4139196.15	0.00294	0.00032	0.00143	0.00134	0.00051	0.00023	0.00015	0.00004	0.00001	0.01007	0.00041	0.00171	0.00002	0.00294	0.00032	0.00143	0.01355	0.01272	0.01244	0.01236	0.01225	0.01222
79	583522.77	4139193.37	0.00308	0.00034	0.00152	0.00136	0.00052	0.00023	0.00015	0.00004	0.00001	0.01106	0.00042	0.00178	0.00002	0.00308	0.00034	0.00152	0.01464	0.01380	0.01351	0.01343	0.01332	0.01329
80	583532.38	4139190.58	0.00323	0.00036	0.00161	0.00139	0.00053	0.00024	0.00016	0.00004	0.00001	0.01192	0.00042	0.00186	0.00002	0.00323	0.00036	0.00161	0.01561	0.01475	0.01446	0.01438	0.01426	0.01423
81	583541.98	4139187.79	0.00340	0.00038	0.00172	0.00142	0.00055	0.00025	0.00016	0.00004	0.00001	0.01261	0.00043	0.00195	0.00002	0.00340	0.00038	0.00172	0.01643	0.01556	0.01526	0.01517	0.01505	0.01502
82	583487.15	4139214.12	0.00269	0.00029	0.00125	0.0013	0.00049	0.00021	0.00014	0.00004	0.00001	0.00787	0.00039	0.00154	0.00002	0.00269	0.00029	0.00125	0.01112	0.01031	0.01003	0.00996	0.00986	0.00983
83	583496.75	4139211.33	0.00280	0.00031	0.00131	0.00132	0.0005	0.00022	0.00014	0.00004	0.00001	0.00946	0.0004	0.0016	0.00002	0.00280	0.00031	0.00131	0.01280	0.01198	0.01170	0.01162	0.01152	0.01149
84	583506.36	4139208.55	0.00293	0.00032	0.00138	0.00134	0.00051	0.00022	0.00015	0.00004	0.00001	0.01094	0.00041	0.00166	0.00002	0.00293	0.00032	0.00138	0.01437	0.01354	0.01325	0.01318	0.01307	0.01304
85	583515.96	4139205.76	0.00306	0.00034	0.00145	0.00137	0.00052	0.00023	0.00015	0.00004	0.00001	0.0122	0.00041	0.00172	0.00002	0.00306	0.00034	0.00145	0.01572	0.01487	0.01458	0.01450	0.01439	0.01436
86	583525.56	4139202.97	0.00321	0.00036	0.00154	0.00139	0.00053	0.00024	0.00015	0.00004	0.00001	0.01326	0.00042	0.0018	0.00002	0.00321	0.00036	0.00154	0.01689	0.01603	0.01574	0.01565	0.01554	0.01551
87	583535.17	4139200.18	0.00338	0.00037	0.00163	0.00142	0.00054	0.00025	0.00016	0.00004	0.00001	0.01414	0.00043	0.00187	0.00002	0.00338	0.00037	0.00163	0.01788	0.01700	0.01671	0.01662	0.01650	0.01647
88	583544.77	4139197.39	0.00356	0.00040	0.00174	0.00145	0.00056	0.00025	0.00016	0.00004	0.00001	0.01485	0.00044	0.00196	0.00002	0.00356	0.00040	0.00174	0.01872	0.01783	0.01752	0.01743	0.01731	0.01728
89	583489.94	4139223.73	0.00280	0.00031	0.00127	0.00132	0.0005	0.00022	0.00014	0.00004	0.00001	0.00995	0.0004	0.00155	0.00002	0.00280	0.00031	0.00127	0.01324	0.01242	0.01214	0.01206	0.01196	0.01193
90	583499.54	4139220.94	0.00292	0.00032	0.00133	0.00135	0.00051	0.00022	0.00015	0.00004	0.00001	0.01194	0.00041	0.00161	0.00002	0.00292	0.00032	0.00133	0.01533	0.01449	0.01420	0.01413	0.01402	0.01399
91	583509.14	4139218.15	0.00306	0.00034	0.00140	0.00137	0.00052	0.00023	0.00015	0.00004	0.00001	0.01364	0.00041	0.00167	0.00002	0.00306	0.00034	0.00140	0.01711	0.01626	0.01597	0.01589	0.01578	0.01575
92	583518.75	4139215.36	0.00320	0.00035	0.00147	0.0014	0.00053	0.00023	0.00015	0.00004	0.00001	0.01502	0.00042	0.00174	0.00002	0.00320	0.00035	0.00147	0.01860	0.01773	0.01743	0.01735	0.01724	0.01721
93	583528.35	4139212.57	0.00336	0.00037	0.00156	0.00142	0.00054	0.00024	0.00016	0.00004	0.00001	0.01611	0.00042	0.00181	0.00002	0.00336	0.00037	0.00156	0.01978	0.01890	0.01860	0.01852	0.01840	0.01837
94	583537.95	4139209.79	0.00353	0.00039	0.00165	0.00145	0.00056	0.00025	0.00016	0.00004	0.00001	0.017	0.00043	0.00189	0.00002	0.00353	0.00039	0.00165	0.02079	0.01990	0.01959	0.01950	0.01938	0.01935
95	583547.56	4139207.00	0.00372	0.00041	0.00176	0.00148	0.00057	0.00026	0.00017	0.00004	0.00001	0.01775	0.00044	0.00197	0.00002	0.00372	0.00041	0.00176	0.02166	0.02075	0.02044	0.02035	0.02022	0.02019
96	583492.73	4139233.33	0.00292	0.00032	0.00130	0.00135	0.00051	0.00022	0.00014	0.00004	0.00001	0.01308	0.00041	0.00157	0.00002	0.00292	0.00032	0.00130	0.01643	0.01559	0.01530	0.01522	0.01512	0.01509
97	583502.33	4139230.54	0.00305	0.00033	0.00136	0.00137	0.00052	0.00023	0.00015	0.00004	0.00001	0.0155	0.00041	0.00162	0.00002	0.00305	0.00033	0.00136	0.01892	0.01807	0.01778	0.01770	0.01759	0.01756
98	583511.93	4139227.75	0.00320	0.00035	0.00143	0.0014	0.00053	0.00023	0.00015	0.00004	0.00001	0.01739	0.00042	0.00168	0.00002	0.00320	0.00035	0.00143	0.02091	0.02004	0.01974	0.01966	0.01955	0.01952
99	583521.54	4139224.97	0.00335	0.00037	0.00150	0.00143	0.00054	0.00024	0.00016	0.00004	0.00001	0.01881	0.00043	0.00175	0.00002	0.00335	0.00037	0.00150	0.02244	0.02155	0.02125	0.02117	0.02105	0.02102
100	583531.14	4139222.18	0.00352	0.00039	0.00158	0.00145	0.00055	0.00025	0.00016	0.00004	0.00001	0.0199	0.00043	0.00182	0.00002	0.00352	0.00039	0.00158	0.02362	0.02272	0.02242	0.02233	0.02221	0.02218
101	583540.74	4139219.39	0.00370	0.00041	0.00168	0.00148	0.00057	0.00025	0.00017	0.00004	0.00001	0.02082	0.00044	0.0019	0.00002	0.00370	0.00041	0.00168	0.02466	0.02375	0.02343	0.02335	0.02322	0.02319
102	583550.35	4139216.60	0.00391	0.00043	0.00179	0.00152	0.00058	0.00026	0.00017	0.00005	0.00001	0.02163	0.00045	0.00199	0.00002	0.00391	0.00043	0.00179	0.02561	0.02467	0.02435	0.02426	0.02414	0.02410
103	583495.51	4139242.93	0.00305	0.00033	0.00134	0.00138	0.00052	0.00022	0.00015	0.00004	0.00001	0.01789	0.00041	0.00158	0.00002	0.00305	0.00033	0.00134	0.02128	0.02042	0.02012	0.02005	0.01994	0.01991
104	583505.12	4139240.15	0.00319	0.00035	0.00139	0.0014	0.00053	0.00023	0.00015	0.00004	0.00001	0.02069	0.00042	0.00164	0.00002	0.00319	0.00035	0.00139	0.02417	0.02330	0.02300	0.02292	0.02281	0.02278
105	583514.72	4139237.36	0.00335	0.00037	0.00146	0.00143	0.00054	0.00024	0.00016	0.00004	0.00001	0.02267	0.00043	0.0017	0.00002	0.00335	0.00037	0.00146	0.02625	0.02536	0.02506	0.02498	0.02486	0.02483
106	583524.32	4139234.57	0.00351	0.00038	0.00153	0.00146	0.00055	0.00024	0.00016	0.00004	0.00001	0.02407	0.00043	0.00176	0.00002	0.00351	0.00038	0.00153	0.02774	0.02683	0.02652	0.02644	0.02632	0.02629
107	583533.93	4139231.78	0.00369	0.00040	0.00161	0.00149	0.00056	0.00025	0.00016	0.00005	0.00001	0.02511	0.00044	0.00184	0.00002	0.00369	0.00040	0.00161	0.02890	0.02797	0.02766	0.02757	0.02746	0.02742
108	583543.53	4139228.99	0.00389	0.00043	0.00171	0.00152	0.00058	0.00026	0.00017	0.00005	0.00001	0.02619	0.00045	0.00192	0.00002	0.00389	0.00043	0.00171	0.03010	0.02916	0.02884	0.02875	0.02863	0.02859
109	583553.13	4139226.20	0.00412	0.00045	0.00182	0.00155	0.0006	0.00027	0.00017	0.00005	0.00001	0.02707	0.00046	0.00201	0.00002	0.00412	0.00045	0.00182	0.03111	0.03016	0.02983	0.02973	0.02961	0.02957
110	583498.30	4139252.54	0.00319	0.00035	0.00137	0.00141	0.00053	0.00023	0.00015	0.00004	0.00001	0.02557	0.00042	0.0016	0.00002	0.00319	0.00035	0.00137	0.02902	0.02814	0.02784	0.02776	0.02765	0.02762
111	583507.91	4139249.75	0.00334	0.00036	0.00143	0.00143	0.00054	0.00024	0.00015	0.00004	0.00001	0.02834	0.00043	0.00165	0.00002	0.00334	0.00036	0.00143	0.03187	0.03098	0.03068	0.03059	0.03048	0.03045
112	583517.51	4139246.96	0.00351	0.00038	0.00149	0.00146	0.00055	0.00024	0.00016	0.00005	0.00001	0.03021	0.00044	0.00171	0.00002	0.00351	0.00038	0.00149	0.03384	0.03293	0.03262	0.03254	0.03243	0.03239
113	583527.11	4139244.17	0.00368	0.00040	0.00157	0.00149	0.00056	0.00025	0.00016	0.00005	0.00001	0.03153	0.00044	0.00178	0.00002	0.00368	0.00040	0.00157	0.03526	0.03433	0.03402	0.03393	0.03382	0.03378
114	583536.72	4139241.38	0.00388	0.00042	0.00165	0.00152	0.00058	0.00026	0.00017	0.00005	0.00001	0.03268	0.00045	0.00185	0.00002	0.00388	0.00042	0.00165	0.03652	0.03558	0.03526	0.03517	0.03505	0.03501
115	583546.32	4139238.60	0.00410	0.00045	0.00175	0.00155	0.00059	0.00027	0.00017	0.00005	0.00001	0.03402	0.00046	0.00194	0.00002	0.00410	0.00045	0.00175	0.03799	0.03703	0.03671	0.03661	0.03649	0.03645
116	583555.92	4139235.81	0.00435	0.00048	0.00186	0.00159	0.00061	0.00028	0.00018	0.00005	0.00001	0.03516	0.00047	0.00203	0.00002	0.00435	0.00048	0.00186	0.03927	0.03829	0.03796	0.03786	0.03773	0.03769
117	583484.36	4139204.52	0.00249	0.00027	0.00117	0.00125	0.00047	0.0002	0.00013	0.00004	0.00001	0.00524	0.00038	0.0015	0.00001	0.00249	0.00027	0.00117	0.00838	0.00760	0.00733	0.00726	0.00717	0.00714
118	583493.96	4139201.73	0.00259	0.00028	0.00122	0.00127	0.00048	0.00021	0.00014	0.00004	0.00001	0.00626	0.00038	0.00155	0.00001	0.00259	0.00028	0.00122	0.00947	0.00868	0.00841	0.00834	0.00824	0.00821
119	583503.57	4139198.94	0.00270	0.00030	0.00129	0.00129	0.00049	0.00021	0.00014	0.00004	0.00001	0.00726	0.00039	0.00161	0.00001	0.00270	0.00030	0.00129	0.01056	0.00976	0.00948	0.00941	0.00931	0.00928
120	583513.17	4139196.15	0.00282	0.00031	0.00136	0.00131	0.0005	0.00022	0.00014	0.00004	0.00001	0.00818	0.0004	0.00168	0.00001	0.00282	0.00031	0.00136	0.01158	0.01077	0.01049	0.01041	0.01031	0.01028
121	583522.77	4139193.37	0.00295	0.00033	0.00144	0.00134	0.00051	0.00023	0.00015	0.00004	0.00001	0.00901	0.0004	0.00175	0.00001	0.00295	0.00033	0.00144	0.01251	0.01168	0.01140	0.01132	0.01121	0.01118
122	583532.38	4139190.58	0.00310	0.00034	0.00153	0.00136	0.00052	0.00023	0.00015	0.00004	0.00001	0.00972	0.00041	0.00182	0.00001	0.00310	0.00034	0.00153	0.01332	0.01248	0.01219	0.01211	0.01200	0.01197
123	583541.98	4139187.79	0.00325	0.00036	0.00164	0.00139	0.00053	0.00024	0.00016	0.00004	0.00001	0.01029	0.00042	0.00191	0.00002	0.00325	0.00036	0.00164	0.01403	0.01317	0.01288	0.01280	0.01268	0.01265
124	583487.15	4139214.12	0.00259	0.00028	0.00119	0.00127	0.00048	0.00021	0.00014	0.00004	0.00001	0.00617	0.00038	0.00151	0.00001	0.00259	0.00028	0.00119	0.00934	0.00855	0.00828	0.00821	0.00811	0.00808
125	583496.75	4139211.33	0.00270	0.00029	0.00124	0.0013	0.00049	0.00021	0.00014	0.00004	0.00001	0.0074	0.00039	0.00156	0.00001	0.00270	0.00029	0.00124	0.01066	0.00985	0.00957	0.00950	0.00940	0.00937
126	583506.36	4139208.55	0.00282	0.00031	0.00131	0.00132	0.0005	0.00022	0.00014	0.00004	0.00001	0.00856	0.0004	0.00162	0.00001	0.00282	0.00031	0.00131	0.01191	0.01109	0.01081	0.01073	0.01063	0.01060
127	583515.96	4139205.76	0.00294	0.00032	0.00138	0.00134	0.00051	0.00022	0.00015	0.00004	0.00001	0.00956	0.0004	0.00169	0.00001	0.00294	0.00032	0.00138	0.01300	0.01217	0.01188	0.01181	0.01170	0.01167
128	583525.56	4139202.97	0.00308	0.00034	0.00146	0.00137	0.00052	0.00023	0.00015	0.00004	0.00001	0.01042	0.00041	0.00176	0.00001	0.00308	0.00034	0.00146	0.01397	0.01312	0.01283	0.01275	0.01264	0.01261
129	583535.17	4139200.18	0.00323	0.00036	0.00155	0.00139	0.00053	0.00024	0.00015	0.00004	0.00001	0.01113	0.00042	0.00184	0.00002	0.00323	0.00036	0.00155	0.01480	0.01394	0.01365	0.01356	0.01345	0.01342
130	583544.77	4139197.39	0.00340	0.00038	0.00165	0.00142	0.00054	0.00025	0.00016	0.00004	0.00001	0.01171	0.00043	0.00192	0.00002	0.00340	0.00038	0.00165	0.01550	0.01462	0.01433	0.01424	0.01412	0.01409
131	583489.94	4139223.73	0.00270	0.00029	0.00121	0.0013	0.00049	0.00021	0.00014	0.00004	0.00001	0.00739	0.00039	0.00152	0.00001	0.00270	0.00029	0.00121	0.01061	0.00980	0.00952	0.00945	0.00935	0.00932
132	583499.54	4139220.94	0.00281	0.00031	0.00127	0.00132	0.0005	0.00022	0.00014	0.00004	0.00001	0.00886	0.0004	0.00157	0.00001	0.00281	0.00031	0.00127	0.01216	0.01134	0.01106	0.01098	0.01088	0.01085
133	583509.14	4139218.15	0.00294	0.00032	0.00133	0.00135	0.00051	0.00022	0.00015	0.00004	0.00001	0.01015	0.0004	0.00163	0.00001	0.00294	0.00032	0.00133	0.01354	0.01270	0.01241	0.01234	0.01223	0.01220
134	583518.75	4139215.36	0.00307	0.00034	0.00140	0.00137	0.00052	0.00023	0.00015	0.00004	0.00001	0.01119	0.00041	0.0017	0.00001	0.00307	0.00034	0.00140	0.01468	0.01383	0.01354	0.01346	0.01335	0.01332
135	583528.35	4139212.57	0.00322	0.00035	0.00148	0.0014	0.00053	0.00023	0.00015	0.00004	0.00001	0.01204	0.00041	0.00177	0.00001	0.00322	0.00035	0.00148	0.01563	0.01476	0.01446	0.01438	0.01427	0.01424
136	583537.95	4139209.79	0.00338	0.00037	0.00157	0.00142	0.00054	0.00024	0.00016	0.00004	0.00001	0.01277	0.00042	0.00185	0.00002	0.00338	0.00037	0.00157	0.01648	0.01560	0.01530	0.01522	0.01510	0.01507
137	583547.56	4139207.00	0.00356	0.00039	0.00167	0.00145	0.00056	0.00025	0.00016	0.00004	0.00001	0.01339	0.00043	0.00193	0.00002	0.00356	0.00039	0.00167	0.01722	0.01633	0.01602	0.01593	0.01581	0.01578
138	583492.73	4139233.33	0.00281	0.00031	0.00124	0.00133	0.0005	0.00021	0.00014	0.00004	0.00001	0.00897	0.0004	0.00153	0.00001	0.00281	0.00031	0.00124	0.01224	0.01141	0.01112	0.01105	0.01095	0.01092
139	583502.33	4139230.54	0.00293	0.00032	0.00129	0.00135	0.00051	0.00022	0.00014	0.00004	0.00001	0.01066	0.0004	0.00159	0.00001	0.00293	0.00032	0.00129	0.01401	0.01317	0.01288	0.01280	0.01270	0.01267
140	583511.93	4139227.75	0.00307	0.00033	0.00136	0.00138	0.00052	0.00023	0.00015	0.00004	0.00001	0.01201	0.00041	0.00165	0.00001	0.00307	0.00033	0.00136	0.01546	0.01460	0.01431	0.01423	0.01412	0.01409
141	583521.54	4139224.97	0.00321	0.00035	0.00142	0.0014	0.00053	0.00023	0.00015	0.00004	0.00001	0.01305	0.00041	0.00171	0.00001	0.00321	0.00035	0.00142	0.01658	0.01571	0.01541	0.01533	0.01522	0.01519

Receptor	UTM Coordinates (m)		Construction Total PM2.5 (Fugitive + Exhaust) Concentrations ($\mu g/m^3$)									Project Operation Local Roads	Project Generators	Cooling Tower	Char-broilers	Total Construction & Operation								
No.	UTM-X	UTM-Y	2023	2024	2025	2026	2027	2028	2029	2030	2031	2026	2026	2026	2026	2023	2024	2025	2026	2027	2028	2029	2030	2031
142	583531.14	4139222.18	0.00337	0.00037	0.00150	0.00143	0.00054	0.00024	0.00016	0.00004	0.00001	0.01386	0.00042	0.00178	0.00002	0.00337	0.00037	0.00150	0.01751	0.01662	0.01632	0.01624	0.01612	0.01609
143	583540.74	4139219.39	0.00354	0.00039	0.00159	0.00146	0.00055	0.00025	0.00016	0.00004	0.00001	0.01462	0.00043	0.00186	0.00002	0.00354	0.00039	0.00159	0.01839	0.01748	0.01718	0.01709	0.01697	0.01694
144	583550.35	4139216.60	0.00373	0.00041	0.00170	0.00149	0.00057	0.00026	0.00017	0.00004	0.00001	0.01535	0.00044	0.00195	0.00002	0.00373	0.00041	0.00170	0.01925	0.01833	0.01802	0.01793	0.01780	0.01777
145	583495.51	4139242.93	0.00293	0.00032	0.00127	0.00136	0.00051	0.00022	0.00014	0.00004	0.00001	0.01085	0.0004	0.00154	0.00001	0.00293	0.00032	0.00127	0.01416	0.01331	0.01302	0.01294	0.01284	0.01281
146	583505.12	4139240.15	0.00306	0.00033	0.00133	0.00138	0.00052	0.00022	0.00015	0.00004	0.00001	0.01264	0.00041	0.0016	0.00001	0.00306	0.00033	0.00133	0.01604	0.01518	0.01488	0.01481	0.01470	0.01467
147	583514.72	4139237.36	0.00321	0.00035	0.00139	0.00141	0.00053	0.00023	0.00015	0.00004	0.00001	0.01398	0.00042	0.00166	0.00001	0.00321	0.00035	0.00139	0.01748	0.01660	0.01630	0.01622	0.01611	0.01608
148	583524.32	4139234.57	0.00336	0.00037	0.00145	0.00143	0.00054	0.00024	0.00016	0.00004	0.00001	0.01496	0.00042	0.00173	0.00002	0.00336	0.00037	0.00145	0.01856	0.01767	0.01737	0.01729	0.01717	0.01714
149	583533.93	4139231.78	0.00353	0.00039	0.00153	0.00146	0.00055	0.00024	0.00016	0.00004	0.00001	0.01573	0.00043	0.0018	0.00002	0.00353	0.00039	0.00153	0.01944	0.01853	0.01822	0.01814	0.01802	0.01799
150	583543.53	4139228.99	0.00372	0.00041	0.00162	0.00149	0.00057	0.00025	0.00016	0.00005	0.00001	0.01666	0.00044	0.00188	0.00002	0.00372	0.00041	0.00162	0.02049	0.01957	0.01925	0.01916	0.01905	0.01901
151	583553.13	4139226.20	0.00393	0.00043	0.00173	0.00152	0.00058	0.00026	0.00017	0.00005	0.00001	0.01748	0.00044	0.00197	0.00002	0.00393	0.00043	0.00173	0.02143	0.02049	0.02017	0.02008	0.01996	0.01992
152	583498.30	4139252.54	0.00307	0.00033	0.00131	0.00139	0.00052	0.00022	0.00015	0.00004	0.00001	0.01279	0.00041	0.00156	0.00001	0.00307	0.00033	0.00131	0.01616	0.01529	0.01499	0.01492	0.01481	0.01478
153	583507.91	4139249.75	0.00321	0.00035	0.00136	0.00141	0.00053	0.00023	0.00015	0.00004	0.00001	0.01438	0.00042	0.00162	0.00001	0.00321	0.00035	0.00136	0.01784	0.01696	0.01666	0.01658	0.01647	0.01644
154	583517.51	4139246.96	0.00336	0.00037	0.00142	0.00144	0.00054	0.00024	0.00015	0.00004	0.00001	0.01556	0.00042	0.00168	0.00002	0.00336	0.00037	0.00142	0.01912	0.01822	0.01792	0.01783	0.01772	0.01769
155	583527.11	4139244.17	0.00353	0.00038	0.00149	0.00146	0.00055	0.00024	0.00016	0.00004	0.00001	0.01646	0.00043	0.00174	0.00002	0.00353	0.00038	0.00149	0.02011	0.01920	0.01889	0.01881	0.01869	0.01866
156	583536.72	4139241.38	0.00371	0.00041	0.00157	0.00149	0.00056	0.00025	0.00016	0.00005	0.00001	0.01733	0.00044	0.00182	0.00002	0.00371	0.00041	0.00157	0.02110	0.02017	0.01986	0.01977	0.01966	0.01962
157	583546.32	4139238.60	0.00392	0.00043	0.00166	0.00152	0.00058	0.00026	0.00017	0.00005	0.00001	0.01845	0.00045	0.0019	0.00002	0.00392	0.00043	0.00166	0.02234	0.02140	0.02108	0.02099	0.02087	0.02083
158	583555.92	4139235.81	0.00415	0.00045	0.00176	0.00156	0.00059	0.00027	0.00017	0.00005	0.00001	0.01948	0.00046	0.00199	0.00002	0.00415	0.00045	0.00176	0.02351	0.02254	0.02222	0.02212	0.02200	0.02196
159	583979.57	4139386.45	0.03149	0.00968	0.33500	0.0418	0.026	0.02044	0.01076	0.00044	0.00011	0.01613	0.00258	0.00988	0.00011	0.03149	0.00968	0.33500	0.07050	0.05470	0.04914	0.03946	0.02914	0.02881
160	583988.23	4139383.99	0.03084	0.00864	0.28110	0.0402	0.02378	0.01806	0.00962	0.00049	0.00012	0.01639	0.00262	0.00955	0.00011	0.03084	0.00864	0.28110	0.06887	0.05245	0.04673	0.03829	0.02916	0.02879
161	583996.88	4139381.52	0.03024	0.00789	0.24449	0.03984	0.02245	0.01646	0.00888	0.00054	0.00014	0.01684	0.0027	0.00924	0.00011	0.03024	0.00789	0.24449	0.06873	0.05134	0.04535	0.03777	0.02943	0.02903
162	584005.54	4139379.06	0.02969	0.00737	0.22038	0.04066	0.02186	0.01551	0.00847	0.0006	0.00015	0.01753	0.00279	0.00895	0.00011	0.02969	0.00737	0.22038	0.07004	0.05124	0.04489	0.03785	0.02998	0.02953
163	584014.20	4139376.60	0.02919	0.00702	0.20547	0.04263	0.0219	0.01507	0.00835	0.00067	0.00017	0.01855	0.00292	0.00867	0.00011	0.02919	0.00702	0.20547	0.07288	0.05215	0.04532	0.03860	0.03092	0.03042
164	584022.85	4139374.14	0.02876	0.00680	0.19719	0.04581	0.0225	0.01506	0.00847	0.00075	0.00019	0.02002	0.00305	0.00842	0.00012	0.02876	0.00680	0.19719	0.07742	0.05411	0.04667	0.04008	0.03236	0.03180
165	584031.51	4139371.67	0.02840	0.00668	0.19347	0.05039	0.02359	0.0154	0.00881	0.00086	0.00022	0.02223	0.00317	0.00818	0.00013	0.02840	0.00668	0.19347	0.08410	0.05730	0.04911	0.04252	0.03457	0.03393
166	583982.03	4139395.11	0.02793	0.00910	0.32451	0.04227	0.02584	0.01998	0.01057	0.00046	0.00012	0.01636	0.00268	0.00959	0.00011	0.02793	0.00910	0.32451	0.07101	0.05458	0.04872	0.03931	0.02920	0.02886
167	583990.69	4139392.64	0.02759	0.00816	0.27366	0.0411	0.02388	0.0178	0.00954	0.00051	0.00013	0.01668	0.00273	0.00928	0.00010	0.02759	0.00816	0.27366	0.06989	0.05267	0.04659	0.03833	0.02930	0.02892
168	583999.35	4139390.18	0.02729	0.00751	0.24062	0.04126	0.02286	0.01644	0.00892	0.00056	0.00014	0.01721	0.00281	0.009	0.00011	0.02729	0.00751	0.24062	0.07039	0.05199	0.04557	0.03805	0.02969	0.02927
169	584008.00	4139387.72	0.02701	0.00709	0.22037	0.04265	0.0226	0.01573	0.00865	0.00062	0.00016	0.018	0.00291	0.00873	0.00011	0.02701	0.00709	0.22037	0.07240	0.05235	0.04548	0.03840	0.03037	0.02991
170	584016.66	4139385.26	0.02676	0.00685	0.20924	0.04526	0.02301	0.01555	0.00867	0.0007	0.00017	0.01916	0.00302	0.00848	0.00011	0.02676	0.00685	0.20924	0.07603	0.05378	0.04632	0.03944	0.03147	0.03094
171	584025.32	4139382.79	0.02655	0.00672	0.20446	0.04916	0.02397	0.01578	0.00892	0.00079	0.0002	0.02084	0.00318	0.00824	0.00012	0.02655	0.00672	0.20446	0.08154	0.05635	0.04816	0.04130	0.03317	0.03258
172	584033.97	4139380.33	0.02638	0.00668	0.20381	0.05458	0.02543	0.01636	0.00939	0.00091	0.00023	0.02336	0.00331	0.00802	0.00013	0.02638	0.00668	0.20381	0.08940	0.06025	0.05118	0.04421	0.03573	0.03505
173	583984.50	4139403.76	0.02510	0.00857	0.31258	0.04286	0.02567	0.01946	0.01037	0.00048	0.00012	0.01664	0.00278	0.00925	0.00011	0.02510	0.00857	0.31258	0.07164	0.05445	0.04824	0.03915	0.02926	0.02890
174	583993.15	4139401.30	0.02495	0.00773	0.26602	0.04226	0.02407	0.01756	0.00947	0.00053	0.00013	0.01703	0.00283	0.00898	0.00011	0.02495	0.00773	0.26602	0.07121	0.05302	0.04651	0.03842	0.02948	0.02908
175	583986.96	4139412.42	0.02281	0.00807	0.29982	0.04366	0.02555	0.01893	0.01016	0.00051	0.00012	0.01696	0.00286	0.00888	0.00011	0.02281	0.00807	0.29982	0.07247	0.05436	0.04774	0.03897	0.02932	0.02893
176	583995.62	4139409.96	0.02278	0.00736	0.25892	0.04379	0.02439	0.01738	0.00945	0.00056	0.00014	0.01743	0.00295	0.00866	0.00011	0.02278	0.00736	0.25892	0.07294	0.05354	0.04653	0.03860	0.02971	0.02929
177	583989.42	4139421.08	0.02091	0.00761	0.28684	0.04476	0.02551	0.01842	0.00997	0.00053	0.00013	0.0173	0.00298	0.00848	0.00011	0.02091	0.00761	0.28684	0.07363	0.05438	0.04729	0.03884	0.02940	0.02900
178	583998.08	4139418.61	0.02096	0.00707	0.25362	0.04581	0.02493	0.01733	0.0095	0.00059	0.00014	0.01783	0.0031	0.0083	0.00011	0.02096	0.00707	0.25362	0.07515	0.05427	0.04667	0.03884	0.02993	0.02948
179	583991.88	4139429.73	0.01932	0.00720	0.27481	0.04626	0.02563	0.01799	0.00984	0.00056	0.00014	0.01761	0.00315	0.00807	0.00011	0.01932	0.00720	0.27481	0.07520	0.05457	0.04693	0.03878	0.02950	0.02908
180	584000.54	4139427.27	0.01941	0.00686	0.25190	0.04846	0.02578	0.0175	0.00968	0.00062	0.00015	0.01818	0.00331	0.00793	0.00012	0.01941	0.00686	0.25190	0.07800	0.05532	0.04704	0.03922	0.03016	0.02969
181	583994.35	4139438.39	0.01795	0.00686	0.26570	0.04828	0.026	0.01774	0.0098	0.0006	0.00014	0.01786	0.00335	0.00765	0.00012	0.01795	0.00686	0.26570	0.07726	0.05498	0.04672	0.03878	0.02958	0.02912
182	584003.00	4139435.93	0.01807	0.00680	0.25670	0.05189	0.02708	0.01801	0.01005	0.00066	0.00016	0.01844	0.00354	0.00755	0.00012	0.01807	0.00680	0.25670	0.08154	0.05673	0.04766	0.03970	0.03031	0.02981
183	583996.81	4139447.05	0.01676	0.00666	0.26315	0.05096	0.02678	0.01782	0.00994	0.00063	0.00015	0.01802	0.00357	0.00724	0.00012	0.01676	0.00666	0.26315	0.07991	0.05573	0.04677	0.03889	0.02958	0.02910
184	584005.47	4139444.58	0.01689	0.00694	0.27267	0.05624	0.029	0.01906	0.01069	0.0007	0.00016	0.01857	0.00381	0.00717	0.00013	0.01689	0.00694	0.27267	0.08592	0.05868	0.04874	0.04037	0.03038	0.02984
185	583999.27	4139455.70	0.01571	0.00668	0.27358	0.05449	0.02819	0.01845	0.01037	0.00068	0.00016	0.01809	0.00381	0.00685	0.00012	0.01571	0.00668	0.27358	0.08336	0.05706	0.04732	0.03924	0.02955	0.02903
186	584007.93	4139453.24	0.01584	0.00737	0.30698	0.06164	0.03173	0.02084	0.01172	0.00075	0.00017	0.01858	0.00405	0.00681	0.00013	0.01584	0.00737	0.30698	0.09121	0.06130	0.05041	0.04129	0.03032	0.02974
187	584016.59	4139450.78	0.01598	0.00817	0.34638	0.0701	0.03581	0.02359	0.01328	0.00083	0.00019	0.01925	0.00428	0.00675	0.00013	0.01598	0.00817	0.34638	0.10051	0.06622	0.05400	0.04369	0.03124	0.03060
188	584025.24	4139448.31	0.01613	0.00891	0.38314	0.07967	0.04007	0.02634	0.01488	0.00093	0.00021	0.0201	0.00453	0.00669	0.00013	0.01613	0.00891	0.38314	0.11112	0.07152	0.05779	0.04633	0.03238	0.03166
189	584033.90	4139445.85	0.01627	0.00957	0.41497	0.09061	0.04446	0.029	0.01649	0.00105	0.00024	0.02116	0.00473	0.00663	0.00013	0.01627	0.00957	0.41497	0.12326	0.07711	0.06165	0.04914	0.03370	0.03289
190	584042.55	4139443.39	0.01641	0.01011	**0.44127**	0.10339	0.04902	0.03157	0.01813	0.00121	0.00027	0.02251	0.00493	0.00655	0.00013	0.01641	0.01011	**0.44127**	0.13751	0.08314	0.06569	0.05225	0.03533	0.03439
191	583979.57	4139386.45	0.02883	0.00815	0.25976	0.03637	0.02205	0.01704	0.00899	0.00041	0.0001	0.01497	0.00256	0.01053	0.00010	0.02883	0.00815	0.25976	0.06453	0.05021	0.04520	0.03715	0.02857	0.02826
192	583988.23	4139383.99	0.02839	0.00739	0.22618	0.03518	0.02039	0.01524	0.00814	0.00044	0.00011	0.01516	0.0026	0.01012	0.00010	0.02839	0.00739	0.22618	0.06316	0.04837	0.04322	0.03612	0.02842	0.02809
193	583996.88	4139381.52	0.02798	0.00683	0.20192	0.03504	0.01944	0.01406	0.0076	0.00049	0.00012	0.01548	0.00268	0.00975	0.00010	0.02798	0.00683	0.20192	0.06305	0.04745	0.04207	0.03561	0.02850	0.02813
194	584005.54	4139379.06	0.02759	0.00645	0.18551	0.03586	0.01908	0.01337	0.00732	0.00054	0.00014	0.01597	0.00278	0.0094	0.00011	0.02759	0.00645	0.18551	0.06412	0.04734	0.04163	0.03558	0.02880	0.02840
195	584014.20	4139376.60	0.02724	0.00620	0.17547	0.03759	0.01922	0.01309	0.00726	0.0006	0.00015	0.01668	0.00293	0.00907	0.00011	0.02724	0.00620	0.17547	0.06638	0.04801	0.04188	0.03605	0.02939	0.02894
196	584022.85	4139374.14	0.02693	0.00605	0.17030	0.04026	0.01979	0.01315	0.00739	0.00068	0.00017	0.01765	0.00305	0.00877	0.00012	0.02693	0.00605	0.17030	0.06985	0.04938	0.04274	0.03698	0.03027	0.02976
197	584031.51	4139371.67	0.02668	0.00597	0.16859	0.044	0.02076	0.01348	0.00769	0.00077	0.00019	0.01898	0.00318	0.00848	0.00013	0.02668	0.00597	0.16859	0.07477	0.05153	0.04425	0.03846	0.03154	0.03096
198	584040.17	4139369.21	0.02647	0.00594	0.16916	0.04907	0.02211	0.01407	0.00815	0.00089	0.00022	0.02082	0.00334	0.00822	0.00014	0.02647	0.00594	0.16916	0.08159	0.05463	0.04659	0.04067	0.03341	0.03274
199	584048.82	4139366.75	0.02633	0.00594	0.17099	0.05597	0.02388	0.0149	0.00881	0.00103	0.00026	0.0234	0.00355	0.00797	0.00015	0.02633	0.00594	0.17099	0.09104	0.05895	0.04997	0.04388	0.03610	0.03533
200	583982.03	4139395.11	0.02578	0.00764	0.24979	0.03672	0.02187	0.0166	0.0088	0.00042	0.00011	0.01515	0.00266	0.01021	0.00010	0.02578	0.00764	0.24979	0.06484	0.04999	0.04472	0.03692	0.02854	0.02823
201	583990.69	4139392.64	0.02557	0.00696	0.21888	0.03589	0.02043	0.01497	0.00804	0.00046	0.00012	0.01538	0.00272	0.00984	0.00010	0.02557	0.00696	0.21888	0.06393	0.04847	0.04301	0.03608	0.02850	0.02816
202	583999.35	4139390.18	0.02539	0.00649	0.19768	0.03618	0.01974	0.01398	0.00761	0.00051	0.00013	0.01577	0.0028	0.00949	0.00010	0.02539	0.00649	0.19768	0.06434	0.04790	0.04214	0.03577	0.02867	0.02829
203	584008.00	4139387.72	0.02522	0.00619	0.18461	0.03747	0.01967	0.01351	0.00745	0.00056	0.00014	0.01633	0.0029	0.00917	0.00010	0.02522	0.00619	0.18461	0.06597	0.04817	0.04201	0.03595	0.02906	0.02864
204	584016.66	4139385.26	0.02507	0.00603	0.17786	0.03972	0.02011	0.01345	0.0075	0.00063	0.00016	0.01713	0.00302	0.00886	0.00011	0.02507	0.00603	0.17786	0.06884	0.04923	0.04257	0.03662	0.02975	0.02928
205	584025.32	4139382.79	0.02495	0.00596	0.17573	0.04296	0.021	0.01372	0.00775	0.00071	0.00018	0.01823	0.00319	0.00858	0.00012	0.02495	0.00596	0.17573	0.07308	0.05112	0.04384	0.03787	0.03083	0.03030
206	584033.97	4139380.33	0.02485	0.00595	0.17668	0.04732	0.02228	0.01425	0.00816	0.00081	0.0002	0.01973	0.00333	0.00831	0.00013	0.02485	0.00595	0.17668	0.07882	0.05378	0.04575	0.03966	0.03231	0.03170
207	584042.63	4139377.87	0.02478	0.00599	0.17942	0.05308	0.02395	0.01502	0.00873	0.00093	0.00023	0.02181	0.00352	0.00806	0.00014	0.02478	0.00599	0.17942	0.08661	0.05748	0.04855	0.04226	0.03446	0.03376
208	584051.29	4139375.41	0.02474	0.00604	0.18291	0.06079	0.02605	0.01602	0.00949	0.00109	0.00027	0.02473	0.00376	0.00782	0.00016	0.02474	0.00604	0.18291	0.09726	0.06252	0.05249	0.04596	0.03756	0.03674
209	583984.50	4139403.76	0.02333	0.00717	0.23874	0.03718	0.02169	0.01612	0.00861	0.00044	0.00011	0.01538	0.00276	0.00984	0.00010	0.02333	0.00717	0.23874	0.06526	0.04977	0.04420	0.03669	0.02852	0.02819
210	583993.15	4139401.30	0.02327	0.00657	0.21140	0.03681	0.02054	0.01471	0.00796	0.00048	0.00012	0.01566	0.00281	0.00951	0.00010	0.02327	0.00657	0.21140	0.06489	0.04862	0.04279	0.03604	0.02856	0.02820
211	584045.09	4139386.52	0.02322	0.00610	0.19240	0.05813	0.02621	0.0162	0.00945	0.00098	0.00024	0.02304	0.00377	0.00789	0.00015	0.02322	0.00610	0.19240	0.09298	0.06106	0.05105	0.04430	0.03583	0.03509
212	584053.75	4139384.06	0.02325	0.00620	0.19752	0.0669	0.02872	0.0174	0.01034	0.00115	0.00028	0.02634	0.0041	0.00767	0.00017	0.02325	0.00620	0.19752	0.10518	0.06700	0.05568	0.04862	0.03943	0.03856
213	583986.96	4139412.42	0.02132	0.00673	0.22705	0.03781	0.02155	0.01562	0.00841	0.00046	0.00011	0.01564	0.00285	0.00943	0.00010	0.02132	0.00673	0.22705	0.06583	0.04957	0.04364	0.03643	0.02848	0.02813
214	583995.62	4139409.96	0.02135	0.00623	0.20429	0.03804	0.02077	0.0145	0.00792	0.00051	0.00012	0.01598	0.00293	0.00915	0.00011	0.02135	0.00623	0.20429	0.06621	0.04894	0.04267	0.03609	0.02868	0.02829
215	584047.55	4139395.18	0.02178	0.00630	0.20861	0.06456	0.02898	0.01769	0.01037	0.00104	0.00025	0.02406	0.00418	0.0077	0.00017	0.02178	0.00630	0.20861	0.10067	0.06509	0.05380	0.04648	0.03715	0.03636
216	584056.21	4139392.72	0.02186	0.00643	0.21523	0.0748	0.03198	0.01913	0.01143	0.00123	0.0003	0.02735	0.00465	0.00749	0.00021	0.02186	0.00643	0.21523	0.11450	0.07168	0.05883	0.05113	0.04093	0.04000
217	583989.42	4139421.08	0.01964	0.00632	0.21520	0.03871	0.02149	0.01514	0.00823	0.00049	0.00012	0.01591	0.00297	0.00899	0.00011	0.01964	0.00632	0.21520	0.06669	0.04947	0.04312	0.03621	0.02847	0.02810
218	583998.08	4139418.61	0.01974	0.00595	0.19838	0.03966	0.02117	0.01439	0.00793	0.00053	0.00013	0.01631	0.00309	0.00876	0.00011	0.01974	0.00595	0.19838	0.06793	0.04944	0.04266	0.03620	0.02880	0.02840
219	584050.02	4139403.84	0.02044	0.00659	0.22852	0.07258	0.0323	0.01952	0.01151	0.00111	0.00027	0.02443	0.0047	0.00749	0.00019	0.02044	0.00659	0.22852	0.10939	0.06911	0.05633	0.04832	0.03792	0.03708
220	584058.67	4139401.38	0.02054	0.00675	0.23642	0.08467	0.03585	0.02122	0.01277	0.00132	0.00031	0.0273	0.00528	0.0073	0.00022	0.02054	0.00675	0.23642	0.12477	0.07595	0.06132	0.05287	0.04142	0.04041
221	583991.88	4139429.73	0.01822	0.00594	0.20395	0.03994	0.02156	0.01473	0.00809	0.00051	0.00012	0.01617	0.00315	0.00852	0.00012	0.01822	0.00594	0.20395	0.06790	0.04952	0.04269	0.03605	0.02847	0.02808
222	584000.54	4139427.27	0.01834	0.00573	0.19469	0.04182	0.02183	0.01444	0.00804	0.00056	0.00014	0.0166	0.00331	0.00835	0.00012	0.01834	0.00573	0.19469	0.07020	0.05021	0.04282	0.03642	0.02894	0.02852
223	584052.48	4139412.49	0.01920	0.00697	0.25242	0.08185	0.03609	0.02167	0.01285	0.00119	0.00028	0.02418	0.0051	0.00727	0.00018	0.01920	0.00697	0.25242	0.11858	0.07282	0.05840	0.04958	0.03792	0.03701
224	584061.136	4139410.031	0.01931	0.00716	0.26138	0.09568	0.04017	0.02362	0.01429	0.00142	0.00033	0.02662	0.00555	0.0071	0.00018	0.01931	0.00716	0.26138	0.13513	0.07962	0.06307	0.05374	0.04087	0.03978
225	583994.347	4139438.388	0.01699	0.00562	0.19436	0.04162	0.02184	0.01445	0.00803	0.00054	0.00013	0.01638	0.00335	0.00806	0.00012	0.01699	0.00562	0.19436	0.06953	0.04975	0.04236	0.03594	0.02845	0.02804
226	584003.003	4139435.926	0.01713	0.00562	0.19458	0.04461	0.02283	0.01475	0.00828	0.00059	0.00014	0.01682	0.00356	0.00792	0.00013	0.01713	0.00562	0.19458	0.07304	0.05126	0.04318	0.03671	0.02902	0.02857
227	584054.943	4139421.15	0.01803	0.00746	0.28050	0.09165	0.04027	0.02411	0.01432	0.00127	0.00029	0.02359	0.00527	0.00703	0.00015	0.01803	0.00746	0.28050	0.12769	0.07631	0.06015	0.05036	0.03731	0.03633
228	584063.599	4139418.688	0.01813	0.00766	0.29021	0.10655	0.04474	0.02621	0.01588	0.00152	0.00035	0.02575	0.00555	0.00689	0.00015	0.01813	0.00766	0.29021	0.14489	0.08308	0.06455	0.05422	0.03986	0.03869
229	583996.809	4139447.045	0.01591	0.00540	0.18804	0.04386	0.02244	0.01442	0.0081	0.00058	0.00014	0.01652	0.00358	0.0076	0.00013	0.01591	0.00540	0.18804	0.07169	0.05027	0.04225	0.03593	0.02841	0.02797
230	584005.466	4139444.582	0.01605	0.00564	0.19968	0.04818	0.0243	0.01545	0.00873	0.00063	0.00015	0.01694	0.00383	0.0075	0.00013	0.01605	0.00564	0.19968	0.07658	0.05270	0.04385	0.03713	0.02903	0.02855
231	583999.272	4139455.702	0.01495	0.00534	0.18697	0.04689	0.02357	0.01483	0.00839	0.00061	0.00014	0.01658	0.00383	0.00716	0.00013	0.01495	0.00534	0.18697	0.07459	0.05127	0.04253	0.03609	0.02831	0.02784
232	584007.929	4139453.239	0.01508	0.00588	0.21138	0.05274	0.02647	0.01674	0.00947	0.00067	0.00016	0.01696	0.00408	0.00709	0.00013	0.01508	0.00588	0.21138	0.08100	0.05473	0.04500	0.03773	0.02893	0.02842
233	584016.585	4139450.776	0.01523	0.00651	0.24007	0.05967	0.02985	0.01896	0.01073	0.00074	0.00017	0.01747	0.00432	0.00702	0.00013	0.01523	0.00651	0.24007	0.08861	0.05879	0.04790	0.03967	0.02968	0.02911
234	584025.242	4139448.314	0.01538	0.00711	0.26798	0.06741	0.0334	0.0212	0.01204	0.00083	0.00019	0.01809	0.00457	0.00693	0.00013	0.01538	0.00711	0.26798	0.09713	0.06312	0.05092	0.04176	0.03055	0.02991
235	584033.898	4139445.851	0.01553	0.00765	0.29318	0.07611	0.03707	0.02339	0.01336	0.00093	0.00021	0.01885	0.00479	0.00684	0.00013	0.01553	0.00765	0.29318	0.10672	0.06768	0.05400	0.04397	0.03154	0.03082
236	584042.555	4139443.388	0.01567	0.00811	0.31490	0.08598	0.0409	0.02552	0.0147	0.00106	0.00024	0.01976	0.00501	0.00675	0.00013	0.01567	0.00811	0.31490	0.11763	0.07255	0.05717	0.04635	0.03271	0.03189
237	584001.735	4139464.358	0.01408	0.00557	0.19313	0.05126	0.02568	0.0161	0.00911	0.00065	0.00015	0.01656	0.00402	0.00674	0.00012	0.01408	0.00557	0.19313	0.07870	0.05312	0.04354	0.03655	0.02809	0.02759
238	584010.391	4139461.895	0.01421	0.00644	0.22987	0.05876	0.02972	0.01897	0.01068	0.00072	0.00017	0.0169	0.00423	0.0067	0.00012	0.01421	0.00644	0.22987	0.08671	0.05767	0.04692	0.03863	0.02867	0.02812
239	584019.048	4139459.433	0.01434	0.00724	0.26593	0.06673	0.03375	0.02173	0.01221	0.00079	0.00018	0.01733	0.00446	0.00665	0.00012	0.01434	0.00724	0.26593	0.09529	0.06231	0.05029	0.04077	0.02935	0.02874
240	584027.704	4139456.97	0.01448	0.00793	0.29822	0.07522	0.03771	0.02427	0.01368	0.00088	0.0002	0.01786	0.00467	0.00659	0.00012	0.01448	0.00793	0.29822	0.10446	0.06695	0.05351	0.04292	0.03012	0.02944
241	584036.361	4139454.508	0.01461	0.00852	0.32609	0.08448	0.04167	0.02664	0.0151	0.00099	0.00022	0.01851	0.00483	0.00652	0.00012	0.01461	0.00852	0.32609	0.11446	0.07165	0.05662	0.04508	0.03097	0.03020
242	584045.017	4139452.045	0.01473	0.00902	0.34948	0.09475	0.04571	0.02888	0.01651	0.00113	0.00025	0.01931	0.00499	0.00645	0.00013	0.01473	0.00902	0.34948	0.12563	0.07659	0.05976	0.04739	0.03201	0.03113
		Maximum	**0.031**	**0.010**	**0.441**	**0.107**	**0.049**	**0.032**	**0.018**	**0.003**	**0.001**	**0.035**	**0.006**	**0.011**	**0.0002**	**0.031**	**0.010**	**0.441**	**0.145**	**0.083**	**0.066**	**0.054**	**0.041**	**0.040**

Google Middlefield - District Utilities Construction + Project Operation Impacts
Total PM2.5 Concentrations - Unmitigated
On-Site Residential Receptors - 2nd Residential level receptor heights

Receptor No.	Receptor Group Name	Receptor Coordinates UTM-X (m)	UTM-Y (m)	Construction PM2.5 (μg/m^3) Total PM2.5 Concentrations (Fugitive + Exhaust) by Year									Construction PM2.5 (μg/m^3) - With Use of MERV-13 Total PM2.5 Concentrations (Fugitive + Exhaust) by Year									Maximum Construction PM2.5 Conc. MERV-13 Filtration	Project Operation PM2.5 (μg/m^3) Without MERV-13				Project Operation PM2.5 (μg/m^3) With MERV-13				Total Construction + Operation PM2.5 (μg/m^3) With Use of MERV-13								
				2023	2024	2025	2026	2027	2028	2029	2030	2031	2023	2024	2025	2026	2027	2028	2029	2030	2031	2026-2031	Local Roads 2026-2055	Project Generators 2026-2055	Cooling Tower 2026-2055	Char-broilers 2026-2055	Local Roads 2026-2055	Project Generators 2026-2055	Cooling Tower 2026-2055	Char-broilers 2026-2055	2023	2024	2025	2026	2027	2028	2029	2030	2031
1	Res-R1	583791.7	4139222.6	0.00000	0.00000	0.00000	0.02583	0.01064	0.00608	0.00219	0.00012	0.00003	0.00000	0.00000	0.00000	0.00775	0.00319	0.00182	0.00066	0.00004	0.00001	0.00775	0.03502	0.00316	0.0133	0.00013	0.01051	0.00095	0.00399	0.00013	0.00000	0.00000	0.00000	0.02332	0.01876	0.01740	0.01623	0.01561	0.01558
2	Res-R1	583800.3	4139220.0	0.00000	0.00000	0.00000	0.02761	0.01147	0.00669	0.00242	0.00013	0.00003	0.00000	0.00000	0.00000	0.00828	0.00344	0.00201	0.00073	0.00004	0.00001	0.00828	0.03343	0.00368	0.0145	0.00015	0.01003	0.00110	0.00435	0.00015	0.00000	0.00000	0.00000	0.02391	0.01907	0.01764	0.01636	0.01567	0.01564
3	Res-R1	583808.9	4139217.4	0.00000	0.00000	0.00000	0.02958	0.01238	0.00737	0.00269	0.00013	0.00004	0.00000	0.00000	0.00000	0.00887	0.00371	0.00221	0.00081	0.00004	0.00001	0.00887	0.03163	0.00424	0.01577	0.00016	0.00949	0.00127	0.00473	0.00016	0.00000	0.00000	0.00000	0.02453	0.01937	0.01787	0.01646	0.01569	0.01567
4	Res-R1	583817.5	4139214.8	0.00000	0.00000	0.00000	0.03175	0.01339	0.00812	0.00297	0.00014	0.00004	0.00000	0.00000	0.00000	0.00953	0.00402	0.00244	0.00089	0.00004	0.00001	0.00953	0.02984	0.00486	0.01709	0.00018	0.00895	0.00146	0.00513	0.00018	0.00000	0.00000	0.00000	0.02524	0.01973	0.01815	0.01661	0.01576	0.01573
5	Res-R1	583826.1	4139212.2	0.00000	0.00000	0.00000	0.03412	0.01448	0.00894	0.00329	0.00015	0.00004	0.00000	0.00000	0.00000	0.01024	0.00434	0.00268	0.00099	0.00005	0.00001	0.01024	0.02816	0.00554	0.01844	0.00020	0.00845	0.00166	0.00553	0.00020	0.00000	0.00000	0.00000	0.02608	0.02019	0.01852	0.01683	0.01589	0.01585
6	Res-R1	583834.8	4139209.6	0.00000	0.00000	0.00000	0.0367	0.01567	0.00982	0.00362	0.00015	0.00004	0.00000	0.00000	0.00000	0.01101	0.00470	0.00295	0.00109	0.00005	0.00001	0.01101	0.02663	0.00626	0.01979	0.00023	0.00799	0.00188	0.00594	0.00023	0.00000	0.00000	0.00000	0.02705	0.02074	0.01898	0.01712	0.01608	0.01605
7	Res-R1	583785.7	4139233.8	0.00000	0.00000	0.00000	0.02514	0.01035	0.00581	0.00209	0.00012	0.00003	0.00000	0.00000	0.00000	0.00754	0.00311	0.00174	0.00063	0.00004	0.00001	0.00754	0.03423	0.00288	0.01262	0.00012	0.01027	0.00086	0.00379	0.00012	0.00000	0.00000	0.00000	0.02258	0.01815	0.01678	0.01567	0.01508	0.01505
8	Res-R1	583794.3	4139231.2	0.00000	0.00000	0.00000	0.02688	0.01117	0.00642	0.00232	0.00012	0.00003	0.00000	0.00000	0.00000	0.00806	0.00335	0.00193	0.00070	0.00004	0.00001	0.00806	0.03348	0.00336	0.01386	0.00014	0.01004	0.00101	0.00416	0.00014	0.00000	0.00000	0.00000	0.02341	0.01870	0.01728	0.01605	0.01539	0.01536
9	Res-R1	583802.9	4139228.6	0.00000	0.00000	0.00000	0.02881	0.01208	0.0071	0.00259	0.00013	0.00004	0.00000	0.00000	0.00000	0.00864	0.00362	0.00213	0.00078	0.00004	0.00001	0.00864	0.0319	0.00389	0.01517	0.00016	0.00957	0.00117	0.00455	0.00016	0.00000	0.00000	0.00000	0.02409	0.01907	0.01758	0.01622	0.01549	0.01546
10	Res-R1	583811.5	4139226.0	0.00000	0.00000	0.00000	0.03094	0.01309	0.00786	0.00288	0.00014	0.00004	0.00000	0.00000	0.00000	0.00928	0.00393	0.00236	0.00086	0.00004	0.00001	0.00928	0.0301	0.0045	0.01654	0.00018	0.00903	0.00135	0.00496	0.00018	0.00000	0.00000	0.00000	0.02480	0.01945	0.01788	0.01638	0.01556	0.01553
11	Res-R1	583820.1	4139223.4	0.00000	0.00000	0.00000	0.0333	0.01421	0.00869	0.0032	0.00014	0.00004	0.00000	0.00000	0.00000	0.00999	0.00426	0.00261	0.00096	0.00004	0.00001	0.00999	0.02834	0.00518	0.01797	0.00019	0.00850	0.00155	0.00539	0.00019	0.00000	0.00000	0.00000	0.02563	0.01990	0.01825	0.01660	0.01568	0.01565
12	Res-R1	583828.7	4139220.8	0.00000	0.00000	0.00000	0.03587	0.01542	0.0096	0.00354	0.00015	0.00004	0.00000	0.00000	0.00000	0.01076	0.00463	0.00288	0.00106	0.00005	0.00001	0.01076	0.0267	0.00597	0.01943	0.00021	0.00801	0.00179	0.00583	0.00021	0.00000	0.00000	0.00000	0.02660	0.02047	0.01872	0.01691	0.01589	0.01586
13	Res-R1	583837.4	4139218.2	0.00000	0.00000	0.00000	0.03866	0.01672	0.01058	0.00392	0.00016	0.00004	0.00000	0.00000	0.00000	0.01160	0.00502	0.00317	0.00118	0.00005	0.00001	0.01160	0.02522	0.00682	0.02087	0.00024	0.00757	0.00205	0.00626	0.00024	0.00000	0.00000	0.00000	0.02772	0.02113	0.01929	0.01729	0.01617	0.01613
14	Res-R1	583846.0	4139215.6	0.00000	0.00000	0.00000	0.04167	0.01811	0.01162	0.00432	0.00016	0.00004	0.00000	0.00000	0.00000	0.01250	0.00543	0.00349	0.00130	0.00005	0.00001	0.01250	0.0239	0.00748	0.02227	0.00038	0.00717	0.00224	0.00668	0.00038	0.00000	0.00000	0.00000	0.02898	0.02191	0.01996	0.01777	0.01653	0.01649
15	Res-R1	583788.2	4139242.4	0.00000	0.00000	0.00000	0.02614	0.01085	0.00613	0.00222	0.00012	0.00003	0.00000	0.00000	0.00000	0.00784	0.00326	0.00184	0.00067	0.00004	0.00001	0.00784	0.03287	0.003	0.0131	0.00013	0.00986	0.00090	0.00393	0.00013	0.00000	0.00000	0.00000	0.02266	0.01808	0.01666	0.01549	0.01486	0.01483
16	Res-R1	583796.9	4139239.8	0.00000	0.00000	0.00000	0.02803	0.01176	0.0068	0.00247	0.00013	0.00003	0.00000	0.00000	0.00000	0.00841	0.00353	0.00204	0.00074	0.00004	0.00001	0.00841	0.03221	0.00347	0.01444	0.00015	0.00966	0.00104	0.00433	0.00015	0.00000	0.00000	0.00000	0.02359	0.01871	0.01722	0.01593	0.01522	0.01519
17	Res-R1	583805.5	4139237.2	0.00000	0.00000	0.00000	0.03013	0.01277	0.00756	0.00277	0.00013	0.00004	0.00000	0.00000	0.00000	0.00904	0.00383	0.00227	0.00083	0.00004	0.00001	0.00904	0.03067	0.00401	0.01586	0.00017	0.00920	0.00120	0.00476	0.00017	0.00000	0.00000	0.00000	0.02437	0.01916	0.01760	0.01616	0.01537	0.01534
18	Res-R1	583814.1	4139234.6	0.00000	0.00000	0.00000	0.03245	0.01389	0.0084	0.00309	0.00014	0.00004	0.00000	0.00000	0.00000	0.00974	0.00417	0.00252	0.00093	0.00004	0.00001	0.00974	0.02888	0.00465	0.01736	0.00019	0.00866	0.00140	0.00521	0.00019	0.00000	0.00000	0.00000	0.02519	0.01962	0.01797	0.01638	0.01549	0.01546
19	Res-R1	583822.7	4139232.0	0.00000	0.00000	0.00000	0.03502	0.01512	0.00933	0.00345	0.00014	0.00004	0.00000	0.00000	0.00000	0.01051	0.00454	0.00280	0.00104	0.00004	0.00001	0.01051	0.02714	0.00544	0.01891	0.00020	0.00814	0.00163	0.00567	0.00020	0.00000	0.00000	0.00000	0.02616	0.02019	0.01845	0.01669	0.01569	0.01566
20	Res-R1	583831.3	4139229.4	0.00000	0.00000	0.00000	0.03783	0.01647	0.01034	0.00384	0.00015	0.00004	0.00000	0.00000	0.00000	0.01135	0.00494	0.00310	0.00115	0.00005	0.00001	0.01135	0.02554	0.00641	0.02048	0.00023	0.00766	0.00192	0.00614	0.00023	0.00000	0.00000	0.00000	0.02730	0.02090	0.01906	0.01711	0.01600	0.01597
21	Res-R1	583840.0	4139226.8	0.00000	0.00000	0.00000	0.04087	0.01792	0.01144	0.00426	0.00016	0.00004	0.00000	0.00000	0.00000	0.01226	0.00538	0.00343	0.00128	0.00005	0.00001	0.01226	0.02411	0.0075	0.02203	0.00026	0.00723	0.00225	0.00661	0.00026	0.00000	0.00000	0.00000	0.02861	0.02173	0.01978	0.01763	0.01640	0.01636
22	Res-R1	583848.6	4139224.2	0.00000	0.00000	0.00000	0.04413	0.01945	0.01259	0.00471	0.00017	0.00005	0.00000	0.00000	0.00000	0.01324	0.00584	0.00378	0.00141	0.00005	0.00002	0.01324	0.02284	0.00814	0.02351	0.00044	0.00685	0.00244	0.00705	0.00044	0.00000	0.00000	0.00000	0.03003	0.02262	0.02056	0.01820	0.01684	0.01680
23	Res-R1	583790.8	4139251.0	0.00000	0.00000	0.00000	0.02724	0.01139	0.00648	0.00235	0.00012	0.00003	0.00000	0.00000	0.00000	0.00817	0.00342	0.00194	0.00071	0.00004	0.00001	0.00817	0.03177	0.00302	0.01359	0.00013	0.00953	0.00091	0.00408	0.00013	0.00000	0.00000	0.00000	0.02282	0.01807	0.01659	0.01535	0.01468	0.01466
24	Res-R1	583799.5	4139248.4	0.00000	0.00000	0.00000	0.02929	0.0124	0.00722	0.00264	0.00013	0.00003	0.00000	0.00000	0.00000	0.00879	0.00372	0.00217	0.00079	0.00004	0.00001	0.00879	0.0312	0.00348	0.01504	0.00015	0.00936	0.00104	0.00451	0.00015	0.00000	0.00000	0.00000	0.02386	0.01879	0.01724	0.01586	0.01511	0.01508
25	Res-R1	583808.1	4139245.8	0.00000	0.00000	0.00000	0.03159	0.01352	0.00807	0.00297	0.00013	0.00004	0.00000	0.00000	0.00000	0.00948	0.00406	0.00242	0.00089	0.00004	0.00001	0.00948	0.02967	0.00401	0.01659	0.00017	0.00890	0.00120	0.00498	0.00017	0.00000	0.00000	0.00000	0.02473	0.01931	0.01767	0.01614	0.01529	0.01527
26	Res-R1	583816.7	4139243.2	0.00000	0.00000	0.00000	0.03414	0.01478	0.00901	0.00333	0.00014	0.00004	0.00000	0.00000	0.00000	0.01024	0.00443	0.00270	0.00100	0.00004	0.00001	0.01024	0.0279	0.0047	0.01822	0.00019	0.00837	0.00141	0.00547	0.00019	0.00000	0.00000	0.00000	0.02568	0.01987	0.01814	0.01643	0.01548	0.01545
27	Res-R1	583825.3	4139240.6	0.00000	0.00000	0.00000	0.03696	0.01616	0.01006	0.00374	0.00015	0.00004	0.00000	0.00000	0.00000	0.01109	0.00485	0.00302	0.00112	0.00005	0.00001	0.01109	0.02618	0.00566	0.0199	0.00021	0.00785	0.00170	0.00597	0.00021	0.00000	0.00000	0.00000	0.02682	0.02058	0.01875	0.01685	0.01578	0.01574
28	Res-R1	583833.9	4139238.1	0.00000	0.00000	0.00000	0.04004	0.01766	0.0112	0.00418	0.00015	0.00004	0.00000	0.00000	0.00000	0.01201	0.00530	0.00336	0.00125	0.00005	0.00001	0.01201	0.02461	0.00699	0.0216	0.00023	0.00738	0.00210	0.00648	0.00023	0.00000	0.00000	0.00000	0.02820	0.02149	0.01955	0.01745	0.01624	0.01620
29	Res-R1	583842.5	4139235.5	0.00000	0.00000	0.00000	0.04337	0.01927	0.01242	0.00466	0.00016	0.00004	0.00000	0.00000	0.00000	0.01301	0.00578	0.00373	0.00140	0.00005	0.00001	0.01301	0.02322	0.00846	0.02326	0.00028	0.00697	0.00254	0.00698	0.00028	0.00000	0.00000	0.00000	0.02977	0.02254	0.02049	0.01816	0.01681	0.01677
30	Res-R1	583851.2	4139232.9	0.00000	0.00000	0.00000	0.04692	0.02098	0.01371	0.00515	0.00017	0.00005	0.00000	0.00000	0.00000	0.01408	0.00629	0.00411	0.00155	0.00005	0.00002	0.01408	0.02199	0.00886	0.02482	0.00054	0.00660	0.00266	0.00745	0.00054	0.00000	0.00000	0.00000	0.03132	0.02354	0.02136	0.01879	0.01729	0.01726
31	Res-R1	583793.4	4139259.7	0.00000	0.00000	0.00000	0.02843	0.01199	0.00686	0.0025	0.00013	0.00003	0.00000	0.00000	0.00000	0.00853	0.00360	0.00206	0.00075	0.00004	0.00001	0.00853	0.03092	0.00297	0.01408	0.00013	0.00928	0.00089	0.00422	0.00013	0.00000	0.00000	0.00000	0.02305	0.01812	0.01658	0.01528	0.01456	0.01453
32	Res-R1	583802.1	4139257.1	0.00000	0.00000	0.00000	0.03068	0.01311	0.0077	0.00283	0.00013	0.00004	0.00000	0.00000	0.00000	0.00920	0.00393	0.00231	0.00085	0.00004	0.00001	0.00920	0.03039	0.00339	0.01566	0.00015	0.00912	0.00102	0.00470	0.00015	0.00000	0.00000	0.00000	0.02419	0.01892	0.01730	0.01583	0.01502	0.01500
33	Res-R1	583810.7	4139254.5	0.00000	0.00000	0.00000	0.0332	0.01437	0.00865	0.0032	0.00014	0.00004	0.00000	0.00000	0.00000	0.00996	0.00431	0.00260	0.00096	0.00004	0.00001	0.00996	0.02887	0.0039	0.01735	0.00017	0.00866	0.00117	0.00521	0.00017	0.00000	0.00000	0.00000	0.02517	0.01952	0.01780	0.01617	0.01525	0.01522
34	Res-R1	583819.3	4139251.9	0.00000	0.00000	0.00000	0.03602	0.01578	0.00971	0.00361	0.00014	0.00004	0.00000	0.00000	0.00000	0.01081	0.00473	0.00291	0.00108	0.00004	0.00001	0.01081	0.0271	0.00463	0.01913	0.00019	0.00813	0.00139	0.00574	0.00019	0.00000	0.00000	0.00000	0.02625	0.02018	0.01836	0.01653	0.01549	0.01546
35	Res-R1	583827.9	4139249.3	0.00000	0.00000	0.00000	0.03914	0.01733	0.0109	0.00407	0.00015	0.00004	0.00000	0.00000	0.00000	0.01174	0.00520	0.00327	0.00122	0.00005	0.00001	0.01174	0.02539	0.00589	0.02096	0.00021	0.00762	0.00177	0.00629	0.00021	0.00000	0.00000	0.00000	0.02762	0.02108	0.01915	0.01710	0.01592	0.01589
36	Res-R1	583836.5	4139246.7	0.00000	0.00000	0.00000	0.04254	0.01902	0.01218	0.00457	0.00016	0.00004	0.00000	0.00000	0.00000	0.01276	0.00571	0.00365	0.00137	0.00005	0.00001	0.01276	0.02385	0.00799	0.0228	0.00023	0.00716	0.00240	0.00684	0.00023	0.00000	0.00000	0.00000	0.02938	0.02233	0.02027	0.01799	0.01667	0.01663
37	Res-R1	583845.1	4139244.1	0.00000	0.00000	0.00000	0.04621	0.02083	0.01356	0.00511	0.00016	0.00004	0.00000	0.00000	0.00000	0.01386	0.00625	0.00407	0.00153	0.00005	0.00001	0.01386	0.02249	0.01015	0.02457	0.00027	0.00675	0.00305	0.00737	0.00027	0.00000	0.00000	0.00000	0.03130	0.02368	0.02150	0.01897	0.01748	0.01745
38	Res-R1	583853.8	4139241.5	0.00000	0.00000	0.00000	0.0501	0.02272	0.015	0.00567	0.00017	0.00005	0.00000	0.00000	0.00000	0.01503	0.00682	0.00450	0.00170	0.00005	0.00002	0.01503	0.0213	0.00957	0.0262	0.00044	0.00639	0.00287	0.00786	0.00044	0.00000	0.00000	0.00000	0.03259	0.02438	0.02206	0.01926	0.01761	0.01758
39	Res-R1	583796.0	4139268.3	0.00000	0.00000	0.00000	0.02973	0.01264	0.0073	0.00267	0.00013	0.00003	0.00000	0.00000	0.00000	0.00892	0.00379	0.00219	0.00080	0.00004	0.00001	0.00892	0.03025	0.00284	0.01458	0.00013	0.00908	0.00085	0.00437	0.00013	0.00000	0.00000	0.00000	0.02335	0.01823	0.01662	0.01523	0.01447	0.01444
40	Res-R1	583804.7	4139265.7	0.00000	0.00000	0.00000	0.03221	0.0139	0.00824	0.00304	0.00013	0.00004	0.00000	0.00000	0.00000	0.00966	0.00417	0.00247	0.00091	0.00004	0.00001	0.00966	0.02973	0.00322	0.0163	0.00015	0.00892	0.00097	0.00489	0.00015	0.00000	0.00000	0.00000	0.02459	0.01910	0.01740	0.01584	0.01496	0.01494
41	Res-R1	583813.3	4139263.1	0.00000	0.00000	0.00000	0.03501	0.01532	0.00931	0.00346	0.00014	0.00004	0.00000	0.00000	0.00000	0.01050	0.00460	0.00279	0.00104	0.00004	0.00001	0.01050	0.02819	0.00368	0.01815	0.00017	0.00846	0.00110	0.00545	0.00017	0.00000	0.00000	0.00000	0.02568	0.01977	0.01797	0.01621	0.01521	0.01518
42	Res-R1	583821.9	4139260.5	0.00000	0.00000	0.00000	0.03815	0.01691	0.01052	0.00393	0.00015	0.00004	0.00000	0.00000	0.00000	0.01145	0.00507	0.00316	0.00118	0.00005	0.00001	0.01145	0.02641	0.00445	0.02009	0.00018	0.00792	0.00134	0.00603	0.00018	0.00000	0.00000	0.00000	0.02691	0.02054	0.01862	0.01665	0.01551	0.01548
43	Res-R1	583830.5	4139257.9	0.00000	0.00000	0.00000	0.04162	0.01867	0.01186	0.00446	0.00015	0.00004	0.00000	0.00000	0.00000	0.01249	0.00560	0.00356	0.00134	0.00005	0.00001	0.01249	0.02472	0.00633	0.02208	0.00020	0.00742	0.00190	0.00662	0.00020	0.00000	0.00000	0.00000	0.02862	0.02174	0.01969	0.01747	0.01618	0.01615
44	Res-R1	583839.1	4139255.3	0.00000	0.00000	0.00000	0.0454	0.02058	0.01332	0.00503	0.00016	0.00004	0.00000	0.00000	0.00000	0.01362	0.00617	0.00400	0.00151	0.00005	0.00001	0.01362	0.02321	0.01039	0.02407	0.00022	0.00696	0.00312	0.00722	0.00022	0.00000	0.00000	0.00000	0.03114	0.02369	0.02151	0.01903	0.01756	0.01753
45	Res-R1	583847.7	4139252.7	0.00000	0.00000	0.00000	0.04947	0.02262	0.01488	0.00564	0.00017	0.00005	0.00000	0.00000	0.00000	0.01484	0.00679	0.00446	0.00169	0.00005	0.00002	0.01484	0.02188	0.01354	0.02596	0.00025	0.00656	0.00406	0.00779	0.00025	0.00000	0.00000	0.00000	0.03350	0.02545	0.02312	0.02035	0.01871	0.01867
46	Res-R1	583856.4	4139250.1	0.00000	0.00000	0.00000	0.05374	0.02473	0.01649	0.00626	0.00018	0.00005	0.00000	0.00000	0.00000	0.01612	0.00742	0.00495	0.00188	0.00005	0.00002	0.01612	0.02072	0.00964	0.02765	0.00029	0.00622	0.00289	0.00830	0.00029	0.00000	0.00000	0.00000	0.03381	0.02511	0.02264	0.01957	0.01774	0.01771
47	Res-R1	583798.6	4139276.9	0.00000	0.00000	0.00000	0.03116	0.01336	0.00778	0.00286	0.00013	0.00004	0.00000	0.00000	0.00000	0.00935	0.00401	0.00233	0.00086	0.00004	0.00001	0.00935	0.0297	0.00267	0.01507	0.00013	0.00891	0.00080	0.00452	0.00013	0.00000	0.00000	0.00000	0.02371	0.01837	0.01669	0.01522	0.01440	0.01437
48	Res-R1	583807.3	4139274.3	0.00000	0.00000	0.00000	0.03392	0.01478	0.00885	0.00328	0.00014	0.00004	0.00000	0.00000	0.00000	0.01018	0.00443	0.00266	0.00098	0.00004	0.00001	0.01018	0.02915	0.00301	0.01695	0.00014	0.00875	0.00090	0.00509	0.00014	0.00000	0.00000	0.00000	0.02505	0.01931	0.01753	0.01586	0.01492	0.01489
49	Res-R1	583815.9	4139271.7	0.00000	0.00000	0.00000	0.03705	0.01639	0.01007	0.00376	0.00014	0.00004	0.00000	0.00000	0.00000	0.01112	0.00492	0.00302	0.00113	0.00004	0.00001	0.01112	0.02759	0.00341	0.01897	0.00016	0.00828	0.00102	0.00569	0.00016	0.00000	0.00000	0.00000	0.02626	0.02007	0.01817	0.01628	0.01519	0.01516
50	Res-R1	583824.5	4139269.1	0.00000	0.00000	0.00000	0.04056	0.01821	0.01145	0.0043	0.00015	0.00004	0.00000	0.00000	0.00000	0.01217	0.00546	0.00344	0.00129	0.00005	0.00001	0.01217	0.02583	0.00418	0.0211	0.00017	0.00775	0.00125	0.00633	0.00017	0.00000	0.00000	0.00000	0.02767	0.02097	0.01894	0.01680	0.01555	0.01552
51	Res-R1	583833.1	4139266.5	0.00000	0.00000	0.00000	0.04446	0.02022	0.01299	0.00491	0.00015	0.00004	0.00000	0.00000	0.00000	0.01334	0.00607	0.00390	0.00147	0.00005	0.00001	0.01334	0.02415	0.00736	0.02328	0.00019	0.00725	0.00221	0.00698	0.00019	0.00000	0.00000	0.00000	0.02996	0.02269	0.02052	0.01810	0.01667	0.01664
52	Res-R1	583841.7	4139263.9	0.00000	0.00000	0.00000	0.04869	0.02239	0.01466	0.00556	0.00016	0.00004	0.00000	0.00000	0.00000	0.01461	0.00672	0.00440	0.00167	0.00005	0.00001	0.01461	0.02267	0.01872	0.02542	0.00020	0.00680	0.00562	0.00763	0.00020	0.00000	0.00000	0.00000	0.03485	0.02696	0.02464	0.02191	0.02029	0.02026
53	Res-R1	583850.3	4139261.3	0.00000	0.00000	0.00000	0.0532	0.02468	0.01642	0.00625	0.00017	0.00005	0.00000	0.00000	0.00000	0.01596	0.00740	0.00493	0.00188	0.00005	0.00002	0.01596	0.02136	0.01974	0.02743	0.00022	0.00641	0.00592	0.00823	0.00022	0.00000	0.00000	0.00000	0.03674	0.02819	0.02571	0.02266	0.02083	0.02080
54	Res-R1	583859.0	4139258.7	0.00000	0.00000	0.00000	0.05791	0.02704	0.01823	0.00696	0.00018	0.00005	0.00000	0.00000	0.00000	0.01737	0.00811	0.00547	0.00209	0.00005	0.00002	0.01737	0.02023	0.00781	0.02916	0.00025	0.00607	0.00234	0.00875	0.00025	0.00000	0.00000	0.00000	0.03478	0.02552	0.02288	0.01950	0.01746	0.01742
55	Res-R1	583780.5	4139216.6	0.00000	0.00000	0.00000	0.02335	0.00946	0.00527	0.00188	0.00012	0.00003	0.00000	0.00000	0.00000	0.00701	0.00284	0.00158	0.00056	0.00004	0.00001	0.00701	0.0375	0.00248	0.0117	0.00010	0.01125	0.00074	0.00351	0.00010	0.00000	0.00000	0.00000	0.02261	0.01844	0.01718	0.01617	0.01564	0.01561
56	Res-R1	583789.1	4139214.0	0.00000	0.00000	0.00000	0.02486	0.01015	0.00577	0.00207	0.00012	0.00003	0.00000	0.00000	0.00000	0.00746	0.00305	0.00173	0.00062	0.00004	0.00001	0.00746	0.0367	0.00291	0.01276	0.00012	0.01101	0.00087	0.00383	0.00012	0.00000	0.00000	0.00000	0.02328	0.01887	0.01756	0.01645	0.01586	0.01584
57	Res-R1	583797.7	4139211.4	0.00000	0.00000	0.00000	0.02652	0.01091	0.00633	0.00228	0.00013	0.00003	0.00000	0.00000	0.00000	0.00796	0.00327	0.00190	0.00068	0.00004	0.00001	0.00796	0.03519	0.00339	0.01387	0.00013	0.01056	0.00102	0.00416	0.00013	0.00000	0.00000	0.00000	0.02382	0.01914	0.01777	0.01655	0.01591	0.01588
58	Res-R1	583806.3	4139208.8	0.00000	0.00000	0.00000	0.02835	0.01174	0.00695	0.00252	0.00013	0.00004	0.00000	0.00000	0.00000	0.00851	0.00352	0.00209	0.00076	0.00004	0.00001	0.00851	0.03346	0.00392	0.01504	0.00015	0.01004	0.00118	0.00451	0.00015	0.00000	0.00000	0.00000	0.02438	0.01940	0.01796	0.01663	0.01591	0.01589
59	Res-R1	583814.9	4139206.2	0.00000	0.00000	0.00000	0.03036	0.01266	0.00762	0.00277	0.00014	0.00004	0.00000	0.00000	0.00000	0.00911	0.00380	0.00229	0.00083	0.00004	0.00001	0.00911	0.03171	0.00449	0.01626	0.00016	0.00951	0.00135	0.00488	0.00016	0.00000	0.00000	0.00000	0.02501	0.01970	0.01819	0.01673	0.01594	0.01591
60	Res-R1	583823.5	4139203.6	0.00000	0.00000	0.00000	0.03256	0.01365	0.00836	0.00306	0.00014	0.00004	0.00000	0.00000	0.00000	0.00977	0.00410	0.00251	0.00092	0.00004	0.00001	0.00977	0.03001	0.0051	0.01751	0.00018	0.00900	0.00153	0.00525	0.00018	0.00000	0.00000	0.00000	0.02574	0.02007	0.01848	0.01689	0.01601	0.01598
61	Res-R1	583783.1	4139225.2	0.00000	0.00000	0.00000	0.02421	0.00989	0.00553	0.00198	0.00012	0.00003	0.00000	0.00000	0.00000	0.00726	0.00297	0.00166	0.00059	0.00004	0.00001	0.00726	0.03586	0.0027	0.01216	0.00011	0.01076	0.00081	0.00365	0.00011	0.00000	0.00000	0.00000	0.02259	0.01829	0.01699	0.01592	0.01536	0.01534
62	Res-R2	583804.8	4139304.1	0.00000	0.00000	0.00000	0.03642	0.01604	0.00963	0.00359	0.00014	0.00004	0.00000	0.00000	0.00000	0.01093	0.00481	0.00289	0.00108	0.00004	0.00001	0.01093	0.03343	0.00285	0.01588	0.00012	0.01003	0.00086	0.00476	0.00012	0.00000	0.00000	0.00000	0.02669	0.02058	0.01865	0.01684	0.01581	0.01578
63	Res-R2	583882.7	4139281.7	0.00000	0.00000	0.00000	0.08883	0.0437	0.03095	0.01201	0.00021	0.00006	0.00000	0.00000	0.00000	0.02665	0.01311	0.00929	0.00360	0.00006	0.00002	0.02665	0.01815	0.00541	0.03441	0.00034	0.00545	0.00162	0.01032	0.00034	0.00000	0.00000	0.00000	0.04438	0.03085	0.02702	0.02134	0.01780	0.01775
64	Res-R2	583831.0	4139362.2	0.00000	0.00000	0.00000	0.07913	0.03991	0.02798	0.01087	0.00018	0.00005	0.00000	0.00000	0.00000	0.02374	0.01197	0.00839	0.00326	0.00005	0.00002	0.02374	0.03011	0.00169	0.02194	0.00015	0.00903	0.00051	0.00658	0.00015	0.00000	0.00000	0.00000	0.04001	0.02824	0.02466	0.01953	0.01632	0.01629
65	Res-R2	583839.6	4139359.7	0.00000	0.00000	0.00000	0.09803	0.05089	0.03675	0.01436	0.00019	0.00005	0.00000	0.00000	0.00000	0.02941	0.01527	0.01103	0.00431	0.00006	0.00002	0.02941	0.02757	0.00181	0.02929	0.00016	0.00827	0.00054	0.00879	0.00016	0.00000	0.00000	0.00000	0.04717	0.03303	0.02879	0.02207	0.01782	0.01778
66	Res-R2	583848.3	4139357.2	0.00000	0.00000	0.00000	0.11572	0.06109	0.04487	0.0176	0.00019	0.00005	0.00000	0.00000	0.00000	0.03472	0.01833	0.01346	0.00528	0.00006	0.00002	0.03472	0.02518	0.0019	0.03744	0.00018	0.00755	0.00057	0.01123	0.00018	0.00000	0.00000	0.00000	0.05425	0.03786	0.03300	0.02482	0.01959	0.01955
67	Res-R2	583856.9	4139354.7	0.00000	0.00000	0.00000	0.13149	0.07005	0.05197	0.02044	0.0002	0.00005	0.00000	0.00000	0.00000	0.03945	0.02102	0.01559	0.00613	0.00006	0.00002	0.03945	0.02309	0.00197	0.04387	0.00018	0.00693	0.00059	0.01316	0.00018	0.00000	0.00000	0.00000	0.06031	0.04188	0.03645	0.02699	0.02092	0.02088
68	Res-R2	583865.6	4139352.2	0.00000	0.00000	0.00000	0.1455	0.07783	0.0581	0.02289	0.00021	0.00005	0.00000	0.00000	0.00000	0.04365	0.02335	0.01743	0.00687	0.00006	0.00002	0.04365	0.02135	0.00203	0.0454	0.00019	0.00641	0.00061	0.01362	0.00019	0.00000	0.00000	0.00000	0.06447	0.04417	0.03825	0.02769	0.02089	0.02084
69	Res-R2	583874.2	4139349.7	0.00000	0.00000	0.00000	0.15793	0.08453	0.06333	0.02497	0.00022	0.00006	0.00000	0.00000	0.00000	0.04738	0.02536	0.01900	0.00749	0.00007	0.00002	0.04738	0.01993	0.00209	0.04182	0.00026	0.00598	0.00063	0.01255	0.00026	0.00000	0.00000	0.00000	0.06679	0.04477	0.03841	0.02690	0.01948	0.01943
70	Res-R2	583882.9	4139347.2	0.00000	0.00000	0.00000	0.1689	0.09023	0.06773	0.02672	0.00023	0.00006	0.00000	0.00000	0.00000	0.05067	0.02707	0.02032	0.00802	0.00007	0.00002	0.05067	0.01875	0.00213	0.03594	0.00033	0.00563	0.00064	0.01078	0.00033	0.00000	0.00000	0.00000	0.06804	0.04444	0.03769	0.02539	0.01744	0.01739
71	Res-R2	583891.5	4139344.7	0.00000	0.00000	0.00000	0.17851	0.09503	0.07137	0.02817	0.00024	0.00006	0.00000	0.00000	0.00000	0.05355	0.02851	0.02141	0.00845	0.00007	0.00002	0.05355	0.01777	0.00215	0.03022	0.00032	0.00533	0.00065	0.00907	0.00032	0.00000	0.00000	0.00000	0.06891	0.04387	0.03677	0.02381	0.01543	0.01538
72	Res-R2	583900.2	4139342.2	0.00000	0.00000	0.00000	0.18669	0.09893	0.07426	0.0293	0.00025	0.00007	0.00000	0.00000	0.00000	0.05601	0.02968	0.02228	0.00879	0.00008	0.00002	0.05601	0.01695	0.00216	0.02559	0.00027	0.00509	0.00065	0.00768	0.00027	0.00000	0.00000	0.00000	0.06968	0.04336	0.03596	0.02247	0.01375	0.01370
73	Res-R2	583824.8	4139373.3	0.00000	0.00000	0.00000	0.07341	0.03647	0.02514	0.0097	0.00018	0.00005	0.00000	0.00000	0.00000	0.02202	0.01094	0.00754	0.00291	0.00005	0.00002	0.02202	0.03174	0.00157	0.01584	0.00012	0.00952	0.00047	0.00475	0.00012	0.00000	0.00000	0.00000	0.03689	0.02580	0.02241	0.01777	0.01492	0.01488
74	Res-R2	583833.5	4139370.8	0.00000	0.00000	0.00000	0.10034	0.0522	0.03771	0.01466	0.00018	0.00005	0.00000	0.00000	0.00000	0.03010	0.01566	0.01131	0.00440	0.00005	0.00002	0.03010	0.02993	0.00163	0.02294	0.00012	0.00898	0.00049	0.00688	0.00012	0.00000	0.00000	0.00000	0.04657	0.03213	0.02778	0.02087	0.01652	0.01648
75	Res-R2	583842.1	4139368.3	0.00000	0.00000	0.00000	0.12444	0.06624	0.04893	0.01912	0.00019	0.00005	0.00000	0.00000	0.00000	0.03733	0.01987	0.01468	0.00574	0.00006	0.00002	0.03733	0.0274	0.00173	0.03264	0.00012	0.00822	0.00052	0.00979	0.00012	0.00000	0.00000	0.00000	0.05598	0.03852	0.03333	0.02438	0.01871	0.01866
76	Res-R2	583850.8	4139365.8	0.00000	0.00000	0.00000	0.14441	0.07776	0.05811	0.02278	0.0002	0.00005	0.00000	0.00000	0.00000	0.04332	0.02333	0.01743	0.00683	0.00006	0.00002	0.04332	0.02501	0.00183	0.04332	0.00012	0.00750	0.00055	0.01300	0.00012	0.00000	0.00000	0.00000	0.06449	0.04449	0.03860	0.02800	0.02123	0.02118
77	Res-R2	583859.4	4139363.3	0.00000	0.00000	0.00000	0.16129	0.08732	0.06569	0.0258	0.00021	0.00005	0.00000	0.00000	0.00000	0.04839	0.02620	0.01971	0.00774	0.00006	0.00002	0.04839	0.02294	0.00195	0.04962	0.00013	0.00688	0.00059	0.01489	0.00013	0.00000	0.00000	0.00000	0.07087	0.04868	0.04219	0.03022	0.02255	0.02250
78	Res-R2	583868.1	4139360.8	0.00000	0.00000	0.00000	0.17591	0.09539	0.07204	0.02834	0.00021	0.00006	0.00000	0.00000	0.00000	0.05277	0.02862	0.02161	0.00850	0.00006	0.00002	0.05277	0.02121	0.00204	0.04732	0.00015	0.00636	0.00061	0.01420	0.00015	0.00000	0.00000	0.00000	0.07409	0.04993	0.04293	0.02982	0.02138	0.02134
79	Res-R2	583876.7	4139358.3	0.00000	0.00000	0.00000	0.18875	0.10224	0.07737	0.03046	0.00022	0.00006	0.00000	0.00000	0.00000	0.05663	0.03067	0.02321	0.00914	0.00007	0.00002	0.05663	0.0198	0.00211	0.03981	0.00019	0.00594	0.00063	0.01194	0.00019	0.00000	0.00000	0.00000	0.07533	0.04938	0.04192	0.02784	0.01877	0.01872
80	Res-R2	583885.4	4139355.8	0.00000	0.00000	0.00000	0.19996	0.10797	0.08177	0.03222	0.00023	0.00006	0.00000	0.00000	0.00000	0.05999	0.03239	0.02453	0.00967	0.00007	0.00002	0.05999	0.01863	0.00216	0.03224	0.00025	0.00559	0.00065	0.00967	0.00025	0.00000	0.00000	0.00000	0.07615	0.04855	0.04069	0.02583	0.01623	0.01618
81	Res-R2	583894.0	4139353.3	0.00000	0.00000	0.00000	0.20971	0.11274	0.08537	0.03364	0.00025	0.00006	0.00000	0.00000	0.00000	0.06291	0.03382	0.02561	0.01009	0.00008	0.00002	0.06291	0.01766	0.00218	0.02647	0.00025	0.00530	0.00065	0.00794	0.00025	0.00000	0.00000	0.00000	0.07705	0.04796	0.03975	0.02423	0.01422	0.01416
82	Res-R2	583902.6	4139350.8	0.00000	0.00000	0.00000	0.21786	0.11654	0.08815	0.03474	0.00026	0.00007	0.00000	0.00000	0.00000	0.06536	0.03496	0.02645	0.01042	0.00008	0.00002	0.06536	0.01685	0.00219	0.02239	0.00023	0.00506	0.00066	0.00672	0.00023	0.00000	0.00000	0.00000	0.07802	0.04762	0.03910	0.02308	0.01274	0.01268
83	Res-R2	583807.3	4139312.8	0.00000	0.00000	0.00000	0.03855	0.01714	0.01042	0.0039	0.00015	0.00004	0.00000	0.00000	0.00000	0.01157	0.00514	0.00313	0.00117	0.00005	0.00001	0.01157	0.03317	0.00268	0.01617	0.00011	0.00995	0.00080	0.00485	0.00011	0.00000	0.00000	0.00000	0.02728	0.02086	0.01885	0.01689	0.01576	0.01573
84	Res-R2	583816.0	4139310.3	0.00000	0.00000	0.00000	0.04319	0.01966	0.01235	0.00467	0.00015	0.00004	0.00000	0.00000	0.00000	0.01296	0.00590	0.00371	0.00140	0.00005	0.00001	0.01296	0.03159	0.00302	0.01884	0.00013	0.00948	0.00091	0.00565	0.00013	0.00000	0.00000	0.00000	0.02912	0.02206	0.01987	0.01756	0.01621	0.01617
85	Res-R2	583824.6	4139307.8	0.00000	0.00000	0.00000	0.04863	0.02264	0.01465	0.00558	0.00016	0.00004	0.00000	0.00000	0.00000	0.01459	0.00679	0.00440	0.00167	0.00005	0.00001	0.01459	0.02906	0.00338	0.02181	0.00013	0.00872	0.00101	0.00654	0.00013	0.00000	0.00000	0.00000	0.03100	0.02320	0.02080	0.01808	0.01646	0.01642
86	Res-R2	583833.3	4139305.3	0.00000	0.00000	0.00000	0.05485	0.02605	0.0173	0.00663	0.00016	0.00004	0.00000	0.00000	0.00000	0.01646	0.00782	0.00519	0.00199	0.00005	0.00001	0.01646	0.02661	0.00372	0.02498	0.00015	0.00798	0.00112	0.00749	0.00015	0.00000	0.00000	0.00000	0.03320	0.02456	0.02193	0.01873	0.01679	0.01675
87	Res-R2	583841.9	4139302.8	0.00000	0.00000	0.00000	0.0617	0.0298	0.02022	0.00779	0.00017	0.00005	0.00000	0.00000	0.00000	0.01851	0.00894	0.00607	0.00234	0.00005	0.00002	0.01851	0.02444	0.00438	0.02819	0.00016	0.00733	0.00131	0.00846	0.00016	0.00000	0.00000	0.00000	0.03577	0.02620	0.02333	0.01960	0.01731	0.01728
88	Res-R2	583813.5	4139301.6	0.00000	0.00000	0.00000	0.04045	0.0182	0.01128	0.00424	0.00015	0.00004	0.00000	0.00000	0.00000	0.01214	0.00546	0.00338	0.00127	0.00005	0.00001	0.01214	0.0319	0.00322	0.01831	0.00012	0.00957	0.00097	0.00549	0.00012	0.00000	0.00000	0.00000	0.02829	0.02161	0.01954	0.01743	0.01620	0.01617
89	Res-R2	583850.6	4139300.3	0.00000	0.00000	0.00000	0.06897	0.03375	0.0233	0.00901	0.00018	0.00005	0.00000	0.00000	0.00000	0.02069	0.01013	0.00699	0.00270	0.00005	0.00002	0.02069	0.02261	0.00366	0.03119	0.00018	0.00678	0.00110	0.00936	0.00018	0.00000	0.00000	0.00000	0.03811	0.02754	0.02441	0.02012	0.01747	0.01743
90	Res-R2	583859.2	4139297.8	0.00000	0.00000	0.00000	0.0764	0.03773	0.0264	0.01024	0.00019	0.00005	0.00000	0.00000	0.00000	0.02292	0.01132	0.00792	0.00307	0.00006	0.00002	0.02292	0.0211	0.00333	0.03363	0.00020	0.00633	0.00100	0.01009	0.00020	0.00000	0.00000	0.00000	0.04054	0.02894	0.02554	0.02069	0.01767	0.01763
91	Res-R2	583867.9	4139295.3	0.00000	0.00000	0.00000	0.08376	0.04162	0.02941	0.01143	0.0002	0.00005	0.00000	0.00000	0.00000	0.02513	0.01249	0.00882	0.00343	0.00006	0.00002	0.02513	0.01984	0.00352	0.03518	0.00023	0.00595	0.00106	0.01055	0.00023	0.00000	0.00000	0.00000	0.04292	0.03028	0.02661	0.02122	0.01785	0.01781
92	Res-R2	583876.5	4139292.8	0.00000	0.00000	0.00000	0.09086	0.04527	0.03222	0.01254	0.00021	0.00006	0.00000	0.00000	0.00000	0.02726	0.01358	0.00967	0.00376	0.00006	0.00002	0.02726	0.01879	0.0037	0.03562	0.00029	0.00564	0.00111	0.01069	0.00029	0.00000	0.00000	0.00000	0.04498	0.03130	0.02739	0.02149	0.01779	0.01774
93	Res-R2	583885.2	4139290.3	0.00000	0.00000	0.00000	0.09753	0.0486	0.03475	0.01353	0.00022	0.00006	0.00000	0.00000	0.00000	0.02926	0.01458	0.01043	0.00406	0.00007	0.00002	0.02926	0.01791	0.00376	0.03497	0.00041	0.00537	0.00113	0.01049	0.00041	0.00000	0.00000	0.00000	0.04666	0.03198	0.02783	0.02146	0.01747	0.01742
94	Res-R2	583809.8	4139321.4	0.00000	0.00000	0.00000	0.04096	0.0184	0.01133	0.00426	0.00015	0.00004	0.00000	0.00000	0.00000	0.01229	0.00552	0.00340	0.00128	0.00005	0.00001	0.01229	0.03291	0.00244	0.0164	0.00011	0.00987	0.00073	0.00492	0.00011	0.00000	0.00000	0.00000	0.02792	0.02115	0.01903	0.01691	0.01568	0.01564
95	Res-R2	583822.1	4139299.1	0.00000	0.00000	0.00000	0.04514	0.02073	0.01322	0.00501	0.00015	0.00004	0.00000	0.00000	0.00000	0.01354	0.00622	0.00397	0.00150	0.00005	0.00001	0.01354	0.02938	0.00373	0.02098	0.00013	0.00881	0.00112	0.00629	0.00013	0.00000	0.00000	0.00000	0.02990	0.02258	0.02033	0.01786	0.01641	0.01637
96	Res-R2	583818.5	4139318.9	0.00000	0.00000	0.00000	0.04636	0.02137	0.01362	0.00517	0.00016	0.00004	0.00000	0.00000	0.00000	0.01391	0.00641	0.00409	0.00155	0.00005	0.00001	0.01391	0.03129	0.00262	0.01935	0.00012	0.00939	0.00079	0.00581	0.00012	0.00000	0.00000	0.00000	0.03000	0.02251	0.02018	0.01765	0.01614	0.01611
97	Res-R2	583827.1	4139316.4	0.00000	0.00000	0.00000	0.05276	0.02491	0.01638	0.00627	0.00016	0.00004	0.00000	0.00000	0.00000	0.01583	0.00747	0.00491	0.00188	0.00005	0.00001	0.01583	0.02876	0.00296	0.02266	0.00013	0.00863	0.00089	0.00680	0.00013	0.00000	0.00000	0.00000	0.03227	0.02392	0.02136	0.01832	0.01649	0.01646
98	Res-R2	583835.8	4139313.9	0.00000	0.00000	0.00000	0.06005	0.02896	0.01954	0.00753	0.00017	0.00004	0.00000	0.00000	0.00000	0.01802	0.00869	0.00586	0.00226	0.00005	0.00001	0.01802	0.02632	0.00313	0.02622	0.00014	0.00790	0.00094	0.00787	0.00014	0.00000	0.00000	0.00000	0.03486	0.02553	0.02271	0.01910	0.01690	0.01686
99	Res-R2	583844.4	4139311.4	0.00000	0.00000	0.00000	0.06803	0.03337	0.02299	0.0089	0.00017	0.00005	0.00000	0.00000	0.00000	0.02041	0.01001	0.00690	0.00267	0.00005	0.00002	0.02041	0.02416	0.00314	0.02979	0.00016	0.00725	0.00094	0.00894	0.00016	0.00000	0.00000	0.00000	0.03769	0.02730	0.02418	0.01996	0.01734	0.01730
100	Res-R2	583853.1	4139308.9	0.00000	0.00000	0.00000	0.07635	0.03794	0.02656	0.01032	0.00018	0.00005	0.00000	0.00000	0.00000	0.02291	0.01138	0.00797	0.00310	0.00005	0.00002	0.02291	0.02234	0.0029	0.03302	0.00018	0.00670	0.00087	0.00991	0.00018	0.00000	0.00000	0.00000	0.04056	0.02904	0.02563	0.02075	0.01771	0.01767
101	Res-R2	583861.7	4139306.4	0.00000	0.00000	0.00000	0.08468	0.04244	0.03007	0.01171	0.00019	0.00005	0.00000	0.00000	0.00000	0.02540	0.01273	0.00902	0.00351	0.00006	0.00002	0.02540	0.02085	0.00273	0.03543	0.00019	0.00626	0.00082	0.01063	0.00019	0.00000	0.00000	0.00000	0.04330	0.03063	0.02692	0.02141	0.01795	0.01791
102	Res-R2	583870.4	4139303.9	0.00000	0.00000	0.00000	0.09278	0.04673	0.0334	0.01303	0.0002	0.00005	0.00000	0.00000	0.00000	0.02783	0.01402	0.01002	0.00391	0.00006	0.00002	0.02783	0.01961	0.00256	0.03663	0.00022	0.00588	0.00077	0.01099	0.00022	0.00000	0.00000	0.00000	0.04570	0.03188	0.02788	0.02177	0.01792	0.01788
103	Res-R2	583879.0	4139301.4	0.00000	0.00000	0.00000	0.10042	0.05069	0.03644	0.01423	0.00021	0.00006	0.00000	0.00000	0.00000	0.03013	0.01521	0.01093	0.00427	0.00006	0.00002	0.03013	0.01857	0.00264	0.03647	0.00030	0.00557	0.00079	0.01094	0.00030	0.00000	0.00000	0.00000	0.04773	0.03281	0.02854	0.02187	0.01767	0.01762
104	Res-R2	583887.7	4139298.9	0.00000	0.00000	0.00000	0.10747	0.0542	0.03911	0.01528	0.00022	0.00006	0.00000	0.00000	0.00000	0.03224	0.01626	0.01173	0.00458	0.00007	0.00002	0.03224	0.0177	0.00278	0.03508	0.00060	0.00531	0.00083	0.01052	0.00060	0.00000	0.00000	0.00000	0.04951	0.03353	0.02900	0.02185	0.01733	0.01729
105	Res-R2	583830.8	4139296.6	0.00000	0.00000	0.00000	0.05048	0.02363	0.01546	0.0059	0.00016	0.00004	0.00000	0.00000	0.00000	0.01514	0.00709	0.00464	0.00177	0.00005	0.00001	0.01514	0.02693	0.00475	0.02383	0.00014	0.00808	0.00143	0.00715	0.00014	0.00000	0.00000	0.00000	0.03194	0.02388	0.02143	0.01857	0.01684	0.01681
106	Res-R2	583812.3	4139330.1	0.00000	0.00000	0.00000	0.04369	0.01985	0.01239	0.00468	0.00015	0.00004	0.00000	0.00000	0.00000	0.01311	0.00596	0.00372	0.00140	0.00005	0.00001	0.01311	0.03266	0.00222	0.01655	0.00010	0.00980	0.00067	0.00497	0.00010	0.00000	0.00000	0.00000	0.02864	0.02149	0.01925	0.01694	0.01558	0.01554
107	Res-R2	583821.0	4139327.6	0.00000	0.00000	0.00000	0.05008	0.0234	0.01515	0.00578	0.00016	0.00004	0.00000	0.00000	0.00000	0.01502	0.00702	0.00455	0.00173	0.00005	0.00001	0.01502	0.03101	0.00236	0.01983	0.00011	0.00930	0.00071	0.00595	0.00011	0.00000	0.00000	0.00000	0.03110	0.02309	0.02062	0.01781	0.01612	0.01608
108	Res-R2	583829.6	4139325.1	0.00000	0.00000	0.00000	0.05771	0.02768	0.0185	0.00712	0.00017	0.00004	0.00000	0.00000	0.00000	0.01731	0.00830	0.00555	0.00214	0.00005	0.00001	0.01731	0.02848	0.00249	0.02357	0.00013	0.00854	0.00075	0.00707	0.00013	0.00000	0.00000	0.00000	0.03380	0.02479	0.02204	0.01862	0.01654	0.01650
109	Res-R2	583838.3	4139322.6	0.00000	0.00000	0.00000	0.06636	0.03253	0.02231	0.00863	0.00017	0.00005	0.00000	0.00000	0.00000	0.01991	0.00976	0.00669	0.00259	0.00005	0.00002	0.01991	0.02605	0.0026	0.02759	0.00014	0.00782	0.00078	0.00828	0.00014	0.00000	0.00000	0.00000	0.03692	0.02677	0.02370	0.01960	0.01706	0.01702
110	Res-R2	583846.9	4139320.1	0.00000	0.00000	0.00000	0.07567	0.03733	0.02639	0.01026	0.00019	0.00005	0.00000	0.00000	0.00000	0.02270	0.01132	0.00792	0.00308	0.00006	0.00002	0.02270	0.0239	0.00253	0.03159	0.00015	0.00717	0.00076	0.00948	0.00015	0.00000	0.00000	0.00000	0.04026	0.02888	0.02548	0.02064	0.01761	0.01757
111	Res-R2	583855.6	4139317.6	0.00000	0.00000	0.00000	0.08516	0.04297	0.0305	0.0119	0.00019	0.00005	0.00000	0.00000	0.00000	0.02555	0.01289	0.00915	0.00357	0.00006	0.00002	0.02555	0.0221	0.00244	0.03503	0.00017	0.00663	0.00073	0.01051	0.00017	0.00000	0.00000	0.00000	0.04359	0.03093	0.02719	0.02161	0.01810	0.01805
112	Res-R2	583864.2	4139315.1	0.00000	0.00000	0.00000	0.09445	0.04802	0.03444	0.01346	0.0002	0.00005	0.00000	0.00000	0.00000	0.02834	0.01441	0.01033	0.00404	0.00006	0.00002	0.02834	0.02062	0.00238	0.03728	0.00018	0.00619	0.00071	0.01118	0.00018	0.00000	0.00000	0.00000	0.04661	0.03268	0.02860	0.02231	0.01833	0.01829
113	Res-R2	583839.4	4139294.2	0.00000	0.00000	0.00000	0.0564	0.02683	0.01794	0.00688	0.00017	0.00004	0.00000	0.00000	0.00000	0.01692	0.00805	0.00538	0.00206	0.00005	0.00001	0.01692	0.02476	0.00654	0.02674	0.00014	0.00743	0.00196	0.00802	0.00014	0.00000	0.00000	0.00000	0.03447	0.02560	0.02293	0.01961	0.01760	0.01756
114	Res-R2	583872.9	4139312.6	0.00000	0.00000	0.00000	0.10327	0.05271	0.03808	0.01491	0.0002	0.00006	0.00000	0.00000	0.00000	0.03098	0.01581	0.01142	0.00447	0.00006	0.00002	0.03098	0.0194	0.00231	0.03789	0.00022	0.00582	0.00069	0.01137	0.00022	0.00000	0.00000	0.00000	0.04908	0.03391	0.02953	0.02257	0.01816	0.01812
115	Res-R2	583881.5	4139310.1	0.00000	0.00000	0.00000	0.11144	0.05693	0.04133	0.01619	0.00022	0.00006	0.00000	0.00000	0.00000	0.03343	0.01708	0.01240	0.00486	0.00007	0.00002	0.03343	0.01837	0.00223	0.03687	0.00034	0.00551	0.00067	0.01106	0.00034	0.00000	0.00000	0.00000	0.05103	0.03468	0.03000	0.02246	0.01766	0.01762
116	Res-R2	583890.2	4139307.6	0.00000	0.00000	0.00000	0.11883	0.06082	0.04412	0.01729	0.00023	0.00006	0.00000	0.00000	0.00000	0.03565	0.01825	0.01324	0.00519	0.00007	0.00002	0.03565	0.01751	0.00234	0.0346	0.00124	0.00525	0.00070	0.01038	0.00124	0.00000	0.00000	0.00000	0.05323	0.03576	0.03081	0.02276	0.01765	0.01759
117	Res-R2	583814.8	4139338.7	0.00000	0.00000	0.00000	0.04685	0.02154	0.01365	0.00518	0.00016	0.00004	0.00000	0.00000	0.00000	0.01406	0.00646	0.00410	0.00155	0.00005	0.00001	0.01406	0.03243	0.00204	0.01661	0.00010	0.00973	0.00061	0.00498	0.00010	0.00000	0.00000	0.00000	0.02948	0.02189	0.01952	0.01698	0.01547	0.01544
118	Res-R2	583823.5	4139336.2	0.00000	0.00000	0.00000	0.05455	0.02588	0.01704	0.00654	0.00016	0.00004	0.00000	0.00000	0.00000	0.01637	0.00776	0.00511	0.00196	0.00005	0.00001	0.01637	0.03076	0.00215	0.0203	0.00012	0.00923	0.00065	0.00609	0.00012	0.00000	0.00000	0.00000	0.03244	0.02384	0.02119	0.01804	0.01612	0.01608
119	Res-R2	583832.1	4139333.7	0.00000	0.00000	0.00000	0.06381	0.03112	0.02117	0.00818	0.00017	0.00005	0.00000	0.00000	0.00000	0.01914	0.00934	0.00635	0.00245	0.00005	0.00002	0.01914	0.02822	0.00225	0.02456	0.00012	0.00847	0.00068	0.00737	0.00012	0.00000	0.00000	0.00000	0.03578	0.02597	0.02298	0.01909	0.01668	0.01665
120	Res-R2	583848.1	4139291.7	0.00000	0.00000	0.00000	0.06277	0.03025	0.0206	0.00793	0.00017	0.00005	0.00000	0.00000	0.00000	0.01883	0.00908	0.00618	0.00238	0.00005	0.00002	0.01883	0.02291	0.01054	0.02951	0.00018	0.00687	0.00316	0.00885	0.00018	0.00000	0.00000	0.00000	0.03789	0.02814	0.02524	0.02144	0.01911	0.01908

Receptor No.	Receptor Group Name	Receptor Coordinates UTM-X (m)	UTM-Y (m)	Construction PM2.5 (µg/m³) Total PM2.5 Concentrations (Fugitive + Exhaust) by Year 2023	2024	2025	2026	2027	2028	2029	2030	2031	Construction PM2.5 (µg/m³) - With Use of MERV-13 Total PM2.5 Concentrations (Fugitive + Exhaust) by Year 2023	2024	2025	2026	2027	2028	2029	2030	2031	Maximum Construction PM2.5 Conc. MERV-13 Filtration 2026-2031	Project Operation PM2.5 (µg/m³) Without MERV-13 Local Roads 2026-2055	Project Generators 2026-2055	Cooling Tower 2026-2055	Char-broilers 2026-2055	Project Operation PM2.5 (µg/m³) With MERV-13 Local Roads 2026-2055	Project Generators 2026-2055	Cooling Tower 2026-2055	Char-broilers 2026-2055	Total Construction + Operation PM2.5 (µg/m³) With Use of MERV-13 2023	2024	2025	2026	2027	2028	2029	2030	2031
121	Res-R2	583840.8	4139331.2	0.00000	0.00000	0.00000	0.07417	0.03699	0.02579	0.01003	0.00018	0.00005	0.00000	0.00000	0.00000	0.02225	0.01110	0.00774	0.00301	0.00005	0.00002	0.02225	0.0258	0.00226	0.02918	0.00014	0.00774	0.00068	0.00875	0.00014	0.00000	0.00000	0.00000	0.03956	0.02841	0.02505	0.02032	0.01736	0.01732
122	Res-R2	583849.4	4139328.7	0.00000	0.00000	0.00000	0.08501	0.04309	0.0306	0.01195	0.00018	0.00005	0.00000	0.00000	0.00000	0.02550	0.01293	0.00918	0.00359	0.00005	0.00002	0.02550	0.02366	0.00226	0.03369	0.00015	0.00710	0.00068	0.01011	0.00015	0.00000	0.00000	0.00000	0.04354	0.03096	0.02721	0.02162	0.01809	0.01805
123	Res-R2	583858.1	4139326.2	0.00000	0.00000	0.00000	0.09573	0.04905	0.03529	0.01381	0.00019	0.00005	0.00000	0.00000	0.00000	0.02872	0.01472	0.01059	0.00414	0.00006	0.00002	0.02872	0.02188	0.00223	0.03728	0.00017	0.00656	0.00067	0.01118	0.00017	0.00000	0.00000	0.00000	0.04730	0.03330	0.02917	0.02273	0.01864	0.01860
124	Res-R2	583866.7	4139323.7	0.00000	0.00000	0.00000	0.10597	0.05463	0.03965	0.01555	0.0002	0.00005	0.00000	0.00000	0.00000	0.03179	0.01639	0.01190	0.00467	0.00006	0.00002	0.03179	0.02042	0.00222	0.0391	0.00019	0.00613	0.00067	0.01173	0.00019	0.00000	0.00000	0.00000	0.05050	0.03510	0.03061	0.02338	0.01877	0.01873
125	Res-R2	583875.4	4139321.2	0.00000	0.00000	0.00000	0.11549	0.05968	0.04357	0.01711	0.00021	0.00006	0.00000	0.00000	0.00000	0.03465	0.01790	0.01307	0.00513	0.00006	0.00002	0.03465	0.01921	0.00221	0.03876	0.00025	0.00576	0.00066	0.01163	0.00025	0.00000	0.00000	0.00000	0.05295	0.03621	0.03137	0.02344	0.01837	0.01832
126	Res-R2	583884.0	4139318.7	0.00000	0.00000	0.00000	0.12412	0.06414	0.04699	0.01846	0.00022	0.00006	0.00000	0.00000	0.00000	0.03724	0.01924	0.01410	0.00554	0.00007	0.00002	0.03724	0.01819	0.0022	0.03662	0.00044	0.00546	0.00066	0.01099	0.00044	0.00000	0.00000	0.00000	0.05478	0.03679	0.03164	0.02309	0.01761	0.01757
127	Res-R2	583892.7	4139316.2	0.00000	0.00000	0.00000	0.13181	0.06794	0.04987	0.01959	0.00023	0.00006	0.00000	0.00000	0.00000	0.03954	0.02038	0.01496	0.00588	0.00007	0.00002	0.03954	0.01734	0.0022	0.03342	0.00322	0.00520	0.00066	0.01003	0.00322	0.00000	0.00000	0.00000	0.05865	0.03949	0.03407	0.02498	0.01917	0.01912
128	Res-R2	583856.7	4139289.2	0.00000	0.00000	0.00000	0.06938	0.03377	0.02333	0.00901	0.00018	0.00005	0.00000	0.00000	0.00000	0.02081	0.01013	0.00700	0.00270	0.00005	0.00002	0.02081	0.02138	0.01119	0.0319	0.00020	0.00641	0.00336	0.00957	0.00020	0.00000	0.00000	0.00000	0.04036	0.02968	0.02654	0.02225	0.01960	0.01956
129	Res-R2	583817.3	4139347.4	0.00000	0.00000	0.00000	0.05059	0.02358	0.01517	0.00579	0.00016	0.00004	0.00000	0.00000	0.00000	0.01518	0.00707	0.00455	0.00174	0.00005	0.00001	0.01518	0.03223	0.00194	0.01657	0.00010	0.00967	0.00058	0.00497	0.00010	0.00000	0.00000	0.00000	0.03050	0.02240	0.01988	0.01706	0.01537	0.01534
130	Res-R2	583826.0	4139344.9	0.00000	0.00000	0.00000	0.06014	0.02902	0.01946	0.0075	0.00017	0.00004	0.00000	0.00000	0.00000	0.01804	0.00871	0.00584	0.00225	0.00005	0.00001	0.01804	0.03052	0.00202	0.02076	0.00011	0.00916	0.00061	0.00623	0.00011	0.00000	0.00000	0.00000	0.03415	0.02481	0.02194	0.01835	0.01616	0.01612
131	Res-R2	583834.6	4139342.4	0.00000	0.00000	0.00000	0.07159	0.03557	0.02464	0.00957	0.00017	0.00005	0.00000	0.00000	0.00000	0.02148	0.01067	0.00739	0.00287	0.00005	0.00002	0.02148	0.02799	0.00205	0.02571	0.00013	0.00840	0.00062	0.00771	0.00013	0.00000	0.00000	0.00000	0.03833	0.02752	0.02425	0.01972	0.01690	0.01687
132	Res-R2	583843.3	4139339.9	0.00000	0.00000	0.00000	0.08408	0.0427	0.03029	0.01183	0.00018	0.00005	0.00000	0.00000	0.00000	0.02522	0.01281	0.00909	0.00355	0.00005	0.00002	0.02522	0.02557	0.0021	0.03113	0.00014	0.00767	0.00063	0.00934	0.00014	0.00000	0.00000	0.00000	0.04301	0.03059	0.02687	0.02133	0.01784	0.01780
133	Res-R2	583851.9	4139337.4	0.00000	0.00000	0.00000	0.09662	0.0498	0.03591	0.01407	0.00019	0.00005	0.00000	0.00000	0.00000	0.02899	0.01494	0.01077	0.00422	0.00006	0.00002	0.02899	0.02345	0.00212	0.03625	0.00016	0.00704	0.00064	0.01088	0.00016	0.00000	0.00000	0.00000	0.04770	0.03365	0.02948	0.02293	0.01877	0.01873
134	Res-R2	583860.6	4139334.9	0.00000	0.00000	0.00000	0.10859	0.05647	0.04115	0.01616	0.0002	0.00005	0.00000	0.00000	0.00000	0.03258	0.01694	0.01235	0.00485	0.00006	0.00002	0.03258	0.02169	0.00214	0.03981	0.00020	0.00651	0.00064	0.01194	0.00020	0.00000	0.00000	0.00000	0.05187	0.03623	0.03164	0.02414	0.01935	0.01931
135	Res-R2	583869.2	4139332.4	0.00000	0.00000	0.00000	0.11971	0.06252	0.04589	0.01805	0.00021	0.00005	0.00000	0.00000	0.00000	0.03591	0.01876	0.01377	0.00542	0.00006	0.00002	0.03591	0.02024	0.00216	0.04073	0.00032	0.00607	0.00065	0.01222	0.00032	0.00000	0.00000	0.00000	0.05518	0.03802	0.03303	0.02468	0.01933	0.01928
136	Res-R2	583877.9	4139329.9	0.00000	0.00000	0.00000	0.12982	0.06788	0.05005	0.0197	0.00022	0.00006	0.00000	0.00000	0.00000	0.03895	0.02036	0.01502	0.00591	0.00007	0.00002	0.03895	0.01904	0.00218	0.03898	0.00047	0.00571	0.00065	0.01169	0.00047	0.00000	0.00000	0.00000	0.05748	0.03890	0.03355	0.02444	0.01860	0.01855
137	Res-R2	583886.5	4139327.4	0.00000	0.00000	0.00000	0.13886	0.07251	0.05359	0.0211	0.00023	0.00006	0.00000	0.00000	0.00000	0.04166	0.02175	0.01608	0.00633	0.00007	0.00002	0.04166	0.01803	0.00217	0.03551	0.00109	0.00541	0.00065	0.01065	0.00109	0.00000	0.00000	0.00000	0.05946	0.03955	0.03388	0.02413	0.01787	0.01782
138	Res-R2	583865.4	4139286.7	0.00000	0.00000	0.00000	0.07603	0.03725	0.02602	0.01007	0.00019	0.00005	0.00000	0.00000	0.00000	0.02281	0.01118	0.00781	0.00302	0.00006	0.00002	0.02281	0.02011	0.00865	0.03363	0.00023	0.00603	0.00260	0.01009	0.00023	0.00000	0.00000	0.00000	0.04176	0.03012	0.02676	0.02197	0.01901	0.01896
139	Res-R2	583895.2	4139324.9	0.00000	0.00000	0.00000	0.14678	0.0764	0.05651	0.02225	0.00024	0.00006	0.00000	0.00000	0.00000	0.04403	0.02292	0.01695	0.00668	0.00007	0.00002	0.04403	0.01719	0.00216	0.03144	0.00150	0.00516	0.00065	0.00943	0.00150	0.00000	0.00000	0.00000	0.06078	0.03966	0.03369	0.02342	0.01681	0.01676
140	Res-R2	583819.8	4139356.0	0.00000	0.00000	0.00000	0.05526	0.02616	0.01714	0.00657	0.00017	0.00004	0.00000	0.00000	0.00000	0.01658	0.00785	0.00514	0.00197	0.00005	0.00001	0.01658	0.03205	0.00182	0.01643	0.00011	0.00962	0.00055	0.00493	0.00011	0.00000	0.00000	0.00000	0.03178	0.02305	0.02035	0.01718	0.01526	0.01522
141	Res-R2	583828.5	4139353.5	0.00000	0.00000	0.00000	0.06764	0.03329	0.02279	0.00882	0.00017	0.00005	0.00000	0.00000	0.00000	0.02029	0.00999	0.00684	0.00265	0.00005	0.00002	0.02029	0.0303	0.00185	0.02128	0.00013	0.00909	0.00056	0.00638	0.00013	0.00000	0.00000	0.00000	0.03645	0.02615	0.02300	0.01881	0.01621	0.01618
142	Res-R2	583837.1	4139351.0	0.00000	0.00000	0.00000	0.0822	0.0417	0.02947	0.01149	0.00018	0.00005	0.00000	0.00000	0.00000	0.02466	0.01251	0.00884	0.00345	0.00005	0.00002	0.02466	0.02777	0.00191	0.02719	0.00015	0.00833	0.00057	0.00816	0.00015	0.00000	0.00000	0.00000	0.04187	0.02972	0.02605	0.02066	0.01727	0.01723
143	Res-R2	583845.8	4139348.5	0.00000	0.00000	0.00000	0.0972	0.05032	0.03632	0.01423	0.00019	0.00005	0.00000	0.00000	0.00000	0.02916	0.01510	0.01090	0.00427	0.00006	0.00002	0.02916	0.02536	0.00197	0.03371	0.00018	0.00761	0.00059	0.01011	0.00018	0.00000	0.00000	0.00000	0.04766	0.03359	0.02939	0.02276	0.01855	0.01851
144	Res-R2	583854.4	4139346.0	0.00000	0.00000	0.00000	0.11147	0.05842	0.04274	0.01679	0.00019	0.00005	0.00000	0.00000	0.00000	0.03344	0.01753	0.01282	0.00504	0.00006	0.00002	0.03344	0.02326	0.00203	0.03952	0.00023	0.00698	0.00061	0.01186	0.00023	0.00000	0.00000	0.00000	0.05311	0.03720	0.03250	0.02471	0.01973	0.01969
145	Res-R2	583874.0	4139284.2	0.00000	0.00000	0.00000	0.08257	0.04059	0.02859	0.01108	0.0002	0.00005	0.00000	0.00000	0.00000	0.02477	0.01218	0.00858	0.00332	0.00006	0.00002	0.02477	0.01905	0.00648	0.0345	0.00028	0.00572	0.00194	0.01035	0.00028	0.00000	0.00000	0.00000	0.04306	0.03047	0.02687	0.02161	0.01835	0.01830
146	Res-R2	583863.1	4139343.5	0.00000	0.00000	0.00000	0.12456	0.06571	0.04848	0.01908	0.0002	0.00005	0.00000	0.00000	0.00000	0.03737	0.01971	0.01454	0.00572	0.00006	0.00002	0.03737	0.02151	0.00207	0.0426	0.00033	0.00645	0.00062	0.01278	0.00033	0.00000	0.00000	0.00000	0.05755	0.03989	0.03472	0.02590	0.02024	0.02019
147	Res-R2	583871.7	4139341.0	0.00000	0.00000	0.00000	0.13641	0.07214	0.05351	0.02109	0.00021	0.00006	0.00000	0.00000	0.00000	0.04092	0.02164	0.01605	0.00633	0.00006	0.00002	0.04092	0.02007	0.00211	0.04184	0.00045	0.00602	0.00063	0.01255	0.00045	0.00000	0.00000	0.00000	0.06058	0.04130	0.03571	0.02598	0.01972	0.01968
148	Res-R2	583880.4	4139338.5	0.00000	0.00000	0.00000	0.14701	0.07772	0.05783	0.0228	0.00022	0.00006	0.00000	0.00000	0.00000	0.04410	0.02332	0.01735	0.00684	0.00007	0.00002	0.04410	0.01888	0.00215	0.03817	0.00050	0.00566	0.00065	0.01145	0.00050	0.00000	0.00000	0.00000	0.06236	0.04158	0.03561	0.02510	0.01833	0.01828
149	Res-R2	583889.0	4139336.0	0.00000	0.00000	0.00000	0.15641	0.08248	0.06146	0.02424	0.00023	0.00006	0.00000	0.00000	0.00000	0.04692	0.02474	0.01844	0.00727	0.00007	0.00002	0.04692	0.01789	0.00216	0.03336	0.00051	0.00537	0.00065	0.01001	0.00051	0.00000	0.00000	0.00000	0.06346	0.04128	0.03497	0.02381	0.01660	0.01655
150	Res-R2	583897.7	4139333.5	0.00000	0.00000	0.00000	0.16449	0.0864	0.06438	0.02539	0.00024	0.00006	0.00000	0.00000	0.00000	0.04935	0.02592	0.01931	0.00762	0.00007	0.00002	0.04935	0.01706	0.00215	0.02875	0.00040	0.00512	0.00065	0.00863	0.00040	0.00000	0.00000	0.00000	0.06413	0.04071	0.03410	0.02240	0.01486	0.01480
151	Res-R2	583822.3	4139364.7	0.00000	0.00000	0.00000	0.0618	0.02984	0.01996	0.00768	0.00017	0.00005	0.00000	0.00000	0.00000	0.01854	0.00895	0.00599	0.00230	0.00005	0.00002	0.01854	0.03188	0.00167	0.01619	0.00013	0.00956	0.00050	0.00486	0.00013	0.00000	0.00000	0.00000	0.03359	0.02400	0.02104	0.01736	0.01510	0.01507
152	Res-R6	584263.0	4139130.3	0.00000	0.00000	0.00000	1.47691	0.56154	0.12507	0.05012	0.00609	0.00141	0.00000	0.00000	0.00000	0.44307	0.16846	0.03752	0.01504	0.00183	0.00042	0.44307	0.0319	0.01743	0.00435	0.00025	0.00957	0.00523	0.00131	0.00025	0.00000	0.00000	0.00000	0.45943	0.18482	0.05388	0.03139	0.01818	0.01678
153	Res-R6	584270.0	4139136.0	0.00000	0.00000	0.00000	1.63178	0.58644	0.13441	0.05521	0.00659	0.00151	0.00000	0.00000	0.00000	0.48953	0.17593	0.04032	0.01656	0.00198	0.00045	0.48953	0.03594	0.01801	0.00429	0.00024	0.01078	0.00540	0.00129	0.00024	0.00000	0.00000	0.00000	0.50724	0.19364	0.05803	0.03427	0.01969	0.01816
154	Res-R6	584276.9	4139141.8	0.00000	0.00000	0.00000	1.8035	0.6055	0.14418	0.06085	0.00712	0.00162	0.00000	0.00000	0.00000	0.54105	0.18165	0.04325	0.01826	0.00214	0.00049	0.54105	0.04101	0.01746	0.00423	0.00022	0.01230	0.00524	0.00127	0.00022	0.00000	0.00000	0.00000	0.56008	0.20068	0.06228	0.03728	0.02116	0.01951
155	Res-R6	584283.9	4139147.5	0.00000	0.00000	0.00000	1.99015	0.61798	0.15431	0.06699	0.00769	0.00173	0.00000	0.00000	0.00000	0.59705	0.18539	0.04629	0.02010	0.00231	0.00052	0.59705	0.047	0.01593	0.00419	0.00019	0.01410	0.00478	0.00126	0.00019	0.00000	0.00000	0.00000	0.61737	0.20572	0.06662	0.04042	0.02263	0.02085
156	Res-R6	584257.3	4139137.3	0.00000	0.00000	0.00000	1.50308	0.59269	0.12796	0.05117	0.00613	0.00141	0.00000	0.00000	0.00000	0.45092	0.17781	0.03839	0.01535	0.00184	0.00042	0.45092	0.03161	0.01709	0.0044	0.00024	0.00948	0.00513	0.00132	0.00024	0.00000	0.00000	0.00000	0.46709	0.19397	0.05456	0.03152	0.01801	0.01659
157	Res-R6	584264.2	4139143.0	0.00000	0.00000	0.00000	1.66906	0.62336	0.13806	0.05663	0.00665	0.00152	0.00000	0.00000	0.00000	0.50072	0.18701	0.04142	0.01699	0.00200	0.00046	0.50072	0.0355	0.0179	0.00434	0.00023	0.01065	0.00537	0.00130	0.00023	0.00000	0.00000	0.00000	0.51827	0.20456	0.05897	0.03454	0.01955	0.01801
158	Res-R6	584271.2	4139148.7	0.00000	0.00000	0.00000	1.85709	0.64775	0.14878	0.06284	0.00721	0.00163	0.00000	0.00000	0.00000	0.55713	0.19433	0.04463	0.01885	0.00216	0.00049	0.55713	0.04035	0.01755	0.00429	0.00021	0.01211	0.00527	0.00129	0.00021	0.00000	0.00000	0.00000	0.57600	0.21320	0.06350	0.03772	0.02103	0.01936
159	Res-R6	584278.1	4139154.4	0.00000	0.00000	0.00000	2.06778	0.66495	0.16012	0.06984	0.00782	0.00174	0.00000	0.00000	0.00000	0.62033	0.19949	0.04804	0.02095	0.00235	0.00052	0.62033	0.04598	0.01616	0.00424	0.00019	0.01379	0.00485	0.00127	0.00019	0.00000	0.00000	0.00000	0.64044	0.21959	0.06814	0.04106	0.02245	0.02063
160	Res-R6	584251.6	4139144.2	0.00000	0.00000	0.00000	1.52488	0.62478	0.13071	0.05205	0.00617	0.00142	0.00000	0.00000	0.00000	0.45746	0.18743	0.03921	0.01562	0.00185	0.00043	0.45746	0.03134	0.01651	0.00446	0.00022	0.00940	0.00495	0.00134	0.00022	0.00000	0.00000	0.00000	0.47338	0.20335	0.05513	0.03153	0.01776	0.01634
161	Res-R6	584258.5	4139150.0	0.00000	0.00000	0.00000	1.70014	0.66212	0.14155	0.05783	0.0067	0.00152	0.00000	0.00000	0.00000	0.51004	0.19864	0.04247	0.01735	0.00201	0.00046	0.51004	0.03509	0.01746	0.0044	0.00022	0.01053	0.00524	0.00132	0.00022	0.00000	0.00000	0.00000	0.52734	0.21594	0.05977	0.03465	0.01931	0.01776
162	Res-R6	584265.5	4139155.7	0.00000	0.00000	0.00000	1.90177	0.69288	0.15317	0.06452	0.00729	0.00164	0.00000	0.00000	0.00000	0.57053	0.20786	0.04595	0.01936	0.00219	0.00049	0.57053	0.0397	0.01731	0.00434	0.00021	0.01191	0.00519	0.00130	0.00021	0.00000	0.00000	0.00000	0.58914	0.22648	0.06456	0.03797	0.02080	0.01910
163	Res-R6	584272.4	4139161.4	0.00000	0.00000	0.00000	2.13388	0.71578	0.16569	0.07228	0.00794	0.00176	0.00000	0.00000	0.00000	0.64016	0.21473	0.04971	0.02168	0.00238	0.00053	0.64016	0.0449	0.01607	0.0043	0.00019	0.01347	0.00482	0.00129	0.00019	0.00000	0.00000	0.00000	0.65993	0.23450	0.06948	0.04145	0.02215	0.02030
164	Res-R6	584245.9	4139151.2	0.00000	0.00000	0.00000	1.54206	0.65735	0.13328	0.05277	0.00619	0.00142	0.00000	0.00000	0.00000	0.46262	0.19721	0.03998	0.01583	0.00186	0.00043	0.46262	0.03114	0.01567	0.00452	0.00020	0.00934	0.00470	0.00136	0.00020	0.00000	0.00000	0.00000	0.47822	0.21281	0.05559	0.03143	0.01746	0.01603
165	Res-R6	584252.8	4139156.9	0.00000	0.00000	0.00000	1.72525	0.70266	0.14488	0.05881	0.00674	0.00153	0.00000	0.00000	0.00000	0.51758	0.21080	0.04346	0.01764	0.00202	0.00046	0.51758	0.03478	0.01671	0.00446	0.00020	0.01043	0.00501	0.00134	0.00020	0.00000	0.00000	0.00000	0.53456	0.22779	0.06045	0.03463	0.01901	0.01745
166	Res-R6	584259.8	4139162.6	0.00000	0.00000	0.00000	1.93775	0.74106	0.15736	0.06587	0.00736	0.00165	0.00000	0.00000	0.00000	0.58133	0.22232	0.04721	0.01976	0.00221	0.00050	0.58133	0.03922	0.01672	0.0044	0.00020	0.01177	0.00502	0.00132	0.00020	0.00000	0.00000	0.00000	0.59962	0.24062	0.06551	0.03806	0.02051	0.01879
167	Res-R6	584266.7	4139168.3	0.00000	0.00000	0.00000	2.18619	0.7707	0.17093	0.07422	0.00803	0.00177	0.00000	0.00000	0.00000	0.65586	0.23121	0.05128	0.02227	0.00241	0.00053	0.65586	0.04408	0.01568	0.00435	0.00018	0.01322	0.00470	0.00131	0.00018	0.00000	0.00000	0.00000	0.67527	0.25063	0.07070	0.04168	0.02183	0.01995
168	Res-R6	584240.1	4139158.2	0.00000	0.00000	0.00000	1.55562	0.69012	0.1357	0.05336	0.0062	0.00142	0.00000	0.00000	0.00000	0.46669	0.20704	0.04071	0.01601	0.00186	0.00043	0.46669	0.03105	0.01474	0.00458	0.00019	0.00932	0.00442	0.00137	0.00019	0.00000	0.00000	0.00000	0.48198	0.22233	0.05601	0.03131	0.01716	0.01572
169	Res-R6	584247.1	4139163.9	0.00000	0.00000	0.00000	1.74452	0.74456	0.14802	0.05958	0.00677	0.00153	0.00000	0.00000	0.00000	0.52336	0.22337	0.04441	0.01787	0.00203	0.00046	0.52336	0.03462	0.01577	0.00452	0.00019	0.01039	0.00473	0.00136	0.00019	0.00000	0.00000	0.00000	0.54002	0.24003	0.06107	0.03454	0.01869	0.01712
170	Res-R6	584254.1	4139169.6	0.00000	0.00000	0.00000	1.96519	0.79221	0.16134	0.06691	0.00741	0.00165	0.00000	0.00000	0.00000	0.58956	0.23766	0.04840	0.02007	0.00222	0.00050	0.58956	0.03897	0.01586	0.00446	0.00018	0.01169	0.00476	0.00134	0.00018	0.00000	0.00000	0.00000	0.60753	0.25563	0.06637	0.03804	0.02019	0.01847
171	Res-R6	584261.0	4139175.3	0.00000	0.00000	0.00000	2.22518	0.83026	0.17588	0.07568	0.00811	0.00178	0.00000	0.00000	0.00000	0.66755	0.24908	0.05276	0.02270	0.00243	0.00053	0.66755	0.04368	0.01501	0.00441	0.00018	0.01310	0.00450	0.00132	0.00018	0.00000	0.00000	0.00000	0.68666	0.26818	0.07187	0.04181	0.02154	0.01964
172	Res-R6	584234.4	4139165.1	0.00000	0.00000	0.00000	1.56593	0.72236	0.13795	0.05383	0.0062	0.00141	0.00000	0.00000	0.00000	0.46978	0.21671	0.04139	0.01615	0.00186	0.00042	0.46978	0.03104	0.01376	0.00464	0.00017	0.00931	0.00413	0.00139	0.00017	0.00000	0.00000	0.00000	0.48478	0.23171	0.05639	0.03115	0.01687	0.01543
173	Res-R6	584241.4	4139170.8	0.00000	0.00000	0.00000	1.75962	0.78744	0.15103	0.0602	0.00679	0.00153	0.00000	0.00000	0.00000	0.52789	0.23623	0.04531	0.01806	0.00204	0.00046	0.52789	0.03458	0.01473	0.00458	0.00017	0.01037	0.00442	0.00137	0.00017	0.00000	0.00000	0.00000	0.54423	0.25257	0.06165	0.03440	0.01838	0.01680
174	Res-R6	584248.3	4139176.5	0.00000	0.00000	0.00000	1.98627	0.84637	0.1652	0.06771	0.00744	0.00166	0.00000	0.00000	0.00000	0.59588	0.25391	0.04956	0.02031	0.00223	0.00050	0.59588	0.03891	0.01486	0.00452	0.00017	0.01167	0.00446	0.00136	0.00017	0.00000	0.00000	0.00000	0.61354	0.27157	0.06722	0.03797	0.01989	0.01816
175	Res-R6	584255.3	4139182.2	0.00000	0.00000	0.00000	2.25355	0.89481	0.18063	0.07673	0.00817	0.00179	0.00000	0.00000	0.00000	**0.67607**	0.26844	0.05419	0.02302	0.00245	0.00054	**0.67607**	0.04357	0.01416	0.00447	0.00017	**0.01307**	**0.00425**	**0.00134**	**0.00017**	0.00000	0.00000	0.00000	**0.69489**	0.28727	0.07301	0.04184	0.02128	0.01936
176	Res-R3	584101.9	4139406.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00124	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00037	0.00037	0.04064	0.00572	0.00629	0.00019	0.01219	0.00172	0.00189	0.00019	0.00000	0.00000	0.00000	0.01599	0.01599	0.01599	0.01599	0.01599	0.01636
177	Res-R3	584109.0	4139401.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00149	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00045	0.00045	0.0375	0.00636	0.00622	0.00022	0.01125	0.00191	0.00187	0.00022	0.00000	0.00000	0.00000	0.01524	0.01524	0.01524	0.01524	0.01524	0.01569
178	Res-R3	584116.1	4139395.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00174	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00052	0.00052	0.03514	0.00737	0.00615	0.00025	0.01054	0.00221	0.00185	0.00025	0.00000	0.00000	0.00000	0.01485	0.01485	0.01485	0.01485	0.01485	0.01537
179	Res-R3	584123.2	4139390.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00199	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00060	0.00060	0.03336	0.00778	0.00608	0.00030	0.01001	0.00233	0.00182	0.00030	0.00000	0.00000	0.00000	0.01446	0.01446	0.01446	0.01446	0.01446	0.01506
180	Res-R3	584130.2	4139384.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00223	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00067	0.00067	0.03205	0.00829	0.006	0.00035	0.00962	0.00249	0.00180	0.00035	0.00000	0.00000	0.00000	0.01425	0.01425	0.01425	0.01425	0.01425	0.01492
181	Res-R3	584137.3	4139378.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00244	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00073	0.00073	0.03111	0.00894	0.00593	0.00038	0.00933	0.00268	0.00178	0.00038	0.00000	0.00000	0.00000	0.01417	0.01417	0.01417	0.01417	0.01417	0.01490
182	Res-R3	584144.4	4139373.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00264	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00079	0.00079	0.0304	0.00927	0.00585	0.00038	0.00912	0.00278	0.00176	0.00038	0.00000	0.00000	0.00000	0.01404	0.01404	0.01404	0.01404	0.01404	0.01483
183	Res-R3	584151.5	4139367.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00281	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00084	0.00084	0.02986	0.00996	0.00577	0.00038	0.00896	0.00299	0.00173	0.00038	0.00000	0.00000	0.00000	0.01406	0.01406	0.01406	0.01406	0.01406	0.01490
184	Res-R3	584107.4	4139413.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00157	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00047	0.00047	0.0379	0.00579	0.0061	0.00019	0.01137	0.00174	0.00183	0.00019	0.00000	0.00000	0.00000	0.01513	0.01513	0.01513	0.01513	0.01513	0.01560
185	Res-R3	584114.5	4139408.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00189	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00057	0.00057	0.03493	0.0064	0.00605	0.00022	0.01048	0.00192	0.00182	0.00022	0.00000	0.00000	0.00000	0.01443	0.01443	0.01443	0.01443	0.01443	0.01500
186	Res-R3	584121.6	4139402.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0022	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00066	0.00066	0.03267	0.0073	0.00599	0.00024	0.00980	0.00219	0.00180	0.00024	0.00000	0.00000	0.00000	0.01403	0.01403	0.01403	0.01403	0.01403	0.01469
187	Res-R3	584128.7	4139397.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00249	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00075	0.00075	0.03093	0.00778	0.00593	0.00028	0.00928	0.00233	0.00178	0.00028	0.00000	0.00000	0.00000	0.01367	0.01367	0.01367	0.01367	0.01367	0.01442
188	Res-R3	584135.8	4139391.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00275	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00083	0.00083	0.02963	0.0084	0.00586	0.00031	0.00889	0.00252	0.00176	0.00031	0.00000	0.00000	0.00000	0.01347	0.01347	0.01347	0.01347	0.01347	0.01430
189	Res-R3	584142.9	4139386.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00298	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00089	0.00089	0.02867	0.00886	0.0058	0.00032	0.00860	0.00266	0.00174	0.00032	0.00000	0.00000	0.00000	0.01332	0.01332	0.01332	0.01332	0.01332	0.01422
190	Res-R3	584150.0	4139380.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00317	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00095	0.00095	0.02795	0.0093	0.00573	0.00033	0.00839	0.00279	0.00172	0.00033	0.00000	0.00000	0.00000	0.01322	0.01322	0.01322	0.01322	0.01322	0.01417
191	Res-R3	584157.1	4139374.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00334	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00100	0.00100	0.0274	0.00971	0.00566	0.00032	0.00822	0.00291	0.00170	0.00032	0.00000	0.00000	0.00000	0.01316	0.01316	0.01316	0.01316	0.01316	0.01416
192	Res-R3	584113.0	4139420.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00207	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00062	0.00062	0.03547	0.00576	0.00592	0.00019	0.01064	0.00173	0.00178	0.00019	0.00000	0.00000	0.00000	0.01433	0.01433	0.01433	0.01433	0.01433	0.01496
193	Res-R3	584120.1	4139415.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00247	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00074	0.00074	0.03272	0.00633	0.00588	0.00021	0.00982	0.00190	0.00176	0.00021	0.00000	0.00000	0.00000	0.01369	0.01369	0.01369	0.01369	0.01369	0.01443
194	Res-R3	584127.2	4139409.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00283	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00085	0.00085	0.03056	0.00714	0.00583	0.00023	0.00917	0.00214	0.00175	0.00023	0.00000	0.00000	0.00000	0.01329	0.01329	0.01329	0.01329	0.01329	0.01414
195	Res-R3	584134.2	4139404.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00314	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00094	0.00094	0.0289	0.00781	0.00578	0.00025	0.00867	0.00234	0.00173	0.00025	0.00000	0.00000	0.00000	0.01300	0.01300	0.01300	0.01300	0.01300	0.01394
196	Res-R3	584141.3	4139398.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0034	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00102	0.00102	0.02765	0.00826	0.00572	0.00027	0.00830	0.00248	0.00172	0.00027	0.00000	0.00000	0.00000	0.01276	0.01276	0.01276	0.01276	0.01276	0.01378
197	Res-R3	584148.4	4139393.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00363	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00109	0.00109	0.02671	0.0086	0.00566	0.00028	0.00801	0.00258	0.00170	0.00028	0.00000	0.00000	0.00000	0.01257	0.01257	0.01257	0.01257	0.01257	0.01366
198	Res-R3	584155.5	4139387.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00381	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00114	0.00114	0.02599	0.00902	0.0056	0.00029	0.00780	0.00271	0.00168	0.00029	0.00000	0.00000	0.00000	0.01247	0.01247	0.01247	0.01247	0.01247	0.01361
199	Res-R3	584162.6	4139382.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00397	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00119	0.00119	0.02544	0.00937	0.00554	0.00029	0.00763	0.00281	0.00166	0.00029	0.00000	0.00000	0.00000	0.01239	0.01239	0.01239	0.01239	0.01239	0.01359
200	Res-R3	584118.5	4139427.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00287	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00086	0.00086	0.03332	0.00567	0.00574	0.00018	0.01000	0.00170	0.00172	0.00018	0.00000	0.00000	0.00000	0.01360	0.01360	0.01360	0.01360	0.01360	0.01446
201	Res-R3	584125.6	4139422.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00332	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00100	0.00100	0.03077	0.00612	0.00571	0.00019	0.00923	0.00184	0.00171	0.00019	0.00000	0.00000	0.00000	0.01297	0.01297	0.01297	0.01297	0.01297	0.01397
202	Res-R3	584132.7	4139416.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00368	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00110	0.00110	0.02875	0.00689	0.00567	0.00021	0.00863	0.00207	0.00170	0.00021	0.00000	0.00000	0.00000	0.01260	0.01260	0.01260	0.01260	0.01260	0.01371
203	Res-R3	584139.8	4139411.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00398	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00119	0.00119	0.02719	0.00755	0.00563	0.00023	0.00816	0.00227	0.00169	0.00023	0.00000	0.00000	0.00000	0.01234	0.01234	0.01234	0.01234	0.01234	0.01353
204	Res-R3	584146.9	4139405.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00422	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00127	0.00127	0.026	0.00792	0.00558	0.00024	0.00780	0.00238	0.00167	0.00024	0.00000	0.00000	0.00000	0.01209	0.01209	0.01209	0.01209	0.01209	0.01335
205	Res-R3	584154.0	4139400.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00442	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00133	0.00133	0.02508	0.00809	0.00553	0.00025	0.00752	0.00243	0.00166	0.00025	0.00000	0.00000	0.00000	0.01186	0.01186	0.01186	0.01186	0.01186	0.01318
206	Res-R3	584161.1	4139394.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00458	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00137	0.00137	0.02437	0.00842	0.00548	0.00026	0.00731	0.00253	0.00164	0.00026	0.00000	0.00000	0.00000	0.01174	0.01174	0.01174	0.01174	0.01174	0.01311
207	Res-R3	584168.1	4139389.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00472	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00142	0.00142	0.02384	0.00878	0.00542	0.00027	0.00715	0.00263	0.00163	0.00027	0.00000	0.00000	0.00000	0.01168	0.01168	0.01168	0.01168	0.01168	0.01309
208	Res-R3	584124.1	4139435.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00418	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00125	0.00125	0.0314	0.00553	0.00557	0.00017	0.00942	0.00166	0.00167	0.00017	0.00000	0.00000	0.00000	0.01292	0.01292	0.01292	0.01292	0.01292	0.01417
209	Res-R3	584131.2	4139429.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00457	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00137	0.00137	0.02903	0.00584	0.00555	0.00018	0.00871	0.00175	0.00167	0.00018	0.00000	0.00000	0.00000	0.01230	0.01230	0.01230	0.01230	0.01230	0.01367
210	Res-R3	584138.2	4139423.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00486	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00146	0.00146	0.02715	0.00641	0.00552	0.00019	0.00815	0.00192	0.00166	0.00019	0.00000	0.00000	0.00000	0.01191	0.01191	0.01191	0.01191	0.01191	0.01337
211	Res-R3	584145.3	4139418.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00509	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00153	0.00153	0.0257	0.00697	0.00549	0.00020	0.00771	0.00209	0.00165	0.00020	0.00000	0.00000	0.00000	0.01165	0.01165	0.01165	0.01165	0.01165	0.01318
212	Res-R3	584152.4	4139412.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00527	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00158	0.00158	0.02457	0.00739	0.00545	0.00021	0.00737	0.00222	0.00164	0.00021	0.00000	0.00000	0.00000	0.01144	0.01144	0.01144	0.01144	0.01144	0.01302
213	Res-R3	584159.5	4139407.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00541	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00162	0.00162	0.0237	0.00747	0.0054	0.00022	0.00711	0.00224	0.00162	0.00022	0.00000	0.00000	0.00000	0.01120	0.01120	0.01120	0.01120	0.01120	0.01282
214	Res-R3	584166.6	4139401.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00552	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00166	0.00166	0.02303	0.00765	0.00536	0.00023	0.00691	0.00230	0.00161	0.00023	0.00000	0.00000	0.00000	0.01105	0.01105	0.01105	0.01105	0.01105	0.01270
215	Res-R3	584173.7	4139396.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00561	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00168	0.00168	0.02251	0.00793	0.00531	0.00025	0.00675	0.00238	0.00159	0.00025	0.00000	0.00000	0.00000	0.01097	0.01097	0.01097	0.01097	0.01097	0.01265
216	Res-R3	584092.3	4139379.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00083	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00025	0.00025	0.04797	0.01048	0.00674	0.00035	0.01439	0.00314	0.00202	0.00035	0.00000	0.00000	0.00000	0.01991	0.01991	0.01991	0.01991	0.01991	0.02016
217	Res-R3	584099.4	4139374.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00096	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00029	0.00029	0.04586	0.01787	0.00664	0.00328	0.01376	0.00536	0.00199	0.00328	0.00000	0.00000	0.00000	0.02439	0.02439	0.02439	0.02439	0.02439	0.02468
218	Res-R3	584106.5	4139368.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0011	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00033	0.00033	0.0444	0.01123	0.00653	0.00099	0.01332	0.00337	0.00196	0.00099	0.00000	0.00000	0.00000	0.01964	0.01964	0.01964	0.01964	0.01964	0.01997
219	Res-R3	584113.6	4139363.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00124	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00037	0.00037	0.04338	0.03447	0.00643	0.00052	0.01301	0.01034	0.00193	0.00052	0.00000	0.00000	0.00000	0.02581	0.02581	0.02581	0.02581	0.02581	0.02618
220	Res-R3	584120.7	4139357.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00139	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00042	0.00042	0.04254	0.03065	0.00632	0.00045	0.01276	0.00920	0.00190	0.00045	0.00000	0.00000	0.00000	0.02430	0.02430	0.02430	0.02430	0.02430	0.02472
221	Res-R3	584127.8	4139352.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00154	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00046	0.00046	0.04189	0.0132	0.00622	0.00041	0.01257	0.00396	0.00187	0.00041	0.00000	0.00000	0.00000	0.01880	0.01880	0.01880	0.01880	0.01880	0.01926
222	Res-R3	584134.9	4139346.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00168	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00050	0.00050	0.04137	0.01033	0.00611	0.00039	0.01241	0.00310	0.00183	0.00039	0.00000	0.00000	0.00000	0.01774	0.01774	0.01774	0.01774	0.01774	0.01824
223	Res-R3	584097.9	4139386.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00099	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00030	0.00030	0.04409	0.00662	0.00657	0.00022	0.01323	0.00199	0.00197	0.00022	0.00000	0.00000	0.00000	0.01740	0.01740	0.01740	0.01740	0.01740	0.01770
224	Res-R3	584105.0	4139381.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00115	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00035	0.00035	0.0417	0.00686	0.00648	0.00031	0.01251	0.00206	0.00194	0.00031	0.00000	0.00000	0.00000	0.01683	0.01683	0.01683	0.01683	0.01683	0.01717
225	Res-R3	584112.1	4139375.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00132	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00040	0.00040	0.04009	0.00763	0.00638	0.00043	0.01203	0.00229	0.00191	0.00043	0.00000	0.00000	0.00000	0.01666	0.01666	0.01666	0.01666	0.01666	0.01706
226	Res-R3	584119.2	4139370.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00149	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00045	0.00045	0.03892	0.00853	0.00629	0.00045	0.01168	0.00256	0.00189	0.00045	0.00000	0.00000	0.00000	0.01657	0.01657	0.01657	0.01657	0.01657	0.01702
227	Res-R3	584126.2	4139364.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00167	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00050	0.00050	0.03805	0.01003	0.00619	0.00046	0.01142	0.00301	0.00186	0.00046	0.00000	0.00000	0.00000	0.01674	0.01674	0.01674	0.01674	0.01674	0.01724
228	Res-R3	584133.3	4139359.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00183	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00055	0.00055	0.03739	0.01039	0.00609	0.00045	0.01122	0.00312	0.00183	0.00045	0.00000	0.00000	0.00000	0.01661	0.01661	0.01661	0.01661	0.01661	0.01716
229	Res-R3	584140.4	4139353.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00199	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00060	0.00060	0.03688	0.01025	0.006	0.00045	0.01106	0.00308	0.00180	0.00045	0.00000	0.00000	0.00000	0.01639	0.01639	0.01639	0.01639	0.01639	0.01699
230	Res-R3	584098.2	4139397.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00106	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00032	0.00032	0.04285	0.00581	0.00646	0.00020	0.01286	0.00174	0.00194	0.00020	0.00000	0.00000	0.00000	0.01673	0.01673	0.01673	0.01673	0.01673	0.01705
231	Res-R3	584103.4	4139394.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0012	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00036	0.00036	0.04054	0.00619	0.0064	0.00022	0.01216	0.00186	0.00192	0.00022	0.00000	0.00000	0.00000	0.01615	0.01615	0.01615	0.01615	0.01615	0.01651
232	Res-R3	584110.5	4139388.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0014	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00042	0.00042	0.0381	0.00713	0.00631	0.00026	0.01143	0.00214	0.00189	0.00026	0.00000	0.00000	0.00000	0.01572	0.01572	0.01572	0.01572	0.01572	0.01614
233	Res-R3	584117.6	4139382.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00161	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00048	0.00048	0.03637	0.00777	0.00623	0.00032	0.01091	0.00233	0.00187	0.00032	0.00000	0.00000	0.00000	0.01543	0.01543	0.01543	0.01543	0.01543	0.01592
234	Res-R3	584124.7	4139377.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00182	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00055	0.00055	0.0351	0.00815	0.00615	0.00039	0.01053	0.00245	0.00185	0.00039	0.00000	0.00000	0.00000	0.01521	0.01521	0.01521	0.01521	0.01521	0.01576
235	Res-R3	584131.8	4139371.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00201	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00060	0.00060	0.03418	0.00886	0.00606	0.00043	0.01025	0.00266	0.00182	0.00043	0.00000	0.00000	0.00000	0.01516	0.01516	0.01516	0.01516	0.01516	0.01576
236	Res-R3	584138.9	4139366.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00219	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00066	0.00066	0.0335	0.00962	0.00597	0.00044	0.01005	0.00289	0.00179	0.00044	0.00000	0.00000	0.00000	0.01516	0.01516	0.01516	0.01516	0.01516	0.01582
237	Res-R4	584146.0	4139360.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00236	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00071	0.00071	0.03298	0.00998	0.00588	0.00043	0.00989	0.00299	0.00176	0.00043	0.00000	0.00000	0.00000	0.01509	0.01509	0.01509	0.01509	0.01509	0.01579
238	Res-R4	584179.5	4139343.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00315	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00095	0.00095	0.02815	0.01552	0.00545	0.00039	0.00845	0.00466	0.00164	0.00039	0.00000	0.00000	0.00000	0.01513	0.01513	0.01513	0.01513	0.01513	0.01607
239	Res-R4	584186.6	4139337.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00323	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00097	0.00097	0.02799	0.0171	0.00537	0.00041	0.00840	0.00513	0.00161	0.00041	0.00000	0.00000	0.00000	0.01555	0.01555	0.01555	0.01555	0.01555	0.01651
240	Res-R4	584193.6	4139331.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0033	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00099	0.00099	0.02787	0.0185	0.00529	0.00043	0.00836	0.00555	0.00159	0.00043	0.00000	0.00000	0.00000	0.01593	0.01593	0.01593	0.01593	0.01593	0.01692
241	Res-R4	584200.7	4139326.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00337	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00101	0.00101	0.02779	0.01958	0.00521	0.00045	0.00834	0.00587	0.00156	0.00045	0.00000	0.00000	0.00000	0.01622	0.01622	0.01622	0.01622	0.01622	0.01723
242	Res-R4	584207.8	4139320.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00342	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00103	0.00103	0.02773	0.02026	0.00514	0.00046	0.00832	0.00608	0.00154	0.00046	0.00000	0.00000	0.00000	0.01640	0.01640	0.01640	0.01640	0.01640	0.01743
243	Res-R4	584214.8	4139315.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00346	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00104	0.00104	0.02771	0.02059	0.00507	0.00047	0.00831	0.00618	0.00152	0.00047	0.00000	0.00000	0.00000	0.01648	0.01648	0.01648	0.01648	0.01648	0.01752
244	Res-R4	584221.9	4139309.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0035	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00105	0.00105	0.02773	0.02063	0.00499	0.00047	0.00832	0.00619	0.00150	0.00047	0.00000	0.00000	0.00000	0.01647	0.01647	0.01647	0.01647	0.01647	0.01752
245	Res-R4	584178.0	4139355.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00353	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00106	0.00106	0.02608	0.01346	0.00543	0.00036	0.00782	0.00404	0.00163	0.00036	0.00000	0.00000	0.00000	0.01386	0.01386	0.01386	0.01386	0.01386	0.01491

Receptor No.	Receptor Group Name	Receptor Coordinates UTM-X (m)	Receptor Coordinates UTM-Y (m)	Construction PM2.5 (µg/m³) Total PM2.5 Concentrations (Fugitive + Exhaust) by Year									Construction PM2.5 (µg/m³) - With Use of MERV-13 Total PM2.5 Concentrations (Fugitive + Exhaust) by Year									Maximum Construction PM2.5 Conc. MERV-13 Filtration	Project Operation PM2.5 (µg/m³) Without MERV-13				Project Operation PM2.5 (µg/m³) With MERV-13				Total Construction + Operation PM2.5 (µg/m³) With Use of MERV-13								
				2023	2024	2025	2026	2027	2028	2029	2030	2031	2023	2024	2025	2026	2027	2028	2029	2030	2031	2026-2031	Local Roads 2026-2055	Project Generators 2026-2055	Cooling Tower 2026-2055	Char-broilers 2026-2055	Local Roads 2026-2055	Project Generators 2026-2055	Cooling Tower 2026-2055	Char-broilers 2026-2055	2023	2024	2025	2026	2027	2028	2029	2030	2031
246	Res-R4	584185.1	4139350.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00361	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00108	0.00108	0.0259	0.01501	0.00536	0.00039	0.00777	0.00450	0.00161	0.00039	0.00000	0.00000	0.00000	0.01427	0.01427	0.01427	0.01427	0.01427	0.01535
247	Res-R4	584192.1	4139344.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00369	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00111	0.00111	0.02576	0.01645	0.00529	0.00041	0.00773	0.00494	0.00159	0.00041	0.00000	0.00000	0.00000	0.01466	0.01466	0.01466	0.01466	0.01466	0.01577
248	Res-R4	584199.2	4139339.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00375	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00113	0.00113	0.02568	0.01769	0.00521	0.00043	0.00770	0.00531	0.00156	0.00043	0.00000	0.00000	0.00000	0.01500	0.01500	0.01500	0.01500	0.01500	0.01613
249	Res-R4	584206.3	4139333.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0038	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00114	0.00114	0.02563	0.01861	0.00514	0.00045	0.00769	0.00558	0.00154	0.00045	0.00000	0.00000	0.00000	0.01526	0.01526	0.01526	0.01526	0.01526	0.01640
250	Res-R4	584213.3	4139327.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00384	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00115	0.00115	0.02562	0.01917	0.00507	0.00045	0.00769	0.00575	0.00152	0.00045	0.00000	0.00000	0.00000	0.01541	0.01541	0.01541	0.01541	0.01541	0.01656
251	Res-R4	584220.4	4139322.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00388	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00116	0.00116	0.02566	0.01941	0.005	0.00045	0.00770	0.00582	0.00150	0.00045	0.00000	0.00000	0.00000	0.01547	0.01547	0.01547	0.01547	0.01547	0.01664
252	Res-R4	584227.5	4139316.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0039	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00117	0.00117	0.02575	0.01937	0.00493	0.00044	0.00773	0.00581	0.00148	0.00044	0.00000	0.00000	0.00000	0.01546	0.01546	0.01546	0.01546	0.01546	0.01663
253	Res-R4	584183.6	4139362.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00407	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00122	0.00122	0.02423	0.01243	0.00534	0.00035	0.00727	0.00373	0.00160	0.00035	0.00000	0.00000	0.00000	0.01295	0.01295	0.01295	0.01295	0.01295	0.01417
254	Res-R4	584190.7	4139357.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00414	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00124	0.00124	0.02407	0.01389	0.00527	0.00037	0.00722	0.00417	0.00158	0.00037	0.00000	0.00000	0.00000	0.01334	0.01334	0.01334	0.01334	0.01334	0.01458
255	Res-R4	584197.7	4139351.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0042	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00126	0.00126	0.02397	0.01521	0.0052	0.00039	0.00719	0.00456	0.00156	0.00039	0.00000	0.00000	0.00000	0.01371	0.01371	0.01371	0.01371	0.01371	0.01497
256	Res-R4	584204.8	4139346.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00425	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00128	0.00128	0.02392	0.0163	0.00514	0.00041	0.00718	0.00489	0.00154	0.00041	0.00000	0.00000	0.00000	0.01402	0.01402	0.01402	0.01402	0.01402	0.01529
257	Res-R4	584211.9	4139340.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00429	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00129	0.00129	0.02391	0.01709	0.00507	0.00042	0.00717	0.00513	0.00152	0.00042	0.00000	0.00000	0.00000	0.01424	0.01424	0.01424	0.01424	0.01424	0.01553
258	Res-R4	584218.9	4139334.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00432	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00130	0.00130	0.02395	0.01758	0.005	0.00042	0.00719	0.00527	0.00150	0.00042	0.00000	0.00000	0.00000	0.01438	0.01438	0.01438	0.01438	0.01438	0.01568
259	Res-R4	584226.0	4139329.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00434	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00130	0.00130	0.02405	0.01783	0.00494	0.00042	0.00722	0.00535	0.00148	0.00042	0.00000	0.00000	0.00000	0.01446	0.01446	0.01446	0.01446	0.01446	0.01577
260	Res-R4	584233.1	4139323.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00435	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00131	0.00131	0.02419	0.0182	0.00487	0.00041	0.00726	0.00546	0.00146	0.00041	0.00000	0.00000	0.00000	0.01458	0.01458	0.01458	0.01458	0.01458	0.01589
261	Res-R4	584189.2	4139369.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00469	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00141	0.00141	0.02273	0.01098	0.00524	0.00032	0.00682	0.00329	0.00157	0.00032	0.00000	0.00000	0.00000	0.01200	0.01200	0.01200	0.01200	0.01200	0.01341
262	Res-R4	584196.2	4139364.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00475	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00143	0.00143	0.0226	0.0123	0.00518	0.00034	0.00678	0.00369	0.00155	0.00034	0.00000	0.00000	0.00000	0.01237	0.01237	0.01237	0.01237	0.01237	0.01379
263	Res-R4	584203.3	4139358.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00479	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00144	0.00144	0.02252	0.01349	0.00512	0.00036	0.00676	0.00405	0.00154	0.00036	0.00000	0.00000	0.00000	0.01270	0.01270	0.01270	0.01270	0.01270	0.01414
264	Res-R4	584210.4	4139353.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00482	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00145	0.00145	0.0225	0.01446	0.00506	0.00038	0.00675	0.00434	0.00152	0.00038	0.00000	0.00000	0.00000	0.01298	0.01298	0.01298	0.01298	0.01298	0.01443
265	Res-R4	584217.4	4139347.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00484	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00145	0.00145	0.02254	0.01517	0.00499	0.00039	0.00676	0.00455	0.00150	0.00039	0.00000	0.00000	0.00000	0.01320	0.01320	0.01320	0.01320	0.01320	0.01465
266	Res-R4	584224.5	4139342.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00485	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00146	0.00146	0.02263	0.01564	0.00493	0.00039	0.00679	0.00469	0.00148	0.00039	0.00000	0.00000	0.00000	0.01335	0.01335	0.01335	0.01335	0.01335	0.01480
267	Res-R4	584231.6	4139336.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00485	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00146	0.00146	0.02277	0.01594	0.00487	0.00038	0.00683	0.00478	0.00146	0.00038	0.00000	0.00000	0.00000	0.01345	0.01345	0.01345	0.01345	0.01345	0.01491
268	Res-R4	584238.6	4139330.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00485	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00146	0.00146	0.02296	0.01613	0.00481	0.00037	0.00689	0.00484	0.00144	0.00037	0.00000	0.00000	0.00000	0.01354	0.01354	0.01354	0.01354	0.01354	0.01499
269	Res-R4	584194.7	4139376.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00541	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00162	0.00162	0.0215	0.00929	0.00515	0.00029	0.00645	0.00279	0.00155	0.00029	0.00000	0.00000	0.00000	0.01107	0.01107	0.01107	0.01107	0.01107	0.01269
270	Res-R4	584201.8	4139371.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00544	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00163	0.00163	0.02139	0.01047	0.00509	0.00031	0.00642	0.00314	0.00153	0.00031	0.00000	0.00000	0.00000	0.01139	0.01139	0.01139	0.01139	0.01139	0.01303
271	Res-R4	584208.9	4139365.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00545	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00164	0.00164	0.02135	0.01153	0.00503	0.00033	0.00641	0.00346	0.00151	0.00033	0.00000	0.00000	0.00000	0.01170	0.01170	0.01170	0.01170	0.01170	0.01333
272	Res-R4	584215.9	4139360.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00546	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00164	0.00164	0.02136	0.01239	0.00498	0.00034	0.00641	0.00372	0.00149	0.00034	0.00000	0.00000	0.00000	0.01196	0.01196	0.01196	0.01196	0.01196	0.01360
273	Res-R4	584223.0	4139354.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00546	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00164	0.00164	0.02144	0.01304	0.00492	0.00035	0.00643	0.00391	0.00148	0.00035	0.00000	0.00000	0.00000	0.01217	0.01217	0.01217	0.01217	0.01217	0.01380
274	Res-R4	584230.1	4139349.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00545	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00164	0.00164	0.02156	0.01344	0.00486	0.00035	0.00647	0.00403	0.00146	0.00035	0.00000	0.00000	0.00000	0.01230	0.01230	0.01230	0.01230	0.01230	0.01394
275	Res-R4	584237.1	4139343.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00543	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00163	0.00163	0.02175	0.01361	0.0048	0.00034	0.00653	0.00408	0.00144	0.00034	0.00000	0.00000	0.00000	0.01239	0.01239	0.01239	0.01239	0.01239	0.01402
276	Res-R4	584244.2	4139337.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00541	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00162	0.00162	0.02199	0.01348	0.00475	0.00033	0.00660	0.00404	0.00143	0.00033	0.00000	0.00000	0.00000	0.01240	0.01240	0.01240	0.01240	0.01240	0.01402
277	Res-R4	584155.7	4139327.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00197	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00059	0.00059	0.03747	0.01153	0.0058	0.00050	0.01124	0.00346	0.00174	0.00050	0.00000	0.00000	0.00000	0.01694	0.01694	0.01694	0.01694	0.01694	0.01754
278	Res-R4	584162.8	4139321.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00207	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00062	0.00062	0.03727	0.01296	0.0057	0.00067	0.01118	0.00389	0.00171	0.00067	0.00000	0.00000	0.00000	0.01745	0.01745	0.01745	0.01745	0.01745	0.01807
279	Res-R4	584169.9	4139316.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00217	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00065	0.00065	0.0371	0.01455	0.00561	0.00165	0.01113	0.00437	0.00168	0.00165	0.00000	0.00000	0.00000	0.01883	0.01883	0.01883	0.01883	0.01883	0.01948
280	Res-R4	584176.9	4139310.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00225	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00068	0.00068	0.03697	0.01625	0.00551	0.00121	0.01109	0.00488	0.00165	0.00121	0.00000	0.00000	0.00000	0.01883	0.01883	0.01883	0.01883	0.01883	0.01950
281	Res-R4	584184.0	4139305.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00233	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00070	0.00070	0.03687	0.01814	0.00542	0.00043	0.01106	0.00544	0.00163	0.00043	0.00000	0.00000	0.00000	0.01855	0.01855	0.01855	0.01855	0.01855	0.01925
282	Res-R4	584191.0	4139299.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0024	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00072	0.00072	0.03678	0.02125	0.00533	0.00037	0.01103	0.00638	0.00160	0.00037	0.00000	0.00000	0.00000	0.01938	0.01938	0.01938	0.01938	0.01938	0.02010
283	Res-R4	584198.1	4139294.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00247	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00074	0.00074	0.0367	0.03792	0.00525	0.00037	0.01101	0.01138	0.00158	0.00037	0.00000	0.00000	0.00000	0.02434	0.02434	0.02434	0.02434	0.02434	0.02508
284	Res-R4	584205.2	4139288.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00253	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00076	0.00076	0.0366	0.02949	0.00516	0.00038	0.01098	0.00885	0.00155	0.00038	0.00000	0.00000	0.00000	0.02176	0.02176	0.02176	0.02176	0.02176	0.02252
285	Res-R4	584161.3	4139334.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00227	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00068	0.00068	0.03434	0.01283	0.00571	0.00052	0.01030	0.00385	0.00171	0.00052	0.00000	0.00000	0.00000	0.01638	0.01638	0.01638	0.01638	0.01638	0.01706
286	Res-R4	584168.4	4139328.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00238	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00071	0.00071	0.03412	0.01442	0.00562	0.00048	0.01024	0.00433	0.00169	0.00048	0.00000	0.00000	0.00000	0.01673	0.01673	0.01673	0.01673	0.01673	0.01744
287	Res-R4	584175.4	4139323.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00248	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00074	0.00074	0.03394	0.01616	0.00553	0.00043	0.01018	0.00485	0.00166	0.00043	0.00000	0.00000	0.00000	0.01712	0.01712	0.01712	0.01712	0.01712	0.01786
288	Res-R4	584182.5	4139317.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00256	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00077	0.00077	0.03379	0.01806	0.00544	0.00038	0.01014	0.00542	0.00163	0.00038	0.00000	0.00000	0.00000	0.01757	0.01757	0.01757	0.01757	0.01757	0.01834
289	Res-R4	584189.6	4139312.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00264	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00079	0.00079	0.03366	0.02002	0.00536	0.00040	0.01010	0.00601	0.00161	0.00040	0.00000	0.00000	0.00000	0.01811	0.01811	0.01811	0.01811	0.01811	0.01890
290	Res-R4	584196.6	4139306.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0027	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00081	0.00081	0.03354	0.02164	0.00527	0.00041	0.01006	0.00649	0.00158	0.00041	0.00000	0.00000	0.00000	0.01854	0.01854	0.01854	0.01854	0.01854	0.01935
291	Res-R4	584203.7	4139301.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00276	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00083	0.00083	0.03343	0.0221	0.00519	0.00042	0.01003	0.00663	0.00156	0.00042	0.00000	0.00000	0.00000	0.01863	0.01863	0.01863	0.01863	0.01863	0.01946
292	Res-R4	584210.8	4139295.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00282	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00085	0.00085	0.03332	0.02159	0.00511	0.00043	0.01000	0.00648	0.00153	0.00043	0.00000	0.00000	0.00000	0.01844	0.01844	0.01844	0.01844	0.01844	0.01928
293	Res-R4	584166.9	4139341.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00263	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00079	0.00079	0.03112	0.01367	0.00562	0.00041	0.00934	0.00410	0.00169	0.00041	0.00000	0.00000	0.00000	0.01554	0.01554	0.01554	0.01554	0.01554	0.01633
294	Res-R4	584173.9	4139336.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00274	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00082	0.00082	0.03091	0.01536	0.00553	0.00040	0.00927	0.00461	0.00166	0.00040	0.00000	0.00000	0.00000	0.01594	0.01594	0.01594	0.01594	0.01594	0.01676
295	Res-R4	584181.0	4139330.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00283	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00085	0.00085	0.03074	0.01707	0.00545	0.00039	0.00922	0.00512	0.00164	0.00039	0.00000	0.00000	0.00000	0.01637	0.01637	0.01637	0.01637	0.01637	0.01722
296	Res-R4	584188.1	4139324.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00291	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00087	0.00087	0.03059	0.01866	0.00537	0.00041	0.00918	0.00560	0.00161	0.00041	0.00000	0.00000	0.00000	0.01679	0.01679	0.01679	0.01679	0.01679	0.01766
297	Res-R4	584195.1	4139319.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00298	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00089	0.00089	0.03047	0.01997	0.00529	0.00043	0.00914	0.00599	0.00159	0.00043	0.00000	0.00000	0.00000	0.01714	0.01714	0.01714	0.01714	0.01714	0.01804
298	Res-R4	584202.2	4139313.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00304	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00091	0.00091	0.03037	0.02084	0.00521	0.00044	0.00911	0.00625	0.00156	0.00044	0.00000	0.00000	0.00000	0.01737	0.01737	0.01737	0.01737	0.01737	0.01828
299	Res-R4	584209.3	4139308.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00309	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00093	0.00093	0.03029	0.02122	0.00513	0.00046	0.00909	0.00637	0.00154	0.00046	0.00000	0.00000	0.00000	0.01745	0.01745	0.01745	0.01745	0.01745	0.01838
300	Res-R4	584216.3	4139302.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00314	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00094	0.00094	0.03024	0.02136	0.00505	0.00047	0.00907	0.00641	0.00152	0.00047	0.00000	0.00000	0.00000	0.01746	0.01746	0.01746	0.01746	0.01746	0.01840
301	Res-R5	584172.4	4139348.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00305	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00092	0.00092	0.02835	0.01395	0.00553	0.00038	0.00851	0.00419	0.00166	0.00038	0.00000	0.00000	0.00000	0.01473	0.01473	0.01473	0.01473	0.01473	0.01564
302	Res-R5	584258.1	4139291.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00395	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00119	0.00119	0.0273	0.01609	0.00466	0.00035	0.00819	0.00483	0.00140	0.00035	0.00000	0.00000	0.00000	0.01477	0.01477	0.01477	0.01477	0.01477	0.01595
303	Res-R5	584265.1	4139286.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00394	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00118	0.00118	0.02777	0.01452	0.0046	0.00033	0.00833	0.00436	0.00138	0.00033	0.00000	0.00000	0.00000	0.01440	0.01440	0.01440	0.01440	0.01440	0.01558
304	Res-R5	584272.0	4139280.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00393	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00118	0.00118	0.02834	0.01324	0.00454	0.00031	0.00850	0.00397	0.00136	0.00031	0.00000	0.00000	0.00000	0.01415	0.01415	0.01415	0.01415	0.01415	0.01533
305	Res-R5	584279.0	4139274.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00391	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00117	0.00117	0.02902	0.01215	0.00448	0.00029	0.00871	0.00365	0.00134	0.00029	0.00000	0.00000	0.00000	0.01399	0.01399	0.01399	0.01399	0.01399	0.01516
306	Res-R5	584286.0	4139269.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00389	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00117	0.00117	0.02985	0.01075	0.00442	0.00027	0.00896	0.00323	0.00133	0.00027	0.00000	0.00000	0.00000	0.01378	0.01378	0.01378	0.01378	0.01378	0.01495
307	Res-R5	584292.9	4139263.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00386	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00116	0.00116	0.03087	0.00907	0.00436	0.00025	0.00926	0.00272	0.00131	0.00025	0.00000	0.00000	0.00000	0.01354	0.01354	0.01354	0.01354	0.01354	0.01469
308	Res-R5	584299.9	4139257.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00383	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00115	0.00115	0.03208	0.00795	0.00431	0.00022	0.00962	0.00239	0.00129	0.00022	0.00000	0.00000	0.00000	0.01352	0.01352	0.01352	0.01352	0.01352	0.01467
309	Res-R5	584306.9	4139252.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0038	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00114	0.00114	0.03346	0.00724	0.00425	0.00020	0.01004	0.00217	0.00128	0.00020	0.00000	0.00000	0.00000	0.01369	0.01369	0.01369	0.01369	0.01369	0.01483
310	Res-R5	584256.8	4139304.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00437	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00131	0.00131	0.02549	0.01806	0.00467	0.00034	0.00765	0.00542	0.00140	0.00034	0.00000	0.00000	0.00000	0.01481	0.01481	0.01481	0.01481	0.01481	0.01612
311	Res-R5	584263.8	4139298.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00435	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00131	0.00131	0.02595	0.01422	0.00461	0.00033	0.00779	0.00427	0.00138	0.00033	0.00000	0.00000	0.00000	0.01376	0.01376	0.01376	0.01376	0.01376	0.01506
312	Res-R5	584270.8	4139293.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00433	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00130	0.00130	0.0265	0.01288	0.00455	0.00031	0.00795	0.00386	0.00137	0.00031	0.00000	0.00000	0.00000	0.01349	0.01349	0.01349	0.01349	0.01349	0.01478
313	Res-R5	584277.7	4139287.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0043	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00129	0.00129	0.02717	0.01195	0.0045	0.00029	0.00815	0.00359	0.00135	0.00029	0.00000	0.00000	0.00000	0.01337	0.01337	0.01337	0.01337	0.01337	0.01466
314	Res-R5	584284.7	4139281.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00427	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00128	0.00128	0.02797	0.01077	0.00444	0.00027	0.00839	0.00323	0.00133	0.00027	0.00000	0.00000	0.00000	0.01322	0.01322	0.01322	0.01322	0.01322	0.01451
315	Res-R5	584291.7	4139276.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00424	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00127	0.00127	0.02894	0.00963	0.00438	0.00026	0.00868	0.00289	0.00131	0.00026	0.00000	0.00000	0.00000	0.01314	0.01314	0.01314	0.01314	0.01314	0.01441
316	Res-R5	584298.6	4139270.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0042	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00126	0.00126	0.0301	0.00819	0.00433	0.00023	0.00903	0.00246	0.00130	0.00023	0.00000	0.00000	0.00000	0.01302	0.01302	0.01302	0.01302	0.01302	0.01428
317	Res-R5	584305.6	4139264.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00416	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00125	0.00125	0.03147	0.00721	0.00428	0.00021	0.00944	0.00216	0.00128	0.00021	0.00000	0.00000	0.00000	0.01310	0.01310	0.01310	0.01310	0.01310	0.01435
318	Res-R5	584312.6	4139259.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00411	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00123	0.00123	0.03301	0.00673	0.00422	0.00020	0.00990	0.00202	0.00127	0.00020	0.00000	0.00000	0.00000	0.01339	0.01339	0.01339	0.01339	0.01339	0.01462
319	Res-R5	584262.5	4139311.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00482	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00145	0.00145	0.02441	0.01426	0.00462	0.00031	0.00732	0.00428	0.00139	0.00031	0.00000	0.00000	0.00000	0.01330	0.01330	0.01330	0.01330	0.01330	0.01475
320	Res-R5	584269.5	4139305.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00479	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00144	0.00144	0.02495	0.01246	0.00456	0.00030	0.00749	0.00374	0.00137	0.00030	0.00000	0.00000	0.00000	0.01289	0.01289	0.01289	0.01289	0.01289	0.01433
321	Res-R5	584276.4	4139300.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00475	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00143	0.00143	0.02559	0.01132	0.00451	0.00028	0.00768	0.00340	0.00135	0.00028	0.00000	0.00000	0.00000	0.01271	0.01271	0.01271	0.01271	0.01271	0.01413
322	Res-R5	584283.4	4139294.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00471	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00141	0.00141	0.02635	0.01037	0.00445	0.00027	0.00791	0.00311	0.00134	0.00027	0.00000	0.00000	0.00000	0.01262	0.01262	0.01262	0.01262	0.01262	0.01403
323	Res-R5	584290.4	4139288.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00467	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00140	0.00140	0.02726	0.00933	0.0044	0.00025	0.00818	0.00280	0.00132	0.00025	0.00000	0.00000	0.00000	0.01255	0.01255	0.01255	0.01255	0.01255	0.01395
324	Res-R5	584297.4	4139283.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00462	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00139	0.00139	0.02836	0.00827	0.00435	0.00024	0.00851	0.00248	0.00131	0.00024	0.00000	0.00000	0.00000	0.01253	0.01253	0.01253	0.01253	0.01253	0.01392
325	Res-R5	584304.3	4139277.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00457	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00137	0.00137	0.02966	0.00743	0.0043	0.00022	0.00890	0.00223	0.00129	0.00022	0.00000	0.00000	0.00000	0.01264	0.01264	0.01264	0.01264	0.01264	0.01401
326	Res-R5	584311.3	4139271.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00452	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00136	0.00136	0.03115	0.00663	0.00424	0.00020	0.00935	0.00199	0.00127	0.00020	0.00000	0.00000	0.00000	0.01281	0.01281	0.01281	0.01281	0.01281	0.01417
327	Res-R5	584268.2	4139318.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00533	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00160	0.00160	0.02362	0.01185	0.00457	0.00029	0.00709	0.00356	0.00137	0.00029	0.00000	0.00000	0.00000	0.01230	0.01230	0.01230	0.01230	0.01230	0.01390
328	Res-R5	584275.2	4139312.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00528	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00158	0.00158	0.02423	0.01064	0.00452	0.00027	0.00727	0.00319	0.00136	0.00027	0.00000	0.00000	0.00000	0.01209	0.01209	0.01209	0.01209	0.01209	0.01367
329	Res-R5	584282.1	4139307.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00523	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00157	0.00157	0.02495	0.00973	0.00446	0.00026	0.00749	0.00292	0.00134	0.00026	0.00000	0.00000	0.00000	0.01200	0.01200	0.01200	0.01200	0.01200	0.01357
330	Res-R5	584289.1	4139301.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00517	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00155	0.00155	0.02581	0.00882	0.00441	0.00024	0.00774	0.00265	0.00132	0.00024	0.00000	0.00000	0.00000	0.01196	0.01196	0.01196	0.01196	0.01196	0.01351
331	Res-R5	584296.1	4139295.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00512	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00154	0.00154	0.02684	0.00818	0.00436	0.00023	0.00805	0.00245	0.00131	0.00023	0.00000	0.00000	0.00000	0.01205	0.01205	0.01205	0.01205	0.01205	0.01358
332	Res-R5	584303.1	4139290.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00505	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00152	0.00152	0.02805	0.00723	0.00431	0.00022	0.00842	0.00217	0.00129	0.00022	0.00000	0.00000	0.00000	0.01210	0.01210	0.01210	0.01210	0.01210	0.01361
333	Res-R5	584310.0	4139284.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00499	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00150	0.00150	0.02947	0.00665	0.00426	0.00021	0.00884	0.00200	0.00128	0.00021	0.00000	0.00000	0.00000	0.01232	0.01232	0.01232	0.01232	0.01232	0.01382
334	Res-R5	584317.0	4139278.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00491	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00147	0.00147	0.03107	0.00607	0.00421	0.00019	0.00932	0.00182	0.00126	0.00019	0.00000	0.00000	0.00000	0.01260	0.01260	0.01260	0.01260	0.01260	0.01407
335	Res-R5	584280.9	4139319.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00584	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00175	0.00175	0.02373	0.00886	0.00447	0.00024	0.00712	0.00266	0.00134	0.00024	0.00000	0.00000	0.00000	0.01136	0.01136	0.01136	0.01136	0.01136	0.01311
336	Res-R5	584287.8	4139314.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00576	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00173	0.00173	0.02454	0.008	0.00442	0.00023	0.00736	0.00240	0.00133	0.00023	0.00000	0.00000	0.00000	0.01132	0.01132	0.01132	0.01132	0.01132	0.01305
337	Res-R5	584294.8	4139308.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00569	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00171	0.00171	0.02551	0.00757	0.00437	0.00022	0.00765	0.00227	0.00131	0.00022	0.00000	0.00000	0.00000	0.01146	0.01146	0.01146	0.01146	0.01146	0.01317
338	Res-R5	584301.8	4139302.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00561	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00168	0.00168	0.02664	0.00711	0.00432	0.00022	0.00799	0.00213	0.00130	0.00022	0.00000	0.00000	0.00000	0.01164	0.01164	0.01164	0.01164	0.01164	0.01332
339	Res-R5	584308.7	4139297.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00553	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00166	0.00166	0.02798	0.0066	0.00427	0.00021	0.00839	0.00198	0.00128	0.00021	0.00000	0.00000	0.00000	0.01186	0.01186	0.01186	0.01186	0.01186	0.01352
340	Res-R5	584315.7	4139291.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00545	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00164	0.00164	0.02951	0.00603	0.00422	0.00020	0.00885	0.00181	0.00127	0.00020	0.00000	0.00000	0.00000	0.01212	0.01212	0.01212	0.01212	0.01212	0.01376
341	Res-R5	584322.7	4139285.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00536	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00161	0.00161	0.0312	0.00562	0.00418	0.00018	0.00936	0.00169	0.00125	0.00018	0.00000	0.00000	0.00000	0.01248	0.01248	0.01248	0.01248	0.01248	0.01409
342	Res-R5	584300.5	4139315.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00627	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00188	0.00188	0.0254	0.00664	0.00432	0.00021	0.00762	0.00199	0.00130	0.00021	0.00000	0.00000	0.00000	0.01111	0.01111	0.01111	0.01111	0.01111	0.01299
343	Res-R5	584307.5	4139309.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00617	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00185	0.00185	0.02666	0.0063	0.00428	0.00020	0.00800	0.00189	0.00128	0.00020	0.00000	0.00000	0.00000	0.01137	0.01137	0.01137	0.01137	0.01137	0.01322
344	Res-R5	584314.4	4139304.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00607	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00182	0.00182	0.02811	0.006	0.00423	0.00019	0.00843	0.00180	0.00127	0.00019	0.00000	0.00000	0.00000	0.01169	0.01169	0.01169	0.01169	0.01169	0.01351
345	Res-R5	584321.4	4139298.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00596	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00179	0.00179	0.02974	0.00555	0.00418	0.00018	0.00892	0.00167	0.00125	0.00018	0.00000	0.00000	0.00000	0.01202	0.01202	0.01202	0.01202	0.01202	0.01381
346	Res-R5	584318.6	4139308.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00648	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00194	0.00194	0.02836	0.0057	0.0042	0.00018	0.00851	0.00171	0.00126	0.00018	0.00000	0.00000	0.00000	0.01166	0.01166	0.01166	0.01166	0.01166	0.01361
347	Res-R5	584327.1	4139305.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00654	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00196	0.00196	0.03015	0.00512	0.00415	0.00017	0.00905	0.00154	0.00125	0.00017	0.00000	0.00000	0.00000	0.01200	0.01200	0.01200	0.01200	0.01200	0.01396
348	Res-R5	584228.4	4139269.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00268	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00080	0.00080	0.03822	0.02088	0.00491	0.00057	0.01147	0.00626	0.00147	0.00057	0.00000	0.00000	0.00000	0.01977	0.01977	0.01977	0.01977	0.01977	0.02057
349	Res-R5	584235.3	4139264.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0027	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00081	0.00081	0.03846	0.01959	0.00483	0.00072	0.01154	0.00588	0.00145	0.00072	0.00000	0.00000	0.00000	0.01958	0.01958	0.01958	0.01958	0.01958	0.02039
350	Res-R5	584242.3	4139258.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00273	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00082	0.00082	0.03864	0.01817	0.00476	0.00136	0.01159	0.00545	0.00143	0.00136	0.00000	0.00000	0.00000	0.01983	0.01983	0.01983	0.01983	0.01983	0.02065
351	Res-R5	584249.3	4139252.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00275	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00083	0.00083	0.03877	0.01712	0.00469	0.00320	0.01163	0.00514	0.00141	0.00320	0.00000	0.00000	0.00000	0.02137	0.02137	0.02137	0.02137	0.02137	0.02220
352	Res-R5	584256.2	4139246.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00276	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00083	0.00083	0.0389	0.01585	0.00462	0.00143	0.01167	0.00476	0.00139	0.00143	0.00000	0.00000	0.00000	0.01924	0.01924	0.01924	0.01924	0.01924	0.02007
353	Res-R5	584263.2	4139241.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00277	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00083	0.00083	0.03908	0.01422	0.00455	0.00081	0.01172	0.00427	0.00137	0.00081	0.00000	0.00000	0.00000	0.01817	0.01817	0.01817	0.01817	0.01817	0.01900
354	Res-R5	584270.2	4139235.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00278	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00083	0.00083	0.03936	0.01232	0.00449	0.00053	0.01181	0.00370	0.00135	0.00053	0.00000	0.00000	0.00000	0.01738	0.01738	0.01738	0.01738	0.01738	0.01821
355	Res-R5	584277.2	4139229.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00278	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00083	0.00083	0.03977	0.01064	0.00442	0.00043	0.01193	0.00319	0.00133	0.00043	0.00000	0.00000	0.00000	0.01688	0.01688	0.01688	0.01688	0.01688	0.01771
356	Res-R5	584284.1	4139224.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00278	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00083	0.00083	0.04026	0.00978	0.00436	0.00037	0.01208	0.00293	0.00131	0.00037	0.00000	0.00000	0.00000	0.01669	0.01669	0.01669	0.01669	0.01669	0.01752
357	Res-R5	584234.0	4139276.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00295	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00089	0.00089	0.03444	0.02142	0.00486	0.00058	0.01033	0.00643	0.00146	0.00058	0.00000	0.00000	0.00000	0.01880	0.01880	0.01880	0.01880	0.01880	0.01969
358	Res-R5	584241.0	4139271.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00297	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00089	0.00089	0.03463	0.01972	0.00479	0.00059	0.01039	0.00592	0.00144	0.00059	0.00000	0.00000	0.00000	0.01833	0.01833	0.01833	0.01833	0.01833	0.01922
359	Res-R5	584248.0	4139265.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00299	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00090	0.00090	0.03485	0.01766	0.00472	0.00054	0.01046	0.00530	0.00142	0.00054	0.00000	0.00000	0.00000	0.01770	0.01770	0.01770	0.01770	0.01770	0.01860
360	Res-R5	584255.0	4139259.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.003	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00090	0.00090	0.03508	0.01641	0.00465	0.00054	0.01052	0.00492	0.00140	0.00054	0.00000	0.00000	0.00000	0.01738	0.01738	0.01738	0.01738	0.01738	0.01828
361	Res-R5	584261.9	4139253.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00301	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00090	0.00090	0.03535	0.01518	0.00459	0.00047	0.01061	0.00455	0.00138	0.00047	0.00000	0.00000	0.00000	0.01700	0.01700	0.01700	0.01700	0.01700	0.01791
362	Res-R5	584268.9	4139248.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00301	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00090	0.00090	0.0357	0.01373	0.00452	0.00037	0.01071	0.00412	0.00136	0.00037	0.00000	0.00000	0.00000	0.01655	0.01655	0.01655	0.01655	0.01655	0.01745
363	Res-R5	584275.9	4139242.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00301	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00090	0.00090	0.03618	0.01172	0.00446	0.00030	0.01085	0.00352	0.00134	0.00030	0.00000	0.00000	0.00000	0.01601	0.01601	0.01601	0.01601	0.01601	0.01691
364	Res-R5	584282.8	4139236.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00301	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00090	0.00090	0.03681	0.01019	0.0044	0.00028	0.01104	0.00306	0.00132	0.00028	0.00000	0.00000	0.00000	0.01570	0.01570	0.01570	0.01570	0.01570	0.01660
365	Res-R5	584289.8	4139231.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.003	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00090	0.00090	0.03757	0.00929	0.00434	0.00027	0.01127	0.00279	0.00130	0.00027	0.00000	0.00000	0.00000	0.01563	0.01563	0.01563	0.01563	0.01563	0.01653
366	Res-R5	584239.7	4139283.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00325	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00098	0.00098	0.03125	0.02188	0.00482	0.00047	0.00938	0.00656	0.00145	0.00047	0.00000	0.00000	0.00000	0.01786	0.01786	0.01786	0.01786	0.01786	0.01883
367	Res-R5	584246.7	4139277.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00327	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00098	0.00098	0.0315	0.01916	0.00475	0.00042	0.00945	0.00575	0.00143	0.00042	0.00000	0.00000	0.00000	0.01705	0.01705	0.01705	0.01705	0.01705	0.01803
368	Res-R5	584253.7	4139272.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00328	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00098	0.00098	0.0318	0.01688	0.00468	0.00040	0.00954	0.00506	0.00140	0.00040	0.00000	0.00000	0.00000	0.01641	0.01641	0.01641	0.01641	0.01641	0.01739
369	Res-R5	584260.7	4139266.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00328	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00098	0.00098	0.03215	0.01549	0.00462	0.00038	0.00965	0.00465	0.00139	0.00038	0.00000	0.00000	0.00000	0.01606	0.01606	0.01606	0.01606	0.01606	0.01704
370	Res-R5	584267.6	4139260.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00328	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00098	0.00098	0.03258	0.01433	0.00455	0.00035	0.00977	0.00430	0.00137	0.00035	0.00000	0.00000	0.00000	0.01579	0.01579	0.01579	0.01579	0.01579	0.01678

Receptor No.	Receptor Group Name	Receptor Coordinates UTM-X (m)	UTM-Y (m)	Construction PM2.5 ($\mu g/m^3$) Total PM2.5 Concentrations (Fugitive + Exhaust) by Year								
				2023	2024	2025	2026	2027	2028	2029	2030	2031
371	Res-RS	584274.6	4139255.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00228
372	Res-RS	584281.6	4139249.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00327
373	Res-RS	584288.5	4139243.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00326
374	Res-RS	584295.5	4139238.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00324
375	Res-RS	584245.4	4139290.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00359
376	Res-RS	584252.4	4139284.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00359
377	Res-RS	584259.4	4139279.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00359
378	Res-RS	584266.3	4139273.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00359
379	Res-RS	584273.3	4139267.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00358
380	Res-RS	584280.3	4139262.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00357
381	Res-RS	584287.3	4139256.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00355
382	Res-RS	584294.2	4139250.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00353
383	Res-RS	584301.2	4139245.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00351
384	Res-RS	584251.1	4139297.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00396
			Maximum	**0.0000**	**0.0000**	**0.0000**	**2.2536**	**0.8948**	**0.1806**	**0.0767**	**0.0082**	**0.0065**

Receptor No.	Construction PM2.5 ($\mu g/m^3$) - With Use of MERV-13 Total PM2.5 Concentrations (Fugitive + Exhaust) by Year									Maximum Construction PM2.5 Conc. MERV-13 Filtration
	2023	2024	2025	2026	2027	2028	2029	2030	2031	2026-2031
371	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00098	0.00098
372	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00098	0.00098
373	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00098	0.00098
374	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00097	0.00097
375	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00108	0.00108
376	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00108	0.00108
377	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00108	0.00108
378	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00108	0.00108
379	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00107	0.00107
380	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00107	0.00107
381	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00107	0.00107
382	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00106	0.00106
383	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00105	0.00105
384	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00119	0.00119
	0.0000	**0.0000**	**0.0000**	**0.6761**	**0.2684**	**0.0542**	**0.0230**	**0.0025**	**0.0020**	**0.6761**

Receptor No.	Project Operation PM2.5 ($\mu g/m^3$) Without MERV-13				Project Operation PM2.5 ($\mu g/m^3$) With MERV-13			
	Local Roads 2026-2055	Project Generators 2026-2055	Cooling Tower 2026-2055	Char-broilers 2026-2055	Local Roads 2026-2055	Project Generators 2026-2055	Cooling Tower 2026-2055	Char-broilers 2026-2055
371	0.03311	0.01293	0.00449	0.00032	0.00993	0.00388	0.00135	0.00032
372	0.03378	0.011	0.00443	0.00027	0.01013	0.00330	0.00133	0.00027
373	0.03462	0.00956	0.00437	0.00024	0.01039	0.00287	0.00131	0.00024
374	0.03563	0.00861	0.00431	0.00022	0.01069	0.00258	0.00129	0.00022
375	0.02879	0.02137	0.00477	0.00041	0.00864	0.00641	0.00143	0.00041
376	0.02911	0.01761	0.0047	0.00038	0.00873	0.00528	0.00141	0.00038
377	0.02949	0.01581	0.00464	0.00036	0.00885	0.00474	0.00139	0.00036
378	0.02996	0.01453	0.00458	0.00034	0.00899	0.00436	0.00137	0.00034
379	0.03052	0.0132	0.00452	0.00032	0.00916	0.00396	0.00136	0.00032
380	0.03121	0.01199	0.00446	0.00029	0.00936	0.00360	0.00134	0.00029
381	0.03205	0.00999	0.0044	0.00026	0.00962	0.00300	0.00132	0.00026
382	0.03308	0.00869	0.00434	0.00023	0.00992	0.00261	0.00130	0.00023
383	0.03429	0.00798	0.00428	0.00021	0.01029	0.00239	0.00128	0.00021
384	0.02691	0.01977	0.00472	0.00037	0.00807	0.00593	0.00142	0.00037
	0.0480	**0.0379**	**0.0496**	**0.0033**	**0.0144**	**0.0114**	**0.0149**	**0.0033**

Receptor No.	Total Construction + Operation PM2.5 ($\mu g/m^3$) With Use of MERV-13								
	2023	2024	2025	2026	2027	2028	2029	2030	2031
371	0.00000	0.00000	0.00000	0.01547	0.01547	0.01547	0.01547	0.01547	0.01646
372	0.00000	0.00000	0.00000	0.01504	0.01504	0.01504	0.01504	0.01504	0.01602
373	0.00000	0.00000	0.00000	0.01480	0.01480	0.01480	0.01480	0.01480	0.01578
374	0.00000	0.00000	0.00000	0.01479	0.01479	0.01479	0.01479	0.01479	0.01576
375	0.00000	0.00000	0.00000	0.01689	0.01689	0.01689	0.01689	0.01689	0.01796
376	0.00000	0.00000	0.00000	0.01580	0.01580	0.01580	0.01580	0.01580	0.01688
377	0.00000	0.00000	0.00000	0.01534	0.01534	0.01534	0.01534	0.01534	0.01642
378	0.00000	0.00000	0.00000	0.01506	0.01506	0.01506	0.01506	0.01506	0.01614
379	0.00000	0.00000	0.00000	0.01479	0.01479	0.01479	0.01479	0.01479	0.01586
380	0.00000	0.00000	0.00000	0.01459	0.01459	0.01459	0.01459	0.01459	0.01566
381	0.00000	0.00000	0.00000	0.01419	0.01419	0.01419	0.01419	0.01419	0.01525
382	0.00000	0.00000	0.00000	0.01406	0.01406	0.01406	0.01406	0.01406	0.01512
383	0.00000	0.00000	0.00000	0.01417	0.01417	0.01417	0.01417	0.01417	0.01523
384	0.00000	0.00000	0.00000	0.01579	0.01579	0.01579	0.01579	0.01579	0.01698
	0.0000	**0.0000**	**0.0000**	**0.6949**	**0.2873**	**0.0730**	**0.0418**	**0.0258**	**0.0262**

Google Middlefield - District Utilities Construction + Project Operation Impacts
Total PM2.5 Concentrations - Mitigated
On-Site Residential Receptors - 2nd Residential level receptor heights

Construction PM2.5 (µg/m³) — Total PM2.5 Concentrations (Fugitive + Exhaust) by Year

Receptor No.	Receptor Coordinates UTM-X (m)	Receptor Coordinates UTM-Y (m)	2023	2024	2025	2026	2027	2028	2029	2030	2031
1	583791.7	4139222.6	0.00000	0.00000	0.00000	0.00468	0.00238	0.00165	0.0009	0.0001	0.00003
2	583800.3	4139220.0	0.00000	0.00000	0.00000	0.00502	0.00259	0.00183	0.001	0.0001	0.00003
3	583808.9	4139217.4	0.00000	0.00000	0.00000	0.00539	0.00283	0.00203	0.0011	0.0001	0.00003
4	583817.5	4139214.8	0.00000	0.00000	0.00000	0.0058	0.00308	0.00225	0.00121	0.00011	0.00003
5	583826.1	4139212.2	0.00000	0.00000	0.00000	0.00624	0.00336	0.00248	0.00134	0.00011	0.00003
6	583834.8	4139209.6	0.00000	0.00000	0.00000	0.00673	0.00367	0.00274	0.00147	0.00012	0.00003
7	583785.7	4139233.8	0.00000	0.00000	0.00000	0.00456	0.00231	0.00157	0.00087	0.00009	0.00002
8	583794.3	4139231.2	0.00000	0.00000	0.00000	0.00488	0.00251	0.00175	0.00096	0.0001	0.00003
9	583802.9	4139228.6	0.00000	0.00000	0.00000	0.00525	0.00275	0.00195	0.00106	0.0001	0.00003
10	583811.5	4139226.0	0.00000	0.00000	0.00000	0.00565	0.003	0.00217	0.00117	0.00011	0.00003
11	583820.1	4139223.4	0.00000	0.00000	0.00000	0.00609	0.00329	0.00241	0.0013	0.00011	0.00003
12	583828.7	4139220.8	0.00000	0.00000	0.00000	0.00658	0.0036	0.00268	0.00144	0.00012	0.00003
13	583837.4	4139218.2	0.00000	0.00000	0.00000	0.00711	0.00394	0.00297	0.00158	0.00012	0.00003
14	583846.0	4139215.6	0.00000	0.00000	0.00000	0.00768	0.0043	0.00328	0.00174	0.00013	0.00003
15	583788.2	4139242.4	0.00000	0.00000	0.00000	0.00475	0.00243	0.00167	0.00091	0.00009	0.00003
16	583796.9	4139239.8	0.00000	0.00000	0.00000	0.0051	0.00266	0.00186	0.00101	0.0001	0.00003
17	583805.5	4139237.2	0.00000	0.00000	0.00000	0.0055	0.00292	0.00208	0.00113	0.0001	0.00003
18	583814.1	4139234.6	0.00000	0.00000	0.00000	0.00594	0.0032	0.00233	0.00125	0.00011	0.00003
19	583822.7	4139232.0	0.00000	0.00000	0.00000	0.00642	0.00352	0.00261	0.0014	0.00011	0.00003
20	583831.3	4139229.4	0.00000	0.00000	0.00000	0.00696	0.00387	0.00291	0.00155	0.00012	0.00003
21	583840.0	4139226.8	0.00000	0.00000	0.00000	0.00753	0.00425	0.00323	0.00172	0.00012	0.00003
22	583848.6	4139224.2	0.00000	0.00000	0.00000	0.00815	0.00465	0.00358	0.00189	0.00013	0.00004
23	583790.8	4139251.0	0.00000	0.00000	0.00000	0.00496	0.00256	0.00177	0.00097	0.0001	0.00003
24	583799.5	4139248.4	0.00000	0.00000	0.00000	0.00534	0.00282	0.00199	0.00108	0.0001	0.00003
25	583808.1	4139245.8	0.00000	0.00000	0.00000	0.00578	0.00311	0.00224	0.00121	0.0001	0.00003
26	583816.7	4139243.2	0.00000	0.00000	0.00000	0.00626	0.00343	0.00251	0.00135	0.00011	0.00003
27	583825.3	4139240.6	0.00000	0.00000	0.00000	0.0068	0.00379	0.00283	0.00151	0.00011	0.00003
28	583833.9	4139238.1	0.00000	0.00000	0.00000	0.00738	0.00418	0.00317	0.00168	0.00012	0.00003
29	583842.5	4139235.5	0.00000	0.00000	0.00000	0.00802	0.0046	0.00353	0.00187	0.00013	0.00003
30	583851.2	4139232.9	0.00000	0.00000	0.00000	0.0087	0.00504	0.00392	0.00207	0.00013	0.00004
31	583793.4	4139259.7	0.00000	0.00000	0.00000	0.00518	0.00271	0.00188	0.00103	0.0001	0.00003
32	583802.1	4139257.1	0.00000	0.00000	0.00000	0.00561	0.00299	0.00213	0.00115	0.0001	0.00003
33	583810.7	4139254.5	0.00000	0.00000	0.00000	0.00609	0.00332	0.00241	0.00129	0.00011	0.00003
34	583819.3	4139251.9	0.00000	0.00000	0.00000	0.00662	0.00368	0.00273	0.00146	0.00011	0.00003
35	583827.9	4139249.3	0.00000	0.00000	0.00000	0.00722	0.00409	0.00308	0.00164	0.00012	0.00003
36	583836.5	4139246.7	0.00000	0.00000	0.00000	0.00787	0.00453	0.00346	0.00183	0.00012	0.00003
37	583845.1	4139244.1	0.00000	0.00000	0.00000	0.00857	0.005	0.00388	0.00204	0.00013	0.00003
38	583853.8	4139241.5	0.00000	0.00000	0.00000	0.00932	0.0055	0.00431	0.00227	0.00013	0.00004
39	583796.0	4139268.3	0.00000	0.00000	0.00000	0.00543	0.00287	0.00201	0.00109	0.0001	0.00003
40	583804.7	4139265.7	0.00000	0.00000	0.00000	0.0059	0.00319	0.00229	0.00123	0.0001	0.00003
41	583813.3	4139263.1	0.00000	0.00000	0.00000	0.00644	0.00356	0.00261	0.0014	0.00011	0.00003
42	583821.9	4139260.5	0.00000	0.00000	0.00000	0.00704	0.00397	0.00297	0.00158	0.00011	0.00003
43	583830.5	4139257.9	0.00000	0.00000	0.00000	0.0077	0.00443	0.00337	0.00179	0.00012	0.00003
44	583839.1	4139255.3	0.00000	0.00000	0.00000	0.00843	0.00494	0.00381	0.00201	0.00012	0.00003
45	583847.7	4139252.7	0.00000	0.00000	0.00000	0.00921	0.00547	0.00428	0.00225	0.00013	0.00003
46	583856.4	4139250.1	0.00000	0.00000	0.00000	0.01003	0.00603	0.00477	0.0025	0.00014	0.00004
47	583798.6	4139276.9	0.00000	0.00000	0.00000	0.0057	0.00305	0.00215	0.00117	0.0001	0.00003
48	583807.3	4139274.3	0.00000	0.00000	0.00000	0.00623	0.00341	0.00247	0.00133	0.00011	0.00003
49	583815.9	4139271.7	0.00000	0.00000	0.00000	0.00683	0.00383	0.00284	0.00151	0.00011	0.00003
50	583824.5	4139269.1	0.00000	0.00000	0.00000	0.0075	0.00431	0.00325	0.00172	0.00012	0.00003
51	583833.1	4139266.5	0.00000	0.00000	0.00000	0.00825	0.00484	0.00371	0.00196	0.00012	0.00003
52	583841.7	4139263.9	0.00000	0.00000	0.00000	0.00907	0.00541	0.00422	0.00222	0.00013	0.00003
53	583850.3	4139261.3	0.00000	0.00000	0.00000	0.00994	0.00602	0.00475	0.00249	0.00013	0.00004
54	583859.0	4139258.7	0.00000	0.00000	0.00000	0.01085	0.00664	0.0053	0.00277	0.00014	0.00004
55	583780.5	4139216.6	0.00000	0.00000	0.00000	0.00422	0.00209	0.00141	0.00078	0.00009	0.00002
56	583789.1	4139214.0	0.00000	0.00000	0.00000	0.0045	0.00227	0.00156	0.00086	0.00009	0.00003
57	583797.7	4139211.4	0.00000	0.00000	0.00000	0.00481	0.00246	0.00172	0.00094	0.0001	0.00003
58	583806.3	4139208.8	0.00000	0.00000	0.00000	0.00515	0.00267	0.0019	0.00103	0.0001	0.00003
59	583814.9	4139206.2	0.00000	0.00000	0.00000	0.00553	0.0029	0.0021	0.00113	0.00011	0.00003
60	583823.5	4139203.6	0.00000	0.00000	0.00000	0.00594	0.00315	0.00231	0.00125	0.00011	0.00003
61	583783.1	4139225.2	0.00000	0.00000	0.00000	0.00438	0.0022	0.00149	0.00082	0.00009	0.00002
62	583804.8	4139304.1	0.00000	0.00000	0.00000	0.00672	0.00372	0.0027	0.00145	0.00011	0.00003
63	583882.7	4139281.7	0.00000	0.00000	0.00000	0.0169	0.01109	0.00921	0.00474	0.00017	0.00004
64	583831.0	4139362.2	0.00000	0.00000	0.00000	0.015	0.00989	0.00814	0.00419	0.00014	0.00004
65	583839.6	4139359.7	0.00000	0.00000	0.00000	0.0187	0.0128	0.01077	0.0055	0.00014	0.00004
66	583848.3	4139357.2	0.00000	0.00000	0.00000	0.0222	0.01554	0.01325	0.00674	0.00015	0.00004
67	583856.9	4139354.7	0.00000	0.00000	0.00000	0.02533	0.01796	0.01544	0.00784	0.00016	0.00004
68	583865.6	4139352.2	0.00000	0.00000	0.00000	0.02809	0.02007	0.01734	0.00879	0.00016	0.00004
69	583874.2	4139349.7	0.00000	0.00000	0.00000	0.03051	0.02188	0.01895	0.00961	0.00017	0.00004
70	583882.9	4139347.2	0.00000	0.00000	0.00000	0.03261	0.02342	0.02031	0.01029	0.00018	0.00005
71	583891.5	4139344.7	0.00000	0.00000	0.00000	0.03443	0.02469	0.02143	0.01086	0.00019	0.00005
72	583900.2	4139342.2	0.00000	0.00000	0.00000	0.03595	0.02572	0.02231	0.01131	0.0002	0.00005
73	583824.8	4139373.3	0.00000	0.00000	0.00000	0.01366	0.00876	0.00709	0.00366	0.00014	0.00004
74	583833.5	4139370.8	0.00000	0.00000	0.00000	0.01865	0.01264	0.01059	0.00539	0.00014	0.00004
75	583842.1	4139368.3	0.00000	0.00000	0.00000	0.02326	0.01626	0.01386	0.00702	0.00015	0.00004
76	583850.8	4139365.8	0.00000	0.00000	0.00000	0.02718	0.01932	0.01664	0.00841	0.00016	0.00004
77	583859.4	4139363.3	0.00000	0.00000	0.00000	0.03051	0.0219	0.01896	0.00958	0.00016	0.00004
78	583868.1	4139360.8	0.00000	0.00000	0.00000	0.03338	0.02409	0.02093	0.01056	0.00017	0.00004
79	583876.7	4139358.3	0.00000	0.00000	0.00000	0.03587	0.02594	0.02258	0.01139	0.00018	0.00005
80	583885.4	4139355.8	0.00000	0.00000	0.00000	0.038	0.02748	0.02394	0.01208	0.00018	0.00005
81	583894.0	4139353.3	0.00000	0.00000	0.00000	0.03983	0.02875	0.02505	0.01265	0.00019	0.00005
82	583902.6	4139350.8	0.00000	0.00000	0.00000	0.04134	0.02975	0.0259	0.01308	0.0002	0.00005
83	583807.3	4139312.8	0.00000	0.00000	0.00000	0.00713	0.004	0.00294	0.00157	0.00011	0.00003
84	583816.0	4139310.3	0.00000	0.00000	0.00000	0.00804	0.00467	0.00352	0.00187	0.00012	0.00003
85	583824.6	4139307.8	0.00000	0.00000	0.00000	0.0091	0.00546	0.00423	0.00222	0.00012	0.00003
86	583833.3	4139305.3	0.00000	0.00000	0.00000	0.01032	0.00637	0.00504	0.00263	0.00013	0.00003
87	583841.9	4139302.8	0.00000	0.00000	0.00000	0.01167	0.00738	0.00593	0.00308	0.00013	0.00004
88	583813.5	4139301.6	0.00000	0.00000	0.00000	0.0075	0.00429	0.0032	0.0017	0.00012	0.00003
89	583850.6	4139300.3	0.00000	0.00000	0.00000	0.0131	0.00844	0.00688	0.00356	0.00014	0.00004
90	583859.2	4139297.8	0.00000	0.00000	0.00000	0.01455	0.00951	0.00783	0.00404	0.00015	0.00004
91	583867.9	4139295.3	0.00000	0.00000	0.00000	0.01598	0.01056	0.00875	0.00451	0.00015	0.00004
92	583876.5	4139292.8	0.00000	0.00000	0.00000	0.01735	0.01153	0.00961	0.00494	0.00016	0.00004
93	583885.2	4139290.3	0.00000	0.00000	0.00000	0.01863	0.01242	0.01039	0.00534	0.00017	0.00004
94	583809.8	4139321.4	0.00000	0.00000	0.00000	0.00761	0.00433	0.00321	0.00171	0.00012	0.00003
95	583822.1	4139299.1	0.00000	0.00000	0.00000	0.00841	0.00496	0.00379	0.002	0.00012	0.00003
96	583818.5	4139318.9	0.00000	0.00000	0.00000	0.00866	0.00512	0.00391	0.00206	0.00012	0.00003
97	583827.1	4139316.4	0.00000	0.00000	0.00000	0.00992	0.00607	0.00476	0.00249	0.00013	0.00003
98	583835.8	4139313.9	0.00000	0.00000	0.00000	0.01136	0.00716	0.00573	0.00298	0.00013	0.00003
99	583844.4	4139311.4	0.00000	0.00000	0.00000	0.01294	0.00835	0.00679	0.00352	0.00014	0.00004
100	583853.1	4139308.9	0.00000	0.00000	0.00000	0.01458	0.00958	0.00789	0.00407	0.00014	0.00004
101	583861.7	4139306.4	0.00000	0.00000	0.00000	0.01621	0.01079	0.00897	0.00462	0.00015	0.00004
102	583870.4	4139303.9	0.00000	0.00000	0.00000	0.01779	0.01195	0.01	0.00513	0.00016	0.00004
103	583879.0	4139301.4	0.00000	0.00000	0.00000	0.01926	0.013	0.01093	0.0056	0.00016	0.00004
104	583887.7	4139298.9	0.00000	0.00000	0.00000	0.02061	0.01394	0.01174	0.00602	0.00017	0.00005
105	583830.8	4139296.6	0.00000	0.00000	0.00000	0.00946	0.00573	0.00447	0.00234	0.00012	0.00003
106	583812.3	4139330.1	0.00000	0.00000	0.00000	0.00814	0.00471	0.00354	0.00188	0.00012	0.00003
107	583821.0	4139327.6	0.00000	0.00000	0.00000	0.0094	0.00566	0.00438	0.0023	0.00012	0.00003
108	583829.6	4139325.1	0.00000	0.00000	0.00000	0.01091	0.00681	0.00541	0.00282	0.00013	0.00003
109	583838.3	4139322.6	0.00000	0.00000	0.00000	0.01263	0.00812	0.00659	0.00341	0.00013	0.00004
110	583846.9	4139320.1	0.00000	0.00000	0.00000	0.01448	0.00953	0.00785	0.00405	0.00014	0.00004
111	583855.6	4139317.6	0.00000	0.00000	0.00000	0.01635	0.01095	0.00912	0.00469	0.00015	0.00004
112	583864.2	4139315.1	0.00000	0.00000	0.00000	0.01817	0.01231	0.01034	0.0053	0.00015	0.00004
113	583839.4	4139294.2	0.00000	0.00000	0.00000	0.01061	0.00658	0.00523	0.00273	0.00013	0.00003
114	583872.9	4139312.6	0.00000	0.00000	0.00000	0.01989	0.01358	0.01146	0.00587	0.00016	0.00004
115	583881.5	4139310.1	0.00000	0.00000	0.00000	0.02146	0.0147	0.01245	0.00637	0.00017	0.00004
116	583890.2	4139307.6	0.00000	0.00000	0.00000	0.02287	0.01568	0.01331	0.00681	0.00018	0.00005
117	583814.8	4139338.7	0.00000	0.00000	0.00000	0.00877	0.00515	0.00392	0.00207	0.00012	0.00003
118	583823.5	4139336.2	0.00000	0.00000	0.00000	0.0103	0.00632	0.00497	0.0026	0.00013	0.00003
119	583832.1	4139333.7	0.00000	0.00000	0.00000	0.01214	0.00774	0.00624	0.00324	0.00013	0.00004
120	583848.1	4139291.7	0.00000	0.00000	0.00000	0.01186	0.0075	0.00604	0.00314	0.00014	0.00004

Construction PM2.5 (µg/m³) - With Use of MERV-13 — Total PM2.5 Concentrations (Fugitive + Exhaust) by Year; Maximum Construction PM2.5 Conc. MERV-13 Filtration

Receptor No.	2023	2024	2025	2026	2027	2028	2029	2030	2031	Maximum Construction PM2.5 Conc. MERV-13 Filtration 2026-2031
1	0.00000	0.00000	0.00000	0.00140	0.00071	0.00050	0.00027	0.00003	0.00001	0.00140
2	0.00000	0.00000	0.00000	0.00151	0.00078	0.00055	0.00030	0.00003	0.00001	0.00151
3	0.00000	0.00000	0.00000	0.00162	0.00085	0.00061	0.00033	0.00003	0.00001	0.00162
4	0.00000	0.00000	0.00000	0.00174	0.00092	0.00068	0.00036	0.00003	0.00001	0.00174
5	0.00000	0.00000	0.00000	0.00187	0.00101	0.00074	0.00040	0.00003	0.00001	0.00187
6	0.00000	0.00000	0.00000	0.00202	0.00110	0.00082	0.00044	0.00004	0.00001	0.00202
7	0.00000	0.00000	0.00000	0.00137	0.00069	0.00047	0.00026	0.00003	0.00001	0.00137
8	0.00000	0.00000	0.00000	0.00146	0.00075	0.00053	0.00029	0.00003	0.00001	0.00146
9	0.00000	0.00000	0.00000	0.00158	0.00083	0.00059	0.00032	0.00003	0.00001	0.00158
10	0.00000	0.00000	0.00000	0.00170	0.00090	0.00065	0.00035	0.00003	0.00001	0.00170
11	0.00000	0.00000	0.00000	0.00183	0.00099	0.00072	0.00039	0.00003	0.00001	0.00183
12	0.00000	0.00000	0.00000	0.00197	0.00108	0.00080	0.00043	0.00004	0.00001	0.00197
13	0.00000	0.00000	0.00000	0.00213	0.00118	0.00089	0.00047	0.00004	0.00001	0.00213
14	0.00000	0.00000	0.00000	0.00230	0.00129	0.00098	0.00052	0.00004	0.00001	0.00230
15	0.00000	0.00000	0.00000	0.00143	0.00073	0.00050	0.00027	0.00003	0.00001	0.00143
16	0.00000	0.00000	0.00000	0.00153	0.00080	0.00056	0.00030	0.00003	0.00001	0.00153
17	0.00000	0.00000	0.00000	0.00165	0.00088	0.00062	0.00034	0.00003	0.00001	0.00165
18	0.00000	0.00000	0.00000	0.00178	0.00096	0.00070	0.00038	0.00003	0.00001	0.00178
19	0.00000	0.00000	0.00000	0.00193	0.00106	0.00078	0.00042	0.00003	0.00001	0.00193
20	0.00000	0.00000	0.00000	0.00209	0.00116	0.00087	0.00047	0.00004	0.00001	0.00209
21	0.00000	0.00000	0.00000	0.00226	0.00128	0.00097	0.00052	0.00004	0.00001	0.00226
22	0.00000	0.00000	0.00000	0.00245	0.00140	0.00107	0.00057	0.00004	0.00001	0.00245
23	0.00000	0.00000	0.00000	0.00149	0.00077	0.00053	0.00029	0.00003	0.00001	0.00149
24	0.00000	0.00000	0.00000	0.00160	0.00085	0.00060	0.00032	0.00003	0.00001	0.00160
25	0.00000	0.00000	0.00000	0.00173	0.00093	0.00067	0.00036	0.00003	0.00001	0.00173
26	0.00000	0.00000	0.00000	0.00188	0.00103	0.00075	0.00041	0.00003	0.00001	0.00188
27	0.00000	0.00000	0.00000	0.00204	0.00114	0.00085	0.00045	0.00003	0.00001	0.00204
28	0.00000	0.00000	0.00000	0.00221	0.00125	0.00095	0.00050	0.00004	0.00001	0.00221
29	0.00000	0.00000	0.00000	0.00241	0.00138	0.00106	0.00056	0.00004	0.00001	0.00241
30	0.00000	0.00000	0.00000	0.00261	0.00151	0.00118	0.00062	0.00004	0.00001	0.00261
31	0.00000	0.00000	0.00000	0.00155	0.00081	0.00056	0.00031	0.00003	0.00001	0.00155
32	0.00000	0.00000	0.00000	0.00168	0.00090	0.00064	0.00035	0.00003	0.00001	0.00168
33	0.00000	0.00000	0.00000	0.00183	0.00100	0.00072	0.00039	0.00003	0.00001	0.00183
34	0.00000	0.00000	0.00000	0.00199	0.00110	0.00082	0.00044	0.00003	0.00001	0.00199
35	0.00000	0.00000	0.00000	0.00217	0.00123	0.00092	0.00049	0.00004	0.00001	0.00217
36	0.00000	0.00000	0.00000	0.00236	0.00136	0.00104	0.00055	0.00004	0.00001	0.00236
37	0.00000	0.00000	0.00000	0.00257	0.00150	0.00116	0.00061	0.00004	0.00001	0.00257
38	0.00000	0.00000	0.00000	0.00280	0.00165	0.00129	0.00068	0.00004	0.00001	0.00280
39	0.00000	0.00000	0.00000	0.00163	0.00086	0.00060	0.00033	0.00003	0.00001	0.00163
40	0.00000	0.00000	0.00000	0.00177	0.00096	0.00069	0.00037	0.00003	0.00001	0.00177
41	0.00000	0.00000	0.00000	0.00193	0.00107	0.00078	0.00042	0.00003	0.00001	0.00193
42	0.00000	0.00000	0.00000	0.00211	0.00119	0.00089	0.00047	0.00003	0.00001	0.00211
43	0.00000	0.00000	0.00000	0.00231	0.00133	0.00101	0.00054	0.00004	0.00001	0.00231
44	0.00000	0.00000	0.00000	0.00253	0.00148	0.00114	0.00060	0.00004	0.00001	0.00253
45	0.00000	0.00000	0.00000	0.00276	0.00164	0.00128	0.00068	0.00004	0.00001	0.00276
46	0.00000	0.00000	0.00000	0.00301	0.00181	0.00143	0.00075	0.00004	0.00001	0.00301
47	0.00000	0.00000	0.00000	0.00171	0.00092	0.00065	0.00035	0.00003	0.00001	0.00171
48	0.00000	0.00000	0.00000	0.00187	0.00102	0.00074	0.00040	0.00003	0.00001	0.00187
49	0.00000	0.00000	0.00000	0.00205	0.00115	0.00085	0.00045	0.00003	0.00001	0.00205
50	0.00000	0.00000	0.00000	0.00225	0.00129	0.00098	0.00052	0.00004	0.00001	0.00225
51	0.00000	0.00000	0.00000	0.00248	0.00145	0.00111	0.00059	0.00004	0.00001	0.00248
52	0.00000	0.00000	0.00000	0.00272	0.00162	0.00127	0.00067	0.00004	0.00001	0.00272
53	0.00000	0.00000	0.00000	0.00298	0.00181	0.00143	0.00075	0.00004	0.00001	0.00298
54	0.00000	0.00000	0.00000	0.00326	0.00199	0.00159	0.00083	0.00004	0.00001	0.00326
55	0.00000	0.00000	0.00000	0.00127	0.00063	0.00042	0.00023	0.00003	0.00001	0.00127
56	0.00000	0.00000	0.00000	0.00135	0.00068	0.00047	0.00026	0.00003	0.00001	0.00135
57	0.00000	0.00000	0.00000	0.00144	0.00074	0.00052	0.00028	0.00003	0.00001	0.00144
58	0.00000	0.00000	0.00000	0.00155	0.00080	0.00057	0.00031	0.00003	0.00001	0.00155
59	0.00000	0.00000	0.00000	0.00166	0.00087	0.00063	0.00034	0.00003	0.00001	0.00166
60	0.00000	0.00000	0.00000	0.00178	0.00095	0.00069	0.00038	0.00003	0.00001	0.00178
61	0.00000	0.00000	0.00000	0.00131	0.00066	0.00045	0.00025	0.00003	0.00001	0.00131
62	0.00000	0.00000	0.00000	0.00202	0.00112	0.00081	0.00044	0.00003	0.00001	0.00202
63	0.00000	0.00000	0.00000	0.00507	0.00333	0.00276	0.00142	0.00005	0.00001	0.00507
64	0.00000	0.00000	0.00000	0.00450	0.00297	0.00244	0.00126	0.00004	0.00001	0.00450
65	0.00000	0.00000	0.00000	0.00561	0.00384	0.00323	0.00165	0.00004	0.00001	0.00561
66	0.00000	0.00000	0.00000	0.00666	0.00466	0.00398	0.00202	0.00005	0.00001	0.00666
67	0.00000	0.00000	0.00000	0.00760	0.00539	0.00463	0.00235	0.00005	0.00001	0.00760
68	0.00000	0.00000	0.00000	0.00843	0.00602	0.00520	0.00264	0.00005	0.00001	0.00843
69	0.00000	0.00000	0.00000	0.00915	0.00656	0.00569	0.00288	0.00005	0.00001	0.00915
70	0.00000	0.00000	0.00000	0.00978	0.00703	0.00609	0.00309	0.00005	0.00002	0.00978
71	0.00000	0.00000	0.00000	0.01033	0.00741	0.00643	0.00326	0.00006	0.00002	0.01033
72	0.00000	0.00000	0.00000	0.01079	0.00772	0.00669	0.00339	0.00006	0.00002	0.01079
73	0.00000	0.00000	0.00000	0.00410	0.00263	0.00213	0.00110	0.00004	0.00001	0.00410
74	0.00000	0.00000	0.00000	0.00560	0.00379	0.00318	0.00162	0.00004	0.00001	0.00560
75	0.00000	0.00000	0.00000	0.00698	0.00488	0.00416	0.00211	0.00005	0.00001	0.00698
76	0.00000	0.00000	0.00000	0.00815	0.00580	0.00499	0.00252	0.00005	0.00001	0.00815
77	0.00000	0.00000	0.00000	0.00915	0.00657	0.00569	0.00287	0.00005	0.00001	0.00915
78	0.00000	0.00000	0.00000	0.01001	0.00723	0.00628	0.00317	0.00005	0.00001	0.01001
79	0.00000	0.00000	0.00000	0.01076	0.00778	0.00677	0.00342	0.00005	0.00002	0.01076
80	0.00000	0.00000	0.00000	0.01140	0.00824	0.00718	0.00362	0.00005	0.00002	0.01140
81	0.00000	0.00000	0.00000	0.01195	0.00863	0.00752	0.00380	0.00006	0.00002	0.01195
82	0.00000	0.00000	0.00000	0.01240	0.00893	0.00777	0.00392	0.00006	0.00002	0.01240
83	0.00000	0.00000	0.00000	0.00214	0.00120	0.00088	0.00047	0.00003	0.00001	0.00214
84	0.00000	0.00000	0.00000	0.00241	0.00140	0.00106	0.00056	0.00004	0.00001	0.00241
85	0.00000	0.00000	0.00000	0.00273	0.00164	0.00127	0.00067	0.00004	0.00001	0.00273
86	0.00000	0.00000	0.00000	0.00310	0.00191	0.00151	0.00079	0.00004	0.00001	0.00310
87	0.00000	0.00000	0.00000	0.00350	0.00221	0.00178	0.00092	0.00004	0.00001	0.00350
88	0.00000	0.00000	0.00000	0.00225	0.00129	0.00096	0.00051	0.00004	0.00001	0.00225
89	0.00000	0.00000	0.00000	0.00393	0.00253	0.00206	0.00107	0.00004	0.00001	0.00393
90	0.00000	0.00000	0.00000	0.00437	0.00285	0.00235	0.00121	0.00005	0.00001	0.00437
91	0.00000	0.00000	0.00000	0.00479	0.00317	0.00263	0.00135	0.00005	0.00001	0.00479
92	0.00000	0.00000	0.00000	0.00521	0.00346	0.00288	0.00148	0.00005	0.00001	0.00521
93	0.00000	0.00000	0.00000	0.00559	0.00373	0.00312	0.00160	0.00005	0.00001	0.00559
94	0.00000	0.00000	0.00000	0.00228	0.00130	0.00096	0.00051	0.00004	0.00001	0.00228
95	0.00000	0.00000	0.00000	0.00252	0.00149	0.00114	0.00060	0.00004	0.00001	0.00252
96	0.00000	0.00000	0.00000	0.00260	0.00154	0.00117	0.00062	0.00004	0.00001	0.00260
97	0.00000	0.00000	0.00000	0.00298	0.00182	0.00143	0.00075	0.00004	0.00001	0.00298
98	0.00000	0.00000	0.00000	0.00341	0.00215	0.00172	0.00089	0.00004	0.00001	0.00341
99	0.00000	0.00000	0.00000	0.00388	0.00251	0.00204	0.00106	0.00004	0.00001	0.00388
100	0.00000	0.00000	0.00000	0.00437	0.00287	0.00237	0.00122	0.00004	0.00001	0.00437
101	0.00000	0.00000	0.00000	0.00486	0.00324	0.00269	0.00139	0.00005	0.00001	0.00486
102	0.00000	0.00000	0.00000	0.00534	0.00359	0.00300	0.00154	0.00005	0.00001	0.00534
103	0.00000	0.00000	0.00000	0.00578	0.00390	0.00328	0.00168	0.00005	0.00001	0.00578
104	0.00000	0.00000	0.00000	0.00618	0.00418	0.00352	0.00181	0.00005	0.00002	0.00618
105	0.00000	0.00000	0.00000	0.00284	0.00172	0.00134	0.00070	0.00004	0.00001	0.00284
106	0.00000	0.00000	0.00000	0.00244	0.00141	0.00106	0.00056	0.00004	0.00001	0.00244
107	0.00000	0.00000	0.00000	0.00282	0.00170	0.00131	0.00069	0.00004	0.00001	0.00282
108	0.00000	0.00000	0.00000	0.00327	0.00204	0.00162	0.00085	0.00004	0.00001	0.00327
109	0.00000	0.00000	0.00000	0.00379	0.00244	0.00198	0.00102	0.00004	0.00001	0.00379
110	0.00000	0.00000	0.00000	0.00434	0.00286	0.00236	0.00122	0.00004	0.00001	0.00434
111	0.00000	0.00000	0.00000	0.00491	0.00329	0.00274	0.00141	0.00005	0.00001	0.00491
112	0.00000	0.00000	0.00000	0.00545	0.00369	0.00310	0.00159	0.00005	0.00001	0.00545
113	0.00000	0.00000	0.00000	0.00318	0.00197	0.00157	0.00082	0.00004	0.00001	0.00318
114	0.00000	0.00000	0.00000	0.00597	0.00407	0.00344	0.00176	0.00005	0.00001	0.00597
115	0.00000	0.00000	0.00000	0.00644	0.00441	0.00374	0.00191	0.00005	0.00001	0.00644
116	0.00000	0.00000	0.00000	0.00686	0.00470	0.00399	0.00204	0.00005	0.00002	0.00686
117	0.00000	0.00000	0.00000	0.00263	0.00155	0.00118	0.00062	0.00004	0.00001	0.00263
118	0.00000	0.00000	0.00000	0.00309	0.00190	0.00149	0.00078	0.00004	0.00001	0.00309
119	0.00000	0.00000	0.00000	0.00364	0.00232	0.00187	0.00097	0.00004	0.00001	0.00364
120	0.00000	0.00000	0.00000	0.00356	0.00225	0.00181	0.00094	0.00004	0.00001	0.00356

Project Operation PM2.5 (µg/m³) Without MERV-13 / With MERV-13

Receptor No.	Without MERV-13: Local Roads 2026-2055	Without MERV-13: Project Generators 2026-2055	Without MERV-13: Cooling Tower 2026-2055	Without MERV-13: Char-broilers 2026-2055	With MERV-13: Local Roads 2026-2055	With MERV-13: Project Generators 2026-2055	With MERV-13: Cooling Tower 2026-2055	With MERV-13: Char-broilers 2026-2055
1	0.03502	0.00316	0.0133	0.00013	0.01051	0.00095	0.00399	0.00013
2	0.03343	0.00368	0.0145	0.00015	0.01003	0.00110	0.00435	0.00015
3	0.03163	0.00424	0.01577	0.00016	0.00949	0.00127	0.00473	0.00016
4	0.02984	0.00486	0.01709	0.00018	0.00895	0.00146	0.00513	0.00018
5	0.02816	0.00554	0.01844	0.00020	0.00845	0.00166	0.00553	0.00020
6	0.02663	0.00626	0.01979	0.00023	0.00799	0.00188	0.00594	0.00023
7	0.03423	0.00288	0.01262	0.00012	0.01027	0.00086	0.00379	0.00012
8	0.03348	0.00336	0.01386	0.00014	0.01004	0.00101	0.00416	0.00014
9	0.0319	0.00389	0.01517	0.00016	0.00957	0.00117	0.00455	0.00016
10	0.0301	0.0045	0.01654	0.00018	0.00903	0.00135	0.00496	0.00018
11	0.02834	0.00518	0.01797	0.00019	0.00850	0.00155	0.00539	0.00019
12	0.0267	0.00597	0.01943	0.00021	0.00801	0.00179	0.00583	0.00021
13	0.02522	0.00682	0.02087	0.00024	0.00757	0.00205	0.00626	0.00024
14	0.0239	0.00748	0.02227	0.00038	0.00717	0.00224	0.00668	0.00038
15	0.03287	0.003	0.0131	0.00013	0.00986	0.00090	0.00393	0.00013
16	0.03221	0.00347	0.01444	0.00015	0.00966	0.00104	0.00433	0.00015
17	0.03067	0.00401	0.01586	0.00017	0.00920	0.00120	0.00476	0.00017
18	0.02888	0.00465	0.01736	0.00019	0.00866	0.00140	0.00521	0.00019
19	0.02714	0.00544	0.01891	0.00020	0.00814	0.00163	0.00567	0.00020
20	0.02554	0.00641	0.02048	0.00023	0.00766	0.00192	0.00614	0.00023
21	0.02411	0.0075	0.02203	0.00026	0.00723	0.00225	0.00661	0.00026
22	0.02284	0.00814	0.02351	0.00044	0.00685	0.00244	0.00705	0.00044
23	0.03177	0.00302	0.01359	0.00013	0.00953	0.00091	0.00408	0.00013
24	0.0312	0.00348	0.01504	0.00015	0.00936	0.00104	0.00451	0.00015
25	0.02967	0.00401	0.01659	0.00017	0.00890	0.00120	0.00498	0.00017
26	0.0279	0.0047	0.01822	0.00019	0.00837	0.00141	0.00547	0.00019
27	0.02618	0.00566	0.0199	0.00021	0.00785	0.00170	0.00597	0.00021
28	0.02461	0.00699	0.0216	0.00023	0.00738	0.00210	0.00648	0.00023
29	0.02322	0.00846	0.02326	0.00028	0.00697	0.00254	0.00698	0.00028
30	0.02199	0.00886	0.02482	0.00054	0.00660	0.00266	0.00745	0.00054
31	0.03092	0.00297	0.01408	0.00013	0.00928	0.00089	0.00422	0.00013
32	0.03039	0.00339	0.01566	0.00015	0.00912	0.00102	0.00470	0.00015
33	0.02887	0.0039	0.01735	0.00017	0.00866	0.00117	0.00521	0.00017
34	0.0271	0.00463	0.01913	0.00019	0.00813	0.00139	0.00574	0.00019
35	0.02539	0.00589	0.02096	0.00021	0.00762	0.00177	0.00629	0.00021
36	0.02385	0.00799	0.0228	0.00023	0.00716	0.00240	0.00684	0.00023
37	0.02249	0.01015	0.02457	0.00027	0.00675	0.00305	0.00737	0.00027
38	0.0213	0.00957	0.0262	0.00044	0.00639	0.00287	0.00786	0.00044
39	0.03025	0.00284	0.01458	0.00013	0.00908	0.00085	0.00437	0.00013
40	0.02973	0.00322	0.0163	0.00015	0.00892	0.00097	0.00489	0.00015
41	0.02819	0.00368	0.01815	0.00017	0.00846	0.00110	0.00545	0.00017
42	0.02641	0.00445	0.02009	0.00018	0.00792	0.00134	0.00603	0.00018
43	0.02472	0.00633	0.02208	0.00020	0.00742	0.00190	0.00662	0.00020
44	0.02321	0.01039	0.02407	0.00022	0.00696	0.00312	0.00722	0.00022
45	0.02188	0.01354	0.02596	0.00025	0.00656	0.00406	0.00779	0.00025
46	0.02072	0.00964	0.02765	0.00029	0.00622	0.00289	0.00830	0.00029
47	0.0297	0.00267	0.01507	0.00013	0.00891	0.00080	0.00452	0.00013
48	0.02915	0.00301	0.01695	0.00014	0.00875	0.00090	0.00509	0.00014
49	0.02759	0.00341	0.01897	0.00016	0.00828	0.00102	0.00569	0.00016
50	0.02583	0.00418	0.0211	0.00017	0.00775	0.00125	0.00633	0.00017
51	0.02415	0.00736	0.02328	0.00019	0.00725	0.00221	0.00698	0.00019
52	0.02267	0.01872	0.02542	0.00020	0.00680	0.00562	0.00763	0.00020
53	0.02136	0.01974	0.02743	0.00022	0.00641	0.00592	0.00823	0.00022
54	0.02023	0.00781	0.02916	0.00025	0.00607	0.00234	0.00875	0.00025
55	0.0375	0.00248	0.0117	0.00010	0.01125	0.00074	0.00351	0.00010
56	0.0367	0.00291	0.01276	0.00012	0.01101	0.00087	0.00383	0.00012
57	0.03519	0.00339	0.01387	0.00013	0.01056	0.00102	0.00416	0.00013
58	0.03346	0.00392	0.01504	0.00015	0.01004	0.00118	0.00451	0.00015
59	0.03171	0.00449	0.01626	0.00016	0.00951	0.00135	0.00488	0.00016
60	0.03001	0.0051	0.01751	0.00018	0.00900	0.00153	0.00525	0.00018
61	0.03586	0.0027	0.01216	0.00011	0.01076	0.00081	0.00365	0.00011
62	0.03343	0.00285	0.01588	0.00012	0.01003	0.00086	0.00476	0.00012
63	0.01815	0.00541	0.03441	0.00034	0.00545	0.00162	0.01032	0.00034
64	0.03011	0.00169	0.02194	0.00015	0.00903	0.00051	0.00658	0.00015
65	0.02757	0.00181	0.02929	0.00016	0.00827	0.00054	0.00879	0.00016
66	0.02518	0.0019	0.03744	0.00018	0.00755	0.00057	0.01123	0.00018
67	0.02309	0.00197	0.04387	0.00018	0.00693	0.00059	0.01316	0.00018
68	0.02135	0.00203	0.0454	0.00019	0.00641	0.00061	0.01362	0.00019
69	0.01993	0.00209	0.04182	0.00026	0.00598	0.00063	0.01255	0.00026
70	0.01875	0.00213	0.03594	0.00033	0.00563	0.00064	0.01078	0.00033
71	0.01777	0.00215	0.03022	0.00032	0.00533	0.00065	0.00907	0.00032
72	0.01695	0.00216	0.02559	0.00027	0.00509	0.00065	0.00768	0.00027
73	0.03174	0.00157	0.01584	0.00012	0.00952	0.00047	0.00475	0.00012
74	0.02993	0.00163	0.02294	0.00012	0.00898	0.00049	0.00688	0.00012
75	0.0274	0.00173	0.03264	0.00012	0.00822	0.00052	0.00979	0.00012
76	0.02501	0.00183	0.04332	0.00012	0.00750	0.00055	0.01300	0.00012
77	0.02294	0.00195	0.04962	0.00013	0.00688	0.00059	0.01489	0.00013
78	0.02121	0.00204	0.04732	0.00015	0.00636	0.00061	0.01420	0.00015
79	0.0198	0.00211	0.03981	0.00019	0.00594	0.00063	0.01194	0.00019
80	0.01863	0.00216	0.03224	0.00025	0.00559	0.00065	0.00967	0.00025
81	0.01766	0.00218	0.02647	0.00025	0.00530	0.00065	0.00794	0.00025
82	0.01685	0.00219	0.02239	0.00023	0.00506	0.00066	0.00672	0.00023
83	0.03317	0.00268	0.01617	0.00011	0.00995	0.00080	0.00485	0.00011
84	0.03159	0.00302	0.01884	0.00013	0.00948	0.00091	0.00565	0.00013
85	0.02906	0.00338	0.02181	0.00013	0.00872	0.00101	0.00654	0.00013
86	0.02661	0.00372	0.02498	0.00015	0.00798	0.00112	0.00749	0.00015
87	0.02444	0.00438	0.02819	0.00016	0.00733	0.00131	0.00846	0.00016
88	0.0319	0.00322	0.01831	0.00012	0.00957	0.00097	0.00549	0.00012
89	0.02261	0.00366	0.03119	0.00018	0.00678	0.00110	0.00936	0.00018
90	0.0211	0.00333	0.03363	0.00020	0.00633	0.00100	0.01009	0.00020
91	0.01984	0.00352	0.03518	0.00023	0.00595	0.00106	0.01055	0.00023
92	0.01879	0.0037	0.03562	0.00029	0.00564	0.00111	0.01069	0.00029
93	0.01791	0.00376	0.03497	0.00041	0.00537	0.00113	0.01049	0.00041
94	0.03291	0.00244	0.0164	0.00011	0.00987	0.00073	0.00492	0.00011
95	0.02938	0.00373	0.02098	0.00013	0.00881	0.00112	0.00629	0.00013
96	0.03129	0.00262	0.01935	0.00012	0.00939	0.00079	0.00581	0.00012
97	0.02876	0.00296	0.02266	0.00013	0.00863	0.00089	0.00680	0.00013
98	0.02632	0.00313	0.02622	0.00014	0.00790	0.00094	0.00787	0.00014
99	0.02416	0.00314	0.02979	0.00016	0.00725	0.00094	0.00894	0.00016
100	0.02234	0.0029	0.03302	0.00018	0.00670	0.00087	0.00991	0.00018
101	0.02085	0.00273	0.03543	0.00019	0.00626	0.00082	0.01063	0.00019
102	0.01961	0.00256	0.03663	0.00022	0.00588	0.00077	0.01099	0.00022
103	0.01857	0.00264	0.03647	0.00030	0.00557	0.00079	0.01094	0.00030
104	0.0177	0.00278	0.03508	0.00060	0.00531	0.00083	0.01052	0.00060
105	0.02693	0.00475	0.02383	0.00014	0.00808	0.00143	0.00715	0.00014
106	0.03266	0.00222	0.01655	0.00010	0.00980	0.00067	0.00497	0.00010
107	0.03101	0.00236	0.01983	0.00011	0.00930	0.00071	0.00595	0.00011
108	0.02848	0.00249	0.02357	0.00013	0.00854	0.00075	0.00707	0.00013
109	0.02605	0.0026	0.02759	0.00014	0.00782	0.00078	0.00828	0.00014
110	0.0239	0.00253	0.03159	0.00015	0.00717	0.00076	0.00948	0.00015
111	0.0221	0.00244	0.03503	0.00017	0.00663	0.00073	0.01051	0.00017
112	0.02062	0.00238	0.03728	0.00019	0.00619	0.00071	0.01118	0.00019
113	0.02476	0.00654	0.02674	0.00016	0.00743	0.00196	0.00802	0.00016
114	0.0194	0.00231	0.03789	0.00022	0.00582	0.00069	0.01137	0.00022
115	0.01837	0.0023	0.03687	0.00034	0.00551	0.00069	0.01106	0.00034
116	0.01751	0.00234	0.0346	0.00124	0.00525	0.00070	0.01038	0.00124
117	0.03243	0.00204	0.01661	0.00010	0.00973	0.00061	0.00498	0.00010
118	0.03076	0.00215	0.0203	0.00011	0.00923	0.00065	0.00609	0.00011
119	0.02822	0.00225	0.02456	0.00012	0.00847	0.00068	0.00737	0.00012
120	0.02291	0.01054	0.02951	0.00018	0.00687	0.00316	0.00885	0.00018

Total Construction + Operation PM2.5 (µg/m³) With Use of MERV-13

Receptor No.	2023	2024	2025	2026	2027	2028	2029	2030	2031
1	0.00000	0.00000	0.00000	0.01698	0.01629	0.01607	0.01584	0.01560	0.01558
2	0.00000	0.00000	0.00000	0.01714	0.01641	0.01618	0.01593	0.01566	0.01564
3	0.00000	0.00000	0.00000	0.01727	0.01650	0.01626	0.01599	0.01569	0.01566
4	0.00000	0.00000	0.00000	0.01746	0.01664	0.01639	0.01608	0.01575	0.01573
5	0.00000	0.00000	0.00000	0.01771	0.01685	0.01659	0.01624	0.01587	0.01585
6	0.00000	0.00000	0.00000	0.01806	0.01714	0.01686	0.01648	0.01607	0.01605
7	0.00000	0.00000	0.00000	0.01641	0.01573	0.01551	0.01530	0.01507	0.01505
8	0.00000	0.00000	0.00000	0.01681	0.01610	0.01588	0.01564	0.01538	0.01536
9	0.00000	0.00000	0.00000	0.01702	0.01627	0.01603	0.01577	0.01548	0.01546
10	0.00000	0.00000	0.00000	0.01721	0.01642	0.01617	0.01587	0.01555	0.01553
11	0.00000	0.00000	0.00000	0.01747	0.01663	0.01636	0.01603	0.01567	0.01565
12	0.00000	0.00000	0.00000	0.01782	0.01692	0.01665	0.01628	0.01588	0.01585
13	0.00000	0.00000	0.00000	0.01825	0.01730	0.01701	0.01659	0.01615	0.01613
14	0.00000	0.00000	0.00000	0.01878	0.01777	0.01746	0.01700	0.01652	0.01649
15	0.00000	0.00000	0.00000	0.01625	0.01555	0.01532	0.01509	0.01485	0.01483
16	0.00000	0.00000	0.00000	0.01671	0.01598	0.01574	0.01549	0.01521	0.01519
17	0.00000	0.00000	0.00000	0.01698	0.01621	0.01595	0.01567	0.01536	0.01534
18	0.00000	0.00000	0.00000	0.01723	0.01641	0.01615	0.01583	0.01549	0.01546
19	0.00000	0.00000	0.00000	0.01758	0.01671	0.01643	0.01607	0.01568	0.01566
20	0.00000	0.00000	0.00000	0.01804	0.01712	0.01683	0.01642	0.01599	0.01596
21	0.00000	0.00000	0.00000	0.01861	0.01762	0.01732	0.01687	0.01639	0.01636
22	0.00000	0.00000	0.00000	0.01923	0.01818	0.01786	0.01735	0.01683	0.01680
23	0.00000	0.00000	0.00000	0.01614	0.01542	0.01518	0.01494	0.01468	0.01466
24	0.00000	0.00000	0.00000	0.01667	0.01592	0.01567	0.01539	0.01510	0.01508
25	0.00000	0.00000	0.00000	0.01699	0.01619	0.01593	0.01562	0.01528	0.01526
26	0.00000	0.00000	0.00000	0.01731	0.01646	0.01619	0.01584	0.01547	0.01544
27	0.00000	0.00000	0.00000	0.01777	0.01687	0.01658	0.01618	0.01576	0.01574
28	0.00000	0.00000	0.00000	0.01841	0.01745	0.01714	0.01670	0.01623	0.01620
29	0.00000	0.00000	0.00000	0.01917	0.01814	0.01782	0.01732	0.01680	0.01677
30	0.00000	0.00000	0.00000	0.01985	0.01875	0.01842	0.01786	0.01728	0.01725
31	0.00000	0.00000	0.00000	0.01608	0.01534	0.01509	0.01483	0.01456	0.01453
32	0.00000	0.00000	0.00000	0.01667	0.01588	0.01562	0.01533	0.01502	0.01499
33	0.00000	0.00000	0.00000	0.01703	0.01620	0.01593	0.01559	0.01524	0.01522
34	0.00000	0.00000	0.00000	0.01743	0.01655	0.01627	0.01588	0.01548	0.01546
35	0.00000	0.00000	0.00000	0.01804	0.01711	0.01680	0.01637	0.01591	0.01589
36	0.00000	0.00000	0.00000	0.01898	0.01798	0.01766	0.01717	0.01666	0.01663
37	0.00000	0.00000	0.00000	0.02001	0.01894	0.01860	0.01805	0.01747	0.01744
38	0.00000	0.00000	0.00000	0.02036	0.01921	0.01886	0.01824	0.01760	0.01758
39	0.00000	0.00000	0.00000	0.01606	0.01529	0.01504	0.01476	0.01446	0.01444
40	0.00000	0.00000	0.00000	0.01670	0.01588	0.01561	0.01529	0.01496	0.01493
41	0.00000	0.00000	0.00000	0.01710	0.01624	0.01596	0.01559	0.01521	0.01518
42	0.00000	0.00000	0.00000	0.01758	0.01666	0.01636	0.01594	0.01550	0.01548
43	0.00000	0.00000	0.00000	0.01845	0.01747	0.01715	0.01667	0.01617	0.01615
44	0.00000	0.00000	0.00000	0.02005	0.01900	0.01866	0.01812	0.01755	0.01753
45	0.00000	0.00000	0.00000	0.02142	0.02030	0.01994	0.01933	0.01870	0.01867
46	0.00000	0.00000	0.00000	0.02070	0.01950	0.01912	0.01844	0.01773	0.01770
47	0.00000	0.00000	0.00000	0.01607	0.01527	0.01500	0.01471	0.01439	0.01437
48	0.00000	0.00000	0.00000	0.01675	0.01590	0.01562	0.01528	0.01491	0.01489
49	0.00000	0.00000	0.00000	0.01720	0.01630	0.01600	0.01560	0.01518	0.01516
50	0.00000	0.00000	0.00000	0.01776	0.01680	0.01648	0.01602	0.01554	0.01552
51	0.00000	0.00000	0.00000	0.01910	0.01808	0.01774	0.01721	0.01666	0.01663
52	0.00000	0.00000	0.00000	0.02297	0.02187	0.02151	0.02091	0.02028	0.02025
53	0.00000	0.00000	0.00000	0.02376	0.02259	0.02221	0.02153	0.02082	0.02079
54	0.00000	0.00000	0.00000	0.02066	0.01940	0.01900	0.01824	0.01745	0.01742
55	0.00000	0.00000	0.00000	0.01687	0.01623	0.01603	0.01584	0.01563	0.01561
56	0.00000	0.00000	0.00000	0.01718	0.01651	0.01629	0.01608	0.01585	0.01584
57	0.00000	0.00000	0.00000	0.01731	0.01660	0.01638	0.01615	0.01590	0.01588
58	0.00000	0.00000	0.00000	0.01742	0.01668	0.01644	0.01618	0.01590	0.01588
59	0.00000	0.00000	0.00000	0.01756	0.01677	0.01653	0.01624	0.01594	0.01591
60	0.00000	0.00000	0.00000	0.01775	0.01692	0.01666	0.01635	0.01600	0.01598
61	0.00000	0.00000	0.00000	0.01664	0.01599	0.01577	0.01557	0.01535	0.01533
62	0.00000	0.00000	0.00000	0.01778	0.01688	0.01658	0.01620	0.01580	0.01577
63	0.00000	0.00000	0.00000	0.02281	0.02106	0.02050	0.01916	0.01779	0.01775
64	0.00000	0.00000	0.00000	0.02077	0.01924	0.01871	0.01753	0.01631	0.01628
65	0.00000	0.00000	0.00000	0.02337	0.02160	0.02100	0.01941	0.01781	0.01778
66	0.00000	0.00000	0.00000	0.02620	0.02420	0.02351	0.02156	0.01958	0.01955
67	0.00000	0.00000	0.00000	0.02846	0.02625	0.02549	0.02321	0.02091	0.02087
68	0.00000	0.00000	0.00000	0.02925	0.02685	0.02603	0.02346	0.02087	0.02084
69	0.00000	0.00000	0.00000	0.02857	0.02598	0.02510	0.02230	0.01946	0.01943
70	0.00000	0.00000	0.00000	0.02716	0.02440	0.02347	0.02046	0.01743	0.01739
71	0.00000	0.00000	0.00000	0.02569	0.02276	0.02179	0.01862	0.01541	0.01537
72	0.00000	0.00000	0.00000	0.02446	0.02139	0.02037	0.01707	0.01374	0.01369
73	0.00000	0.00000	0.00000	0.01896	0.01749	0.01699	0.01596	0.01491	0.01488
74	0.00000	0.00000	0.00000	0.02206	0.02026	0.01965	0.01809	0.01651	0.01648
75	0.00000	0.00000	0.00000	0.02563	0.02353	0.02281	0.02075	0.01869	0.01866
76	0.00000	0.00000	0.00000	0.02932	0.02696	0.02616	0.02369	0.02121	0.02118
77	0.00000	0.00000	0.00000	0.03164	0.02905	0.02817	0.02536	0.02253	0.02250
78	0.00000	0.00000	0.00000	0.03133	0.02854	0.02760	0.02449	0.02137	0.02133
79	0.00000	0.00000	0.00000	0.02947	0.02649	0.02548	0.02212	0.01876	0.01872
80	0.00000	0.00000	0.00000	0.02756	0.02441	0.02335	0.01979	0.01622	0.01618
81	0.00000	0.00000	0.00000	0.02609	0.02277	0.02166	0.01794	0.01420	0.01416
82	0.00000	0.00000	0.00000	0.02506	0.02158	0.02043	0.01658	0.01272	0.01267
83	0.00000	0.00000	0.00000	0.01786	0.01692	0.01660	0.01619	0.01575	0.01573
84	0.00000	0.00000	0.00000	0.01857	0.01756	0.01722	0.01672	0.01620	0.01617
85	0.00000	0.00000	0.00000	0.01914	0.01805	0.01768	0.01707	0.01644	0.01642
86	0.00000	0.00000	0.00000	0.01984	0.01865	0.01825	0.01753	0.01678	0.01675
87	0.00000	0.00000	0.00000	0.02076	0.01948	0.01904	0.01819	0.01730	0.01728
88	0.00000	0.00000	0.00000	0.01840	0.01744	0.01711	0.01666	0.01619	0.01616
89	0.00000	0.00000	0.00000	0.02135	0.01995	0.01948	0.01848	0.01746	0.01743
90	0.00000	0.00000	0.00000	0.02198	0.02047	0.01997	0.01883	0.01766	0.01763
91	0.00000	0.00000	0.00000	0.02258	0.02096	0.02042	0.01914	0.01784	0.01780
92	0.00000	0.00000	0.00000	0.02293	0.02118	0.02061	0.01921	0.01777	0.01774
93	0.00000	0.00000	0.00000	0.02299	0.02113	0.02052	0.01901	0.01746	0.01742
94	0.00000	0.00000	0.00000	0.01791	0.01693	0.01659	0.01614	0.01567	0.01564
95	0.00000	0.00000	0.00000	0.01888	0.01785	0.01750	0.01696	0.01640	0.01637
96	0.00000	0.00000	0.00000	0.01869	0.01763	0.01727	0.01671	0.01613	0.01610
97	0.00000	0.00000	0.00000	0.01942	0.01826	0.01787	0.01719	0.01648	0.01645
98	0.00000	0.00000	0.00000	0.02025	0.01899	0.01856	0.01774	0.01688	0.01685
99	0.00000	0.00000	0.00000	0.02117	0.01979	0.01932	0.01834	0.01733	0.01730
100	0.00000	0.00000	0.00000	0.02203	0.02053	0.02002	0.01888	0.01770	0.01767
101	0.00000	0.00000	0.00000	0.02276	0.02113	0.02059	0.01928	0.01794	0.01791
102	0.00000	0.00000	0.00000	0.02320	0.02145	0.02086	0.01940	0.01791	0.01788
103	0.00000	0.00000	0.00000	0.02338	0.02150	0.02088	0.01928	0.01765	0.01762
104	0.00000	0.00000	0.00000	0.02345	0.02145	0.02079	0.01907	0.01732	0.01728
105	0.00000	0.00000	0.00000	0.01963	0.01851	0.01814	0.01750	0.01683	0.01680
106	0.00000	0.00000	0.00000	0.01797	0.01695	0.01659	0.01610	0.01557	0.01554
107	0.00000	0.00000	0.00000	0.01889	0.01777	0.01739	0.01676	0.01611	0.01608
108	0.00000	0.00000	0.00000	0.01976	0.01853	0.01811	0.01733	0.01653	0.01650
109	0.00000	0.00000	0.00000	0.02080	0.01945	0.01899	0.01803	0.01705	0.01702
110	0.00000	0.00000	0.00000	0.02190	0.02042	0.01991	0.01877	0.01760	0.01757
111	0.00000	0.00000	0.00000	0.02294	0.02132	0.02078	0.01945	0.01808	0.01805
112	0.00000	0.00000	0.00000	0.02372	0.02196	0.02137	0.01986	0.01832	0.01828
113	0.00000	0.00000	0.00000	0.02075	0.01954	0.01914	0.01839	0.01761	0.01758
114	0.00000	0.00000	0.00000	0.02407	0.02218	0.02154	0.01986	0.01815	0.01811
115	0.00000	0.00000	0.00000	0.02404	0.02201	0.02133	0.01951	0.01765	0.01761
116	0.00000	0.00000	0.00000	0.02444	0.02228	0.02157	0.01962	0.01763	0.01759
117	0.00000	0.00000	0.00000	0.01806	0.01697	0.01660	0.01605	0.01546	0.01543
118	0.00000	0.00000	0.00000	0.01916	0.01797	0.01757	0.01685	0.01611	0.01608
119	0.00000	0.00000	0.00000	0.02027	0.01895	0.01850	0.01760	0.01667	0.01664
120	0.00000	0.00000	0.00000	0.02262	0.02131	0.02088	0.02001	0.01911	0.01908

Receptor	Receptor Coordinates		Construction PM2.5 ($\mu g/m^3$) Total PM2.5 Concentrations (Fugitive + Exhaust) by Year									Construction PM2.5 ($\mu g/m^3$) - With Use of MERV-13 Total PM2.5 Concentrations (Fugitive + Exhaust) by Year									Maximum Construction PM2.5 Conc. MERV-13 Filtration	Project Operation PM2.5 ($\mu g/m^3$) Without MERV-13				Project Operation PM2.5 ($\mu g/m^3$) With MERV-13				Total Construction + Operation PM2.5 ($\mu g/m^3$) With Use of MERV-13								
No.	UTM-X (m)	UTM-Y (m)	2023	2024	2025	2026	2027	2028	2029	2030	2031	2023	2024	2025	2026	2027	2028	2029	2030	2031	2026-2031	Local Roads 2026-2055	Project Generators 2026-2055	Cooling Tower 2026-2055	Char-broilers 2026-2055	Local Roads 2026-2055	Project Generators 2026-2055	Cooling Tower 2026-2055	Char-broilers 2026-2055	2023	2024	2025	2026	2027	2028	2029	2030	2031
121	583840.8	4139331.2	0.00000	0.00000	0.00000	0.0142	0.00933	0.00767	0.00396	0.00014	0.00004	0.00000	0.00000	0.00000	0.00426	0.00280	0.00230	0.00119	0.00004	0.00001	0.00426	0.0258	0.00226	0.02918	0.00014	0.00774	0.00068	0.00875	0.00014	0.00000	0.00000	0.00000	0.02157	0.02011	0.01961	0.01850	0.01735	0.01732
122	583849.4	4139328.7	0.00000	0.00000	0.00000	0.01636	0.01099	0.00916	0.00471	0.00014	0.00004	0.00000	0.00000	0.00000	0.00491	0.00330	0.00275	0.00141	0.00004	0.00001	0.00491	0.02366	0.00226	0.03369	0.00015	0.00710	0.00068	0.01011	0.00015	0.00000	0.00000	0.00000	0.02294	0.02133	0.02078	0.01945	0.01808	0.01805
123	583858.1	4139326.2	0.00000	0.00000	0.00000	0.01848	0.01261	0.01061	0.00544	0.00015	0.00004	0.00000	0.00000	0.00000	0.00554	0.00378	0.00318	0.00163	0.00005	0.00001	0.00554	0.02188	0.00223	0.03728	0.00017	0.00656	0.00067	0.01118	0.00017	0.00000	0.00000	0.00000	0.02413	0.02237	0.02177	0.02022	0.01863	0.01860
124	583866.7	4139323.7	0.00000	0.00000	0.00000	0.02049	0.01412	0.01196	0.00612	0.00016	0.00004	0.00000	0.00000	0.00000	0.00615	0.00424	0.00359	0.00184	0.00005	0.00001	0.00615	0.02042	0.00222	0.0391	0.00019	0.00613	0.00067	0.01173	0.00019	0.00000	0.00000	0.00000	0.02486	0.02295	0.02230	0.02055	0.01876	0.01872
125	583875.4	4139321.2	0.00000	0.00000	0.00000	0.02234	0.01548	0.01317	0.00673	0.00016	0.00004	0.00000	0.00000	0.00000	0.00670	0.00464	0.00395	0.00202	0.00005	0.00001	0.00670	0.01921	0.00221	0.03876	0.00025	0.00576	0.00066	0.01163	0.00025	0.00000	0.00000	0.00000	0.02501	0.02295	0.02225	0.02032	0.01835	0.01832
126	583884.0	4139318.7	0.00000	0.00000	0.00000	0.024	0.01667	0.01422	0.00726	0.00017	0.00005	0.00000	0.00000	0.00000	0.00720	0.00500	0.00427	0.00218	0.00005	0.00002	0.00720	0.01819	0.0022	0.03662	0.00044	0.00546	0.00066	0.01099	0.00044	0.00000	0.00000	0.00000	0.02475	0.02255	0.02181	0.01973	0.01760	0.01756
127	583892.7	4139316.2	0.00000	0.00000	0.00000	0.02546	0.01768	0.01509	0.0077	0.00018	0.00005	0.00000	0.00000	0.00000	0.00764	0.00530	0.00453	0.00231	0.00005	0.00002	0.00764	0.01734	0.0022	0.03342	0.00322	0.00520	0.00066	0.01003	0.00322	0.00000	0.00000	0.00000	0.02674	0.02441	0.02363	0.02142	0.01916	0.01912
128	583856.7	4139289.2	0.00000	0.00000	0.00000	0.01315	0.00844	0.00688	0.00356	0.00014	0.00004	0.00000	0.00000	0.00000	0.00395	0.00253	0.00206	0.00107	0.00004	0.00001	0.00395	0.02138	0.01119	0.0319	0.00020	0.00641	0.00336	0.00957	0.00020	0.00000	0.00000	0.00000	0.02349	0.02208	0.02161	0.02061	0.01959	0.01956
129	583817.3	4139347.4	0.00000	0.00000	0.00000	0.00951	0.00569	0.00439	0.00231	0.00013	0.00003	0.00000	0.00000	0.00000	0.00285	0.00171	0.00132	0.00069	0.00004	0.00001	0.00285	0.03223	0.00194	0.01657	0.00010	0.00967	0.00058	0.00497	0.00010	0.00000	0.00000	0.00000	0.01818	0.01703	0.01664	0.01602	0.01536	0.01533
130	583826.0	4139344.9	0.00000	0.00000	0.00000	0.01141	0.00716	0.00571	0.00297	0.00013	0.00003	0.00000	0.00000	0.00000	0.00342	0.00215	0.00171	0.00089	0.00004	0.00001	0.00342	0.03052	0.00202	0.02076	0.00011	0.00916	0.00061	0.00623	0.00011	0.00000	0.00000	0.00000	0.01953	0.01825	0.01782	0.01700	0.01614	0.01611
131	583834.6	4139342.4	0.00000	0.00000	0.00000	0.01369	0.00893	0.00731	0.00377	0.00014	0.00004	0.00000	0.00000	0.00000	0.00411	0.00268	0.00219	0.00113	0.00004	0.00001	0.00411	0.02799	0.00205	0.02571	0.00013	0.00840	0.00062	0.00771	0.00013	0.00000	0.00000	0.00000	0.02096	0.01953	0.01905	0.01798	0.01690	0.01687
132	583843.3	4139339.9	0.00000	0.00000	0.00000	0.01618	0.01087	0.00906	0.00465	0.00014	0.00004	0.00000	0.00000	0.00000	0.00485	0.00326	0.00272	0.00140	0.00004	0.00001	0.00485	0.02557	0.0021	0.03113	0.00014	0.00767	0.00063	0.00934	0.00014	0.00000	0.00000	0.00000	0.02264	0.02104	0.02050	0.01918	0.01782	0.01779
133	583851.9	4139337.4	0.00000	0.00000	0.00000	0.01868	0.0128	0.01079	0.00553	0.00015	0.00004	0.00000	0.00000	0.00000	0.00560	0.00384	0.00324	0.00166	0.00005	0.00001	0.00560	0.02345	0.00212	0.03625	0.00016	0.00704	0.00064	0.01088	0.00016	0.00000	0.00000	0.00000	0.02431	0.02255	0.02195	0.02037	0.01876	0.01872
134	583860.6	4139334.9	0.00000	0.00000	0.00000	0.02105	0.01461	0.01242	0.00634	0.00015	0.00004	0.00000	0.00000	0.00000	0.00632	0.00438	0.00373	0.00190	0.00005	0.00001	0.00632	0.02169	0.00214	0.03981	0.00020	0.00651	0.00064	0.01194	0.00020	0.00000	0.00000	0.00000	0.02561	0.02368	0.02302	0.02120	0.01934	0.01931
135	583869.2	4139332.4	0.00000	0.00000	0.00000	0.02323	0.01625	0.01388	0.00708	0.00016	0.00004	0.00000	0.00000	0.00000	0.00697	0.00488	0.00416	0.00212	0.00005	0.00001	0.00697	0.02024	0.00216	0.04073	0.00032	0.00607	0.00065	0.01222	0.00032	0.00000	0.00000	0.00000	0.02623	0.02414	0.02343	0.02139	0.01931	0.01927
136	583877.9	4139329.9	0.00000	0.00000	0.00000	0.02519	0.01769	0.01516	0.00773	0.00017	0.00004	0.00000	0.00000	0.00000	0.00756	0.00531	0.00455	0.00232	0.00005	0.00001	0.00756	0.01904	0.00218	0.03898	0.00047	0.00571	0.00065	0.01169	0.00047	0.00000	0.00000	0.00000	0.02609	0.02384	0.02308	0.02085	0.01858	0.01855
137	583886.5	4139327.4	0.00000	0.00000	0.00000	0.02692	0.01893	0.01625	0.00828	0.00018	0.00005	0.00000	0.00000	0.00000	0.00808	0.00568	0.00488	0.00248	0.00005	0.00002	0.00808	0.01803	0.00217	0.03551	0.00109	0.00541	0.00065	0.01065	0.00109	0.00000	0.00000	0.00000	0.02588	0.02348	0.02268	0.02029	0.01786	0.01782
138	583865.4	4139286.7	0.00000	0.00000	0.00000	0.01444	0.00937	0.0077	0.00398	0.00015	0.00004	0.00000	0.00000	0.00000	0.00433	0.00281	0.00231	0.00119	0.00005	0.00001	0.00433	0.02011	0.00865	0.03363	0.00023	0.00603	0.00260	0.01009	0.00023	0.00000	0.00000	0.00000	0.02328	0.02176	0.02126	0.02014	0.01899	0.01896
139	583895.2	4139324.9	0.00000	0.00000	0.00000	0.02841	0.01996	0.01714	0.00873	0.00019	0.00005	0.00000	0.00000	0.00000	0.00852	0.00599	0.00514	0.00262	0.00006	0.00002	0.00852	0.01719	0.00216	0.03144	0.00150	0.00516	0.00065	0.00943	0.00150	0.00000	0.00000	0.00000	0.02526	0.02273	0.02188	0.01936	0.01680	0.01676
140	583819.8	4139356.0	0.00000	0.00000	0.00000	0.01042	0.00636	0.00497	0.00261	0.00013	0.00003	0.00000	0.00000	0.00000	0.00313	0.00191	0.00149	0.00078	0.00004	0.00001	0.00313	0.03205	0.00182	0.01643	0.00011	0.00962	0.00055	0.00493	0.00011	0.00000	0.00000	0.00000	0.01833	0.01711	0.01670	0.01599	0.01524	0.01521
141	583828.5	4139353.5	0.00000	0.00000	0.00000	0.01287	0.00827	0.00669	0.00347	0.00014	0.00004	0.00000	0.00000	0.00000	0.00386	0.00248	0.00201	0.00104	0.00004	0.00001	0.00386	0.0303	0.00185	0.02128	0.00013	0.00909	0.00056	0.00638	0.00013	0.00000	0.00000	0.00000	0.02002	0.01864	0.01817	0.01720	0.01620	0.01617
142	583837.1	4139351.0	0.00000	0.00000	0.00000	0.01576	0.01053	0.00874	0.00449	0.00014	0.00004	0.00000	0.00000	0.00000	0.00473	0.00316	0.00262	0.00135	0.00004	0.00001	0.00473	0.02777	0.00191	0.02719	0.00015	0.00833	0.00057	0.00816	0.00015	0.00000	0.00000	0.00000	0.02194	0.02037	0.01983	0.01856	0.01725	0.01722
143	583845.8	4139348.5	0.00000	0.00000	0.00000	0.01875	0.01287	0.01085	0.00555	0.00015	0.00004	0.00000	0.00000	0.00000	0.00563	0.00386	0.00326	0.00167	0.00005	0.00001	0.00563	0.02536	0.00197	0.03371	0.00018	0.00761	0.00059	0.01011	0.00018	0.00000	0.00000	0.00000	0.02412	0.02236	0.02175	0.02016	0.01854	0.01851
144	583854.4	4139346.0	0.00000	0.00000	0.00000	0.02159	0.01507	0.01284	0.00655	0.00015	0.00004	0.00000	0.00000	0.00000	0.00648	0.00452	0.00385	0.00197	0.00005	0.00001	0.00648	0.02326	0.00203	0.03952	0.00023	0.00698	0.00061	0.01186	0.00023	0.00000	0.00000	0.00000	0.02615	0.02419	0.02353	0.02164	0.01972	0.01969
145	583874.0	4139284.2	0.00000	0.00000	0.00000	0.0157	0.01027	0.00849	0.00438	0.00016	0.00004	0.00000	0.00000	0.00000	0.00471	0.00308	0.00255	0.00131	0.00005	0.00001	0.00471	0.01905	0.00648	0.0345	0.00028	0.00572	0.00194	0.01035	0.00028	0.00000	0.00000	0.00000	0.02300	0.02137	0.02084	0.01960	0.01834	0.01830
146	583863.1	4139343.5	0.00000	0.00000	0.00000	0.02417	0.01705	0.01461	0.00744	0.00016	0.00004	0.00000	0.00000	0.00000	0.00725	0.00512	0.00438	0.00223	0.00005	0.00001	0.00725	0.02151	0.00207	0.0426	0.00033	0.00645	0.00062	0.01278	0.00033	0.00000	0.00000	0.00000	0.02743	0.02529	0.02456	0.02241	0.02023	0.02019
147	583871.7	4139341.0	0.00000	0.00000	0.00000	0.02649	0.01879	0.01617	0.00822	0.00017	0.00004	0.00000	0.00000	0.00000	0.00795	0.00564	0.00485	0.00247	0.00005	0.00001	0.00795	0.02007	0.00211	0.04184	0.00045	0.00602	0.00063	0.01255	0.00045	0.00000	0.00000	0.00000	0.02760	0.02529	0.02451	0.02212	0.01971	0.01967
148	583880.4	4139338.5	0.00000	0.00000	0.00000	0.02853	0.02029	0.0175	0.0089	0.00017	0.00005	0.00000	0.00000	0.00000	0.00856	0.00609	0.00525	0.00267	0.00005	0.00002	0.00856	0.01888	0.00215	0.03817	0.00050	0.00566	0.00065	0.01145	0.00050	0.00000	0.00000	0.00000	0.02682	0.02435	0.02351	0.02093	0.01831	0.01828
149	583889.0	4139336.0	0.00000	0.00000	0.00000	0.03032	0.02156	0.01861	0.00946	0.00018	0.00005	0.00000	0.00000	0.00000	0.00910	0.00647	0.00558	0.00284	0.00005	0.00002	0.00910	0.01789	0.00216	0.03336	0.00051	0.00537	0.00065	0.01001	0.00051	0.00000	0.00000	0.00000	0.02563	0.02300	0.02212	0.01937	0.01659	0.01655
150	583897.7	4139333.5	0.00000	0.00000	0.00000	0.03184	0.02259	0.01951	0.00992	0.00019	0.00005	0.00000	0.00000	0.00000	0.00955	0.00678	0.00585	0.00298	0.00006	0.00002	0.00955	0.01706	0.00215	0.02875	0.00040	0.00512	0.00065	0.00863	0.00040	0.00000	0.00000	0.00000	0.02434	0.02156	0.02064	0.01776	0.01484	0.01480
151	583822.3	4139364.7	0.00000	0.00000	0.00000	0.01165	0.00727	0.00577	0.00301	0.00014	0.00004	0.00000	0.00000	0.00000	0.00350	0.00218	0.00173	0.00090	0.00004	0.00001	0.00350	0.03188	0.00167	0.01619	0.00013	0.00956	0.00050	0.00486	0.00013	0.00000	0.00000	0.00000	0.01855	0.01723	0.01678	0.01596	0.01509	0.01506
152	584263.0	4139130.3	0.00000	0.00000	0.00000	0.27176	0.10807	0.03286	0.02467	0.00483	0.0011	0.00000	0.00000	0.00000	0.08153	0.03242	0.00986	0.00740	0.00145	0.00033	0.08153	0.0319	0.01743	0.00435	0.00025	0.00957	0.00523	0.00131	0.00025	0.00000	0.00000	0.00000	0.09788	0.04878	0.02621	0.02376	0.01780	0.01669
153	584270.0	4139136.0	0.00000	0.00000	0.00000	0.30056	0.11346	0.03566	0.02715	0.00522	0.00118	0.00000	0.00000	0.00000	0.09017	0.03404	0.01070	0.00815	0.00157	0.00035	0.09017	0.03594	0.01801	0.00429	0.00024	0.01078	0.00540	0.00129	0.00024	0.00000	0.00000	0.00000	0.10788	0.05175	0.02841	0.02586	0.01928	0.01806
154	584276.9	4139141.8	0.00000	0.00000	0.00000	0.33255	0.11793	0.03866	0.0299	0.00565	0.00127	0.00000	0.00000	0.00000	0.09977	0.03538	0.01160	0.00897	0.00170	0.00038	0.09977	0.04101	0.01746	0.00423	0.00022	0.01230	0.00524	0.00127	0.00022	0.00000	0.00000	0.00000	0.11879	0.05441	0.03062	0.02800	0.02072	0.01941
155	584283.9	4139147.5	0.00000	0.00000	0.00000	0.36738	0.12136	0.04184	0.0329	0.0061	0.00135	0.00000	0.00000	0.00000	0.11021	0.03641	0.01255	0.00987	0.00183	0.00041	0.11021	0.047	0.01593	0.00419	0.00019	0.01410	0.00478	0.00126	0.00019	0.00000	0.00000	0.00000	0.13054	0.05673	0.03288	0.03020	0.02216	0.02073
156	584257.3	4139137.3	0.00000	0.00000	0.00000	0.27655	0.11373	0.03369	0.02512	0.00486	0.00111	0.00000	0.00000	0.00000	0.08297	0.03412	0.01011	0.00754	0.00146	0.00033	0.08297	0.03161	0.01709	0.0044	0.00024	0.00948	0.00513	0.00132	0.00024	0.00000	0.00000	0.00000	0.09913	0.05029	0.02627	0.02370	0.01763	0.01650
157	584264.2	4139143.0	0.00000	0.00000	0.00000	0.3074	0.12021	0.03672	0.02778	0.00527	0.00119	0.00000	0.00000	0.00000	0.09222	0.03606	0.01102	0.00833	0.00158	0.00036	0.09222	0.0355	0.0179	0.00434	0.00023	0.01065	0.00537	0.00130	0.00023	0.00000	0.00000	0.00000	0.10977	0.05362	0.02857	0.02589	0.01913	0.01791
158	584271.2	4139148.7	0.00000	0.00000	0.00000	0.34244	0.12574	0.04005	0.0308	0.00572	0.00127	0.00000	0.00000	0.00000	0.10273	0.03772	0.01202	0.00924	0.00172	0.00038	0.10273	0.04035	0.01755	0.00429	0.00021	0.01211	0.00527	0.00129	0.00021	0.00000	0.00000	0.00000	0.12160	0.05659	0.03089	0.02811	0.02059	0.01925
159	584278.1	4139154.4	0.00000	0.00000	0.00000	0.38175	0.13017	0.04367	0.03419	0.00621	0.00137	0.00000	0.00000	0.00000	0.11453	0.03905	0.01310	0.01026	0.00186	0.00041	0.11453	0.04598	0.01616	0.00424	0.00019	0.01379	0.00485	0.00127	0.00019	0.00000	0.00000	0.00000	0.13463	0.05916	0.03321	0.03036	0.02197	0.02052
160	584251.6	4139144.2	0.00000	0.00000	0.00000	0.28051	0.11952	0.03446	0.02551	0.00489	0.00111	0.00000	0.00000	0.00000	0.08415	0.03586	0.01034	0.00765	0.00147	0.00033	0.08415	0.03134	0.01651	0.00446	0.00022	0.00940	0.00495	0.00134	0.00022	0.00000	0.00000	0.00000	0.10007	0.05177	0.02625	0.02357	0.01738	0.01625
161	584258.5	4139150.0	0.00000	0.00000	0.00000	0.31308	0.12724	0.03771	0.02832	0.00532	0.00119	0.00000	0.00000	0.00000	0.09392	0.03817	0.01131	0.00850	0.00160	0.00036	0.09392	0.03509	0.01746	0.0044	0.00022	0.01053	0.00524	0.00132	0.00022	0.00000	0.00000	0.00000	0.11123	0.05547	0.02862	0.02580	0.01890	0.01766
162	584265.5	4139155.7	0.00000	0.00000	0.00000	0.35064	0.13399	0.04132	0.03155	0.00579	0.00128	0.00000	0.00000	0.00000	0.10519	0.04020	0.01240	0.00947	0.00174	0.00038	0.10519	0.0397	0.01731	0.00434	0.00021	0.01191	0.00519	0.00130	0.00021	0.00000	0.00000	0.00000	0.12380	0.05881	0.03101	0.02808	0.02035	0.01900
163	584272.4	4139161.4	0.00000	0.00000	0.00000	0.39395	0.13958	0.04535	0.03529	0.0063	0.00138	0.00000	0.00000	0.00000	0.11819	0.04187	0.01361	0.01059	0.00189	0.00041	0.11819	0.0449	0.01607	0.0043	0.00019	0.01347	0.00482	0.00129	0.00019	0.00000	0.00000	0.00000	0.13795	0.06164	0.03337	0.03036	0.02166	0.02018
164	584245.9	4139151.2	0.00000	0.00000	0.00000	0.28362	0.12537	0.03516	0.02582	0.0049	0.00111	0.00000	0.00000	0.00000	0.08509	0.03761	0.01055	0.00775	0.00147	0.00033	0.08509	0.03114	0.01567	0.00452	0.00020	0.00934	0.00470	0.00136	0.00020	0.00000	0.00000	0.00000	0.10069	0.05321	0.02615	0.02335	0.01707	0.01593
165	584252.8	4139156.9	0.00000	0.00000	0.00000	0.31764	0.13455	0.03862	0.02875	0.00535	0.0012	0.00000	0.00000	0.00000	0.09529	0.04037	0.01159	0.00863	0.00161	0.00036	0.09529	0.03478	0.01671	0.00446	0.00020	0.01043	0.00501	0.00134	0.00020	0.00000	0.00000	0.00000	0.11228	0.05735	0.02857	0.02561	0.01859	0.01735
166	584259.8	4139162.6	0.00000	0.00000	0.00000	0.35721	0.14272	0.04249	0.03216	0.00584	0.00129	0.00000	0.00000	0.00000	0.10716	0.04282	0.01275	0.00965	0.00175	0.00039	0.10716	0.03922	0.01672	0.0044	0.00020	0.01177	0.00502	0.00132	0.00020	0.00000	0.00000	0.00000	0.12546	0.06111	0.03105	0.02795	0.02005	0.01869
167	584266.7	4139168.3	0.00000	0.00000	0.00000	0.40354	0.14961	0.04686	0.03617	0.00638	0.00139	0.00000	0.00000	0.00000	0.12106	0.04488	0.01406	0.01085	0.00191	0.00042	0.12106	0.04408	0.01568	0.00435	0.00018	0.01322	0.00470	0.00131	0.00018	0.00000	0.00000	0.00000	0.14048	0.06430	0.03347	0.03027	0.02133	0.01983
168	584240.1	4139158.2	0.00000	0.00000	0.00000	0.28605	0.13122	0.03581	0.02606	0.00491	0.00111	0.00000	0.00000	0.00000	0.08582	0.03937	0.01074	0.00782	0.00147	0.00033	0.08582	0.03105	0.01474	0.00458	0.00019	0.00932	0.00442	0.00137	0.00019	0.00000	0.00000	0.00000	0.10111	0.05466	0.02604	0.02312	0.01677	0.01563
169	584247.1	4139163.9	0.00000	0.00000	0.00000	0.32112	0.14205	0.03946	0.02908	0.00537	0.0012	0.00000	0.00000	0.00000	0.09634	0.04262	0.01184	0.00872	0.00161	0.00036	0.09634	0.03462	0.01577	0.00452	0.00019	0.01039	0.00473	0.00136	0.00019	0.00000	0.00000	0.00000	0.11300	0.05928	0.02850	0.02539	0.01827	0.01702
170	584254.1	4139169.6	0.00000	0.00000	0.00000	0.36218	0.15191	0.04355	0.03262	0.00588	0.00129	0.00000	0.00000	0.00000	0.10865	0.04557	0.01307	0.00979	0.00176	0.00039	0.10865	0.03897	0.01586	0.00446	0.00018	0.01169	0.00476	0.00134	0.00018	0.00000	0.00000	0.00000	0.12663	0.06354	0.03104	0.02776	0.01974	0.01836
171	584261.0	4139175.3	0.00000	0.00000	0.00000	0.41062	0.16036	0.04819	0.03682	0.00644	0.00139	0.00000	0.00000	0.00000	0.12319	0.04811	0.01446	0.01105	0.00193	0.00042	0.12319	0.04368	0.01501	0.00441	0.00018	0.01310	0.00450	0.00132	0.00018	0.00000	0.00000	0.00000	0.14229	0.06721	0.03356	0.03015	0.02104	0.01952
172	584234.4	4139165.1	0.00000	0.00000	0.00000	0.28789	0.13696	0.0364	0.02626	0.00492	0.00111	0.00000	0.00000	0.00000	0.08637	0.04109	0.01092	0.00788	0.00148	0.00033	0.08637	0.03104	0.01376	0.00464	0.00017	0.00931	0.00413	0.00139	0.00017	0.00000	0.00000	0.00000	0.10137	0.05609	0.02593	0.02288	0.01648	0.01534
173	584241.4	4139170.8	0.00000	0.00000	0.00000	0.32381	0.1497	0.04023	0.02935	0.00539	0.0012	0.00000	0.00000	0.00000	0.09714	0.04491	0.01207	0.00881	0.00162	0.00036	0.09714	0.03458	0.01473	0.00458	0.00017	0.01037	0.00442	0.00137	0.00017	0.00000	0.00000	0.00000	0.11348	0.06125	0.02841	0.02515	0.01796	0.01670
174	584248.3	4139176.5	0.00000	0.00000	0.00000	0.36595	0.16159	0.04453	0.03298	0.00591	0.0013	0.00000	0.00000	0.00000	0.10979	0.04848	0.01336	0.00989	0.00177	0.00039	0.10979	0.03891	0.01486	0.00452	0.00017	0.01167	0.00446	0.00136	0.00017	0.00000	0.00000	0.00000	0.12744	0.06614	0.03102	0.02755	0.01943	0.01805
175	584255.3	4139182.2	0.00000	0.00000	0.00000	0.41571	0.17193	0.04941	0.03729	0.00649	0.0014	0.00000	0.00000	0.00000	**0.12471**	0.05158	0.01482	0.01119	0.00195	0.00042	**0.12471**	0.04357	0.01416	0.00447	0.00017	0.01307	0.00425	0.00134	0.00017	0.00000	0.00000	0.00000	**0.14354**	0.07040	0.03365	0.03001	0.02077	0.01925
176	584101.9	4139406.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00097	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00029	0.00029	0.04064	0.00572	0.00629	0.00019	0.01219	0.00172	0.00189	0.00019	0.00000	0.00000	0.00000	0.01599	0.01599	0.01599	0.01599	0.01599	0.01628
177	584109.0	4139401.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00117	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00035	0.00035	0.0375	0.00636	0.00622	0.00022	0.01125	0.00191	0.00187	0.00022	0.00000	0.00000	0.00000	0.01524	0.01524	0.01524	0.01524	0.01524	0.01559
178	584116.1	4139395.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00137	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00041	0.00041	0.03514	0.00737	0.00615	0.00025	0.01054	0.00221	0.00185	0.00025	0.00000	0.00000	0.00000	0.01485	0.01485	0.01485	0.01485	0.01485	0.01526
179	584123.2	4139390.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00156	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00047	0.00047	0.03336	0.00778	0.00608	0.00030	0.01001	0.00233	0.00182	0.00030	0.00000	0.00000	0.00000	0.01446	0.01446	0.01446	0.01446	0.01446	0.01493
180	584130.2	4139384.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00175	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00053	0.00053	0.03205	0.00829	0.006	0.00035	0.00962	0.00249	0.00180	0.00035	0.00000	0.00000	0.00000	0.01425	0.01425	0.01425	0.01425	0.01425	0.01477
181	584137.3	4139378.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00192	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00058	0.00058	0.03111	0.00894	0.00593	0.00038	0.00933	0.00268	0.00178	0.00038	0.00000	0.00000	0.00000	0.01417	0.01417	0.01417	0.01417	0.01417	0.01475
182	584144.4	4139373.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00207	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00062	0.00062	0.0304	0.00927	0.00585	0.00038	0.00912	0.00278	0.00176	0.00038	0.00000	0.00000	0.00000	0.01404	0.01404	0.01404	0.01404	0.01404	0.01466
183	584151.5	4139367.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00221	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00066	0.00066	0.02986	0.00996	0.00577	0.00038	0.00896	0.00299	0.00173	0.00038	0.00000	0.00000	0.00000	0.01406	0.01406	0.01406	0.01406	0.01406	0.01472
184	584107.4	4139413.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00123	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00037	0.00037	0.0379	0.00579	0.0061	0.00019	0.01137	0.00174	0.00183	0.00019	0.00000	0.00000	0.00000	0.01513	0.01513	0.01513	0.01513	0.01513	0.01550
185	584114.5	4139408.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00149	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00045	0.00045	0.03493	0.0064	0.00605	0.00022	0.01048	0.00192	0.00182	0.00022	0.00000	0.00000	0.00000	0.01443	0.01443	0.01443	0.01443	0.01443	0.01488
186	584121.6	4139402.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00173	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00052	0.00052	0.03267	0.0073	0.00599	0.00024	0.00980	0.00219	0.00180	0.00024	0.00000	0.00000	0.00000	0.01403	0.01403	0.01403	0.01403	0.01403	0.01455
187	584128.7	4139397.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00196	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00059	0.00059	0.03093	0.00778	0.00593	0.00028	0.00928	0.00233	0.00178	0.00028	0.00000	0.00000	0.00000	0.01367	0.01367	0.01367	0.01367	0.01367	0.01426
188	584135.8	4139391.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00216	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00065	0.00065	0.02963	0.0084	0.00586	0.00031	0.00889	0.00252	0.00176	0.00031	0.00000	0.00000	0.00000	0.01347	0.01347	0.01347	0.01347	0.01347	0.01412
189	584142.9	4139386.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00234	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00070	0.00070	0.02867	0.00886	0.0058	0.00032	0.00860	0.00266	0.00174	0.00032	0.00000	0.00000	0.00000	0.01332	0.01332	0.01332	0.01332	0.01332	0.01403
190	584150.0	4139380.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0025	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00075	0.00075	0.02795	0.0093	0.00573	0.00033	0.00839	0.00279	0.00172	0.00033	0.00000	0.00000	0.00000	0.01322	0.01322	0.01322	0.01322	0.01322	0.01397
191	584157.1	4139374.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00263	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00079	0.00079	0.0274	0.00971	0.00566	0.00032	0.00822	0.00291	0.00170	0.00032	0.00000	0.00000	0.00000	0.01316	0.01316	0.01316	0.01316	0.01316	0.01394
192	584113.0	4139420.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00163	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00049	0.00049	0.03547	0.00576	0.00592	0.00019	0.01064	0.00173	0.00178	0.00019	0.00000	0.00000	0.00000	0.01433	0.01433	0.01433	0.01433	0.01433	0.01482
193	584120.1	4139415.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00194	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00058	0.00058	0.03272	0.00633	0.00588	0.00021	0.00982	0.00190	0.00176	0.00021	0.00000	0.00000	0.00000	0.01369	0.01369	0.01369	0.01369	0.01369	0.01427
194	584127.2	4139409.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00223	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00067	0.00067	0.03056	0.00714	0.00583	0.00023	0.00917	0.00214	0.00175	0.00023	0.00000	0.00000	0.00000	0.01329	0.01329	0.01329	0.01329	0.01329	0.01396
195	584134.2	4139404.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00247	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00074	0.00074	0.0289	0.00781	0.00578	0.00025	0.00867	0.00234	0.00173	0.00025	0.00000	0.00000	0.00000	0.01300	0.01300	0.01300	0.01300	0.01300	0.01374
196	584141.3	4139398.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00268	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00080	0.00080	0.02765	0.00826	0.00572	0.00027	0.00830	0.00248	0.00172	0.00027	0.00000	0.00000	0.00000	0.01276	0.01276	0.01276	0.01276	0.01276	0.01356
197	584148.4	4139393.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00286	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00086	0.00086	0.02671	0.0086	0.00566	0.00028	0.00801	0.00258	0.00170	0.00028	0.00000	0.00000	0.00000	0.01257	0.01257	0.01257	0.01257	0.01257	0.01343
198	584155.5	4139387.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.003	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00090	0.00090	0.02599	0.00902	0.0056	0.00029	0.00780	0.00271	0.00168	0.00029	0.00000	0.00000	0.00000	0.01247	0.01247	0.01247	0.01247	0.01247	0.01337
199	584162.6	4139382.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00313	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00094	0.00094	0.02544	0.00937	0.00554	0.00029	0.00763	0.00281	0.00166	0.00029	0.00000	0.00000	0.00000	0.01239	0.01239	0.01239	0.01239	0.01239	0.01333
200	584118.5	4139427.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00224	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00067	0.00067	0.03332	0.00567	0.00574	0.00018	0.01000	0.00170	0.00172	0.00018	0.00000	0.00000	0.00000	0.01360	0.01360	0.01360	0.01360	0.01360	0.01427
201	584125.6	4139422.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0026	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00078	0.00078	0.03077	0.00612	0.00571	0.00019	0.00923	0.00184	0.00171	0.00019	0.00000	0.00000	0.00000	0.01297	0.01297	0.01297	0.01297	0.01297	0.01375
202	584132.7	4139416.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00289	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00087	0.00087	0.02875	0.00689	0.00567	0.00021	0.00863	0.00207	0.00170	0.00021	0.00000	0.00000	0.00000	0.01260	0.01260	0.01260	0.01260	0.01260	0.01347
203	584139.8	4139411.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00313	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00094	0.00094	0.02719	0.00755	0.00563	0.00023	0.00816	0.00227	0.00169	0.00023	0.00000	0.00000	0.00000	0.01234	0.01234	0.01234	0.01234	0.01234	0.01328
204	584146.9	4139405.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00333	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00100	0.00100	0.026	0.00792	0.00558	0.00024	0.00780	0.00238	0.00167	0.00024	0.00000	0.00000	0.00000	0.01209	0.01209	0.01209	0.01209	0.01209	0.01309
205	584154.0	4139400.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00348	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00104	0.00104	0.02508	0.00809	0.00553	0.00025	0.00752	0.00243	0.00166	0.00025	0.00000	0.00000	0.00000	0.01186	0.01186	0.01186	0.01186	0.01186	0.01290
206	584161.1	4139394.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00361	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00108	0.00108	0.02437	0.00842	0.00548	0.00026	0.00731	0.00253	0.00164	0.00026	0.00000	0.00000	0.00000	0.01174	0.01174	0.01174	0.01174	0.01174	0.01282
207	584168.1	4139389.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00372	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00112	0.00112	0.02384	0.00878	0.00542	0.00027	0.00715	0.00263	0.00163	0.00027	0.00000	0.00000	0.00000	0.01168	0.01168	0.01168	0.01168	0.01168	0.01279
208	584124.1	4139435.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00322	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00097	0.00097	0.0314	0.00553	0.00557	0.00017	0.00942	0.00166	0.00167	0.00017	0.00000	0.00000	0.00000	0.01292	0.01292	0.01292	0.01292	0.01292	0.01388
209	584131.2	4139429.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00354	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00106	0.00106	0.02903	0.00584	0.00555	0.00018	0.00871	0.00175	0.00167	0.00018	0.00000	0.00000	0.00000	0.01230	0.01230	0.01230	0.01230	0.01230	0.01336
210	584138.2	4139423.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00379	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00114	0.00114	0.02715	0.00641	0.00552	0.00019	0.00815	0.00192	0.00166	0.00019	0.00000	0.00000	0.00000	0.01191	0.01191	0.01191	0.01191	0.01191	0.01305
211	584145.3	4139418.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00398	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00119	0.00119	0.0257	0.00697	0.00549	0.00020	0.00771	0.00209	0.00165	0.00020	0.00000	0.00000	0.00000	0.01165	0.01165	0.01165	0.01165	0.01165	0.01284
212	584152.4	4139412.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00413	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00124	0.00124	0.02457	0.00739	0.00545	0.00021	0.00737	0.00222	0.00164	0.00021	0.00000	0.00000	0.00000	0.01144	0.01144	0.01144	0.01144	0.01144	0.01268
213	584159.5	4139407.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00425	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00128	0.00128	0.0237	0.00747	0.0054	0.00022	0.00711	0.00224	0.00162	0.00022	0.00000	0.00000	0.00000	0.01120	0.01120	0.01120	0.01120	0.01120	0.01247
214	584166.6	4139401.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00435	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00131	0.00131	0.02303	0.00765	0.00536	0.00023	0.00691	0.00230	0.00161	0.00023	0.00000	0.00000	0.00000	0.01105	0.01105	0.01105	0.01105	0.01105	0.01235
215	584173.7	4139396.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00442	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00133	0.00133	0.02251	0.00793	0.00531	0.00025	0.00675	0.00238	0.00159	0.00025	0.00000	0.00000	0.00000	0.01097	0.01097	0.01097	0.01097	0.01097	0.01230
216	584092.3	4139379.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00065	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00020	0.00020	0.04797	0.01048	0.00674	0.00035	0.01439	0.00314	0.00202	0.00035	0.00000	0.00000	0.00000	0.01991	0.01991	0.01991	0.01991	0.01991	0.02010
217	584099.4	4139374.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00075	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00023	0.00023	0.04586	0.01787	0.00664	0.00328	0.01376	0.00536	0.00199	0.00328	0.00000	0.00000	0.00000	0.02439	0.02439	0.02439	0.02439	0.02439	0.02462
218	584106.5	4139368.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00086	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00026	0.00026	0.0444	0.01123	0.00653	0.00099	0.01332	0.00337	0.00196	0.00099	0.00000	0.00000	0.00000	0.01964	0.01964	0.01964	0.01964	0.01964	0.01990
219	584113.6	4139363.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00097	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00029	0.00029	0.04338	0.03447	0.00643	0.00052	0.01301	0.01034	0.00193	0.00052	0.00000	0.00000	0.00000	0.02581	0.02581	0.02581	0.02581	0.02581	0.02610
220	584120.7	4139357.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00109	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00033	0.00033	0.04254	0.03065	0.00632	0.00045	0.01276	0.00920	0.00190	0.00045	0.00000	0.00000	0.00000	0.02430	0.02430	0.02430	0.02430	0.02430	0.02463
221	584127.8	4139352.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0012	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00036	0.00036	0.04189	0.0132	0.00622	0.00041	0.01257	0.00396	0.00187	0.00041	0.00000	0.00000	0.00000	0.01880	0.01880	0.01880	0.01880	0.01880	0.01916
222	584134.9	4139346.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00131	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00039	0.00039	0.04137	0.01033	0.00611	0.00039	0.01241	0.00310	0.00183	0.00039	0.00000	0.00000	0.00000	0.01774	0.01774	0.01774	0.01774	0.01774	0.01813
223	584097.9	4139386.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00077	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00023	0.00023	0.04409	0.00662	0.00657	0.00022	0.01323	0.00199	0.00197	0.00022	0.00000	0.00000	0.00000	0.01740	0.01740	0.01740	0.01740	0.01740	0.01764
224	584105.0	4139381.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0009	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00027	0.00027	0.0417	0.00686	0.00648	0.00031	0.01251	0.00206	0.00194	0.00031	0.00000	0.00000	0.00000	0.01683	0.01683	0.01683	0.01683	0.01683	0.01710
225	584112.1	4139375.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00103	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00031	0.00031	0.04009	0.00763	0.00638	0.00043	0.01203	0.00229	0.00191	0.00043	0.00000	0.00000	0.00000	0.01666	0.01666	0.01666	0.01666	0.01666	0.01697
226	584119.2	4139370.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00117	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00035	0.00035	0.03892	0.00853	0.00629	0.00045	0.01168	0.00256	0.00189	0.00045	0.00000	0.00000	0.00000	0.01657	0.01657	0.01657	0.01657	0.01657	0.01693
227	584126.2	4139364.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0013	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00039	0.00039	0.03805	0.01003	0.00619	0.00046	0.01142	0.00301	0.00186	0.00046	0.00000	0.00000	0.00000	0.01674	0.01674	0.01674	0.01674	0.01674	0.01713
228	584133.3	4139359.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00143	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00043	0.00043	0.03739	0.01039	0.00609	0.00045	0.01122	0.00312	0.00183	0.00045	0.00000	0.00000	0.00000	0.01661	0.01661	0.01661	0.01661	0.01661	0.01704
229	584140.4	4139353.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00156	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00047	0.00047	0.03688	0.01025	0.006	0.00045	0.01106	0.00308	0.00180	0.00045	0.00000	0.00000	0.00000	0.01639	0.01639	0.01639	0.01639	0.01639	0.01686
230	584098.2	4139397.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00083	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00025	0.00025	0.04285	0.00581	0.00646	0.00020	0.01286	0.00174	0.00194	0.00020	0.00000	0.00000	0.00000	0.01673	0.01673	0.01673	0.01673	0.01673	0.01698
231	584103.4	4139394.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00094	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00028	0.00028	0.04054	0.00619	0.0064	0.00022	0.01216	0.00186	0.00192	0.00022	0.00000	0.00000	0.00000	0.01615	0.01615	0.01615	0.01615	0.01615	0.01644
232	584110.5	4139388.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0011	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00033	0.00033	0.0381	0.00713	0.00631	0.00026	0.01143	0.00214	0.00189	0.00026	0.00000	0.00000	0.00000	0.01572	0.01572	0.01572	0.01572	0.01572	0.01605
233	584117.6	4139382.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00126	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00038	0.00038	0.03637	0.00777	0.00623	0.00032	0.01091	0.00233	0.00187	0.00032	0.00000	0.00000	0.00000	0.01543	0.01543	0.01543	0.01543	0.01543	0.01581
234	584124.7	4139377.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00142	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00043	0.00043	0.0351	0.00815	0.00615	0.00039	0.01053	0.00245	0.00185	0.00039	0.00000	0.00000	0.00000	0.01521	0.01521	0.01521	0.01521	0.01521	0.01564
235	584131.8	4139371.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00158	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00047	0.00047	0.03418	0.00886	0.00606	0.00043	0.01025	0.00266	0.00182	0.00043	0.00000	0.00000	0.00000	0.01516	0.01516	0.01516	0.01516	0.01516	0.01563
236	584138.9	4139366.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00172	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00052	0.00052	0.0335	0.00962	0.00597	0.00044	0.01005	0.00289	0.00179	0.00044	0.00000	0.00000	0.00000	0.01516	0.01516	0.01516	0.01516	0.01516	0.01568
237	584146.0	4139360.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00185	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00056	0.00056	0.03298	0.00998	0.00588	0.00043	0.00989	0.00299	0.00176	0.00043	0.00000	0.00000	0.00000	0.01509	0.01509	0.01509	0.01509	0.01509	0.01564
238	584179.5	4139343.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00247	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00074	0.00074	0.02815	0.01552	0.00545	0.00039	0.00845	0.00466	0.00164	0.00039	0.00000	0.00000	0.00000	0.01513	0.01513	0.01513	0.01513	0.01513	0.01587
239	584186.6	4139337.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00253	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00076	0.00076	0.02799	0.0171	0.00537	0.00041	0.00840	0.00513	0.00161	0.00041	0.00000	0.00000	0.00000	0.01555	0.01555	0.01555	0.01555	0.01555	0.01630
240	584193.6	4139331.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00259	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00078	0.00078	0.02787	0.0185	0.00529	0.00043	0.00836	0.00555	0.00159	0.00043	0.00000	0.00000	0.00000	0.01593	0.01593	0.01593	0.01593	0.01593	0.01670
241	584200.7	4139326.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00264	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00079	0.00079	0.02779	0.01958	0.00521	0.00045	0.00834	0.00587	0.00156	0.00045	0.00000	0.00000	0.00000	0.01622	0.01622	0.01622	0.01622	0.01622	0.01701
242	584207.8	4139320.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00268	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00080	0.00080	0.02773	0.02026	0.00514	0.00046	0.00832	0.00608	0.00154	0.00046	0.00000	0.00000	0.00000	0.01640	0.01640	0.01640	0.01640	0.01640	0.01721
243	584214.8	4139315.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00272	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00082	0.00082	0.02771	0.02059	0.00507	0.00047	0.00831	0.00618	0.00152	0.00047	0.00000	0.00000	0.00000	0.01648	0.01648	0.01648	0.01648	0.01648	0.01730
244	584221.9	4139309.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00274	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00082	0.00082	0.02773	0.02063	0.00499	0.00047	0.00832	0.00619	0.00150	0.00047	0.00000	0.00000	0.00000	0.01647	0.01647	0.01647	0.01647	0.01647	0.01729
245	584178.0	4139355.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00277	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00083	0.00083	0.02608	0.01346	0.00543	0.00036	0.00782	0.00404	0.00163	0.00036	0.00000	0.00000	0.00000	0.01386	0.01386	0.01386	0.01386	0.01386	0.01469

Receptor	Receptor Coordinates		Construction PM2.5 ($\mu g/m^3$) Total PM2.5 Concentrations (Fugitive + Exhaust) by Year									Construction PM2.5 ($\mu g/m^3$) - With Use of MERV-13 Total PM2.5 Concentrations (Fugitive + Exhaust) by Year									Maximum Construction PM2.5 Conc. MERV-13 Filtration	Project Operation PM2.5 ($\mu g/m^3$) Without MERV-13				Project Operation PM2.5 ($\mu g/m^3$) With MERV-13				Total Construction + Operation PM2.5 ($\mu g/m^3$) With Use of MERV-13								
No.	UTM-X (m)	UTM-Y (m)	2023	2024	2025	2026	2027	2028	2029	2030	2031	2023	2024	2025	2026	2027	2028	2029	2030	2031	2026-2031	Local Roads 2026-2055	Project Generators 2026-2055	Cooling Tower 2026-2055	Char-broilers 2026-2055	Local Roads 2026-2055	Project Generators 2026-2055	Cooling Tower 2026-2055	Char-broilers 2026-2055	2023	2024	2025	2026	2027	2028	2029	2030	2031
246	584185.1	4139350.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00284	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00085	0.00085	0.0259	0.01501	0.00536	0.00039	0.00777	0.00450	0.00161	0.00039	0.00000	0.00000	0.00000	0.01427	0.01427	0.01427	0.01427	0.01427	0.01512
247	584192.1	4139344.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00289	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00087	0.00087	0.02576	0.01645	0.00529	0.00041	0.00773	0.00494	0.00159	0.00041	0.00000	0.00000	0.00000	0.01466	0.01466	0.01466	0.01466	0.01466	0.01553
248	584199.2	4139339.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00294	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00088	0.00088	0.02568	0.01769	0.00521	0.00043	0.00770	0.00531	0.00156	0.00043	0.00000	0.00000	0.00000	0.01500	0.01500	0.01500	0.01500	0.01500	0.01589
249	584206.3	4139333.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00298	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00089	0.00089	0.02563	0.01861	0.00514	0.00045	0.00769	0.00558	0.00154	0.00045	0.00000	0.00000	0.00000	0.01526	0.01526	0.01526	0.01526	0.01526	0.01615
250	584213.3	4139327.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00301	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00090	0.00090	0.02562	0.01917	0.00507	0.00045	0.00769	0.00575	0.00152	0.00045	0.00000	0.00000	0.00000	0.01541	0.01541	0.01541	0.01541	0.01541	0.01631
251	584220.4	4139322.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00304	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00091	0.00091	0.02566	0.01941	0.005	0.00045	0.00770	0.00582	0.00150	0.00045	0.00000	0.00000	0.00000	0.01547	0.01547	0.01547	0.01547	0.01547	0.01639
252	584227.5	4139316.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00306	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00092	0.00092	0.02575	0.01937	0.00493	0.00044	0.00773	0.00581	0.00148	0.00044	0.00000	0.00000	0.00000	0.01546	0.01546	0.01546	0.01546	0.01546	0.01637
253	584183.6	4139362.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0032	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00096	0.00096	0.02423	0.01243	0.00534	0.00035	0.00727	0.00373	0.00160	0.00035	0.00000	0.00000	0.00000	0.01295	0.01295	0.01295	0.01295	0.01295	0.01391
254	584190.7	4139357.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00326	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00098	0.00098	0.02407	0.01389	0.00527	0.00037	0.00722	0.00417	0.00158	0.00037	0.00000	0.00000	0.00000	0.01334	0.01334	0.01334	0.01334	0.01334	0.01432
255	584197.7	4139351.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0033	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00099	0.00099	0.02397	0.01521	0.0052	0.00039	0.00719	0.00456	0.00156	0.00039	0.00000	0.00000	0.00000	0.01371	0.01371	0.01371	0.01371	0.01371	0.01470
256	584204.8	4139346.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00334	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00100	0.00100	0.02392	0.0163	0.00514	0.00041	0.00718	0.00489	0.00154	0.00041	0.00000	0.00000	0.00000	0.01402	0.01402	0.01402	0.01402	0.01402	0.01502
257	584211.9	4139340.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00337	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00101	0.00101	0.02391	0.01709	0.00507	0.00042	0.00717	0.00513	0.00152	0.00042	0.00000	0.00000	0.00000	0.01424	0.01424	0.01424	0.01424	0.01424	0.01525
258	584218.9	4139334.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00339	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00102	0.00102	0.02395	0.01758	0.005	0.00042	0.00719	0.00527	0.00150	0.00042	0.00000	0.00000	0.00000	0.01438	0.01438	0.01438	0.01438	0.01438	0.01540
259	584226.0	4139329.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0034	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00102	0.00102	0.02405	0.01783	0.00494	0.00042	0.00722	0.00535	0.00148	0.00042	0.00000	0.00000	0.00000	0.01446	0.01446	0.01446	0.01446	0.01446	0.01548
260	584233.1	4139323.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00341	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00102	0.00102	0.02419	0.0182	0.00487	0.00041	0.00726	0.00546	0.00146	0.00041	0.00000	0.00000	0.00000	0.01458	0.01458	0.01458	0.01458	0.01458	0.01561
261	584189.2	4139369.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00369	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00111	0.00111	0.02273	0.01098	0.00524	0.00032	0.00682	0.00329	0.00157	0.00032	0.00000	0.00000	0.00000	0.01200	0.01200	0.01200	0.01200	0.01200	0.01311
262	584196.2	4139364.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00373	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00112	0.00112	0.0226	0.0123	0.00518	0.00034	0.00678	0.00369	0.00155	0.00034	0.00000	0.00000	0.00000	0.01237	0.01237	0.01237	0.01237	0.01237	0.01349
263	584203.3	4139358.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00376	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00113	0.00113	0.02252	0.01349	0.00512	0.00036	0.00676	0.00405	0.00154	0.00036	0.00000	0.00000	0.00000	0.01270	0.01270	0.01270	0.01270	0.01270	0.01383
264	584210.4	4139353.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00379	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00114	0.00114	0.0225	0.01446	0.00506	0.00038	0.00675	0.00434	0.00152	0.00038	0.00000	0.00000	0.00000	0.01298	0.01298	0.01298	0.01298	0.01298	0.01412
265	584217.4	4139347.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0038	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00114	0.00114	0.02254	0.01517	0.00499	0.00039	0.00676	0.00455	0.00150	0.00039	0.00000	0.00000	0.00000	0.01320	0.01320	0.01320	0.01320	0.01320	0.01434
266	584224.5	4139342.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00381	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00114	0.00114	0.02263	0.01564	0.00493	0.00039	0.00679	0.00469	0.00148	0.00039	0.00000	0.00000	0.00000	0.01335	0.01335	0.01335	0.01335	0.01335	0.01449
267	584231.6	4139336.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00381	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00114	0.00114	0.02277	0.01594	0.00487	0.00038	0.00683	0.00478	0.00146	0.00038	0.00000	0.00000	0.00000	0.01345	0.01345	0.01345	0.01345	0.01345	0.01460
268	584238.6	4139330.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00381	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00114	0.00114	0.02296	0.01613	0.00481	0.00037	0.00689	0.00484	0.00144	0.00037	0.00000	0.00000	0.00000	0.01354	0.01354	0.01354	0.01354	0.01354	0.01468
269	584194.7	4139376.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00425	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00128	0.00128	0.0215	0.00929	0.00515	0.00029	0.00645	0.00279	0.00155	0.00029	0.00000	0.00000	0.00000	0.01107	0.01107	0.01107	0.01107	0.01107	0.01235
270	584201.8	4139371.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00427	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00128	0.00128	0.02139	0.01047	0.00509	0.00031	0.00642	0.00314	0.00153	0.00031	0.00000	0.00000	0.00000	0.01139	0.01139	0.01139	0.01139	0.01139	0.01268
271	584208.9	4139365.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00429	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00129	0.00129	0.02135	0.01153	0.00503	0.00033	0.00641	0.00346	0.00151	0.00033	0.00000	0.00000	0.00000	0.01170	0.01170	0.01170	0.01170	0.01170	0.01299
272	584215.9	4139360.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00429	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00129	0.00129	0.02136	0.01239	0.00498	0.00034	0.00641	0.00372	0.00149	0.00034	0.00000	0.00000	0.00000	0.01196	0.01196	0.01196	0.01196	0.01196	0.01324
273	584223.0	4139354.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00429	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00129	0.00129	0.02144	0.01304	0.00492	0.00035	0.00643	0.00391	0.00148	0.00035	0.00000	0.00000	0.00000	0.01217	0.01217	0.01217	0.01217	0.01217	0.01345
274	584230.1	4139349.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00428	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00128	0.00128	0.02156	0.01344	0.00486	0.00035	0.00647	0.00403	0.00146	0.00035	0.00000	0.00000	0.00000	0.01230	0.01230	0.01230	0.01230	0.01230	0.01359
275	584237.1	4139343.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00427	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00128	0.00128	0.02175	0.01361	0.0048	0.00034	0.00653	0.00408	0.00144	0.00034	0.00000	0.00000	0.00000	0.01239	0.01239	0.01239	0.01239	0.01239	0.01367
276	584244.2	4139337.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00425	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00128	0.00128	0.02199	0.01348	0.00475	0.00033	0.00660	0.00404	0.00143	0.00033	0.00000	0.00000	0.00000	0.01240	0.01240	0.01240	0.01240	0.01240	0.01367
277	584155.7	4139327.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00154	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00046	0.00046	0.03747	0.01153	0.0058	0.00050	0.01124	0.00346	0.00174	0.00050	0.00000	0.00000	0.00000	0.01694	0.01694	0.01694	0.01694	0.01694	0.01741
278	584162.8	4139321.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00162	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00049	0.00049	0.03727	0.01296	0.0057	0.00067	0.01118	0.00389	0.00171	0.00067	0.00000	0.00000	0.00000	0.01745	0.01745	0.01745	0.01745	0.01745	0.01794
279	584169.9	4139316.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00169	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00051	0.00051	0.0371	0.01455	0.00561	0.00165	0.01113	0.00437	0.00168	0.00165	0.00000	0.00000	0.00000	0.01883	0.01883	0.01883	0.01883	0.01883	0.01933
280	584176.9	4139310.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00176	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00053	0.00053	0.03697	0.01625	0.00551	0.00121	0.01109	0.00488	0.00165	0.00121	0.00000	0.00000	0.00000	0.01883	0.01883	0.01883	0.01883	0.01883	0.01936
281	584184.0	4139305.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00183	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00055	0.00055	0.03687	0.01814	0.00542	0.00043	0.01106	0.00544	0.00163	0.00043	0.00000	0.00000	0.00000	0.01855	0.01855	0.01855	0.01855	0.01855	0.01910
282	584191.0	4139299.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00188	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00056	0.00056	0.03678	0.02125	0.00533	0.00037	0.01103	0.00638	0.00160	0.00037	0.00000	0.00000	0.00000	0.01938	0.01938	0.01938	0.01938	0.01938	0.01994
283	584198.1	4139294.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00193	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00058	0.00058	0.0367	0.03792	0.00525	0.00037	0.01101	0.01138	0.00158	0.00037	0.00000	0.00000	0.00000	0.02434	0.02434	0.02434	0.02434	0.02434	0.02491
284	584205.2	4139288.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00198	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00059	0.00059	0.0366	0.02949	0.00516	0.00038	0.01098	0.00885	0.00155	0.00038	0.00000	0.00000	0.00000	0.02176	0.02176	0.02176	0.02176	0.02176	0.02235
285	584161.3	4139334.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00178	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00053	0.00053	0.03434	0.01283	0.00571	0.00052	0.01030	0.00385	0.00171	0.00052	0.00000	0.00000	0.00000	0.01638	0.01638	0.01638	0.01638	0.01638	0.01692
286	584168.4	4139328.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00186	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00056	0.00056	0.03412	0.01442	0.00562	0.00048	0.01024	0.00433	0.00169	0.00048	0.00000	0.00000	0.00000	0.01673	0.01673	0.01673	0.01673	0.01673	0.01728
287	584175.4	4139323.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00194	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00058	0.00058	0.03394	0.01616	0.00553	0.00043	0.01018	0.00485	0.00166	0.00043	0.00000	0.00000	0.00000	0.01712	0.01712	0.01712	0.01712	0.01712	0.01770
288	584182.5	4139317.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00201	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00060	0.00060	0.03379	0.01806	0.00544	0.00038	0.01014	0.00542	0.00163	0.00038	0.00000	0.00000	0.00000	0.01757	0.01757	0.01757	0.01757	0.01757	0.01817
289	584189.6	4139312.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00207	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00062	0.00062	0.03366	0.02002	0.00536	0.00040	0.01010	0.00601	0.00161	0.00040	0.00000	0.00000	0.00000	0.01811	0.01811	0.01811	0.01811	0.01811	0.01873
290	584196.6	4139306.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00212	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00064	0.00064	0.03354	0.02164	0.00527	0.00041	0.01006	0.00649	0.00158	0.00041	0.00000	0.00000	0.00000	0.01854	0.01854	0.01854	0.01854	0.01854	0.01918
291	584203.7	4139301.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00216	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00065	0.00065	0.03343	0.0221	0.00519	0.00042	0.01003	0.00663	0.00156	0.00042	0.00000	0.00000	0.00000	0.01863	0.01863	0.01863	0.01863	0.01863	0.01928
292	584210.8	4139295.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00221	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00066	0.00066	0.03332	0.02159	0.00511	0.00043	0.01000	0.00648	0.00153	0.00043	0.00000	0.00000	0.00000	0.01844	0.01844	0.01844	0.01844	0.01844	0.01910
293	584166.9	4139341.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00206	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00062	0.00062	0.03112	0.01367	0.00562	0.00041	0.00934	0.00410	0.00169	0.00041	0.00000	0.00000	0.00000	0.01554	0.01554	0.01554	0.01554	0.01554	0.01616
294	584173.9	4139336.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00215	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00065	0.00065	0.03091	0.01536	0.00553	0.00040	0.00927	0.00461	0.00166	0.00040	0.00000	0.00000	0.00000	0.01594	0.01594	0.01594	0.01594	0.01594	0.01658
295	584181.0	4139330.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00222	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00067	0.00067	0.03074	0.01707	0.00545	0.00039	0.00922	0.00512	0.00164	0.00039	0.00000	0.00000	0.00000	0.01637	0.01637	0.01637	0.01637	0.01637	0.01704
296	584188.1	4139324.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00228	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00068	0.00068	0.03059	0.01866	0.00537	0.00041	0.00918	0.00560	0.00161	0.00041	0.00000	0.00000	0.00000	0.01679	0.01679	0.01679	0.01679	0.01679	0.01748
297	584195.1	4139319.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00234	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00070	0.00070	0.03047	0.01997	0.00529	0.00043	0.00914	0.00599	0.00159	0.00043	0.00000	0.00000	0.00000	0.01714	0.01714	0.01714	0.01714	0.01714	0.01785
298	584202.2	4139313.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00238	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00071	0.00071	0.03037	0.02084	0.00521	0.00044	0.00911	0.00625	0.00156	0.00044	0.00000	0.00000	0.00000	0.01737	0.01737	0.01737	0.01737	0.01737	0.01808
299	584209.3	4139308.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00242	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00073	0.00073	0.03029	0.02122	0.00513	0.00046	0.00909	0.00637	0.00154	0.00046	0.00000	0.00000	0.00000	0.01745	0.01745	0.01745	0.01745	0.01745	0.01817
300	584216.3	4139302.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00246	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00074	0.00074	0.03024	0.02136	0.00505	0.00047	0.00907	0.00641	0.00152	0.00047	0.00000	0.00000	0.00000	0.01746	0.01746	0.01746	0.01746	0.01746	0.01820
301	584172.4	4139348.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00239	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00072	0.00072	0.02835	0.01395	0.00553	0.00038	0.00851	0.00419	0.00166	0.00038	0.00000	0.00000	0.00000	0.01473	0.01473	0.01473	0.01473	0.01473	0.01545
302	584258.1	4139291.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0031	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00093	0.00093	0.0273	0.01609	0.00466	0.00035	0.00819	0.00483	0.00140	0.00035	0.00000	0.00000	0.00000	0.01477	0.01477	0.01477	0.01477	0.01477	0.01570
303	584265.1	4139286.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00309	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00093	0.00093	0.02777	0.01452	0.0046	0.00033	0.00833	0.00436	0.00138	0.00033	0.00000	0.00000	0.00000	0.01440	0.01440	0.01440	0.01440	0.01440	0.01533
304	584272.0	4139280.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00308	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00092	0.00092	0.02834	0.01324	0.00454	0.00031	0.00850	0.00397	0.00136	0.00031	0.00000	0.00000	0.00000	0.01415	0.01415	0.01415	0.01415	0.01415	0.01507
305	584279.0	4139274.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00306	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00092	0.00092	0.02902	0.01215	0.00448	0.00029	0.00871	0.00365	0.00134	0.00029	0.00000	0.00000	0.00000	0.01399	0.01399	0.01399	0.01399	0.01399	0.01491
306	584286.0	4139269.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00305	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00092	0.00092	0.02985	0.01075	0.00442	0.00027	0.00896	0.00323	0.00133	0.00027	0.00000	0.00000	0.00000	0.01378	0.01378	0.01378	0.01378	0.01378	0.01469
307	584292.9	4139263.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00303	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00091	0.00091	0.03087	0.00907	0.00436	0.00025	0.00926	0.00272	0.00131	0.00025	0.00000	0.00000	0.00000	0.01354	0.01354	0.01354	0.01354	0.01354	0.01444
308	584299.9	4139257.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.003	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00090	0.00090	0.03208	0.00795	0.00431	0.00022	0.00962	0.00239	0.00129	0.00022	0.00000	0.00000	0.00000	0.01352	0.01352	0.01352	0.01352	0.01352	0.01442
309	584306.9	4139252.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00297	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00089	0.00089	0.03346	0.00724	0.00425	0.00020	0.01004	0.00217	0.00128	0.00020	0.00000	0.00000	0.00000	0.01369	0.01369	0.01369	0.01369	0.01369	0.01458
310	584256.8	4139304.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00342	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00103	0.00103	0.02549	0.01806	0.00467	0.00034	0.00765	0.00542	0.00140	0.00034	0.00000	0.00000	0.00000	0.01481	0.01481	0.01481	0.01481	0.01481	0.01584
311	584263.8	4139298.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00341	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00102	0.00102	0.02595	0.01422	0.00461	0.00033	0.00779	0.00427	0.00138	0.00033	0.00000	0.00000	0.00000	0.01376	0.01376	0.01376	0.01376	0.01376	0.01478
312	584270.8	4139293.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00339	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00102	0.00102	0.0265	0.01288	0.00455	0.00031	0.00795	0.00386	0.00137	0.00031	0.00000	0.00000	0.00000	0.01349	0.01349	0.01349	0.01349	0.01349	0.01450
313	584277.7	4139287.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00337	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00101	0.00101	0.02717	0.01195	0.0045	0.00029	0.00815	0.00359	0.00135	0.00029	0.00000	0.00000	0.00000	0.01337	0.01337	0.01337	0.01337	0.01337	0.01439
314	584284.7	4139281.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00335	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00101	0.00101	0.02797	0.01077	0.00444	0.00027	0.00839	0.00323	0.00133	0.00027	0.00000	0.00000	0.00000	0.01322	0.01322	0.01322	0.01322	0.01322	0.01423
315	584291.7	4139276.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00332	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00100	0.00100	0.02894	0.00963	0.00438	0.00026	0.00868	0.00289	0.00131	0.00026	0.00000	0.00000	0.00000	0.01314	0.01314	0.01314	0.01314	0.01314	0.01414
316	584298.6	4139270.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00329	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00099	0.00099	0.0301	0.00819	0.00433	0.00023	0.00903	0.00246	0.00130	0.00023	0.00000	0.00000	0.00000	0.01302	0.01302	0.01302	0.01302	0.01302	0.01401
317	584305.6	4139264.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00326	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00098	0.00098	0.03147	0.00721	0.00428	0.00021	0.00944	0.00216	0.00128	0.00021	0.00000	0.00000	0.00000	0.01310	0.01310	0.01310	0.01310	0.01310	0.01408
318	584312.6	4139259.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00322	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00097	0.00097	0.03301	0.00673	0.00422	0.00020	0.00990	0.00202	0.00127	0.00020	0.00000	0.00000	0.00000	0.01339	0.01339	0.01339	0.01339	0.01339	0.01435
319	584262.5	4139311.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00378	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00113	0.00113	0.02441	0.01426	0.00462	0.00031	0.00732	0.00428	0.00139	0.00031	0.00000	0.00000	0.00000	0.01330	0.01330	0.01330	0.01330	0.01330	0.01444
320	584269.5	4139305.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00376	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00113	0.00113	0.02495	0.01246	0.00456	0.00030	0.00749	0.00374	0.00137	0.00030	0.00000	0.00000	0.00000	0.01289	0.01289	0.01289	0.01289	0.01289	0.01402
321	584276.4	4139300.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00373	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00112	0.00112	0.02559	0.01132	0.00451	0.00028	0.00768	0.00340	0.00135	0.00028	0.00000	0.00000	0.00000	0.01271	0.01271	0.01271	0.01271	0.01271	0.01383
322	584283.4	4139294.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0037	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00111	0.00111	0.02635	0.01037	0.00445	0.00027	0.00791	0.00311	0.00134	0.00027	0.00000	0.00000	0.00000	0.01262	0.01262	0.01262	0.01262	0.01262	0.01373
323	584290.4	4139288.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00366	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00110	0.00110	0.02726	0.00933	0.0044	0.00025	0.00818	0.00280	0.00132	0.00025	0.00000	0.00000	0.00000	0.01255	0.01255	0.01255	0.01255	0.01255	0.01365
324	584297.4	4139283.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00363	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00109	0.00109	0.02836	0.00827	0.00435	0.00024	0.00851	0.00248	0.00131	0.00024	0.00000	0.00000	0.00000	0.01253	0.01253	0.01253	0.01253	0.01253	0.01362
325	584304.3	4139277.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00359	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00108	0.00108	0.02966	0.00743	0.0043	0.00022	0.00890	0.00223	0.00129	0.00022	0.00000	0.00000	0.00000	0.01264	0.01264	0.01264	0.01264	0.01264	0.01372
326	584311.3	4139271.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00354	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00106	0.00106	0.03115	0.00663	0.00424	0.00020	0.00935	0.00199	0.00127	0.00020	0.00000	0.00000	0.00000	0.01281	0.01281	0.01281	0.01281	0.01281	0.01387
327	584268.2	4139318.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00419	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00126	0.00126	0.02362	0.01185	0.00457	0.00029	0.00709	0.00356	0.00137	0.00029	0.00000	0.00000	0.00000	0.01230	0.01230	0.01230	0.01230	0.01230	0.01356
328	584275.2	4139312.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00415	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00125	0.00125	0.02423	0.01064	0.00452	0.00027	0.00727	0.00319	0.00136	0.00027	0.00000	0.00000	0.00000	0.01209	0.01209	0.01209	0.01209	0.01209	0.01333
329	584282.1	4139307.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00411	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00123	0.00123	0.02495	0.00973	0.00446	0.00026	0.00749	0.00292	0.00134	0.00026	0.00000	0.00000	0.00000	0.01200	0.01200	0.01200	0.01200	0.01200	0.01323
330	584289.1	4139301.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00406	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00122	0.00122	0.02581	0.00882	0.00441	0.00024	0.00774	0.00265	0.00132	0.00024	0.00000	0.00000	0.00000	0.01196	0.01196	0.01196	0.01196	0.01196	0.01317
331	584296.1	4139295.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00402	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00121	0.00121	0.02684	0.00818	0.00436	0.00023	0.00805	0.00245	0.00131	0.00023	0.00000	0.00000	0.00000	0.01205	0.01205	0.01205	0.01205	0.01205	0.01325
332	584303.1	4139290.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00397	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00119	0.00119	0.02805	0.00723	0.00431	0.00022	0.00842	0.00217	0.00129	0.00022	0.00000	0.00000	0.00000	0.01210	0.01210	0.01210	0.01210	0.01210	0.01329
333	584310.0	4139284.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00391	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00117	0.00117	0.02947	0.00665	0.00426	0.00021	0.00884	0.00200	0.00128	0.00021	0.00000	0.00000	0.00000	0.01232	0.01232	0.01232	0.01232	0.01232	0.01350
334	584317.0	4139278.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00386	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00116	0.00116	0.03107	0.00607	0.00421	0.00019	0.00932	0.00182	0.00126	0.00019	0.00000	0.00000	0.00000	0.01260	0.01260	0.01260	0.01260	0.01260	0.01376
335	584280.9	4139319.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00459	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00138	0.00138	0.02373	0.00886	0.00447	0.00024	0.00712	0.00266	0.00134	0.00024	0.00000	0.00000	0.00000	0.01136	0.01136	0.01136	0.01136	0.01136	0.01274
336	584287.8	4139314.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00453	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00136	0.00136	0.02454	0.008	0.00442	0.00023	0.00736	0.00240	0.00133	0.00023	0.00000	0.00000	0.00000	0.01132	0.01132	0.01132	0.01132	0.01132	0.01268
337	584294.8	4139308.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00447	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00134	0.00134	0.02551	0.00757	0.00437	0.00022	0.00765	0.00227	0.00131	0.00022	0.00000	0.00000	0.00000	0.01146	0.01146	0.01146	0.01146	0.01146	0.01280
338	584301.8	4139302.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00441	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00132	0.00132	0.02664	0.00711	0.00432	0.00022	0.00799	0.00213	0.00130	0.00022	0.00000	0.00000	0.00000	0.01164	0.01164	0.01164	0.01164	0.01164	0.01296
339	584308.7	4139297.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00434	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00130	0.00130	0.02798	0.0066	0.00427	0.00021	0.00839	0.00198	0.00128	0.00021	0.00000	0.00000	0.00000	0.01186	0.01186	0.01186	0.01186	0.01186	0.01316
340	584315.7	4139291.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00428	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00128	0.00128	0.02951	0.00603	0.00422	0.00020	0.00885	0.00181	0.00127	0.00020	0.00000	0.00000	0.00000	0.01212	0.01212	0.01212	0.01212	0.01212	0.01341
341	584322.7	4139285.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0042	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00126	0.00126	0.0312	0.00562	0.00418	0.00018	0.00936	0.00169	0.00125	0.00018	0.00000	0.00000	0.00000	0.01248	0.01248	0.01248	0.01248	0.01248	0.01374
342	584300.5	4139315.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00493	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00148	0.00148	0.0254	0.00664	0.00432	0.00021	0.00762	0.00199	0.00130	0.00021	0.00000	0.00000	0.00000	0.01111	0.01111	0.01111	0.01111	0.01111	0.01259
343	584307.5	4139309.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00485	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00146	0.00146	0.02666	0.0063	0.00428	0.00020	0.00800	0.00189	0.00128	0.00020	0.00000	0.00000	0.00000	0.01137	0.01137	0.01137	0.01137	0.01137	0.01283
344	584314.4	4139304.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00477	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00143	0.00143	0.02811	0.006	0.00423	0.00019	0.00843	0.00180	0.00127	0.00019	0.00000	0.00000	0.00000	0.01169	0.01169	0.01169	0.01169	0.01169	0.01312
345	584321.4	4139298.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00468	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00140	0.00140	0.02974	0.00555	0.00418	0.00018	0.00892	0.00167	0.00125	0.00018	0.00000	0.00000	0.00000	0.01202	0.01202	0.01202	0.01202	0.01202	0.01343
346	584318.6	4139308.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00509	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00153	0.00153	0.02836	0.0057	0.0042	0.00018	0.00851	0.00171	0.00126	0.00018	0.00000	0.00000	0.00000	0.01166	0.01166	0.01166	0.01166	0.01166	0.01319
347	584327.1	4139305.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00514	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00154	0.00154	0.03015	0.00512	0.00415	0.00017	0.00905	0.00154	0.00125	0.00017	0.00000	0.00000	0.00000	0.01200	0.01200	0.01200	0.01200	0.01200	0.01354
348	584228.4	4139269.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00209	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00063	0.00063	0.03822	0.02088	0.00491	0.00057	0.01147	0.00626	0.00147	0.00057	0.00000	0.00000	0.00000	0.01977	0.01977	0.01977	0.01977	0.01977	0.02040
349	584235.3	4139264.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00212	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00064	0.00064	0.03846	0.01959	0.00483	0.00072	0.01154	0.00588	0.00145	0.00072	0.00000	0.00000	0.00000	0.01958	0.01958	0.01958	0.01958	0.01958	0.02022
350	584242.3	4139258.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00214	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00064	0.00064	0.03864	0.01817	0.00476	0.00136	0.01159	0.00545	0.00143	0.00136	0.00000	0.00000	0.00000	0.01983	0.01983	0.01983	0.01983	0.01983	0.02047
351	584249.3	4139252.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00215	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00065	0.00065	0.03877	0.01712	0.00469	0.00320	0.01163	0.00514	0.00141	0.00320	0.00000	0.00000	0.00000	0.02137	0.02137	0.02137	0.02137	0.02137	0.02202
352	584256.2	4139246.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00216	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00065	0.00065	0.0389	0.01585	0.00462	0.00143	0.01167	0.00476	0.00139	0.00143	0.00000	0.00000	0.00000	0.01924	0.01924	0.01924	0.01924	0.01924	0.01989
353	584263.2	4139241.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00217	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00065	0.00065	0.03908	0.01422	0.00455	0.00081	0.01172	0.00427	0.00137	0.00081	0.00000	0.00000	0.00000	0.01817	0.01817	0.01817	0.01817	0.01817	0.01882
354	584270.2	4139235.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00218	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00065	0.00065	0.03936	0.01232	0.00449	0.00053	0.01181	0.00370	0.00135	0.00053	0.00000	0.00000	0.00000	0.01738	0.01738	0.01738	0.01738	0.01738	0.01803
355	584277.2	4139229.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00218	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00065	0.00065	0.03977	0.01064	0.00442	0.00043	0.01193	0.00319	0.00133	0.00043	0.00000	0.00000	0.00000	0.01688	0.01688	0.01688	0.01688	0.01688	0.01753
356	584284.1	4139224.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00218	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00065	0.00065	0.04026	0.00978	0.00436	0.00037	0.01208	0.00293	0.00131	0.00037	0.00000	0.00000	0.00000	0.01669	0.01669	0.01669	0.01669	0.01669	0.01734
357	584234.0	4139276.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00231	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00069	0.00069	0.03444	0.02142	0.00486	0.00058	0.01033	0.00643	0.00146	0.00058	0.00000	0.00000	0.00000	0.01880	0.01880	0.01880	0.01880	0.01880	0.01949
358	584241.0	4139271.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00233	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00070	0.00070	0.03463	0.01972	0.00479	0.00059	0.01039	0.00592	0.00144	0.00059	0.00000	0.00000	0.00000	0.01833	0.01833	0.01833	0.01833	0.01833	0.01903
359	584248.0	4139265.3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00234	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00070	0.00070	0.03485	0.01766	0.00472	0.00054	0.01046	0.00530	0.00142	0.00054	0.00000	0.00000	0.00000	0.01770	0.01770	0.01770	0.01770	0.01770	0.01841
360	584255.0	4139259.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00235	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00071	0.00071	0.03508	0.01641	0.00465	0.00054	0.01052	0.00492	0.00140	0.00054	0.00000	0.00000	0.00000	0.01738	0.01738	0.01738	0.01738	0.01738	0.01808
361	584261.9	4139253.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00236	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00071	0.00071	0.03535	0.01518	0.00459	0.00047	0.01061	0.00455	0.00138	0.00047	0.00000	0.00000	0.00000	0.01700	0.01700	0.01700	0.01700	0.01700	0.01771
362	584268.9	4139248.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00236	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00071	0.00071	0.0357	0.01373	0.00452	0.00037	0.01071	0.00412	0.00136	0.00037	0.00000	0.00000	0.00000	0.01655	0.01655	0.01655	0.01655	0.01655	0.01726
363	584275.9	4139242.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00236	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00071	0.00071	0.03618	0.01172	0.00446	0.00030	0.01085	0.00352	0.00134	0.00030	0.00000	0.00000	0.00000	0.01601	0.01601	0.01601	0.01601	0.01601	0.01672
364	584282.8	4139236.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00236	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00071	0.00071	0.03681	0.01019	0.0044	0.00028	0.01104	0.00306	0.00132	0.00028	0.00000	0.00000	0.00000	0.01570	0.01570	0.01570	0.01570	0.01570	0.01641
365	584289.8	4139231.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00235	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00071	0.00071	0.03757	0.00929	0.00434	0.00027	0.01127	0.00279	0.00130	0.00027	0.00000	0.00000	0.00000	0.01563	0.01563	0.01563	0.01563	0.01563	0.01633
366	584239.7	4139283.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00255	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00077	0.00077	0.03125	0.02188	0.00482	0.00047	0.00938	0.00656	0.00145	0.00047	0.00000	0.00000	0.00000	0.01786	0.01786	0.01786	0.01786	0.01786	0.01862
367	584246.7	4139277.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00256	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00077	0.00077	0.0315	0.01916	0.00475	0.00042	0.00945	0.00575	0.00143	0.00042	0.00000	0.00000	0.00000	0.01705	0.01705	0.01705	0.01705	0.01705	0.01782
368	584253.7	4139272.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00257	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00077	0.00077	0.0318	0.01688	0.00468	0.00040	0.00954	0.00506	0.00140	0.00040	0.00000	0.00000	0.00000	0.01641	0.01641	0.01641	0.01641	0.01641	0.01718
369	584260.7	4139266.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00257	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00077	0.00077	0.03215	0.01549	0.00462	0.00038	0.00965	0.00465	0.00139	0.00038	0.00000	0.00000	0.00000	0.01606	0.01606	0.01606	0.01606	0.01606	0.01683
370	584267.6	4139260.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00257	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00077	0.00077	0.03258	0.01433	0.00455	0.00035	0.00977	0.00430	0.00137	0.00035	0.00000	0.00000	0.00000	0.01579	0.01579	0.01579	0.01579	0.01579	0.01656

Receptor No.	Receptor Coordinates UTM-X (m)	UTM-Y (m)	Construction PM2.5 (µg/m³) Total PM2.5 Concentrations (Fugitive + Exhaust) by Year 2023	2024	2025	2026	2027	2028	2029	2030	2031	Construction PM2.5 (µg/m³) - With Use of MERV-13 Total PM2.5 Concentrations (Fugitive + Exhaust) by Year 2023	2024	2025	2026	2027	2028	2029	2030	2031	Maximum Construction PM2.5 Conc. MERV-13 Filtration 2026-2031	Project Operation PM2.5 (µg/m³) Without MERV-13 Local Roads 2026-2055	Project Generators 2026-2055	Cooling Tower 2026-2055	Char-broilers 2026-2055	Project Operation PM2.5 (µg/m³) With MERV-13 Local Roads 2026-2055	Project Generators 2026-2055	Cooling Tower 2026-2055	Char-broilers 2026-2055	Total Construction + Operation PM2.5 (µg/m³) With Use of MERV-13 2023	2024	2025	2026	2027	2028	2029	2030	2031
371	584274.6	4139255.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00257	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00077	0.00077	0.03311	0.01293	0.00449	0.00032	0.00993	0.00388	0.00135	0.00032	0.00000	0.00000	0.00000	0.01547	0.01547	0.01547	0.01547	0.01547	0.01625
372	584281.6	4139249.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00256	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00077	0.00077	0.03378	0.011	0.00443	0.00027	0.01013	0.00330	0.00133	0.00027	0.00000	0.00000	0.00000	0.01504	0.01504	0.01504	0.01504	0.01504	0.01580
373	584288.5	4139243.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00255	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00077	0.00077	0.03462	0.00956	0.00437	0.00024	0.01039	0.00287	0.00131	0.00024	0.00000	0.00000	0.00000	0.01480	0.01480	0.01480	0.01480	0.01480	0.01557
374	584295.5	4139238.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00254	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00076	0.00076	0.03563	0.00861	0.00431	0.00022	0.01069	0.00258	0.00129	0.00022	0.00000	0.00000	0.00000	0.01479	0.01479	0.01479	0.01479	0.01479	0.01555
375	584245.4	4139290.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00281	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00084	0.00084	0.02879	0.02137	0.00477	0.00041	0.00864	0.00641	0.00143	0.00041	0.00000	0.00000	0.00000	0.01689	0.01689	0.01689	0.01689	0.01689	0.01773
376	584252.4	4139284.9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00281	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00084	0.00084	0.02911	0.01761	0.0047	0.00038	0.00873	0.00528	0.00141	0.00038	0.00000	0.00000	0.00000	0.01580	0.01580	0.01580	0.01580	0.01580	0.01665
377	584259.4	4139279.2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00282	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00085	0.00085	0.02949	0.01581	0.00464	0.00036	0.00885	0.00474	0.00139	0.00036	0.00000	0.00000	0.00000	0.01534	0.01534	0.01534	0.01534	0.01534	0.01619
378	584266.3	4139273.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00281	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00084	0.00084	0.02996	0.01453	0.00458	0.00034	0.00899	0.00436	0.00137	0.00034	0.00000	0.00000	0.00000	0.01506	0.01506	0.01506	0.01506	0.01506	0.01590
379	584273.3	4139267.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00281	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00084	0.00084	0.03052	0.0132	0.00452	0.00032	0.00916	0.00396	0.00136	0.00032	0.00000	0.00000	0.00000	0.01479	0.01479	0.01479	0.01479	0.01479	0.01563
380	584280.3	4139262.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0028	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00084	0.00084	0.03121	0.01199	0.00446	0.00029	0.00936	0.00360	0.00134	0.00029	0.00000	0.00000	0.00000	0.01459	0.01459	0.01459	0.01459	0.01459	0.01543
381	584287.3	4139256.4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00278	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00083	0.00083	0.03205	0.00999	0.0044	0.00026	0.00962	0.00300	0.00132	0.00026	0.00000	0.00000	0.00000	0.01419	0.01419	0.01419	0.01419	0.01419	0.01502
382	584294.2	4139250.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00277	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00083	0.00083	0.03308	0.00869	0.00434	0.00023	0.00992	0.00261	0.00130	0.00023	0.00000	0.00000	0.00000	0.01406	0.01406	0.01406	0.01406	0.01406	0.01489
383	584301.2	4139245.1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00275	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00083	0.00083	0.03429	0.00798	0.00428	0.00021	0.01029	0.00239	0.00128	0.00021	0.00000	0.00000	0.00000	0.01417	0.01417	0.01417	0.01417	0.01417	0.01500
384	584251.1	4139297.6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0031	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00093	0.00093	0.02691	0.01977	0.00472	0.00037	0.00807	0.00593	0.00142	0.00037	0.00000	0.00000	0.00000	0.01579	0.01579	0.01579	0.01579	0.01579	0.01672
		Maximum	**0.0000**	**0.0000**	**0.0000**	**0.4157**	**0.1719**	**0.0494**	**0.0373**	**0.0065**	**0.0051**	**0.0000**	**0.0000**	**0.0000**	**0.1247**	**0.0516**	**0.0148**	**0.0112**	**0.0019**	**0.0015**	**0.1247**	**0.0480**	**0.0379**	**0.0496**	**0.0033**	**0.0144**	**0.0114**	**0.0149**	**0.0033**	**0.0000**	**0.0000**	**0.0000**	**0.1435**	**0.0704**	**0.0336**	**0.0304**	**0.0258**	**0.0261**

Google Middlefield - Background (Existing) Traffic - TACs & PM2.5
Local Roads and State Route 237
AERMOD Risk Modeling Parameters and Maximum Concentrations
Maximum Cancer Risk Calculations for Existing Roadway Traffic- Unmtigated
Off-Site Residential Receptors

Receptor Information

Number of Receptors	242
Receptor Height =	1st and 2nd floor levels
Receptor distances =	at sensitive residential receptor locations

Meteorological Conditions

CARB Moffett Field Met Data	2009-2013
Land Use Classification	urban
Wind speed =	variable
Wind direction =	variable

Off-Site MEIs Maximum Concentrations

Emission Years	Concentration (µg/m^3)		
	DPM	Exhaust TOG	Evaporative TOG
2023 - Construction	0.00000	0.0000	0.0000
2024 - Construction	0.00000	0.0000	0.0000
2025 - Construction	0.00000	0.0000	0.0000
2026 - Construction	0.00000	0.0000	0.0000
2027 - Construction	0.00000	0.0000	0.0000
2028 - Construction	0.00000	0.0000	0.0000
2029 - Construction	0.00000	0.0000	0.0000
2030 - Construction	0.00000	0.0000	0.0000
2031 - Construction	0.00000	0.0000	0.0000
2026-2054 - Roads	0.00155	0.0495	0.0722
2026-2054 - Generators	0.00000	0.0000	0.0000

Emission Year	Maximum Total PM2.5 Concentration (µg/m3)
2025	0.070

Google Middlefield - Background (Existing) Traffic - TACs & PM2.5
Local Roads and State Route 237
AERMOD Risk Modeling Parameters and Maximum Concentrations
Maximum Cancer Risk Calculations for Existing Roadway Traffic- Unmtigated
On-Site Residential Receptors

Receptor Information

Number of Receptors	384
Receptor Height =	2nd floor level
Receptor distances =	9 meter grid spacing in residential areas

Meteorological Conditions

CARB Moffett Field Met Data	2009-2013
Land Use Classification	urban
Wind speed =	variable
Wind direction =	variable

On-Site MEIs Maximum Concentrations

Emission Years	Concentration (µg/m^3)		
	DPM	Exhaust TOG	Evaporative TOG
2023 - Construction	0.00000	0.0000	0.0000
2024 - Construction	0.00000	0.0000	0.0000
2025 - Construction	0.00000	0.0000	0.0000
2026 - Construction	0.00000	0.0000	0.0000
2027 - Construction	0.00000	0.0000	0.0000
2028 - Construction	0.00000	0.0000	0.0000
2029 - Construction	0.00000	0.0000	0.0000
2030 - Construction	0.00000	0.0000	0.0000
2031 - Construction	0.00000	0.0000	0.0000
2026-2055 - Roads	0.00405	0.1235	0.1717
2026-2055 - Generators	0.00000	0.0000	0.0000

Emission Year	Maximum Total PM2.5 Concentration (µg/m3)
2026	0.040

Google Middlefield - Local Roads & SR-237 with Background (Existing) Traffic at Location of Off-Site MEIs
Maximum Cancer Risk Calculations for Existing Roadway Traffic- Unmtigated
Off-Site Residential Receptors
Residential Exposure (30-year)

Cancer Risk Calculation Method

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor $(mg/kg\text{-}day)^{-1}$
ASF = Age sensitivity factor for specified age group
ED = Exposure duration (years)
AT = Averaging time for lifetime cancer risk (years)
FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C_{air} x DBR x A x (EF/365) x 10^{-6}

Where: C_{air} = concentration in air $(\mu g/m^3)$
DBR = daily breathing rate (L/kg body weight-day)
A = Inhalation absorption factor
EF = Exposure frequency (days/year)
10^{-6} = Conversion factor

Values

Cancer Potency Factors $(mg/kg\text{-}day)^{-1}$

TAC	CPF
DPM	1.10E+00
Vehicle TOG Exhaust	6.28E-03
Vehicle TOG Evaporative	3.70E-04

	Infant/Child			Adult
Age -->	3rd Trimester	0 - <2	2 - <16	16 - 30
Parameter				
ASF	10	10	3	1
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
ED =	0.25	2	14	14
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

* 95th percentile breathing rates for infants and 80th percentile for children and adults

Road Traffic Cancer Risk by Year - Maximum Impact Receptor Location

				Maximum - Exposure Information				Cancer Risk (per million)			
					Annual TAC Conc (ug/m3)						
Exposure Year	Year	Exposure Duration (years)	Age	Age Sensitivity Factor	DPM	Exhaust TOG	Evaporative TOG	DPM	Exhaust TOG	Evaporative TOG	Total
0	2023	0	-	-	0.0000	0.0000	0.0000	-	-	-	-
3rd Trimester	2024	0.25	-0.25 - 0*	10	0.0000	0.0000	0.0000	0.000	0.0000	0.0000	0.00
1	2025	1	1	10	0.0000	0.0000	0.0000	0.00	0.0000	0.0000	0.000
2	2026	1	2	10	0.0016	0.0495	0.0722	0.255	0.0464	0.0040	0.305
3	2027	1	3	3	0.0016	0.0495	0.0722	0.04	0.0073	0.0006	0.048
4	2028	1	4	3	0.0016	0.0495	0.0722	0.04	0.0073	0.0006	0.048
5	2029	1	5	3	0.0016	0.0495	0.0722	0.04	0.0073	0.0006	0.048
6	2030	1	6	3	0.0016	0.0495	0.0722	0.04	0.0073	0.0006	0.048
7	2031	1	7	3	0.0016	0.0495	0.0722	0.04	0.0073	0.0006	0.048
8	2032	1	8	3	0.0016	0.0495	0.0722	0.04	0.0073	0.0006	0.048
9	2033	1	9	3	0.0016	0.0495	0.0722	0.04	0.0073	0.0006	0.048
10	2034	1	10	3	0.0016	0.0495	0.0722	0.04	0.0073	0.0006	0.048
11	2035	1	11	3	0.0016	0.0495	0.0722	0.04	0.0073	0.0006	0.048
12	2036	1	12	3	0.0016	0.0495	0.0722	0.04	0.0073	0.0006	0.048
13	2037	1	13	3	0.0016	0.0495	0.0722	0.04	0.0073	0.0006	0.048
14	2038	1	14	3	0.0016	0.0495	0.0722	0.04	0.0073	0.0006	0.048
15	2039	1	15	3	0.0016	0.0495	0.0722	0.04	0.0073	0.0006	0.048
16	2040	1	16	3	0.0016	0.0495	0.0722	0.04	0.0073	0.0006	0.048
17	2041	1	17	1	0.0016	0.0495	0.0722	0.004	0.0008	0.0001	0.005
18	2042	1	18	1	0.0016	0.0495	0.0722	0.004	0.0008	0.0001	0.005
19	2043	1	19	1	0.0016	0.0495	0.0722	0.004	0.0008	0.0001	0.005
20	2044	1	20	1	0.0016	0.0495	0.0722	0.004	0.0008	0.0001	0.005
21	2045	1	21	1	0.0016	0.0495	0.0722	0.004	0.0008	0.0001	0.005
22	2046	1	22	1	0.0016	0.0495	0.0722	0.004	0.0008	0.0001	0.005
23	2047	1	23	1	0.0016	0.0495	0.0722	0.004	0.0008	0.0001	0.005
24	2048	1	24	1	0.0016	0.0495	0.0722	0.004	0.0008	0.0001	0.005
25	2049	1	25	1	0.0016	0.0495	0.0722	0.004	0.0008	0.0001	0.005
26	2050	1	26	1	0.0016	0.0495	0.0722	0.004	0.0008	0.0001	0.005
27	2051	1	27	1	0.0016	0.0495	0.0722	0.004	0.0008	0.0001	0.005
28	2052	1	28	1	0.0016	0.0495	0.0722	0.004	0.0008	0.0001	0.005
29	2053	1	29	1	0.0016	0.0495	0.0722	0.004	0.0008	0.0001	0.005
30	2054	1	30	1	0.0016	0.0495	0.0722	0.004	0.0008	0.0001	0.005
Total Increased Cancer Risk								0.8780	0.1600	0.0138	**1.05**

* Third trimester of pregnancy

Google Middlefield - Local Roads & SR-237 with Background (Existing) Traffic at Location of On-Site MEIs
Maximum Cancer Risk Calculations for Existing Roadway Traffic- Unmtigated
On-Site Residential Receptors
Residential Exposure (30-year)

Cancer Risk Calculation Method

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor $(mg/kg\text{-}day)^{-1}$
ASF = Age sensitivity factor for specified age group
ED = Exposure duration (years)
AT = Averaging time for lifetime cancer risk (years)
FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C_{air} x DBR x A x (EF/365) x 10^{-6}

Where: C_{air} = concentration in air $(\mu g/m^3)$
DBR = daily breathing rate (L/kg body weight-day)
A = Inhalation absorption factor
EF = Exposure frequency (days/year)
10^{-6} = Conversion factor

Values

Cancer Potency Factors $(mg/kg\text{-}day)^{-1}$

TAC	CPF
DPM	1.10E+00
Vehicle TOG Exhaust	6.28E-03
Vehicle TOG Evaporative	3.70E-04

	Infant/Child			Adult
Age -->	3rd Trimester	0 - <2	2 - <16	16 - 30
Parameter				
ASF	10	10	3	1
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
ED =	0.25	2	14	14
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

* 95th percentile breathing rates for infants and 80th percentile for children and adults

Project Construction & Operation Cancer Risk by Year - Maximum Impact Receptor Location

				Maximum - Exposure Information				Cancer Risk (per million)			
				Age	Annual TAC Conc (ug/m3)						
Exposure Year	Year	Exposure Duration (years)	Age	Sensitivity Factor	DPM	Exhaust TOG	Evaporative TOG	DPM	Exhaust TOG	Evaporative TOG	Total
0	2023	0	-	-	0.0000	0.0000	0.0000	-	-	-	-
0	2024	0	-	-	0.0000	0.0000	0.0000	-	-	-	-
3rd Trimester	2025	0.25	-0.25 - 0*	10	0.0000	0.0000	0.0000	0.00	0.0000	0.0000	0.000
1	2026	1	2	10	0.0041	0.1235	0.1717	0.665	0.1158	0.0095	0.791
2	2027	1	3	10	0.0041	0.1235	0.1717	0.665	0.1158	0.0095	0.791
3	2028	1	4	3	0.0041	0.1235	0.1717	0.10	0.0182	0.0015	0.124
4	2029	1	5	3	0.0041	0.1235	0.1717	0.10	0.0182	0.0015	0.124
5	2030	1	6	3	0.0041	0.1235	0.1717	0.10	0.0182	0.0015	0.124
6	2031	1	7	3	0.0041	0.1235	0.1717	0.10	0.0182	0.0015	0.124
7	2032	1	8	3	0.0041	0.1235	0.1717	0.10	0.0182	0.0015	0.124
8	2033	1	9	3	0.0041	0.1235	0.1717	0.10	0.0182	0.0015	0.124
9	2034	1	10	3	0.0041	0.1235	0.1717	0.10	0.0182	0.0015	0.124
10	2035	1	11	3	0.0041	0.1235	0.1717	0.10	0.0182	0.0015	0.124
11	2036	1	12	3	0.0041	0.1235	0.1717	0.10	0.0182	0.0015	0.124
12	2037	1	13	3	0.0041	0.1235	0.1717	0.10	0.0182	0.0015	0.124
13	2038	1	14	3	0.0041	0.1235	0.1717	0.10	0.0182	0.0015	0.124
14	2039	1	15	3	0.0041	0.1235	0.1717	0.10	0.0182	0.0015	0.124
15	2040	1	16	3	0.0041	0.1235	0.1717	0.10	0.0182	0.0015	0.124
16	2041	1	17	3	0.0041	0.1235	0.1717	0.10	0.0182	0.0015	0.124
17	2042	1	18	1	0.0041	0.1235	0.1717	0.012	0.0020	0.0002	0.014
18	2043	1	19	1	0.0041	0.1235	0.1717	0.012	0.0020	0.0002	0.014
19	2044	1	20	1	0.0041	0.1235	0.1717	0.012	0.0020	0.0002	0.014
20	2045	1	21	1	0.0041	0.1235	0.1717	0.012	0.0020	0.0002	0.014
21	2046	1	22	1	0.0041	0.1235	0.1717	0.012	0.0020	0.0002	0.014
22	2047	1	23	1	0.0041	0.1235	0.1717	0.012	0.0020	0.0002	0.014
23	2048	1	24	1	0.0041	0.1235	0.1717	0.012	0.0020	0.0002	0.014
24	2049	1	25	1	0.0041	0.1235	0.1717	0.012	0.0020	0.0002	0.014
25	2050	1	26	1	0.0041	0.1235	0.1717	0.012	0.0020	0.0002	0.014
26	2051	1	27	1	0.0041	0.1235	0.1717	0.012	0.0020	0.0002	0.014
27	2052	1	28	1	0.0041	0.1235	0.1717	0.012	0.0020	0.0002	0.014
28	2053	1	29	1	0.0041	0.1235	0.1717	0.012	0.0020	0.0002	0.014
29	2054	1	30	1	0.0041	0.1235	0.1717	0.012	0.0020	0.0002	0.014
30	2055	1	30	1	0.0041	0.1235	0.1717	0.012	0.0020	0.0002	0.014
Total Increased Cancer Risk								**2.96**	**0.5154**	**0.0423**	**3.52**
Total Increased Cancer Risk With use of MERV-13 Filtration								**0.89**	**0.5154**	**0.0423**	**1.45**

* Third trimester of pregnancy

Project Sources with Baseline (Existing) Traffic - Emissions and Health Risk Calculations

Local Roads - Existing Traffic Emissions

Google Middlefield - Road Segments Used for Modeling
Existing Traffic ADTs

Road	ADT from Road Segment Used for Modeling	Existing Traffic ADT[1]
Ellis Street	north of Middlefield	9,110
Middlefield Road*	west of Ellis	15,700
Logue Ave**	south of Maude	2,900
Maude Ave	west of SR 237	6,580
Clyde Ave	north of Maude	2,480
SR-237	SR-237 before Hwy 101	62,540

1) ADT from traffic consultant except for SR-237.
SR-237 ADT from 2020 Caltrans AADT Truck Traffic data.
* ADT from west road segment used to represent modeled road segment.
** ADT from west road segment used for represent modeled road segment.

Emission Factors for Local Roads

File Name:
EMFAC2021/CT-EMFAC2017:
Run Date: 9/30/2021 11:04
Area: Santa Clara (SF)
Analysis Year: 2026
Season: Annual

Vehicle Category	VMT Fraction Across Category	Diesel VMT Fraction Within Category	Gas VMT Fraction Within Category
Truck 1	0.025	0.508	0.492
Truck 2	0.015	0.935	0.049
Non-Truck	0.96	0.015	0.949

Road Type:
Silt Loading Factor: CARB Varies
Precipitation Correction: CARB P = 64 days N = 365 days

Fleet Average Running Exhaust Emission Factors (grams/veh-mile)

Pollutant Name	<= 5 mph	10 mph	15 mph	20 mph	25 mph	30 mph	35 mph	40 mph	45 mph	50 mph	55 mph	60 mph	65 mph
PM2.5	0.00909	0.00603	0.00416	0.00302	0.00231	0.00186	0.00157	0.00141	0.00134	0.00134	0.00142	0.00156	0.00179
TOG	0.12664	0.08207	0.05515	0.03909	0.02944	0.02333	0.01938	0.01686	0.01539	0.01476	0.01489	0.01582	0.01770
Diesel PM	0.00097	0.00081	0.00065	0.00053	0.00045	0.00041	0.00040	0.00041	0.00043	0.00048	0.00055	0.00063	0.00072
DEOG	0.01174	0.00845	0.00445	0.00217	0.00147	0.00115	0.00094	0.00080	0.00071	0.00066	0.00064	0.00066	0.00069

Fleet Average Running Loss Emission Factors (grams/veh-hour)

Pollutant Name	Emission Factor
TOG	1.10553

Fleet Average Tire Wear Factors (grams/veh-mile)

Pollutant Name	
PM2.5	0.00203

Fleet Average Brake Wear Factors (grams/veh-mile)

Pollutant Name	<= 5 mph	10 mph	15 mph	20 mph	25 mph	30 mph	35 mph	40 mph	45 mph	50 mph	55 mph	60 mph	65 mph
PM2.5	0.00375	0.00429	0.00482	0.00535	0.00562	0.00571	0.00574	0.00525	0.00420	0.00317	0.00252	0.00222	0.00192

Fleet Average Road Dust Factors (grams/veh-mile)

Pollutant Name	Emission Factor	
PM2.5	0.01912	(silt loading = 0.0435 grams/sq meter)

END

Pollutant Name	Freeway Emission Factor	Major/Collector Emissio	Local Urban
PM2.5	0.007256	0.014459	0.117525

Google Middlefield Park - Roadway Modeling
Ellis Street Traffic - Existing Traffic
DPM Modeling - Roadway Links, Traffic Volumes, and DPM Emissions
Year = 2026

											Line Area			
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Emission (g/s/m2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimension
DPM_ELL	Ellis Street	N-S	4	766.3	0.48	20.6	67.7	3.4	40	9,110	15,809	1.289E-09	6.8	3.16

Emission Factors - DPM

Speed Category	1	2	3	4
Travel Speed (mph)	40			
Emissions per Vehicle (g/VMT)	0.00041			

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and DPM Emissions - DPM_ELL

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.73%	66	3.56E-06	9	6.63%	604	3.24E-05	17	5.87%	535	2.87E-05
2	0.44%	40	2.14E-06	10	6.71%	611	3.28E-05	18	6.09%	555	2.98E-05
3	0.35%	32	1.72E-06	11	6.03%	549	2.95E-05	19	5.83%	531	2.85E-05
4	0.48%	43	2.32E-06	12	5.35%	488	2.62E-05	20	5.57%	507	2.72E-05
5	1.28%	117	6.27E-06	13	5.28%	481	2.58E-05	21	4.30%	392	2.10E-05
6	3.20%	291	1.56E-05	14	5.52%	503	2.70E-05	22	3.50%	319	1.71E-05
7	4.97%	453	2.43E-05	15	6.09%	555	2.98E-05	23	2.42%	220	1.18E-05
8	6.11%	557	2.99E-05	16	5.76%	525	2.82E-05	24	1.50%	137	7.35E-06
								Total		9,110	

Google Middlefield Park - Roadway Modeling
Ellis Street Traffic - Existing Traffic
PM2.5 Modeling - Roadway Links, Traffic Volumes, and PM2.5 Emissions
Year = 2026

											Line Area			
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Emission (g/s/m2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimension
PM25_ELL	Ellis Street	N-S	4	766.3	0.48	20.6	68	1.3	40	9,110	15,809	4.474E-09	2.6	1.21

Emission Factors - PM2.5

Speed Category	1	2	3	4
Travel Speed (mph)	40			
Emissions per Vehicle (g/VMT)	0.001409			

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and PM2.5 Emissions - PM25_ELL

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.73%	66	1.24E-05	9	6.63%	604	1.12E-04	17	5.87%	535	9.96E-05
2	0.44%	40	7.44E-06	10	6.71%	611	1.14E-04	18	6.09%	555	1.03E-04
3	0.35%	32	5.97E-06	11	6.03%	549	1.02E-04	19	5.83%	531	9.90E-05
4	0.48%	43	8.07E-06	12	5.35%	488	9.09E-05	20	5.57%	507	9.45E-05
5	1.28%	117	2.18E-05	13	5.28%	481	8.96E-05	21	4.30%	392	7.30E-05
6	3.20%	291	5.43E-05	14	5.52%	503	9.37E-05	22	3.50%	319	5.94E-05
7	4.97%	453	8.43E-05	15	6.09%	555	1.03E-04	23	2.42%	220	4.11E-05
8	6.11%	557	1.04E-04	16	5.76%	525	9.78E-05	24	1.50%	137	2.55E-05
								Total		9,110	

Google Middlefield Park - Roadway Modeling
Ellis Street Traffic - Existing Traffic
TOG Exhaust Modeling - Roadway Links, Traffic Volumes, and TOG Exhaust Emissions
Year = 2026

											Line Area			
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Emission (g/s/m2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimensio
TEXH_ELL	Ellis Street	N-S	4	766.3	0.48	20.6	68	1.3	40	9,110	15,809	5.101E-08	2.6	1.21

Emission Factors - TOG Exhaust

Speed Category	1	2	3	4
Travel Speed (mph)	40			
All Vehicles TOG Emissions per Vehicle (g/VMT)	0.01686			
Diesel Vehicles TOG Emissions per Vehicle (g/VMT)	0.00080			
Gasoline Vehicles Emissions per Vehicle (g/VMT)	0.01606			

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and TOG Exhaust Emissions - TEXH_ELL

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.73%	66	1.41E-04	9	6.63%	604	1.28E-03	17	5.87%	535	1.14E-03
2	0.44%	40	8.48E-05	10	6.71%	611	1.30E-03	18	6.09%	555	1.18E-03
3	0.35%	32	6.80E-05	11	6.03%	549	1.17E-03	19	5.83%	531	1.13E-03
4	0.48%	43	9.20E-05	12	5.35%	488	1.04E-03	20	5.57%	507	1.08E-03
5	1.28%	117	2.48E-04	13	5.28%	481	1.02E-03	21	4.30%	392	8.32E-04
6	3.20%	291	6.19E-04	14	5.52%	503	1.07E-03	22	3.50%	319	6.78E-04
7	4.97%	453	9.61E-04	15	6.09%	555	1.18E-03	23	2.42%	220	4.68E-04
8	6.11%	557	1.18E-03	16	5.76%	525	1.12E-03	24	1.50%	137	2.91E-04
								Total		9,110	

Google Middlefield Park - Roadway Modeling
Ellis Street Traffic - Existing Traffic
TOG Evaporative Emissions Modeling - Roadway Links, Traffic Volumes, and TOG Evaporative Emissions
Year = 2026

											Line Area			
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Emission (g/s/m2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimensio
TEVAP_ELL	Ellis Street	N-S	4	766.3	0.48	20.6	68	1.3	40	9,110	15,809	8.777E-08	2.6	1.21

Emission Factors - PM2.5 - Evaporative TOG

Speed Category	1	2	3	4
Travel Speed (mph)	40			
Emissions per Vehicle per Hour (g/hour)	1.10553			
Emissions per Vehicle per Mile (g/VMT)	0.02764			

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and TOG Evaporative Emissions - TEVAP_ELL

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.73%	66	2.43E-04	9	6.63%	604	2.21E-03	17	5.87%	535	1.95E-03
2	0.44%	40	1.46E-04	10	6.71%	611	2.23E-03	18	6.09%	555	2.03E-03
3	0.35%	32	1.17E-04	11	6.03%	549	2.01E-03	19	5.83%	531	1.94E-03
4	0.48%	43	1.58E-04	12	5.35%	488	1.78E-03	20	5.57%	507	1.85E-03
5	1.28%	117	4.27E-04	13	5.28%	481	1.76E-03	21	4.30%	392	1.43E-03
6	3.20%	291	1.07E-03	14	5.52%	503	1.84E-03	22	3.50%	319	1.17E-03
7	4.97%	453	1.65E-03	15	6.09%	555	2.03E-03	23	2.42%	220	8.05E-04
8	6.11%	557	2.04E-03	16	5.76%	525	1.92E-03	24	1.50%	137	5.01E-04
								Total		9,110	

Google Middlefield Park - Roadway Modeling
Ellis Street Traffic - Existing Traffic
Fugitive Road PM2.5 Modeling - Roadway Links, Traffic Volumes, and Fugitive Road PM2.5 Emissions
Year = 2026

											Line Area			
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Emission (g/s/m2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimension
FUG_ELL	Ellis Street	N-S	4	766.3	0.48	20.6	68	1.3	40	9,110	15,809	8.382E-08	2.6	1.21

Emission Factors - Fugitive PM2.5

Speed Category	1	2	3	4
Travel Speed (mph)	40	0		
Tire Wear - Emissions per Vehicle (g/VMT)	0.00203	0.00203		
Brake Wear - Emissions per Vehicle (g/VMT)	0.00525	0.00525		
Road Dust - Emissions per Vehicle (g/VMT)	0.01912	0.01912		
l Fugitive PM2.5 - Emissions per Vehicle (g/VMT)	0.02639	0.02639		

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and Fugitive PM2.5 Emissions - FUG_ELL

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.73%	66	2.32E-04	9	6.63%	604	2.11E-03	17	5.87%	535	1.87E-03
2	0.44%	40	1.39E-04	10	6.71%	611	2.13E-03	18	6.09%	555	1.94E-03
3	0.35%	32	1.12E-04	11	6.03%	549	1.92E-03	19	5.83%	531	1.86E-03
4	0.48%	43	1.51E-04	12	5.35%	488	1.70E-03	20	5.57%	507	1.77E-03
5	1.28%	117	4.08E-04	13	5.28%	481	1.68E-03	21	4.30%	392	1.37E-03
6	3.20%	291	1.02E-03	14	5.52%	503	1.76E-03	22	3.50%	319	1.11E-03
7	4.97%	453	1.58E-03	15	6.09%	555	1.94E-03	23	2.42%	220	7.69E-04
8	6.11%	557	1.94E-03	16	5.76%	525	1.83E-03	24	1.50%	137	4.78E-04
								Total		9,110	

Google Middlefield Park - Roadway Modeling
Middlefield Road Traffic - Existing Traffic
DPM Modeling - Roadway Links, Traffic Volumes, and DPM Emissions
Year = 2026

											Line Area			
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Emission (g/s/m2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimension
DPM_MDL	Middlefield Road	E-W	4	799.2	0.50	20.6	67.7	3.4	35	15,700	16,488	2.188E-09	6.8	3.16

Emission Factors - DPM

Speed Category	1	2	3	4
Travel Speed (mph)	35			
Emissions per Vehicle (g/VMT)	0.00040			

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and DPM Emissions - DPM_MDL

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.73%	114	6.31E-06	9	6.63%	1040	5.74E-05	17	5.87%	921	5.08E-05
2	0.44%	69	3.79E-06	10	6.71%	1054	5.81E-05	18	6.09%	956	5.27E-05
3	0.35%	55	3.04E-06	11	6.03%	946	5.22E-05	19	5.83%	916	5.05E-05
4	0.48%	75	4.12E-06	12	5.35%	841	4.64E-05	20	5.57%	874	4.82E-05
5	1.28%	201	1.11E-05	13	5.28%	829	4.57E-05	21	4.30%	675	3.72E-05
6	3.20%	502	2.77E-05	14	5.52%	867	4.78E-05	22	3.50%	550	3.03E-05
7	4.97%	780	4.30E-05	15	6.09%	956	5.27E-05	23	2.42%	380	2.09E-05
8	6.11%	959	5.29E-05	16	5.76%	905	4.99E-05	24	1.50%	236	1.30E-05
								Total		15,700	

Google Middlefield Park - Roadway Modeling
Middlefield Road Traffic - Existing Traffic
PM2.5 Modeling - Roadway Links, Traffic Volumes, and PM2.5 Emissions
Year = 2026

											Line Area			
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Emission (g/s/m2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimension
PM25_MDL	Middlefield Road	E-W	4	799.2	0.50	20.6	68	1.3	35	15,700	16,488	8.613E-09	2.6	1.21

Emission Factors - PM2.5

Speed Category	1	2	3	4
Travel Speed (mph)	35			
Emissions per Vehicle (g/VMT)	0.001574			

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and PM2.5 Emissions - PM25_MDL

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.73%	114	2.48E-05	9	6.63%	1040	2.26E-04	17	5.87%	921	2.00E-04
2	0.44%	69	1.49E-05	10	6.71%	1054	2.29E-04	18	6.09%	956	2.08E-04
3	0.35%	55	1.20E-05	11	6.03%	946	2.05E-04	19	5.83%	916	1.99E-04
4	0.48%	75	1.62E-05	12	5.35%	841	1.82E-04	20	5.57%	874	1.90E-04
5	1.28%	201	4.37E-05	13	5.28%	829	1.80E-04	21	4.30%	675	1.46E-04
6	3.20%	502	1.09E-04	14	5.52%	867	1.88E-04	22	3.50%	550	1.19E-04
7	4.97%	780	1.69E-04	15	6.09%	956	2.08E-04	23	2.42%	380	8.24E-05
8	6.11%	959	2.08E-04	16	5.76%	905	1.96E-04	24	1.50%	236	5.13E-05
								Total		15,700	

Google Middlefield Park - Roadway Modeling
Middlefield Road Traffic - Existing Traffic
TOG Exhaust Modeling - Roadway Links, Traffic Volumes, and TOG Exhaust Emissions
Year = 2026

											Line Area			
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Emission (g/s/m2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimensio
TEXH_MDL	Middlefield Road	E-W	4	799.2	0.50	20.6	68	1.3	35	15,700	16,488	1.009E-07	2.6	1.21

Emission Factors - TOG Exhaust

Speed Category	1	2	3	4
Travel Speed (mph)	35			
All Vehicles TOG Emissions per Vehicle (g/VMT)	0.01938			
Diesel Vehicles TOG Emissions per Vehicle (g/VMT)	0.00094			
Gasoline Vehicles Emissions per Vehicle (g/VMT)	0.01843			

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and TOG Exhaust Emissions - TEXH_MDL

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.73%	114	2.91E-04	9	6.63%	1040	2.65E-03	17	5.87%	921	2.34E-03
2	0.44%	69	1.75E-04	10	6.71%	1054	2.68E-03	18	6.09%	956	2.43E-03
3	0.35%	55	1.40E-04	11	6.03%	946	2.41E-03	19	5.83%	916	2.33E-03
4	0.48%	75	1.90E-04	12	5.35%	841	2.14E-03	20	5.57%	874	2.22E-03
5	1.28%	201	5.12E-04	13	5.28%	829	2.11E-03	21	4.30%	675	1.72E-03
6	3.20%	502	1.28E-03	14	5.52%	867	2.20E-03	22	3.50%	550	1.40E-03
7	4.97%	780	1.98E-03	15	6.09%	956	2.43E-03	23	2.42%	380	9.66E-04
8	6.11%	959	2.44E-03	16	5.76%	905	2.30E-03	24	1.50%	236	6.01E-04
								Total		15,700	

Google Middlefield Park - Roadway Modeling
Middlefield Road Traffic - Existing Traffic
TOG Evaporative Emissions Modeling - Roadway Links, Traffic Volumes, and TOG Evaporative Emissions
Year = 2026

											Line Area			
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Emission (g/s/m2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimensio
TEVAP_MDL	Middlefield Road	E-W	4	799.2	0.50	20.6	68	1.3	35	15,700	16,488	1.729E-07	2.6	1.21

Emission Factors - PM2.5 - Evaporative TOG

Speed Category	1	2	3	4
Travel Speed (mph)	35			
Emissions per Vehicle per Hour (g/hour)	1.10553			
Emissions per Vehicle per Mile (g/VMT)	0.03159			

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and TOG Evaporative Emissions - TEVAP_MDL

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.73%	114	4.98E-04	9	6.63%	1040	4.53E-03	17	5.87%	921	4.01E-03
2	0.44%	69	3.00E-04	10	6.71%	1054	4.59E-03	18	6.09%	956	4.17E-03
3	0.35%	55	2.40E-04	11	6.03%	946	4.12E-03	19	5.83%	916	3.99E-03
4	0.48%	75	3.25E-04	12	5.35%	841	3.66E-03	20	5.57%	874	3.81E-03
5	1.28%	201	8.77E-04	13	5.28%	829	3.61E-03	21	4.30%	675	2.94E-03
6	3.20%	502	2.19E-03	14	5.52%	867	3.78E-03	22	3.50%	550	2.40E-03
7	4.97%	780	3.40E-03	15	6.09%	956	4.16E-03	23	2.42%	380	1.65E-03
8	6.11%	959	4.18E-03	16	5.76%	905	3.94E-03	24	1.50%	236	1.03E-03
								Total		15,700	

Google Middlefield Park - Roadway Modeling
Middlefield Road Traffic - Existing Traffic
Fugitive Road PM2.5 Modeling - Roadway Links, Traffic Volumes, and Fugitive Road PM2.5 Emissions
Year = 2026

											Line Area			
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Emission (g/s/m2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimension
FUG_MDL	Middlefield Road	E-W	4	799.2	0.50	20.6	68	1.3	35	15,700	16,488	1.472E-07	2.6	1.21

Emission Factors - Fugitive PM2.5

Speed Category	1	2	3	4
Travel Speed (mph)	35			
Tire Wear - Emissions per Vehicle (g/VMT)	0.00203			
Brake Wear - Emissions per Vehicle (g/VMT)	0.00574			
Road Dust - Emissions per Vehicle (g/VMT)	0.01912			
l Fugitive PM2.5 - Emissions per Vehicle (g/VMT)	0.02689			

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and Fugitive PM2.5 Emissions - FUG_MDL

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.73%	114	4.24E-04	9	6.63%	1040	3.86E-03	17	5.87%	921	3.42E-03
2	0.44%	69	2.55E-04	10	6.71%	1054	3.91E-03	18	6.09%	956	3.55E-03
3	0.35%	55	2.05E-04	11	6.03%	946	3.51E-03	19	5.83%	916	3.40E-03
4	0.48%	75	2.77E-04	12	5.35%	841	3.12E-03	20	5.57%	874	3.24E-03
5	1.28%	201	7.47E-04	13	5.28%	829	3.07E-03	21	4.30%	675	2.50E-03
6	3.20%	502	1.86E-03	14	5.52%	867	3.21E-03	22	3.50%	550	2.04E-03
7	4.97%	780	2.89E-03	15	6.09%	956	3.55E-03	23	2.42%	380	1.41E-03
8	6.11%	959	3.56E-03	16	5.76%	905	3.36E-03	24	1.50%	236	8.76E-04
								Total		15,700	

Google Middlefield Park - Roadway Modeling
Logue Avenue Traffic - Existing Traffic
DPM Modeling - Roadway Links, Traffic Volumes, and DPM Emissions
Year = 2026

											Line Area			
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Emission (g/s/m2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimension
DPM_LOG	Logue Avenue	N-S	2	609.7	0.38	13.3	43.7	3.4	25	2,900	8,118	7.102E-10	6.8	3.16

Emission Factors - DPM

Speed Category	1	2	3	4
Travel Speed (mph)	25			
Emissions per Vehicle (g/VMT)	0.00045			

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and DPM Emissions - DPM_LOG

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.73%	21	1.01E-06	9	6.63%	192	9.17E-06	17	5.87%	170	8.12E-06
2	0.44%	13	6.06E-07	10	6.71%	195	9.29E-06	18	6.09%	177	8.43E-06
3	0.35%	10	4.86E-07	11	6.03%	175	8.34E-06	19	5.83%	169	8.07E-06
4	0.48%	14	6.58E-07	12	5.35%	155	7.41E-06	20	5.57%	161	7.70E-06
5	1.28%	37	1.77E-06	13	5.28%	153	7.30E-06	21	4.30%	125	5.95E-06
6	3.20%	93	4.43E-06	14	5.52%	160	7.64E-06	22	3.50%	102	4.85E-06
7	4.97%	144	6.87E-06	15	6.09%	177	8.42E-06	23	2.42%	70	3.35E-06
8	6.11%	177	8.46E-06	16	5.76%	167	7.98E-06	24	1.50%	44	2.08E-06
								Total		2,900	

Google Middlefield Park - Roadway Modeling
Logue Avenue Traffic - Existing Traffic
PM2.5 Modeling - Roadway Links, Traffic Volumes, and PM2.5 Emissions
Year = 2026

											Line Area			
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Emission (g/s/m2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimension
PM25_LOG	Logue Avenue	N-S	2	609.7	0.38	13.3	44	1.3	25	2,900	8,118	3.613E-09	2.6	1.21

Emission Factors - PM2.5

Speed Category	1	2	3	4
Travel Speed (mph)	25			
Emissions per Vehicle (g/VMT)	0.002307			

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and PM2.5 Emissions - PM25_LOG

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.73%	21	5.13E-06	9	6.63%	192	4.66E-05	17	5.87%	170	4.13E-05
2	0.44%	13	3.08E-06	10	6.71%	195	4.72E-05	18	6.09%	177	4.29E-05
3	0.35%	10	2.47E-06	11	6.03%	175	4.24E-05	19	5.83%	169	4.11E-05
4	0.48%	14	3.35E-06	12	5.35%	155	3.77E-05	20	5.57%	161	3.92E-05
5	1.28%	37	9.02E-06	13	5.28%	153	3.72E-05	21	4.30%	125	3.03E-05
6	3.20%	93	2.25E-05	14	5.52%	160	3.89E-05	22	3.50%	102	2.47E-05
7	4.97%	144	3.50E-05	15	6.09%	177	4.29E-05	23	2.42%	70	1.70E-05
8	6.11%	177	4.30E-05	16	5.76%	167	4.06E-05	24	1.50%	44	1.06E-05
								Total		2,900	

Google Middlefield Park - Roadway Modeling
Logue Avenue Traffic - Existing Traffic
TOG Exhaust Modeling - Roadway Links, Traffic Volumes, and TOG Exhaust Emissions
Year = 2026

											Line Area			
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Emission (g/s/m2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimensio
TEXH_LOG	Logue Avenue	N-S	2	609.7	0.38	13.3	44	1.3	25	2,900	8,118	4.381E-08	2.6	1.21

Emission Factors - TOG Exhaust

Speed Category	1	2	3	4
Travel Speed (mph)	25			
All Vehicles TOG Emissions per Vehicle (g/VMT)	0.02944			
Diesel Vehicles TOG Emissions per Vehicle (g/VMT)	0.00147			
Gasoline Vehicles Emissions per Vehicle (g/VMT)	0.02797			

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and TOG Exhaust Emissions - TEXH_LOG

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.73%	21	6.22E-05	9	6.63%	192	5.66E-04	17	5.87%	170	5.01E-04
2	0.44%	13	3.74E-05	10	6.71%	195	5.73E-04	18	6.09%	177	5.20E-04
3	0.35%	10	3.00E-05	11	6.03%	175	5.14E-04	19	5.83%	169	4.98E-04
4	0.48%	14	4.06E-05	12	5.35%	155	4.57E-04	20	5.57%	161	4.75E-04
5	1.28%	37	1.09E-04	13	5.28%	153	4.51E-04	21	4.30%	125	3.67E-04
6	3.20%	93	2.73E-04	14	5.52%	160	4.71E-04	22	3.50%	102	2.99E-04
7	4.97%	144	4.24E-04	15	6.09%	177	5.20E-04	23	2.42%	70	2.06E-04
8	6.11%	177	5.22E-04	16	5.76%	167	4.92E-04	24	1.50%	44	1.28E-04
								Total		2,900	

Google Middlefield Park - Roadway Modeling
Logue Avenue Traffic - Existing Traffic
TOG Evaporative Emissions Modeling - Roadway Links, Traffic Volumes, and TOG Evaporative Emissions
Year = 2026

											Line Area			
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Emission (g/s/m2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimensio
TEVAP_LOG	Logue Avenue	N-S	2	609.7	0.38	13.3	44	1.3	25	2,900	8,118	6.927E-08	2.6	1.21

Emission Factors - PM2.5 - Evaporative TOG

Speed Category	1	2	3	4
Travel Speed (mph)	25			
Emissions per Vehicle per Hour (g/hour)	1.10553			
Emissions per Vehicle per Mile (g/VMT)	0.04422			

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and TOG Evaporative Emissions - TEVAP_LOG

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.73%	21	9.83E-05	9	6.63%	192	8.94E-04	17	5.87%	170	7.92E-04
2	0.44%	13	5.91E-05	10	6.71%	195	9.06E-04	18	6.09%	177	8.22E-04
3	0.35%	10	4.74E-05	11	6.03%	175	8.13E-04	19	5.83%	169	7.87E-04
4	0.48%	14	6.42E-05	12	5.35%	155	7.23E-04	20	5.57%	161	7.51E-04
5	1.28%	37	1.73E-04	13	5.28%	153	7.12E-04	21	4.30%	125	5.80E-04
6	3.20%	93	4.32E-04	14	5.52%	160	7.45E-04	22	3.50%	102	4.73E-04
7	4.97%	144	6.70E-04	15	6.09%	177	8.22E-04	23	2.42%	70	3.26E-04
8	6.11%	177	8.25E-04	16	5.76%	167	7.78E-04	24	1.50%	44	2.03E-04
								Total		2,900	

Google Middlefield Park - Roadway Modeling
Logue Avenue Traffic - Existing Traffic
Fugitive Road PM2.5 Modeling - Roadway Links, Traffic Volumes, and Fugitive Road PM2.5 Emissions
Year = 2026

											Line Area			
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Emission (g/s/m2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimension
FUG_LOG	Logue Avenue	N-S	2	609.7	0.38	13.3	44	1.3	25	2,900	8,118	4.194E-08	2.6	1.21

Emission Factors - Fugitive PM2.5

Speed Category	1	2	3	4
Travel Speed (mph)	25			
Tire Wear - Emissions per Vehicle (g/VMT)	0.00203			
Brake Wear - Emissions per Vehicle (g/VMT)	0.00562			
Road Dust - Emissions per Vehicle (g/VMT)	0.01912			
l Fugitive PM2.5 - Emissions per Vehicle (g/VMT)	0.02677			

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and Fugitive PM2.5 Emissions - FUG_LOG

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.73%	21	5.95E-05	9	6.63%	192	5.41E-04	17	5.87%	170	4.79E-04
2	0.44%	13	3.58E-05	10	6.71%	195	5.48E-04	18	6.09%	177	4.98E-04
3	0.35%	10	2.87E-05	11	6.03%	175	4.92E-04	19	5.83%	169	4.77E-04
4	0.48%	14	3.88E-05	12	5.35%	155	4.37E-04	20	5.57%	161	4.55E-04
5	1.28%	37	1.05E-04	13	5.28%	153	4.31E-04	21	4.30%	125	3.51E-04
6	3.20%	93	2.61E-04	14	5.52%	160	4.51E-04	22	3.50%	102	2.86E-04
7	4.97%	144	4.06E-04	15	6.09%	177	4.97E-04	23	2.42%	70	1.98E-04
8	6.11%	177	4.99E-04	16	5.76%	167	4.71E-04	24	1.50%	44	1.23E-04
								Total		2,900	

Google Middlefield Park - Roadway Modeling
Maude Avenue Traffic - Existing Traffic
DPM Modeling - Roadway Links, Traffic Volumes, and DPM Emissions
Year = 2026

											Line Area			
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Emission (g/s/m2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimension
DPM_MAD	Maude Avenue	E-W	2	667.8	0.41	13.3	43.7	3.4	25	6,580	8,892	1.611E-09	6.8	3.16

Emission Factors - DPM

Speed Category	1	2	3	4
Travel Speed (mph)	25			
Emissions per Vehicle (g/VMT)	0.00045			

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and DPM Emissions - DPM_MAD

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.73%	48	2.51E-06	9	6.63%	436	2.28E-05	17	5.87%	386	2.02E-05
2	0.44%	29	1.51E-06	10	6.71%	442	2.31E-05	18	6.09%	401	2.09E-05
3	0.35%	23	1.21E-06	11	6.03%	396	2.07E-05	19	5.83%	384	2.01E-05
4	0.48%	31	1.63E-06	12	5.35%	352	1.84E-05	20	5.57%	366	1.91E-05
5	1.28%	84	4.41E-06	13	5.28%	347	1.82E-05	21	4.30%	283	1.48E-05
6	3.20%	210	1.10E-05	14	5.52%	363	1.90E-05	22	3.50%	230	1.20E-05
7	4.97%	327	1.71E-05	15	6.09%	401	2.09E-05	23	2.42%	159	8.32E-06
8	6.11%	402	2.10E-05	16	5.76%	379	1.98E-05	24	1.50%	99	5.17E-06
								Total		6,580	

Google Middlefield Park - Roadway Modeling
Maude Avenue Traffic - Existing Traffic
PM2.5 Modeling - Roadway Links, Traffic Volumes, and PM2.5 Emissions
Year = 2026

											Line Area			
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Emission (g/s/m2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimension
PM25_MAD	Maude Avenue	E-W	2	667.8	0.41	13.3	44	1.3	25	6,580	8,892	8.197E-09	2.6	1.21

Emission Factors - PM2.5

Speed Category	1	2	3	4
Travel Speed (mph)	25			
Emissions per Vehicle (g/VMT)	0.002307			

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and PM2.5 Emissions - PM25_MAD

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.73%	48	1.27E-05	9	6.63%	436	1.16E-04	17	5.87%	386	1.03E-04
2	0.44%	29	7.66E-06	10	6.71%	442	1.17E-04	18	6.09%	401	1.07E-04
3	0.35%	23	6.15E-06	11	6.03%	396	1.05E-04	19	5.83%	384	1.02E-04
4	0.48%	31	8.32E-06	12	5.35%	352	9.37E-05	20	5.57%	366	9.74E-05
5	1.28%	84	2.24E-05	13	5.28%	347	9.23E-05	21	4.30%	283	7.52E-05
6	3.20%	210	5.60E-05	14	5.52%	363	9.66E-05	22	3.50%	230	6.13E-05
7	4.97%	327	8.69E-05	15	6.09%	401	1.07E-04	23	2.42%	159	4.23E-05
8	6.11%	402	1.07E-04	16	5.76%	379	1.01E-04	24	1.50%	99	2.63E-05
								Total		6,580	

Google Middlefield Park - Roadway Modeling
Maude Avenue Traffic - Existing Traffic
TOG Exhaust Modeling - Roadway Links, Traffic Volumes, and TOG Exhaust Emissions
Year = 2026

											Line Area			
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Emission (g/s/m2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimensio
TEXH_MAD	Maude Avenue	E-W	2	667.8	0.41	13.3	44	1.3	25	6,580	8,892	9.941E-08	2.6	1.21

Emission Factors - TOG Exhaust

Speed Category	1	2	3	4
Travel Speed (mph)	25			
All Vehicles TOG Emissions per Vehicle (g/VMT)	0.02944			
Diesel Vehicles TOG Emissions per Vehicle (g/VMT)	0.00147			
Gasoline Vehicles Emissions per Vehicle (g/VMT)	0.02797			

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and TOG Exhaust Emissions - TEXH_MAD

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.73%	48	1.55E-04	9	6.63%	436	1.41E-03	17	5.87%	386	1.24E-03
2	0.44%	29	9.29E-05	10	6.71%	442	1.42E-03	18	6.09%	401	1.29E-03
3	0.35%	23	7.46E-05	11	6.03%	396	1.28E-03	19	5.83%	384	1.24E-03
4	0.48%	31	1.01E-04	12	5.35%	352	1.14E-03	20	5.57%	366	1.18E-03
5	1.28%	84	2.72E-04	13	5.28%	347	1.12E-03	21	4.30%	283	9.12E-04
6	3.20%	210	6.79E-04	14	5.52%	363	1.17E-03	22	3.50%	230	7.43E-04
7	4.97%	327	1.05E-03	15	6.09%	401	1.29E-03	23	2.42%	159	5.13E-04
8	6.11%	402	1.30E-03	16	5.76%	379	1.22E-03	24	1.50%	99	3.19E-04
								Total		6,580	

Google Middlefield Park - Roadway Modeling
Maude Avenue Traffic - Existing Traffic
TOG Evaporative Emissions Modeling - Roadway Links, Traffic Volumes, and TOG Evaporative Emissions
Year = 2026

											Line Area			
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Emission (g/s/m2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimensio
TEVAP_MAD	Maude Avenue	E-W	2	667.8	0.41	13.3	44	1.3	25	6,580	8,892	1.572E-07	2.6	1.21

Emission Factors - PM2.5 - Evaporative TOG

Speed Category	1	2	3	4
Travel Speed (mph)	25			
Emissions per Vehicle per Hour (g/hour)	1.10553			
Emissions per Vehicle per Mile (g/VMT)	0.04422			

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and TOG Evaporative Emissions - TEVAP_MAD

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.73%	48	2.44E-04	9	6.63%	436	2.22E-03	17	5.87%	386	1.97E-03
2	0.44%	29	1.47E-04	10	6.71%	442	2.25E-03	18	6.09%	401	2.04E-03
3	0.35%	23	1.18E-04	11	6.03%	396	2.02E-03	19	5.83%	384	1.96E-03
4	0.48%	31	1.59E-04	12	5.35%	352	1.80E-03	20	5.57%	366	1.87E-03
5	1.28%	84	4.30E-04	13	5.28%	347	1.77E-03	21	4.30%	283	1.44E-03
6	3.20%	210	1.07E-03	14	5.52%	363	1.85E-03	22	3.50%	230	1.17E-03
7	4.97%	327	1.67E-03	15	6.09%	401	2.04E-03	23	2.42%	159	8.11E-04
8	6.11%	402	2.05E-03	16	5.76%	379	1.93E-03	24	1.50%	99	5.04E-04
								Total		6,580	

Google Middlefield Park - Roadway Modeling
Maude Avenue Traffic - Existing Traffic
Fugitive Road PM2.5 Modeling - Roadway Links, Traffic Volumes, and Fugitive Road PM2.5 Emissions
Year = 2026

											Line Area			
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Emission (g/s/m2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimension
FUG_MAD	Maude Avenue	E-W	2	667.8	0.41	13.3	44	1.3	25	6,580	8,892	9.515E-08	2.6	1.21

Emission Factors - Fugitive PM2.5

Speed Category	1	2	3	4
Travel Speed (mph)	25			
Tire Wear - Emissions per Vehicle (g/VMT)	0.00203			
Brake Wear - Emissions per Vehicle (g/VMT)	0.00562			
Road Dust - Emissions per Vehicle (g/VMT)	0.01912			
l Fugitive PM2.5 - Emissions per Vehicle (g/VMT)	0.02677			

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and Fugitive PM2.5 Emissions - FUG_MAD

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.73%	48	1.48E-04	9	6.63%	436	1.35E-03	17	5.87%	386	1.19E-03
2	0.44%	29	8.90E-05	10	6.71%	442	1.36E-03	18	6.09%	401	1.24E-03
3	0.35%	23	7.14E-05	11	6.03%	396	1.22E-03	19	5.83%	384	1.18E-03
4	0.48%	31	9.65E-05	12	5.35%	352	1.09E-03	20	5.57%	366	1.13E-03
5	1.28%	84	2.60E-04	13	5.28%	347	1.07E-03	21	4.30%	283	8.73E-04
6	3.20%	210	6.49E-04	14	5.52%	363	1.12E-03	22	3.50%	230	7.11E-04
7	4.97%	327	1.01E-03	15	6.09%	401	1.24E-03	23	2.42%	159	4.91E-04
8	6.11%	402	1.24E-03	16	5.76%	379	1.17E-03	24	1.50%	99	3.05E-04
								Total		6,580	

Google Middlefield Park - Roadway Modeling
Maude Avenue Traffic - Existing Traffic
DPM Modeling - Roadway Links, Traffic Volumes, and DPM Emissions
Year = 2026

											Line Area			
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Emission (g/s/m2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimension
DPM_CLY	Clyde Avenue	N-S	2	880.0	0.55	13.3	43.7	3.4	25	2,480	11,717	6.073E-10	6.8	3.16

Emission Factors - DPM

Speed Category	1	2	3	4
Travel Speed (mph)	25			
Emissions per Vehicle (g/VMT)	0.00045			

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and DPM Emissions - DPM_CLY

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.73%	18	1.24E-06	9	6.63%	164	1.13E-05	17	5.87%	146	1.00E-05
2	0.44%	11	7.48E-07	10	6.71%	166	1.15E-05	18	6.09%	151	1.04E-05
3	0.35%	9	6.00E-07	11	6.03%	149	1.03E-05	19	5.83%	145	9.96E-06
4	0.48%	12	8.12E-07	12	5.35%	133	9.14E-06	20	5.57%	138	9.51E-06
5	1.28%	32	2.19E-06	13	5.28%	131	9.01E-06	21	4.30%	107	7.34E-06
6	3.20%	79	5.46E-06	14	5.52%	137	9.43E-06	22	3.50%	87	5.98E-06
7	4.97%	123	8.48E-06	15	6.09%	151	1.04E-05	23	2.42%	60	4.13E-06
8	6.11%	152	1.04E-05	16	5.76%	143	9.84E-06	24	1.50%	37	2.57E-06
								Total		2,480	

Google Middlefield Park - Roadway Modeling
Maude Avenue Traffic - Existing Traffic
PM2.5 Modeling - Roadway Links, Traffic Volumes, and PM2.5 Emissions
Year = 2026

											Line Area			
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Emission (g/s/m2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimension
PM25_CLY	Clyde Avenue	N-S	2	880.0	0.55	13.3	44	1.3	25	2,480	11,717	3.090E-09	2.6	1.21

Emission Factors - PM2.5

Speed Category	1	2	3	4
Travel Speed (mph)	25			
Emissions per Vehicle (g/VMT)	0.002307			

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and PM2.5 Emissions - PM25_CLY

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.73%	18	6.33E-06	9	6.63%	164	5.76E-05	17	5.87%	146	5.10E-05
2	0.44%	11	3.81E-06	10	6.71%	166	5.83E-05	18	6.09%	151	5.29E-05
3	0.35%	9	3.05E-06	11	6.03%	149	5.23E-05	19	5.83%	145	5.07E-05
4	0.48%	12	4.13E-06	12	5.35%	133	4.65E-05	20	5.57%	138	4.84E-05
5	1.28%	32	1.11E-05	13	5.28%	131	4.59E-05	21	4.30%	107	3.73E-05
6	3.20%	79	2.78E-05	14	5.52%	137	4.80E-05	22	3.50%	87	3.04E-05
7	4.97%	123	4.32E-05	15	6.09%	151	5.29E-05	23	2.42%	60	2.10E-05
8	6.11%	152	5.31E-05	16	5.76%	143	5.01E-05	24	1.50%	37	1.31E-05
								Total		2,480	

Google Middlefield Park - Roadway Modeling
Maude Avenue Traffic - Existing Traffic
TOG Exhaust Modeling - Roadway Links, Traffic Volumes, and TOG Exhaust Emissions
Year = 2026

											Line Area			
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Emission (g/s/m2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimensio
TEXH_CLY	Clyde Avenue	N-S	2	880.0	0.55	13.3	44	1.3	25	2,480	11,717	3.747E-08	2.6	1.21

Emission Factors - TOG Exhaust

Speed Category	1	2	3	4
Travel Speed (mph)	25			
All Vehicles TOG Emissions per Vehicle (g/VMT)	0.02944			
Diesel Vehicles TOG Emissions per Vehicle (g/VMT)	0.00147			
Gasoline Vehicles Emissions per Vehicle (g/VMT)	0.02797			

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and TOG Exhaust Emissions - TEXH_CLY

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.73%	18	7.68E-05	9	6.63%	164	6.98E-04	17	5.87%	146	6.18E-04
2	0.44%	11	4.62E-05	10	6.71%	166	7.07E-04	18	6.09%	151	6.42E-04
3	0.35%	9	3.70E-05	11	6.03%	149	6.35E-04	19	5.83%	145	6.15E-04
4	0.48%	12	5.01E-05	12	5.35%	133	5.64E-04	20	5.57%	138	5.86E-04
5	1.28%	32	1.35E-04	13	5.28%	131	5.56E-04	21	4.30%	107	4.53E-04
6	3.20%	79	3.37E-04	14	5.52%	137	5.82E-04	22	3.50%	87	3.69E-04
7	4.97%	123	5.23E-04	15	6.09%	151	6.41E-04	23	2.42%	60	2.55E-04
8	6.11%	152	6.44E-04	16	5.76%	143	6.07E-04	24	1.50%	37	1.58E-04
								Total		2,480	

Google Middlefield Park - Roadway Modeling
Maude Avenue Traffic - Existing Traffic
TOG Evaporative Emissions Modeling - Roadway Links, Traffic Volumes, and TOG Evaporative Emissions
Year = 2026

											Line Area			
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Emission (g/s/m2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimensio
TEVAP_CLY	Clyde Avenue	N-S	2	880.0	0.55	13.3	44	1.3	25	2,480	11,717	5.923E-08	2.6	1.21

Emission Factors - PM2.5 - Evaporative TOG

Speed Category	1	2	3	4
Travel Speed (mph)	25			
Emissions per Vehicle per Hour (g/hour)	1.10553			
Emissions per Vehicle per Mile (g/VMT)	0.04422			

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and TOG Evaporative Emissions - TEVAP_CLY

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.73%	18	1.21E-04	9	6.63%	164	1.10E-03	17	5.87%	146	9.78E-04
2	0.44%	11	7.30E-05	10	6.71%	166	1.12E-03	18	6.09%	151	1.01E-03
3	0.35%	9	5.86E-05	11	6.03%	149	1.00E-03	19	5.83%	145	9.72E-04
4	0.48%	12	7.92E-05	12	5.35%	133	8.92E-04	20	5.57%	138	9.27E-04
5	1.28%	32	2.14E-04	13	5.28%	131	8.79E-04	21	4.30%	107	7.16E-04
6	3.20%	79	5.33E-04	14	5.52%	137	9.20E-04	22	3.50%	87	5.83E-04
7	4.97%	123	8.27E-04	15	6.09%	151	1.01E-03	23	2.42%	60	4.03E-04
8	6.11%	152	1.02E-03	16	5.76%	143	9.60E-04	24	1.50%	37	2.51E-04
								Total		2,480	

Google Middlefield Park - Roadway Modeling
Maude Avenue Traffic - Existing Traffic
Fugitive Road PM2.5 Modeling - Roadway Links, Traffic Volumes, and Fugitive Road PM2.5 Emissions
Year = 2026

											Line Area			
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Emission (g/s/m2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimension
FUG_CLY	Clyde Avenue	N-S	2	880.0	0.55	13.3	44	1.3	25	2,480	11,717	3.586E-08	2.6	1.21

Emission Factors - Fugitive PM2.5

Speed Category	1	2	3	4
Travel Speed (mph)	25			
Tire Wear - Emissions per Vehicle (g/VMT)	0.00203			
Brake Wear - Emissions per Vehicle (g/VMT)	0.00562			
Road Dust - Emissions per Vehicle (g/VMT)	0.01912			
l Fugitive PM2.5 - Emissions per Vehicle (g/VMT)	0.02677			

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and Fugitive PM2.5 Emissions - FUG_CLY

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.73%	18	7.35E-05	9	6.63%	164	0.00E+00	17	5.87%	146	0.00E+00
2	0.44%	11	4.42E-05	10	6.71%	166	6.77E-04	18	6.09%	151	0.00E+00
3	0.35%	9	3.54E-05	11	6.03%	149	6.08E-04	19	5.83%	145	5.88E-04
4	0.48%	12	4.79E-05	12	5.35%	133	5.40E-04	20	5.57%	138	5.61E-04
5	1.28%	32	1.29E-04	13	5.28%	131	5.32E-04	21	4.30%	107	4.33E-04
6	3.20%	79	3.23E-04	14	5.52%	137	5.57E-04	22	3.50%	87	3.53E-04
7	4.97%	123	5.01E-04	15	6.09%	151	6.14E-04	23	2.42%	60	2.44E-04
8	6.11%	152	0.00E+00	16	5.76%	143	5.81E-04	24	1.50%	37	1.52E-04
								Total		2,480	

State Route 237 - Existing Traffic Emissions

Emission Factors for State Route 237 Traffic

File Name:
EMFAC2021/CT-EMFAC2017:
Run Date: 9/30/2021 11:04
Area: Santa Clara (SF)
Analysis Year: 2026
Season: Annual

Vehicle Category	VMT Fraction Across Category	Diesel VMT Fraction Within Category	Gas VMT Fraction Within Category
Truck 1	0.015	0.508	0.492
Truck 2	0.03	0.935	0.049
Non-Truck	0.955	0.015	0.949

Road Type:
Silt Loading Factor: CARB 0.015
Precipitation Correction: CARB P = 64 days N = 365 days

Fleet Average Running Exhaust Emission Factors (grams/veh-mile)

Pollutant Name	<= 5 mph	10 mph	15 mph	20 mph	25 mph	30 mph	35 mph	40 mph	45 mph	50 mph	55 mph	60 mph	65 mph	70 mph
PM2.5	0.00898	0.00595	0.00407	0.00293	0.00224	0.00181	0.00155	0.00142	0.00139	0.00144	0.00157	0.00178	0.00206	0.00217
TOG	0.12624	0.08141	0.05419	0.03811	0.02859	0.02260	0.01875	0.01632	0.01493	0.01436	0.01454	0.01550	0.01740	0.01876
Diesel PM	0.00092	0.00078	0.00062	0.00050	0.00044	0.00042	0.00043	0.00047	0.00053	0.00062	0.00075	0.00090	0.00106	0.00107
DEOG	0.00986	0.00692	0.00363	0.00185	0.00129	0.00102	0.00083	0.00070	0.00063	0.00059	0.00060	0.00064	0.00070	0.00077

Fleet Average Running Loss Emission Factors (grams/veh-hour)

Pollutant Name	Emission Factor
TOG	1.109224107

Fleet Average Tire Wear Factors (grams/veh-mile)

Pollutant Name	
PM2.5	0.00210

Fleet Average Brake Wear Factors (grams/veh-mile)

Pollutant Name	<= 5 mph	10 mph	15 mph	20 mph	25 mph	30 mph	35 mph	40 mph	45 mph	50 mph	55 mph	60 mph	65 mph	70 mph
PM2.5	0.00403	0.00457	0.00509	0.00560	0.00585	0.00592	0.00588	0.00534	0.00425	0.00319	0.00254	0.00224	0.00194	0.00194

Fleet Average Road Dust Factors (grams/veh-mile)

Pollutant Name	Emission Factor
PM2.5	0.00799

==========END==========

Google Middlefield Park - Roadway Modeling
State Route 237 Traffic
DPM Modeling - Roadway Links, Traffic Volumes, and DPM Emissions
Year = 2026

											Line Area			
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Emission (g/s/m2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimension
DPM_E237	Eastbound SR-237	NE	2	840.2	0.52	13.3	43.7	3.4	60	31,270	11,187	1.798E-08	6.8	3.16
DPM_W237	Westbound SR-237	SW	2	840.2	0.52	13.3	43.7	3.4	60	31,270	11,187	1.798E-08	6.8	3.16
									Total	62,540				

Emission Factors - DPM

Speed Category	1	2	3	4
Travel Speed (mph)	65			
Emissions per Vehicle (g/VMT)	0.00106			

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and DPM Emissions - DPM_E237

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.73%	228	3.52E-05	9	6.63%	2072	3.20E-04	17	5.87%	1835	2.83E-04
2	0.44%	137	2.11E-05	10	6.71%	2098	3.24E-04	18	6.09%	1904	2.94E-04
3	0.35%	110	1.70E-05	11	6.03%	1884	2.91E-04	19	5.83%	1824	2.82E-04
4	0.48%	149	2.29E-05	12	5.35%	1674	2.58E-04	20	5.57%	1741	2.69E-04
5	1.28%	401	6.19E-05	13	5.28%	1650	2.55E-04	21	4.30%	1344	2.07E-04
6	3.20%	1000	1.54E-04	14	5.52%	1726	2.66E-04	22	3.50%	1095	1.69E-04
7	4.97%	1553	2.40E-04	15	6.09%	1904	2.94E-04	23	2.42%	756	1.17E-04
8	6.11%	1911	2.95E-04	16	5.76%	1802	2.78E-04	24	1.50%	470	7.26E-05
								Total		31,270	

2026 Hourly Traffic Volumes Per Direction and DPM Emissions - DPM_W237

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	0.73%	228	3.52E-05	9	6.63%	2072	3.20E-04	17	5.87%	1835	2.83E-04
2	0.44%	137	2.11E-05	10	6.71%	2098	3.24E-04	18	6.09%	1904	2.94E-04
3	0.35%	110	1.70E-05	11	6.03%	1884	2.91E-04	19	5.83%	1824	2.82E-04
4	0.48%	149	2.29E-05	12	5.35%	1674	2.58E-04	20	5.57%	1741	2.69E-04
5	1.28%	401	6.19E-05	13	5.28%	1650	2.55E-04	21	4.30%	1344	2.07E-04
6	3.20%	1000	1.54E-04	14	5.52%	1726	2.66E-04	22	3.50%	1095	1.69E-04
7	4.97%	1553	2.40E-04	15	6.09%	1904	2.94E-04	23	2.42%	756	1.17E-04
8	6.11%	1911	2.95E-04	16	5.76%	1802	2.78E-04	24	1.50%	470	7.26E-05
								Total		31,270	

Analysis Year = ***2026***

Vehicle Type	2020 Caltrans Vehicles (veh/day)	2026 Vehicles (veh/day)
Truck 1 (MDT)	781	828
Truck 2 (HDT)	1,797	1,905
Non-Truck	56,422	59,807
Total	**59,000**	**62,540**

Increase From 2020	1.06
Vehicles/Direction	**31,270**
Avg Vehicles/Hour/Direction	1,303

Traffic Data Year = ***2020***

Calrtrans 2020 Average Daily Truck ADT	AADT Total	Total Truck	Trucks by Axle 2	3	4	5
Rte 237 B Sunnyvale, Jct Rte 101	59,000	2,578	781	375	67	1,355
			30.31%	14.55%	2.60%	52.55%
Percent of Total Vehicles		4.37%	1.32%	0.64%	0.11%	2.30%

Traffic Increase per Year (%) = *1.00%*

Google Middlefield Park - Roadway Modeling
State Route 237 Traffic
PM2.5 Modeling - Roadway Links, Traffic Volumes, and PM2.5 Emissions
Year = 2026

											Line Area			
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Emission (g/s/m2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimension
PM25_E237	Eastbound SR-237	NE	2	840.2	0.52	13.3	44	1.3	60	31,270	11,187	3.482E-08	2.6	1.21
PM25_W237	Westbound SR-237	SW	2	840.2	0.52	13.3	44	1.3	60	31,270	11,187	3.482E-08	2.6	1.21
									Total	62,540				

Emission Factors - PM2.5

Speed Category	1	2	3	4
Travel Speed (mph)	65			
Emissions per Vehicle (g/VMT)	0.002062			

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and PM2.5 Emissions - PM25_E237

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.73%	228	6.81E-05	9	6.63%	2072	6.20E-04	17	5.87%	1835	5.49E-04
2	0.44%	137	4.10E-05	10	6.71%	2098	6.27E-04	18	6.09%	1904	5.69E-04
3	0.35%	110	3.29E-05	11	6.03%	1884	5.63E-04	19	5.83%	1824	5.45E-04
4	0.48%	149	4.44E-05	12	5.35%	1674	5.01E-04	20	5.57%	1741	5.20E-04
5	1.28%	401	1.20E-04	13	5.28%	1650	4.93E-04	21	4.30%	1344	4.02E-04
6	3.20%	1000	2.99E-04	14	5.52%	1726	5.16E-04	22	3.50%	1095	3.27E-04
7	4.97%	1553	4.64E-04	15	6.09%	1904	5.69E-04	23	2.42%	756	2.26E-04
8	6.11%	1911	5.71E-04	16	5.76%	1802	5.39E-04	24	1.50%	470	1.41E-04
								Total		31,270	

2026 Hourly Traffic Volumes Per Direction and PM2.5 Emissions - PM25_W237

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	0.73%	228	6.81E-05	9	6.63%	2072	6.20E-04	17	5.87%	1835	5.49E-04
2	0.44%	137	4.10E-05	10	6.71%	2098	6.27E-04	18	6.09%	1904	5.69E-04
3	0.35%	110	3.29E-05	11	6.03%	1884	5.63E-04	19	5.83%	1824	5.45E-04
4	0.48%	149	4.44E-05	12	5.35%	1674	5.01E-04	20	5.57%	1741	5.20E-04
5	1.28%	401	1.20E-04	13	5.28%	1650	4.93E-04	21	4.30%	1344	4.02E-04
6	3.20%	1000	2.99E-04	14	5.52%	1726	5.16E-04	22	3.50%	1095	3.27E-04
7	4.97%	1553	4.64E-04	15	6.09%	1904	5.69E-04	23	2.42%	756	2.26E-04
8	6.11%	1911	5.71E-04	16	5.76%	1802	5.39E-04	24	1.50%	470	1.41E-04
								Total		31,270	

Google Middlefield Park - Roadway Modeling
State Route 237 Traffic
TOG Exhaust Modeling - Roadway Links, Traffic Volumes, and TOG Exhaust Emissions
Year = 2026

											Line Area			
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Emission (g/s/m2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimensio
TEXH_E237	Eastbound SR-237	NE	2	840.2	0.52	13.3	44	1.3	60	31,270	11,187	2.820E-07	2.6	1.21
TEXH_W237	Westbound SR-237	SW	2	840.2	0.52	13.3	44	1.3	60	31,270	11,187	2.820E-07	2.6	1.21
									Total	62,540				

Emission Factors - TOG Exhaust

Speed Category	1	2	3	4
Travel Speed (mph)	65			
All Vehicles TOG Emissions per Vehicle (g/VMT)	0.01740			
Diesel Vehicles TOG Emissions per Vehicle (g/VMT)	0.00070			
Gasoline Vehicles Emissions per Vehicle (g/VMT)	0.01670			

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and TOG Exhaust Emissions - TEXH_E237

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.73%	228	5.52E-04	9	6.63%	2072	5.02E-03	17	5.87%	1835	4.44E-03
2	0.44%	137	3.32E-04	10	6.71%	2098	5.08E-03	18	6.09%	1904	4.61E-03
3	0.35%	110	2.66E-04	11	6.03%	1884	4.56E-03	19	5.83%	1824	4.42E-03
4	0.48%	149	3.60E-04	12	5.35%	1674	4.05E-03	20	5.57%	1741	4.21E-03
5	1.28%	401	9.71E-04	13	5.28%	1650	4.00E-03	21	4.30%	1344	3.25E-03
6	3.20%	1000	2.42E-03	14	5.52%	1726	4.18E-03	22	3.50%	1095	2.65E-03
7	4.97%	1553	3.76E-03	15	6.09%	1904	4.61E-03	23	2.42%	756	1.83E-03
8	6.11%	1911	4.63E-03	16	5.76%	1802	4.36E-03	24	1.50%	470	1.14E-03
								Total		31,270	

2026 Hourly Traffic Volumes Per Direction and TOG Exhaust Emissions - TEXH_W237

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	0.73%	228	5.52E-04	9	6.63%	2072	5.02E-03	17	5.87%	1835	4.44E-03
2	0.44%	137	3.32E-04	10	6.71%	2098	5.08E-03	18	6.09%	1904	4.61E-03
3	0.35%	110	2.66E-04	11	6.03%	1884	4.56E-03	19	5.83%	1824	4.42E-03
4	0.48%	149	3.60E-04	12	5.35%	1674	4.05E-03	20	5.57%	1741	4.21E-03
5	1.28%	401	9.71E-04	13	5.28%	1650	4.00E-03	21	4.30%	1344	3.25E-03
6	3.20%	1000	2.42E-03	14	5.52%	1726	4.18E-03	22	3.50%	1095	2.65E-03
7	4.97%	1553	3.76E-03	15	6.09%	1904	4.61E-03	23	2.42%	756	1.83E-03
8	6.11%	1911	4.63E-03	16	5.76%	1802	4.36E-03	24	1.50%	470	1.14E-03
								Total		31,270	

Google Middlefield Park - Roadway Modeling
State Route 237 Traffic
TOG Evaporative Emissions Modeling - Roadway Links, Traffic Volumes, and TOG Evaporative Emissions
Year = 2026

											Line Area			
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Emission (g/s/m2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimensio
TEVAP_E237	Eastbound SR-237	NE	2	840.2	0.52	13.3	44	1.3	60	31,270	11,187	2.882E-07	2.6	1.21
TEVAP_W237	Westbound SR-237	SW	2	840.2	0.52	13.3	44	1.3	60	31,270	11,187	2.882E-07	2.6	1.21
									Total	62,540				

Emission Factors - PM2.5 - Evaporative TOG

Speed Category	1	2	3	4
Travel Speed (mph)	65			
Emissions per Vehicle per Hour (g/hour)	1.10922			
Emissions per Vehicle per Mile (g/VMT)	0.01706			

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and TOG Evaporative Emissions - TEVAP_E237

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.73%	228	5.64E-04	9	6.63%	2072	5.13E-03	17	5.87%	1835	4.54E-03
2	0.44%	137	3.39E-04	10	6.71%	2098	5.19E-03	18	6.09%	1904	4.71E-03
3	0.35%	110	2.72E-04	11	6.03%	1884	4.66E-03	19	5.83%	1824	4.51E-03
4	0.48%	149	3.68E-04	12	5.35%	1674	4.14E-03	20	5.57%	1741	4.31E-03
5	1.28%	401	9.92E-04	13	5.28%	1650	4.08E-03	21	4.30%	1344	3.33E-03
6	3.20%	1000	2.48E-03	14	5.52%	1726	4.27E-03	22	3.50%	1095	2.71E-03
7	4.97%	1553	3.84E-03	15	6.09%	1904	4.71E-03	23	2.42%	756	1.87E-03
8	6.11%	1911	4.73E-03	16	5.76%	1802	4.46E-03	24	1.50%	470	1.16E-03
								Total		31,270	

2026 Hourly Traffic Volumes Per Direction and TOG Evaporative Emissions - TEVAP_W237

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	0.73%	228	5.64E-04	9	6.63%	2072	5.13E-03	17	5.87%	1835	4.54E-03
2	0.44%	137	3.39E-04	10	6.71%	2098	5.19E-03	18	6.09%	1904	4.71E-03
3	0.35%	110	2.72E-04	11	6.03%	1884	4.66E-03	19	5.83%	1824	4.51E-03
4	0.48%	149	3.68E-04	12	5.35%	1674	4.14E-03	20	5.57%	1741	4.31E-03
5	1.28%	401	9.92E-04	13	5.28%	1650	4.08E-03	21	4.30%	1344	3.33E-03
6	3.20%	1000	2.48E-03	14	5.52%	1726	4.27E-03	22	3.50%	1095	2.71E-03
7	4.97%	1553	3.84E-03	15	6.09%	1904	4.71E-03	23	2.42%	756	1.87E-03
8	6.11%	1911	4.73E-03	16	5.76%	1802	4.46E-03	24	1.50%	470	1.16E-03
								Total		31,270	

Google Middlefield Park - Roadway Modeling
State Route 237 Traffic
Fugitive Road PM2.5 Modeling - Roadway Links, Traffic Volumes, and Fugitive Road PM2.5 Emissions
Year = 2026

											Line Area			
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Emission (g/s/m2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimension
FUG_E237	Eastbound SR-237	NE	2	840.2	0.52	13.3	44	1.3	60	31,270	11,187	2.032E-07	2.6	1.21
FUG_W237	Westbound SR-237	SW	2	840.2	0.52	13.3	44	1.3	60	31,270	11,187	2.032E-07	2.6	1.21
									Total	62,540				

Emission Factors - Fugitive PM2.5

Speed Category	1	2	3	4
Travel Speed (mph)	65	0		
Tire Wear - Emissions per Vehicle (g/VMT)	0.00210	0.00210		
Brake Wear - Emissions per Vehicle (g/VMT)	0.00194	0.00194		
Road Dust - Emissions per Vehicle (g/VMT)	0.00799	0.00799		
l Fugitive PM2.5 - Emissions per Vehicle (g/VMT)	0.01203	0.01203		

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and Fugitive PM2.5 Emissions - FUG_E237

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.73%	228	3.97E-04	9	6.63%	2072	3.61E-03	17	5.87%	1835	3.20E-03
2	0.44%	137	2.39E-04	10	6.71%	2098	3.66E-03	18	6.09%	1904	3.32E-03
3	0.35%	110	1.92E-04	11	6.03%	1884	3.29E-03	19	5.83%	1824	3.18E-03
4	0.48%	149	2.59E-04	12	5.35%	1674	2.92E-03	20	5.57%	1741	3.04E-03
5	1.28%	401	6.99E-04	13	5.28%	1650	2.88E-03	21	4.30%	1344	2.34E-03
6	3.20%	1000	1.74E-03	14	5.52%	1726	3.01E-03	22	3.50%	1095	1.91E-03
7	4.97%	1553	2.71E-03	15	6.09%	1904	3.32E-03	23	2.42%	756	1.32E-03
8	6.11%	1911	3.33E-03	16	5.76%	1802	3.14E-03	24	1.50%	470	8.20E-04
								Total		31,270	

2026 Hourly Traffic Volumes Per Direction and Fugitive PM2.5 Emissions - FUG_W237

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	0.73%	228	3.97E-04	9	6.63%	2072	3.61E-03	17	5.87%	1835	3.20E-03
2	0.44%	137	2.39E-04	10	6.71%	2098	3.66E-03	18	6.09%	1904	3.32E-03
3	0.35%	110	1.92E-04	11	6.03%	1884	3.29E-03	19	5.83%	1824	3.18E-03
4	0.48%	149	2.59E-04	12	5.35%	1674	2.92E-03	20	5.57%	1741	3.04E-03
5	1.28%	401	6.99E-04	13	5.28%	1650	2.88E-03	21	4.30%	1344	2.34E-03
6	3.20%	1000	1.74E-03	14	5.52%	1726	3.01E-03	22	3.50%	1095	1.91E-03
7	4.97%	1553	2.71E-03	15	6.09%	1904	3.32E-03	23	2.42%	756	1.32E-03
8	6.11%	1911	3.33E-03	16	5.76%	1802	3.14E-03	24	1.50%	470	8.20E-04
								Total		31,270	

Health Risk Impacts from Existing Traffic on Local Roads and State Route 237

Google Middlefield - Background (Existing) Traffic - TACs & PM2.5
Local Roads and State Route 237
AERMOD Risk Modeling Parameters and Maximum Concentrations
Maximum Cancer Risk Calculations for Existing Roadway Traffic- Unmtigated
Off-Site Residential Receptors

Receptor Information

Number of Receptors	242
Receptor Height =	1st and 2nd floor levels
Receptor distances =	at sensitive residential receptor locations

Meteorological Conditions

CARB Moffett Field Met Data	2009-2013
Land Use Classification	urban
Wind speed =	variable
Wind direction =	variable

Off-Site MEIs Maximum Concentrations

Emission Years	Concentration (µg/m^3)		
	DPM	Exhaust TOG	Evaporative TOG
2023 - Construction	0.00000	0.0000	0.0000
2024 - Construction	0.00000	0.0000	0.0000
2025 - Construction	0.00000	0.0000	0.0000
2026 - Construction	0.00000	0.0000	0.0000
2027 - Construction	0.00000	0.0000	0.0000
2028 - Construction	0.00000	0.0000	0.0000
2029 - Construction	0.00000	0.0000	0.0000
2030 - Construction	0.00000	0.0000	0.0000
2031 - Construction	0.00000	0.0000	0.0000
2026-2054 - Roads	0.00155	0.0495	0.0722
2026-2054 - Generators	0.00000	0.0000	0.0000

Emission Year	Maximum Total PM2.5 Concentration (µg/m3)
2025	0.070

Google Middlefield - Local Roads & SR-237 with Background (Existing) Traffic at Location of Off-Site MEIs
Maximum Cancer Risk Calculations for Existing Roadway Traffic- Unmtigated
Off-Site Residential Receptors
Residential Exposure (30-year)

Cancer Risk Calculation Method

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor $(mg/kg\text{-}day)^{-1}$
ASF = Age sensitivity factor for specified age group
ED = Exposure duration (years)
AT = Averaging time for lifetime cancer risk (years)
FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C_{air} x DBR x A x (EF/365) x 10^{-6}

Where: C_{air} = concentration in air $(\mu g/m^3)$
DBR = daily breathing rate (L/kg body weight-day)
A = Inhalation absorption factor
EF = Exposure frequency (days/year)
10^{-6} = Conversion factor

Values

Cancer Potency Factors $(mg/kg\text{-}day)^{-1}$

TAC	CPF
DPM	1.10E+00
Vehicle TOG Exhaust	6.28E-03
Vehicle TOG Evaporative	3.70E-04

	Infant/Child			Adult
Age -->	3rd Trimester	0 - <2	2 - <16	16 - 30
Parameter				
ASF	10	10	3	1
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
ED =	0.25	2	14	14
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

* 95th percentile breathing rates for infants and 80th percentile for children and adults

Road Traffic Cancer Risk by Year - Maximum Impact Receptor Location

				Maximum - Exposure Information				Cancer Risk (per million)			
					Annual TAC Conc (ug/m3)						
Exposure Year	Year	Exposure Duration (years)	Age	Age Sensitivity Factor	DPM	Exhaust TOG	Evaporative TOG	DPM	Exhaust TOG	Evaporative TOG	Total
0	2023	0	-	-	0.0000	0.0000	0.0000	-	-	-	-
3rd Trimester	2024	0.25	-0.25 - 0*	10	0.0000	0.0000	0.0000	0.000	0.0000	0.0000	0.00
1	2025	1	1	10	0.0000	0.0000	0.0000	0.00	0.0000	0.0000	0.000
2	2026	1	2	10	0.0016	0.0495	0.0722	0.255	0.0464	0.0040	0.305
3	2027	1	3	3	0.0016	0.0495	0.0722	0.04	0.0073	0.0006	0.048
4	2028	1	4	3	0.0016	0.0495	0.0722	0.04	0.0073	0.0006	0.048
5	2029	1	5	3	0.0016	0.0495	0.0722	0.04	0.0073	0.0006	0.048
6	2030	1	6	3	0.0016	0.0495	0.0722	0.04	0.0073	0.0006	0.048
7	2031	1	7	3	0.0016	0.0495	0.0722	0.04	0.0073	0.0006	0.048
8	2032	1	8	3	0.0016	0.0495	0.0722	0.04	0.0073	0.0006	0.048
9	2033	1	9	3	0.0016	0.0495	0.0722	0.04	0.0073	0.0006	0.048
10	2034	1	10	3	0.0016	0.0495	0.0722	0.04	0.0073	0.0006	0.048
11	2035	1	11	3	0.0016	0.0495	0.0722	0.04	0.0073	0.0006	0.048
12	2036	1	12	3	0.0016	0.0495	0.0722	0.04	0.0073	0.0006	0.048
13	2037	1	13	3	0.0016	0.0495	0.0722	0.04	0.0073	0.0006	0.048
14	2038	1	14	3	0.0016	0.0495	0.0722	0.04	0.0073	0.0006	0.048
15	2039	1	15	3	0.0016	0.0495	0.0722	0.04	0.0073	0.0006	0.048
16	2040	1	16	3	0.0016	0.0495	0.0722	0.04	0.0073	0.0006	0.048
17	2041	1	17	1	0.0016	0.0495	0.0722	0.004	0.0008	0.0001	0.005
18	2042	1	18	1	0.0016	0.0495	0.0722	0.004	0.0008	0.0001	0.005
19	2043	1	19	1	0.0016	0.0495	0.0722	0.004	0.0008	0.0001	0.005
20	2044	1	20	1	0.0016	0.0495	0.0722	0.004	0.0008	0.0001	0.005
21	2045	1	21	1	0.0016	0.0495	0.0722	0.004	0.0008	0.0001	0.005
22	2046	1	22	1	0.0016	0.0495	0.0722	0.004	0.0008	0.0001	0.005
23	2047	1	23	1	0.0016	0.0495	0.0722	0.004	0.0008	0.0001	0.005
24	2048	1	24	1	0.0016	0.0495	0.0722	0.004	0.0008	0.0001	0.005
25	2049	1	25	1	0.0016	0.0495	0.0722	0.004	0.0008	0.0001	0.005
26	2050	1	26	1	0.0016	0.0495	0.0722	0.004	0.0008	0.0001	0.005
27	2051	1	27	1	0.0016	0.0495	0.0722	0.004	0.0008	0.0001	0.005
28	2052	1	28	1	0.0016	0.0495	0.0722	0.004	0.0008	0.0001	0.005
29	2053	1	29	1	0.0016	0.0495	0.0722	0.004	0.0008	0.0001	0.005
30	2054	1	30	1	0.0016	0.0495	0.0722	0.004	0.0008	0.0001	0.005
Total Increased Cancer Risk								0.8780	0.1600	0.0138	**1.05**

* Third trimester of pregnancy

Google Middlefield - Background (Existing) Traffic - TACs & PM2.5
Local Roads and State Route 237
AERMOD Risk Modeling Parameters and Maximum Concentrations
Maximum Cancer Risk Calculations for Existing Roadway Traffic- Unmtigated
On-Site Residential Receptors

Receptor Information

Number of Receptors	384
Receptor Height =	2nd floor level
Receptor distances =	9 meter grid spacing in residential areas

Meteorological Conditions

CARB Moffett Field Met Data	2009-2013
Land Use Classification	urban
Wind speed =	variable
Wind direction =	variable

On-Site MEIs Maximum Concentrations

Emission Years	Concentration ($\mu g/m^3$)		
	DPM	Exhaust TOG	Evaporative TOG
2023 - Construction	0.00000	0.0000	0.0000
2024 - Construction	0.00000	0.0000	0.0000
2025 - Construction	0.00000	0.0000	0.0000
2026 - Construction	0.00000	0.0000	0.0000
2027 - Construction	0.00000	0.0000	0.0000
2028 - Construction	0.00000	0.0000	0.0000
2029 - Construction	0.00000	0.0000	0.0000
2030 - Construction	0.00000	0.0000	0.0000
2031 - Construction	0.00000	0.0000	0.0000
2026-2055 - Roads	0.00405	0.1235	0.1717
2026-2055 - Generators	0.00000	0.0000	0.0000

Emission Year	Maximum Total PM2.5 Concentration (µg/m3)
2026	0.040

Google Middlefield - Local Roads & SR-237 with Background (Existing) Traffic at Location of On-Site MEIs
Maximum Cancer Risk Calculations for Existing Roadway Traffic- Unmtigated
On-Site Residential Receptors
Residential Exposure (30-year)

Cancer Risk Calculation Method

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor $(mg/kg\text{-}day)^{-1}$
ASF = Age sensitivity factor for specified age group
ED = Exposure duration (years)
AT = Averaging time for lifetime cancer risk (years)
FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C_{air} x DBR x A x (EF/365) x 10^{-6}

Where: C_{air} = concentration in air $(\mu g/m^3)$
DBR = daily breathing rate (L/kg body weight-day)
A = Inhalation absorption factor
EF = Exposure frequency (days/year)
10^{-6} = Conversion factor

Values

Cancer Potency Factors $(mg/kg\text{-}day)^{-1}$

TAC	CPF
DPM	1.10E+00
Vehicle TOG Exhaust	6.28E-03
Vehicle TOG Evaporative	3.70E-04

	Infant/Child			Adult
Age -->	3rd Trimester	0 - <2	2 - <16	16 - 30
Parameter				
ASF	10	10	3	1
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
ED =	0.25	2	14	14
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

* 95th percentile breathing rates for infants and 80th percentile for children and adults

Project Construction & Operation Cancer Risk by Year - Maximum Impact Receptor Location

				Maximum - Exposure Information				Cancer Risk (per million)			
		Exposure		Age	Annual TAC Conc (ug/m3)						
Exposure Year	Year	Duration (years)	Age	Sensitivity Factor	DPM	Exhaust TOG	Evaporative TOG	DPM	Exhaust TOG	Evaporative TOG	Total
0	2023	0	-	-	0.0000	0.0000	0.0000	-	-	-	-
0	2024	0	-	-	0.0000	0.0000	0.0000	-	-	-	-
3rd Trimester	2025	0.25	-0.25 - 0*	10	0.0000	0.0000	0.0000	0.00	0.0000	0.0000	0.000
1	2026	1	2	10	0.0041	0.1235	0.1717	0.665	0.1158	0.0095	0.791
2	2027	1	3	10	0.0041	0.1235	0.1717	0.665	0.1158	0.0095	0.791
3	2028	1	4	3	0.0041	0.1235	0.1717	0.10	0.0182	0.0015	0.124
4	2029	1	5	3	0.0041	0.1235	0.1717	0.10	0.0182	0.0015	0.124
5	2030	1	6	3	0.0041	0.1235	0.1717	0.10	0.0182	0.0015	0.124
6	2031	1	7	3	0.0041	0.1235	0.1717	0.10	0.0182	0.0015	0.124
7	2032	1	8	3	0.0041	0.1235	0.1717	0.10	0.0182	0.0015	0.124
8	2033	1	9	3	0.0041	0.1235	0.1717	0.10	0.0182	0.0015	0.124
9	2034	1	10	3	0.0041	0.1235	0.1717	0.10	0.0182	0.0015	0.124
10	2035	1	11	3	0.0041	0.1235	0.1717	0.10	0.0182	0.0015	0.124
11	2036	1	12	3	0.0041	0.1235	0.1717	0.10	0.0182	0.0015	0.124
12	2037	1	13	3	0.0041	0.1235	0.1717	0.10	0.0182	0.0015	0.124
13	2038	1	14	3	0.0041	0.1235	0.1717	0.10	0.0182	0.0015	0.124
14	2039	1	15	3	0.0041	0.1235	0.1717	0.10	0.0182	0.0015	0.124
15	2040	1	16	3	0.0041	0.1235	0.1717	0.10	0.0182	0.0015	0.124
16	2041	1	17	3	0.0041	0.1235	0.1717	0.10	0.0182	0.0015	0.124
17	2042	1	18	1	0.0041	0.1235	0.1717	0.012	0.0020	0.0002	0.014
18	2043	1	19	1	0.0041	0.1235	0.1717	0.012	0.0020	0.0002	0.014
19	2044	1	20	1	0.0041	0.1235	0.1717	0.012	0.0020	0.0002	0.014
20	2045	1	21	1	0.0041	0.1235	0.1717	0.012	0.0020	0.0002	0.014
21	2046	1	22	1	0.0041	0.1235	0.1717	0.012	0.0020	0.0002	0.014
22	2047	1	23	1	0.0041	0.1235	0.1717	0.012	0.0020	0.0002	0.014
23	2048	1	24	1	0.0041	0.1235	0.1717	0.012	0.0020	0.0002	0.014
24	2049	1	25	1	0.0041	0.1235	0.1717	0.012	0.0020	0.0002	0.014
25	2050	1	26	1	0.0041	0.1235	0.1717	0.012	0.0020	0.0002	0.014
26	2051	1	27	1	0.0041	0.1235	0.1717	0.012	0.0020	0.0002	0.014
27	2052	1	28	1	0.0041	0.1235	0.1717	0.012	0.0020	0.0002	0.014
28	2053	1	29	1	0.0041	0.1235	0.1717	0.012	0.0020	0.0002	0.014
29	2054	1	30	1	0.0041	0.1235	0.1717	0.012	0.0020	0.0002	0.014
30	2055	1	30	1	0.0041	0.1235	0.1717	0.012	0.0020	0.0002	0.014
Total Increased Cancer Risk								**2.96**	**0.5154**	**0.0423**	**3.52**
Total Increased Cancer Risk With use of MERV-13 Filtration								**0.89**	**0.5154**	**0.0423**	**1.45**

* Third trimester of pregnancy

Bay Area Air Quality Management District

Risk & Hazard Stationary Source Inquiry Form

This form is required when users request stationary source data from BAAQMD

This form is to be used with the BAAQMD's Google Earth stationary source screening tables.

Click here for guidance on coducting risk & hazard screening, including roadways & freeways, refer to the District's Risk & Hazard Analysis flow chart.

Click here for District's Recommended Methods for Screening and Modeling Local Risks and Hazards document.

Table A Requester Contact Information

Date of Request	**10/14/2021**
Contact Name	Casey Divine
Affiliation	Illingworth & Rodkin, Inc.
Phone	707-794-0400 x113
Email	cidvine@illingworthrodkin.com
Project Name	Middlefield Master Plan
Address	Logue Ave & Maude Ave
City	Mountain View
County	Santa Clara
Type (residential, commercial, mixed use, industrial, etc.)	Residential & Office
Project Size (# of units or building square feet)	1,900du, 1.3mil-sf Office
Comments:	

For Air District assistance, the following steps must be completed:

1. Complete all the contact and project information requested in Table A. Incomplete forms will not be processed. Please include a project site map.

2. Download and install the free program Google Earth, **http://www.google.com/earth/download/ge/,** and then download the county specific Google Earth stationary source application files from the District's website, **http://www.baaqmd.gov/Divisions/Planning-and-Research/CEQA-GUIDELINES/Tools-and-Methodology.aspx.** The small points on the map represent stationary sources permitted by the District (Map A on right). These permitted sources include diesel back-up generators, gas stations, dry cleaners, boilers, printers, auto spray booths, etc. Click on a point to view the source's Information Table, including the name, location, and preliminary estimated cancer risk, hazard index, and PM2.5 concentration.

3. Find the project site in Google Earth by inputting the site's address in the Google Earth search box.

4. Identify stationary sources within at least a 1000ft radius of project site. Verify that the location of the source on the map matches with the source's address in the Information Table, by using the Google Earth address search box to confirm the source's address location. Please report any mapping errors to the District.

5. List the stationary source information in Table B blue section only.

6. Note that a small percentage of the stationary sources have Health Risk Screening Assessment (HRSA) data INSTEAD of screening level data. These sources will be noted by an asterisk next to the Plant Name (Map B on right). If HRSA values are presented, these values have already been modeled and cannot be adjusted further.

7. Email this completed form to District staff. District staff will provide the most recent risk, hazard, and PM2.5 data that are available for the source(s). If this information or data are not available, source emissions data will be provided. Staff will respond to inquiries within three weeks.

Note that a public records request received for the same stationary source information will cancel the processing of your SSIF request.

Submit forms, maps, and questions to Matthew Hanson at 415-749-8733, or mhanson@baaqmd.gov

Table B: Google Earth data

Distance from Receptor (feet) or MEI[1]	Plant No.	Facility Name	Address	Cancer Risk[2]	Hazard Risk[2]	$PM_{2.5}$[2]	Source No.[3]	Type of Source[4]	Fuel Code[5]	Status/Comments	Project MEI: Distance Adjustment Multiplier	Project MEI: Adjusted Cancer Risk Estimate	Project MEI: Adjusted Hazard Risk	Project MEI: Adjusted PM2.5
+1000	909	Raytheon Company	350 Ellis Street	-	-	-		Ozone Water Treatment System		2018 Dataset	0.04	#VALUE!	#VALUE!	#VALUE!
950	8392	Hitachi Chemical Diagnostics, Inc	630 Clyde Court	2.51	0.01	0.003		(1) Generator, (2) Solvent Cleaning Operations, (1) Misc Bench Scale Lab Fume Hoods		2018 Dataset	0.04	0.10	0.0002	0.0001
+1000	19428	Renault & Handley c/o Middlefield Road JV Inv Co	401 E Middlefield Road	3.57	0.01	0.005		Generators		2018 Dataset	0.04	0.14	0.0002	0.0002
+1000	21100	Siemens Medical Solutions USA, Inc	685 E Middlefield Road	2.91	0.002	0.004		(1) Generator		2018 Dataset	0.04	0.12	0.0001	0.0002
+1000	21411	Cushman & Wakefield at Symantec	455 E Middlefield Road	14.44	0.03	0.02		Generators		2018 Dataset	0.04	0.58	0.001	0.001
980	21492	Cushman & Wakefield at Symantec	350 Ellis Street	1.30	0.001	0.002		Generators		2018 Dataset	0.04	0.05	0.00005	0.0001
+1000	21845	Kilroy Realty Corporation	690 E Middlefield Road	7.19	0.01	0.02		Generators		2018 Dataset	0.04	0.29	0.001	0.001
+1000	22297	Mozart Development Company	605 E Fairchild Drive	1.24	0.001	0.002		Generators		2018 Dataset	0.04	0.05	0.00004	0.0001
550	22751	Google LLC	475 Ellis Street	35.07	0.03	0.05		(4) Generators, (1) Industrial Surface Coating Operations		2018 Dataset	0.10	3.51	0.003	0.005
+1000	23847	Samsung Research America	665 Clyde Avenue	0.17	0.0004	0.0002		Generators		2018 Dataset	0.04	0.01	0.00001	0.00001
+1000	200396	Linkedin Corporation	700 E MIDDLEFIELD RD	3.85	0.001	0.005		Generators		2018 Dataset	0.04	0.15	0.00004	0.0002
											Sum	4.99	0.01	0.01

Footnotes:

1. Maximally exposed individual

2. These Cancer Risk, Hazard Index, and PM2.5 columns represent the values in the Google Earth Plant Information Table.
3. Each plant may have multiple permits and sources.
4. Permitted sources include diesel back-up generators, gas stations, dry cleaners, boilers, printers, auto spray booths, etc.
5. Fuel codes: 98 = diesel, 189 = Natural Gas.
6. If a Health Risk Screening Assessment (HRSA) was completed for the source, the application number will be listed here.
7. The date that the HRSA was completed.
8. Engineer who completed the HRSA. For District purposes only.
9. All HRSA completed before 1/5/2010 need to be multiplied by an age sensitivity factor of 1.7.
10. The HRSA "Chronic Health" number represents the Hazard Index.
11. Further information about common sources:
    a. Sources that only include diesel internal combustion engines can be adjusted using the BAAQMD's Diesel Multiplier worksheet.
    b. The risk from natural gas boilers used for space heating when <25 MM BTU/hr would have an estimated cancer risk of one in a million or less, and a chronic hazard index of 0.003 or less. To be
    c. BAAQMD Reg 11 Rule 16 required that all co-residential (sharing a wall, floor, ceiling or is in the same building as a residential unit) dry cleaners cease use of perc on July 1, 2010. Therefore, there is no cancer risk, hazard or PM2.5 concentrations from co-residential dry cleaning businesses in the BAAQMD.
    d. Non co-residential dry cleaners must phase out use of perc by Jan. 1, 2023. Therefore, the risk from these dry cleaners does not need to be factored in over a 70-year period, but instead should reflect the number of
    e. Gas stations can be adjusted using BAAQMD's Gas Station Distance Mulitplier worksheet.
    f. Unless otherwise noted, exempt sources are considered insignificant. See BAAQMD Reg 2 Rule 1 for a list of exempt sources.
    g. This spray booth is considered to be insignificant.

Date last updated:
03/13/2018

Project Site

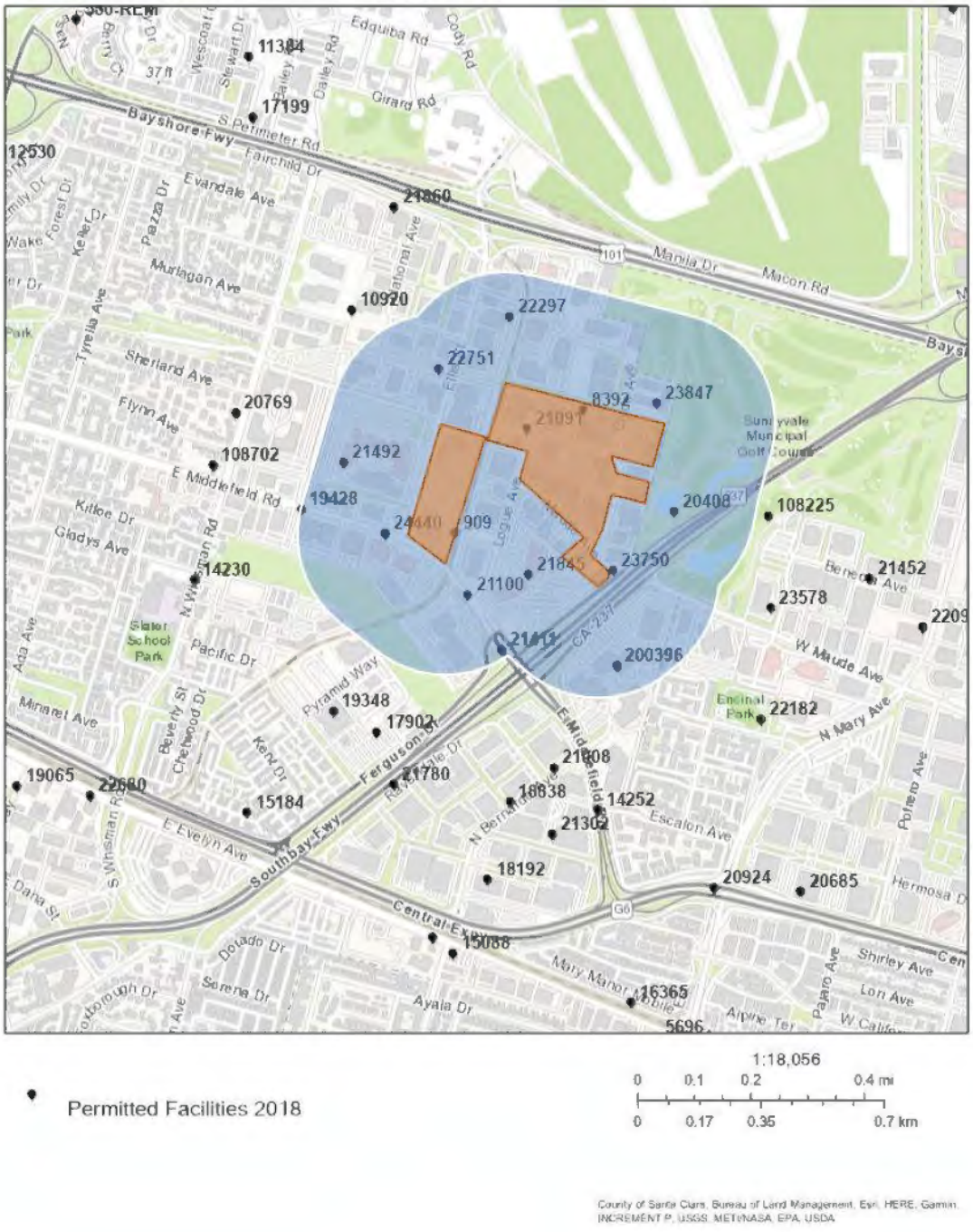
Distance from Receptor (feet) or MEI[1]	FACID (Plant No.)	Distance Adjustment Multiplier	Adjusted Cancer Risk Estimate	Adjusted Hazard Risk	Adjusted PM2.5
350	909	0.47	#VALUE!	#VALUE!	#VALUE!
250	8392	0.28	0.70	0.002	0.001
930	19428	0.04	0.14	0.0002	0.0002
875	21100	0.05	0.15	0.0001	0.0002
510	21411	0.10	1.44	0.003	0.002
260	21492	0.28	0.36	0.0003	0.0005
530	21845	0.10	0.72	0.001	0.002
980	22297	0.04	0.05	0.00004	0.0001
700	22751	0.07	2.45	0.002	0.003
650	23847	0.08	0.01	0.00003	0.00002
600	200396	0.09	0.35	0.0001	0.0004
		Sum	6.38	0.01	0.01

Stationary Source Risk & Hazards Screening Report

Area of Interest (AOI) Information

Area : 13,446,054.63 ft²

Sep 28 2021 10:29:18 Pacific Daylight Time



Summary

Name	Count	Area(ft²)	Length(ft)
Permitted Facilities 2018	16	N/A	N/A

Permitted Facilities 2018

#	FACID	Name	Address	City	St
1	909	Raytheon Company	350 Ellis Street	Mountain View	CA
2	8392	Hitachi Chemical Diagnostics, Inc	630 Clyde Court	Mountain View	CA
3	19428	Renault & Handley c/o Middlefield Road JV Inv Co	401 E Middlefield Road	Mountain View	CA
4	20408	Open TV	485 Clyde Avenue	Mountain View	CA
5	21091	Quotient Technology, Inc	510 Logue Avenue	Mountain View	CA
6	21100	Siemens Medical Solutions USA, Inc	685 E Middlefield Road	Mountain View	CA
7	21320	Veritas Technologies LLC c/o Cushaman Wakefield	500 E Middlefield Road	Mountain View	CA
8	21411	Cushman & Wakefield at Symantec	455 E Middlefield Road	Mountain View	CA
9	21492	Cushman & Wakefield at Symantec	350 Ellis Street	Mountain View	CA
10	21845	Kilroy Realty Corporation	690 E Middlefield Road	Mountain View	CA
11	22297	Mozart Development Company	605 E Fairchild Drive	Mountain View	CA
12	22751	Google LLC	475 Ellis Street	Mountain View	CA
13	23750	LinkedIn Corp	950 W Maude Avenue	Sunnyvale	CA
14	23847	Samsung Research America	665 Clyde Avenue	Mountain View	CA
15	24440	Google LLC	500 E Middlefield Road	Mountain View	CA
16	200396	Linkedin Corporation	700 E MIDDLEFIELD RD	MOUNTAIN VIEW	CA

#	Zip	County	Cancer	Hazard	PM_25	Type	Count
1	94043	Santa Clara	0.000	0.000	0.000	Contact BAAQMD	1
2	94043	Santa Clara	2.510	0.010	0.000	Contact BAAQMD	1
3	94043	Santa Clara	3.570	0.010	0.000	Generators	1
4	94043	Santa Clara	5.050	0.010	0.010	Generators	1
5	94043	Santa Clara	18.070	0.010	0.020	Generators	1
6	94043	Santa Clara	2.910	0.000	0.000	Contact BAAQMD	1
7	94043	Santa Clara	0.270	0.000	0.000	Generators	1
8	94043	Santa Clara	14.440	0.030	0.020	Generators	1
9	94043	Santa Clara	1.300	0.000	0.000	Generators	1
10	94043	Santa Clara	7.190	0.010	0.020	Generators	1
11	94043	Santa Clara	1.240	0.000	0.000	Generators	1
12	94043	Santa Clara	35.070	0.030	0.050	Contact BAAQMD	1
13	94085	Santa Clara	5.490	0.010	0.000	Generators	1
14	94043	Santa Clara	0.170	0.000	0.000	Generators	1
15	94043	Santa Clara	0.270	0.000	0.000	Generators	1
16	94043	Santa Clara	3.850	0.000	0.000	Generators	1

Note: The estimated risk and hazard impacts from these sources would be expected to be substantially lower when site specific Health Risk Screening Assessments are conducted.

The screening level map is not recommended for evaluating sensitive land uses such as schools, senior centers, day cares, and health facilities.